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# **Economic Sanctions**

### Peter A. G. van Bergeijk Can the Sanction Debate Be Resolved?

The debate over whether economic sanctions 'work' is mired in scholarly limbo. David A. Baldwin (2000, 80)

#### INTRODUCTION

It is both disturbing and puzzling that despite many decades of research by the brightest minds we have still not been able to arrive at a consensus on the pertinent question "do sanctions work?" This is certainly not because the literature has not dealt with this issue. Figure 1 provides an admittedly rough and mechanic, but still useful characterization of the post-Second World War literature.<sup>1</sup> Figure 1 indicates both the amount and growth of research on economic sanctions and the role that failure and success have always played in the academic debate

<sup>1</sup> I use Google Scholar because it also covers books that have always been and continue to be important academic outlets for my topic.

#### Figure 1

Number of Google Scholar Hits for 'Economic Sanctions' and Three Key Concepts by Decade (1950–2019)



Note: Total economic sanctions reports the number of results returned for ('economic sanctions'). For a key concept (e.g. success) the number of returned results relates to searching for ('economic sanctions' success). Source: Google scholar.

on economic sanctions.<sup>2</sup> This makes the puzzle that the debate on sanctions has not been resolved even more baffling.

The remainder of this article is organized as follows. In the next section we will take a look at the debate on the effectiveness of economic sanctions and the underlying factors. The third section derives some stylized facts regarding this debate, followed by the fourth section which discusses possible explanations for this development. The final section suggests an alternative methodological approach that could help to bring the debate closer to a solution.

#### **PRE- VERSUS POST-1990**

My own involvement with the sanction debate started in the second half of the 1980s. In those days, economic sanctions were definitely not considered effective tools to change the politics and policies of the target nation. The sanctions against the apartheid regimes of Rhodesia and South Africa had been analyzed in depth by leading scholars of the time and their verdict on the utility of economic sanctions was negative. Galtung (1967), for example, in a highly influential article had developed a theory of economic sanctions using Rhodesia as an example and with a sobering conclusion: he cautioned

> that his finding that the sanctions had not been effective did not mean that sanctions could not be effective; the influential study by Wallensteen (1968, 262) however concluded that "[t]he general picture is that economic sanc-

<sup>2</sup> The analysis on which these findings are based cover more characteristics and concepts of the sanctions debate (van Bergeijk 2020). It is interesting to note that the literature considered the ex ante threat aspect of economic sanctions from the start, so well before game theoretic analyses were in vogue. The analysis also reveals dynamic developments in the literature such as the fact that the share of 'punishment' and 'reward' starts to increase from about one-fifth around 1990 to between one-half and two-thirds only in the most recent decade.



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tions have been unsuccessful as a means of influence in the international system". Indeed, in the early 1980s, the other UN sanction of that epoch (against South Africa during apartheid) was at that time also considered to be a failure; this was also true of other high-profile cases such as sanctions against Cuba and the Soviet Union or, for that matter, the OPEC oil embargo. Barber (1979, 384) summarized the state of affairs as follows: "[a]lthough there are some difficulties of evaluation, there is a strong consensus that sanctions have not been successful in achieving their primary objectives". Lindsay (1986), while recognizing the potential utility of sanctions as domestic and international symbols, concluded that sanctions generally failed with respect to compliance, subversion, or deterrence.

Why did the profession arrive at this verdict? First and foremost, it was pointed out that it would hardly be possible to bring about the political unity that is necessary for forceful embargoes and boycotts, and that - even if established - such measures would be easy to evade (Adler-Karlsson 1982). Also, the time between the announcement of the intention to impose sanctions and the actual implementation of those measures was long, offering sanction targets the option to adapt, for instance through stockpiling and restructuring the economy (Seeler 1982). Moreover, it was recognized that compliance with highly visible pressure, such as economic sanctions, would erode the target's leadership both at home and abroad (Lindsay 1986) and compliance was thus associated with high political costsinseveralarenas. Finally, the 1980s also brought the numbers that seemed to support this consensus when Hufbauer and Schott in 1985 published their seminal study Economic Sanctions Reconsidered, which for the first time coded a large number of sanction cases. Amongst their findings, the sobering fact still stands out that two out of three economic sanctions failed. The empirics thus seemed to support

the consensus and some, like Pape (1997), have argued that the numerical case against sanctions is even stronger.

The research puzzle that motivates this paper is the fact the sanction debate continues today. Perhaps one might be inclined to relate this state of affairs to the fact that the conditions for sanction success have dramatically changed since the 1980s, as I argued in the mid-1990s (van Bergeijk 1994 and 1995). Indeed, the end of the superpower conflict enabled UN sanctions to be implemented quickly and

comprehensively: the severe, wide-ranging, and almost watertight sanctions against Iraq in 1990 were implemented in four days. Globalization, moreover, opened up many economies that previously could not have been hurt by economic sanctions. Apartheid ended. Since the conditions of time and place would appear to have changed to the benefit of (potential) success, one might expect the balance of evidence to have shifted from the negative consensus in the 1980s to a more positive evaluation in recent decades. However, as will become clear in the next section, the literature has actually become more inclined to discuss and find ineffectiveness.

#### THE MORE WE LEARN, THE LESS WE KNOW?

Figure 2 provides another first rough characterization of the problem at hand. The key characteristics identified in Figure 1 appear as the upper 'success' and 'failure' lines. The numbers are in percent of the total for economic sanctions (that is: the red line in Figure 1); so, the focus in Figure 2 is on the relative importance of concepts rather than on absolute numbers. Over the post-Second World War period these shares are stable. I have added four key attributes of the sanction debate, including shares for 'effective', 'effectiveness', 'ineffective', and 'ineffectiveness'. Whereas 'effective' and 'effectiveness' over the whole period appear to be common concepts in the sanction debate (with a score that is comparable to 'failure' and 'success'), we see that 'ineffective' and 'ineffectiveness' start from a significantly lower share, but since the 1990s have been catching up (an increase of 25 percentage points). This observation illustrates that the ineffectiveness of sanctions plays a larger role in the debate.

The fact that the concepts of 'ineffective' and 'ineffectiveness' have become more frequent attri-

#### Figure 2

'Ineffective' and 'Ineffectiveness' Have Become Much More Important Attributes in the Sanction Literature Share in Total Economic Sanctions (Google Scholar hits for key concepts by decade, 1950–2019)



(e.g., success) the number of returned results relates to searching for ('economic sanctions' success). Source: Google scholar.

Figure 3 Reported t-Values of Trade Coefficient Reported in 36 Primary Studies Published in 1985–2018



butes in the sanction debate could reflect a more balanced approach, a mere change in language, or an underlying empirical trend. It is a piece of the puzzle, but we have to dig deeper. Therefore, Figure 3 reports the t-values for the trade variable in the 36 empirical studies on success/effectiveness and failure/ineffectiveness of economic sanctions that include a trade variable amongst the explanatory or controlling variables.<sup>3</sup> The reason to take a look at the role of trade in the sanction debate is that sanctions cannot be expected to change behavior if the amount of trade between sanction sender and sanction target is negligible - for me as an economist: if anything should be associated with sanction success and failure, then it is the level of pre-sanction trade that could be hit by the sanctions. The t-values are appropriate measures because they focus on sign and significance and also because they are dimensionless (thus avoiding distortions of comparability due to slightly different operationalizations of trade).

Figure 4

that the literature gets less and less conclusive. This is not so much due to insignificant findings as to dispersion. Indeed, highly significant negative coefficients go hand in hand with highly significant positive values. Second, Figure 3 provides a kernel plot that reveals the same issue - not from the perspective of increased dispersion, but from the point of view of the overall conclusion that can be drawn from the primary studies. The kernel function shows that year by year the primary studies show a decreasing average

and that the average in 2018 is close to becoming insignificant. So, the conclusion from Figure 3 is that no conversion emerges on the impact of a key variable and that disagreement on its sign (and size) has increased meaningfully and statistically over time.

Figure 4 provides some detailed findings of a deeper analysis of this phenomenon, as it reports on meta-regressions for trade and two other key determinants of sanction success: sanction duration and prior relations. Duration and prior relations are also key ingredients of the economic analysis (Dizaji and van Bergeijk 2013). The longer sanctions are in effect, the better the target can adjust, because adjustment of production structures and reallocation of the factors of production takes time. If prior relations are bad, then a potential target could preempt the sanction and reduce its impact either by proactive reorientation on new markets or by stockpiling. The results of the meta-regression analyses that use study characteristics as controlling vari-

Figure 3 shows reported t-values in empirical studies (each dot is a regression/ specification) over time and makes two points. First, it shows that after initial agreement in the mid-1980s and 1990s on the positive impact of trade on success and failure of economic sanctions, after the turn of the century negative trade coefficients become more common so

<sup>3</sup> The data collection is part of a project at my Institute for which a good three hundred estimates were collected from 36 studies that appeared in the period between 1985 to 2018 inclusive (most of these studies appeared in peer-reviewed journals), see Demena et al. (2019).





ables and relate to different (but overlapping) sub-samples of the empirical sanctions literature are sobering. While the primary studies on average report that the signs of trade, duration, and prior relations conform to a priori theoretical expectations, the meta-regression analysis is that this is mainly due to publication bias away from zero. Indeed, the genuine effects are always very small. The implication of this finding is that the literature appears to exaggerate the importance of the three determinants for the success of economic sanctions.

All in all, we have uncovered that the literature on economic sanctions can be characterized by three stylized facts:

- the empirical post-Second World War literature shows an increasing association between economic sanctions and their ineffectiveness since the 1990s;
- 2. the findings that are reported in the empirical literature show an increasing dispersion and inconclusiveness since the turn of the millennium; and
- 3. the post-1985 empirical literature suffers from significant bias in the reported results.

In the next section I will discuss potential explanations for this phenomenon.

### WHY DOES THE DEBATE MOVE TOWARDS FURTHER INCONCLUSIVENESS?

It is actually not uncommon to find that the literature on a topic develops in opposite directions, that seminal results are contested, and/or that publication bias is significant in a literature. We can thus resort to research that has found and discussed similar results. According to Robert Goldfarb (1995), the time pattern of findings in economics very often starts with a paper that reports a new and exciting statistically significant result and initiates a stream of skeptical publications that contest the original result and, in a later round new papers contest the contestations, and so on, until the literature converges to a consensus. In any emerging scientific field, many findings are 'preliminary' and often contradictory due to the process of finding out the true effect (van Bergeijk and Lazzaroni 2015). At first sight, Figure 3 would seem to represent such a trend, starting with a highly significant trade parameter that adjusts to more accurate smaller values over time. Indeed, the kernel function suggests that skepticism is doing its job in science, but in fact it does not. We can observe that findings pro and contra rest on increasingly statistically more significant findings. Figure 3 shows no convergence but divergence in statistically significant positive and negative results, and Goldfarb's

theory cannot provide an explanation for the state of affairs in sanction research.

So, let us take a look at explanations for publication bias that according to Figure 4 is a severe problem. Publication bias is a bias that is introduced into the publication process by selection of particular results. This can occur in the referee procedure. Editors and referees will prefer convincing papers and all too often they look for papers with large and highly significant coefficients. It is thus more difficult to publish less significant findings, and this biases what we see in the journals. In the same vein, it is easier to publish a paper that contradicts rather than confirms existing knowledge. Confirmation tells us something that 'we already know'.

It is, however, not only the publication process that creates bias. Researchers are typically intrinsically motivated. Economic sanctions are applied for a great many issues, including adherence to human rights, and like all economic activities they have important external effects (e.g., on health). Obviously, economic sanctions are applied in a context of international conflict with different impacts on sender and target. For some, sanctions are an alternative to outright war. Also, the tension between sanctions and free trade is a relevant issue. All in all, sanctions have a high societal and political relevance and therefore researchers might be (explicitly or implicitly) driven by their ideals or ideologies to report results that fit their worldview in relation to problem identification, solutions, as well as instruments (and, importantly, they may ignore results that contradict their view of the world). If so, political cycles and geopolitics can to a large extent explain both the publication bias as well as the lack of convergence and absence of a consensus.

The problem with the sanction literature is, moreover, that empirical research is by and large based on three data collections (Peksen 2019), namely Hufbauer et al. (1985, 1990 and 2007); Morgan et al. (2009 and 2014); and Biersteker et al. (2018). While these datasets are referred to as large-N datasets, meaning they contain a large number of sanction episodes (the unit of analysis/observation), the number of episodes is small by the usual standards. The label large-N was earned because before 1985 comparative research of economic sanctions would be based on a few handfuls of cases. So, 1985 is a watershed year because, thanks to the seminal study by Hufbauer et al., the number of cases exceeded one hundred. Later work updated, extended, and also brought new types of sanctions into the picture, but essentially all empirical research is asking questions to a quite limited set of data that is all constructed in similar ways. Despite the large-N epitaph, the sample is by most standards small especially if subsets of specific sanction goals or

senders are considered. A related problem is that updates of the data often coincide with changes in coding, so that results for even a similar set of cases can differ from data version to data version (van Bergeijk and Siddique 2017).<sup>4</sup> My conclusion is that we need a new approach: the large-N datasets have been an important step forward, but as illustrated in Figure 3 and 4 cannot bring us closer to a consensus. So, what to do?

#### A FUTURE FOR SANCTION RESEARCH?

In order to resolve the sanction debate, we will need new ways of looking at the (in)effectiveness and impact of economic sanctions, because the current approaches do not show that the field is moving towards consensus. This requires a change in the dominant methodology, which presently evaluates and codes the judgment of scientists and policymakers on the success/failure of sanctions and uses this data to establish covariates and determinants of the outcomes of economic sanction cases. The aim is to reach a general conclusion, but this comes at the cost of a deeper understanding of country-specific relationships

The alternative avoids the subjective evaluations and relies on empirically established relationships. Such an approach starts with a revival of country or case studies. Using the sanction target as the unit of observation enables researchers to bring much-needed detail on country- and/or economy-specific characteristics into the picture. Data on trade structure, production, elasticities, political systems, et cetera are available for countries, but bringing such items into the realm of the traditional large-N studies is not feasible. The large-N is not sufficiently large, and we would soon be left without degrees of freedom.

Country case studies could also include the dynamic development of political and (socio)economic variables that is missing from our current analysis of success and failure (Peksen 2019). An example of such a case study is the Vector Auto Regressive model that I developed with Sajjad Dizaji regarding sanctions against Iran (Dizaji and van Bergeijk 2013). VAR models could be a preferred tool of analysis because they allow for flexible structures, and also because the data requirements are not too demanding. As we showed in our article, we can construct a VAR model that shows how sanctions over time impact the economy and the political system; actually we find that the reduction of oil and gas rents due to the sanctions generates economic costs that act as incentives to move towards a more democratic setting. An important finding is that this effect is significant in the first two years only and

indeed turns negative after six or seven years. The driver of these dynamics is that adjustment of economic structures mitigates the economic – and thereby the political – impact of the sanctions.

In conclusion, we need more VAR studies for countries that have become the target of economic sanctions. This will help us to understand differences and communalities between the cases. Once we have sufficient country studies, we can attempt to synthesize this research by means of a metaanalysis. Of course, we cannot predict if this research strategy will provide a consensus, but it will bring new knowledge and perspectives on the sanction process that are currently not available.

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<sup>&</sup>lt;sup>4</sup> In the context of this article, it is important to note that the

findings for trade linkage, duration, and prior relations are not influenced by the data vintage.

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### Gerald Schneider and Patrick M. Weber Biased, But Surprisingly Effective: Economic Coercion after the Cold War

#### **INTRODUCTION**<sup>1</sup>

Economic sanctions face a major puzzle: senders i.e., governments and international organizations such as the European Union (EU) and the United Nations (UN) - frequently employ them to elicit concessions from a target, be it an organization or a sovereign state, that is accused of acting against the values of the Western powers or the international community. However, the popularity of restrictive measures among the foreign-policy-making elite does not correspond to the public image that economic coercion enjoys. In June 2014, only 46 percent of German interviewees supported stronger sanctions against Russia (Onderco 2017). This lack of support is likely due to the belief that such an escalation would hurt own interests and that coercive plans were doomed to failure in the first place. An unholy coalition of the far right and far left, often supported by business and trade union leaders, has repeatedly called for a suspension of the sanctions.

This article analyzes the sanction threats and impositions by the EU, the UN, and the US in the period between 1989 and 2015, demonstrating that the popular perception of economic coercion is largely mistaken. We show against the backdrop of high-profile failures that the sanction threats and impositions of the United States and the two International Governmental Organizations (IGOs) were often striving to achieve the dominant goal of protecting key liberal values such as the protection of free elections and human rights, but that the design of the coercive measures was frequently flawed.

Our analysis focuses on the onset and the effectiveness of sanctions. We compare realized and potential sanctions, demonstrating first what we call the 'double bias' in the sanction regimes of the three senders. This deficiency can manifest itself in what we dub 'over-sanctioning' or 'under-sanctioning'. The latter category implies that certain potential targets are punished lightly or not at all despite their misdeed. Over-sanctioning includes cases where a potential target falls victim to a sanction for reasons contradicting the liberal values that the EU, the UN, and the US have defended in the post-Cold War era. This form of bias also represents instances in which the senders exerted economic coercion in an excessive manner that did not match the extent to which other targets were sanctioned by the respective sender because of similar alleged misbehaviors.

We show in a second step that sanctions frequently reach their goals. Depending on the measure of effectiveness, economic coercion has worked on average in 30 to 50 percent of all examined cases in the post-Cold War era. The analysis demonstrates that the European Union was more successful with its sanctions than the United States. This is, however, largely a consequence of the ability of the latter sender to coerce targets into the desired change of behavior through a mere sanction threat (Weber and Schneider 2019a). Our analysis also rejects the optimistic expectation that targeted sanctions are more effective than traditional coercive measures, such as import or export restrictions. We conclude with a comparison of the success rate of sanctions against other foreign-policy tools and a discussion of how the current excessive usage of restrictive measures will affect the capacity of the EU and the US to issue successful sanctions in the future.

# THE TRANSFORMATION OF THE WESTERN SANCTION REGIME

At the height of the Cold War, Thomas C. Schelling sketched the strategic understanding of economic sanctions that still holds today (Schelling 1967). According to the Nobel laureate, sanctions follow the logic of deterrence: a sender tries to convince a target through the threat or the imposition of costly measures to alter its behavior or to abandon a planned action. To be credible, sanctions need, in this perspective, to be costly for both the target and the sender. This strategic nature of economic coercion suggests that, in cases where economic integration of the sender and the target is sufficiently large, both sides experience losses after the onset of the arm-twisting attempts. On the other hand, this strategic reasoning contradicts the still widespread perception that economic coercion is 'stupid', to quote Helmut Schmidt's comment on the Western reaction to the annexation of Crimea (Palmer and Spörl 2015). Without a credible threat to hurt oneself in the event of non-compliance, sanctions do not work.

Early sanctions research was quite pessimistic about the success of sanctions. The more recent literature is more optimistic, pointing out that pioneering studies did not take threats into account, which senders frequently issue before the implementation of sanctions (Morgan et al. 2014). This omission often biases estimates of how effective sanctions are.



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Another line of criticism argues that the humanitarian side effects of sanctions often dwarf the losses that the targeted political leaders have to endure in the wake of economic sanctions. Sensationalist reports about how the sanctions against the regime of Saddam Hussein increased child mortality in Iraq spurred the way for the introduction of what have been called 'smart sanctions'. These sanctions, which are now referred to in a more modest way as 'targeted measures', take aim at a country's political and economic elites through travel bans, the freezing of personal assets, and other costly steps. Recent research shows that such targeted sanctions do not function differently than traditional sanctions, as the targeted governments try to shield their supporters against economic losses through a shift in public spending and increased subsidies (Ahn and Ludema 2019). Our own studies show that we cannot rule out that the average sanction has adverse humanitarian side effects, but that the estimated scale of the negative public health repercussions was relatively small (Schneider and Shevchuk 2019). Since the early 2000s, sanctions have also been increasingly targeting a country's financial sector. One exemplary case are the joint sanctions by the EU, the UN, and the US against Iran and its ambition to become a nuclear power, starting in 2006. Sanctions that include financial measures are, however, not necessarily more effective than conventional tools of economic statecraft (Weber and Schneider 2019b).

The three senders on which we focus here issued 325 sanction threats and impositions during the liberal era that started in 1989 with the collapse of the Berlin Wall and ended in 2016 with the Brexit referendum and the election of the 45th US President. Figure 1 shows how the 209 sanctions that the three senders imposed alone or jointly with each other evolved over time. A sanction threat preceded 148 of these cases – and an additional 116 threats did not result in sanctions being imposed.

Note that the increasing number of ongoing sanctions in the early 2000s is largely a consequence of the attempt by President George W. Bush to prevent allies and other states from signing and ratifying the Rome Statute of the International Criminal Court. This episode indicates that sanctions did not always follow a liberal agenda in the time period under examination. If we compare the official motives of the senders for threatened and imposed sanctions, all senders examined here frequently refer to human rights violations, the development of nuclear weapons, or other offenses against the liberal world order as reasons for the coercive measures. One can broadly differentiate between sanctions imposed because of domestic issues within the target state and those imposed because of motives related to international security (e.g., political or military interventions, territorial disputes, production and proliferation of drugs and weapons, alignment choices, and support of terror organizations). Two out of three sanctions by all senders were imposed because of domestic issues in the target state. If one takes into account the series of US sanctions relating to the formation of the International Criminal Court, half of the imposed US sanctions refer to international issues.

Figure 2 shows the number of threatened and imposed sanctions per sender or combination of senders. The United States relied most frequently on this foreign-policy tool in the 1990s and early 2000s. The US's superpower status and low internal decision-making costs explain why it was the most frequent sender. The US President can initiate sanctions through executive acts, while the European Union needs the consent of all 28 – after Brexit, 27 – member states. The EU, with its higher decision-making costs, is the second most active sender and also frequently builds alliances with the US or the UN.

The sanction profiles of the three senders differ geographically and with regard to the instruments

used. The United States imposed sanctions against countries on all continents during the time period covered in this article. While the EU is also globally active, the supranational organization did not participate in sanction initiatives in Latin America until 2017, when it joined the **USintakingcoercivemeasures** against Venezuela. The UN, by contrast, is mainly active in sanctioning African countries. However, these sanctions are significantly more severe than the ones imposed by the two other senders because the UN almost never imposes aid

#### Figure 1



Source: Authors' own compilation.

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#### Figure 2

The Frequency of Sanction Threats and Impositions Divided by Senders and Sender Groups



sanctions – the most common type of EU and US sanctions.

### BIAS IN THE IMPOSITION AND DESIGN OF SANCTIONS

When senders consider the imposition of sanctions and the strength of the respective measures, they can introduce two kinds of biases to their regime of coercive measures – mistakes that we call under- and over-sanctioning and that are akin to statistical errors or judicial misjudgments. Under-sanctioning includes instances of what amounts to 'impunity' and 'dilution'. The equivalent mistakes for cases of over-sanctioning are 'wrongfulness' and 'excess'.

The EU and the UN more frequently refused to sanction countries that violated liberal norms than the US (impunity). The EU also weakened imposed sanctions more frequently than its transatlantic partner (dilution). Conversely, the US relied more frequently on sanctions for non-liberal purposes than the other senders (wrongfulness), and both the EU and the US occasionally scaled sanctions up to such an extent that the measures no longer corresponded to the alleged offenses towards the liberal order (excess). To illustrate such errors with concrete cases, we have counted the number of times that a real or potential country was subjected to the wrong treatment. This miscalculation refers to the divergence between the predicted probabilities of being targeted or still falling subject to a sanction and the predicted intensity in comparison to what was really imposed.<sup>2</sup>

Instances of over-sanctioning resemble the 'conviction of the innocent' and include wrongful and excessive sanctions. Examples of countries that have been subject to continued sanctions without objective reasons for doing so include Togo for the EU and Cyprus for the US (Table 1). Some of these wrongful cases include measures that have not been lifted despite their obsolescence in

light of changing circumstances. Sanctions that were too intense in comparison to the treatment of similar offenders include Myanmar (EU), Haiti (UN), and Iran (US). Excessive punishments might backfire, as they can increase solidarity with the targeted leaders or because they give this executive an opportunity to divert attention from the domestic problems towards the alleged repulsive behavior of the senders.

Examples of under-sanctioning include states whose illiberal policies did not provoke sanctions. A telling case of EU impunity was, for instance, Russia, which offended liberal values well before the annexation of Crimea. India escaped US sanctions despite its nuclear armament policy and its announcement in 1997 that it did not intend to ratify the Non-Proliferation Treaty. Some culprits were punished, but, given their behavior, too lightly. This form of bias was for instance manifested in the EU's sanctions against Belarus. Strategically important Uzbekistan similarly benefited from the dilution of the sanctions that the US had imposed on it. Sudan was also repeatedly able to avoid harsher sanctions from the UN, where the unanimity requirement in the Security Council prevented the implementation of costlier measures.

We have examined econometrically the reasons for the double bias in the liberal sanction regime. The EU and the US are more likely to cave in to demands

<sup>2</sup> The calculations are based on zero-inflated ordered probit models with standard errors clustered on target states (Schneider and Weber 2019).

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Illustrative Under- and Over-Sanctioned Countries, 1989-2015

	Under-sanc	tioned targets	Over-sanctioned targets		
Sender	No sanctions	Sanctions too light	Sanctions	Sanctions too severe	
European Union	Russia (4 yrs)	Belarus (5 yrs)	Togo (12 yrs)	Myanmar (14 yrs)	
United Nations	n.a.	Sudan (5 yrs)	n.a.	Haiti (1 yrs)	
United States	India (5 yrs)	Uzbekistan (8 yrs)	Cyprus (6 yrs)	Iran (7 yrs)	

Source: Authors' own calculation.

for lighter sanctions if there are close economic ties to the target or if the country is economically powerful. A strong diaspora of the target in the two senders, by contrast, increases the chance of forceful economic measures. Although both the EU and the US thus give in to the pressure from powerful lobbies to scale the sanctions down or up, both senders react more strongly to what we call the 'objective reasons' for sanctions. Human rights violations, military coups, and the latency of a nuclear weapons program are among the offenses of the liberal world order that have increased the chance of economic sanctions in the post-Cold War era.

#### UNILATERAL SANCTIONS ARE LESS EFFECTIVE

Sanctions are deemed effective in the deterrence logic of Nobel laureate Schelling if the target makes the demanded policy concession. The first quantitative assessment of sanctions argued that the scope of the sanctions and thus the senders' level of ambition should also play a role in these evaluations (Hufbauer and Schott 1985; Hufbauer et al. 1990). This reasoning has led to the development of a 16-point scale that considers the product of two four-point scales for policy outcome and sanction contribution. A sanction is considered effective if its score is nine or above. In the period that we examined, the effectiveness of the 209 imposed sanctions was 33 percent. The track record of both the EU and the UN was, at 45.7 percent (81 sanctions) and 41.2 percent (34), much better than that of the US, which imposed sanctions in 182 cases and had a success rate of 30.2 percent.

The main reason for this divergence is that the US is more successful with its threats than both the EU and the UN. The Threats and Imposition of Economic Sanctions (TIES) database (Morgan et al. 2014) and the similar EUSANCT Dataset (Weber and Schneider 2019b) also assess threats and their effectiveness. Table 2 shows how successful the three senders were with their measures. We distinguish here between unilateral and multilateral measures for the US and the EU. As UN sanctions are by definition multilateral, we differentiate for those cases of economic coercion where the EU or the US issued separate sanctions with an extended scope.

The EU was successful only with four of its 16 unilateral sanction threats, and only nine percent of its 67 multilateral warnings to the target reached their goals. An example of a successful threat was against its own member state Croatia, which had planned to protect its citizens against prosecution abroad, but caved in to the demand to drop the planned reform. The UN had a success rate of 22.2 percent with its 45 threats; and 42.9 percent of its 21 sanctions together with the EU or the US were successful. A successful threat by the UN occurred against Bulgaria: the post-Communist state was among the busters of an arms embargo. The US was successful with 40.7 percent of its unilateral threats, whereas the ratio of successful threats by the US within multilateral teams was about seven percentage points lower.

Both the EU and the US were less successful with their unilateral sanctions than with their multilateral ones. Examples of successful multilateral efforts where the EU had the lead include the sanctions against Guatemala (1993, HSE score 16), Iran (2006, HSE score 12), and Malawi (1992, HSE score 16). Successful unilateral sanctions of the US were for instance imposed against Bolivia (1991, HSE score 16), Kuwait (1991, HSE score 9), and Laos (1994, HSE score 12). The sanctions in 2002 against tiny Mauritius resulted in the acceptance of a bilateral treaty through which transfers of US persons to the International Criminal Court were prohibited.

#### CONCLUSION

While the leading role of the United States in the use of sanctions is not surprising, skeptics of the European integration project might be surprised to learn that the supranational organization has established itself as the second most important sender of sanctions. Institutional reforms have enabled the EU to use economic sanctions as a foreign-policy tool and thereby compensate for its lack of military power.

The success rate of economic sanctions that we report is similar to the effectiveness of related foreign-policy instruments. Mediation efforts in countries suffering political instability were for instance

Table 2

Success Rates of Sanction Threats and Impositions (Number of Cases in Parentheses)

	All senders	EU	EU unilat-	UN	UN without	US	US unilat-
			erai		EU/US		eral
Threats	29.9% (264)	9.0%	25.0%	22.2%	42.9%	33.0% (200)	40.7% (155)
		(67)	(16)	(45)	(21)		
Sanctions	50.7% (209)	63.0%	50.0%	64.7%	75.0%	48.4% (182)	41.3% (109)
		(81)	(10)	(34)	(4)		
All cases	57.5% (325)	61.8% (102)	47.4%	64.9%	61.9%	56.9% (276)	55.4% (195)
			(19)	(57)	(21)		

Source: Authors' own calculation.

successful in 53.8 percent of all cases examined,<sup>3</sup> and another examination shows that roughly 50 percent of the US military interventions from 1990 to 2016 fully reached their objectives (Kavanagh et al. 2019).

We acknowledge that the liberal sanction regime that we describe in this article has never been a perfect one. The occasional misuse of economic power to coerce allies and other nations into a submissive foreign policy and the surprisingly frequent targeting of relatively innocent actors certainly contribute to the impression in the developing world and elsewhere that economic sanctions often do not aim at the betterment of international affairs. As we have shown, the sanction regime is considerably biased; if a target country is politically or economically important, only minuscule concessions are demanded, if any at all.

Nevertheless, we have also shown that the liberal sanction regime was working quite well overall from 1989 to 2015. The higher effectiveness of multilateral measures bodes ill for the unilateral course that the 45th US President pursues. If the EU and the US, after the election of a new President, want to restore their fairly effective sanction regime, they should employ economic coercion neither routinely nor indiscriminately. They should rather reconsider the main insight of Schelling's conjecture that a sanction policy needs to be credible and that sanction threats and impositions should therefore be designed carefully.

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### Anders Åslund Western Economic Sanctions on Russia over Ukraine, 2014–2019



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In comparison with other countries, the United States is particularly keen on economic sanctions, and it is becoming ever more so. In the US foreign policy debate, the point is often made that sanctions are not a foreign policy, only one of many tools. In practice, however, sanctions have become a major feature of US foreign policy. For many years, the United States has been reluctant to expand foreign aid, which has been highly unpopular with the electorate. Diplomacy does not have a high standing in the United States. Under George W. Bush, military force dominated foreign policy, resulting in the long and costly wars in Afghanistan and Iraq. After these traditional forms of foreign policy have been found wanting, economic sanctions have gained prominence under Presidents Barack Obama and Donald Trump.

For policymakers, economic sanctions have many attractions. No Americans have to be sent abroad and no troops are being killed. Nor do they involve any budget allocations. For a big country with limited foreign trade such as the United States, the cost of sanctions appears small. Thus, sanctions have become the US foreign policy tool of choice. The United States has imposed sanctions on dozens of countries, most severely so against Cuba, North Korea, Iran, Syria, and Venezuela.

As sanctions have proliferated, they have become more specific with regard to aim and means. The purpose of this paper is to investigate the Western sanctions on Russia related to Ukraine. First, why were they imposed and what was their aim? Second, what effects have they had? Which sanctions have been most effective? What problems have arisen? Third, what has Russia's effect been? Finally, what lessons can be drawn for the future?

#### SANCTIONS ON RUSSIA OVER UKRAINE

On 18 March 2014 Russia annexed Crimea, swiftly integrating it into Russia. This came as a complete surprise to the West. Military support for Ukraine was never considered an option, but the West felt it had to do something, so it imposed sanctions. Russia offered a special challenge. With an economy roughly three times as large as Iran's, Russia was the biggest economy the West had sanctioned. In March 2014, the European Union and the United States announced Crimea-related sanctions with visa bans and assets freezes on individuals and companies accused of undermining democracy, misappropriating Ukrainian property, and violating human rights. Gradually both the US and the EU have expanded their sanctions to people responsible for Russian policy on Crimea and enterprises operating there. Ukraine has cut off almost everything – electricity, water, trade, and transportation – isolating Crimea from the outside world.<sup>1</sup>

A novelty was that the United States sanctioned four of Putin's cronies, namely Yuri Kovalchuk, Arkady and Boris Rotenberg, and Gennady Timchenko, as well as their Bank Rossiya. The EU sanctioned Kovalchuk and Arkady Rotenberg as well, and a fifth crony Nikolai Shamalov, but it has not sanctioned Boris Rotenberg or Gennady Timchenko because they are Finnish citizens. These sanctions were based on the insight that Russia was a kleptocracy. Similarly, sanctions were imposed on enterprises owned by the state or cronies, and only exceptionally on private enterprises.

The aim of the Crimea-related sanctions was primarily to isolate and stalemate Crimea economically, but also to punish the culprits, to stop Russia's aggression, and to deter Russia from further aggression. Crimea remains utterly isolated, although the common view is that nothing will happen until the Putin regime ends in Moscow. The standard parallel is with the Baltic countries after the Soviet occupation of them in 1940, which the United States never recognized, and in 1991 they restored their independence. Major trade sanctions on commodities such as oil and gas were out of the question, because their effects would be too great on the Western economies.

The Crimea-related sanctions did not deter the Kremlin from proceeding with further aggression in Ukraine. In April 2014, anonymous Russian special forces tried to repeat their success in eastern and southern Ukraine, but unrest took root only in parts of Ukraine's two easternmost regions of Donetsk and Luhansk. As the Ukrainian military advanced against the Russian-backed forces, Russia sent in regular troops in August.

In response the United States imposed more substantial sectoral sanctions on Russia on 16 July, and the EU did so on 31 July. Most other Western allies – Japan, Canada, Australia, New Zealand, Switzerland and Australia – joined the US-EU sanctions but no developing country did. The July 2014 sanctions went much further than the Crimea sanctions. They covered three sectors: finance, oil, and defense technology, focusing on large state companies. Also, individuals responsible for Russian policy in the occupied territories and enterprises involved

<sup>&</sup>lt;sup>1</sup> Aleksashenko (2016) offers an excellent and detailed analysis and CRS (2019) provides all the relevant details.

were sanctioned. The financial sanctions prohibited lending to the sanctioned state banks and companies for 30 days or more, and the European Bank for Reconstruction and Development was blocked from offering new financing in Russia. The energy sanctions were limited to three kinds of oil development: deep offshore drilling, arctic offshore, and tight oil. They did not harm production in the short term, but in the long term. The EU insisted that gas must not be subject to any sanctions because of its great dependence on Russian gas (CRS 2019).

The United States coordinated the sanctions over Crimea and Eastern Ukraine with the EU and other allies, reinforcing their impact. After the floodgates had been opened, the US has imposed one sanction after the other on Russia. In December 2012, the US adopted the Sergey Magnitsky Act for human rights sanctions. It proceeded with sanctions related to Syria and North Korea, and in December 2016 sanctions because of cyber and election interference were imposed. In response to Russia's use of nerve gas in the United Kingdom, the US imposed new sanctions based on the 1991 Chemical and Biological Weapons Control Act (Fried 2018).

President Barack Obama imposed the Ukrainerelated US sanctions through presidential executive orders, which meant that they could be modified at any time. During the election campaign in 2016, Donald Trump repeatedly criticized the US sanctions on Russia, arousing fear that he would actually abolish them. Therefore, the US Congress codified these sanctions into law in the Combating America's Adversaries through Sanctions Act (CAATSA), which President Trump signed into law on 2 August, so that the president no longer could alter the Russia sanctions without the consent of Congress.

In April 2018, the US Treasury issued its first Ukraine-related sanctions based on CAATSA. They were so severe that they caused a shock. The Treasury sanctioned 24 people and 14 enterprises. Most of the people sanctioned were quite close to Putin, including his former son-in-law Kirill Shamalov. Several big oligarchs were sanctioned, notably Oleg Deripaska. These were designations, meaning that no US person was allowed to do any business with these people or enterprises. Finally, these sanctions hit some very big enterprises, notably Deripaska's company Rusal, which was a listed company and accounted for 6 percent of global aluminum production.

The sanctions on Russia have not been severe in comparison with those on Cuba, Iran, North Korea, and Venezuela, but they are becoming increasingly more severe. In the summer of 2019, even Russian sovereign debt was sanctioned, though Russia can still use the international bank clearing system SWIFT (Åslund 2019).

None of the Western sanctions is directed against trade. Russia's dominant exports are oil

and gas, accounting for two-thirds of all Russian exports. If Russian oil had been sanctioned, oil prices would have skyrocketed to the benefit of the Kremlin. Moreover, the Europeans opposed any sanction on Gazprom. Similarly, Russia's substantial metal exports were too important to be sanctioned.

#### EFFECTS ON RUSSIAN POLICY AND ECONOMY

The effects of sanctions are multiple. Did they change Kremlin behavior? What was the economic effect of the sanctions? The Western sanctions were imposed in parallel with the oil price collapse in 2014, which makes it difficult to separate the two impacts.

The Crimea sanctions aimed to isolate Crimea for the foreseeable future, which seems to have been attained. Even big Russian state companies such as Sberbank and VTB refuse to do business in Crimea because of the particularly severe Western sanctions on Crimea. Instead, already sanctioned Russian banks and state banks designed for occupied territories have moved in, showing that these sanctions are a severe deterrent (Åslund 2018).

The sanctions related to eastern Ukraine had several goals. First and foremost, they were supposed to incite the Kremlin to stop the Russian military offensive, aiming at taking 'Novorossiya', the southern and eastern Ukraine, about which Putin spoke so eloquently on 17 April 2014 (Putin 2014). Putin did drop Novorossiya from his speeches, while it was always less probable that the Kremlin would evacuate eastern Ukraine.

Economically, the most important sanctions have been the financial sanctions connected to Russian aggression in eastern Ukraine. Western banks were afraid of being trapped. Even the four big Chinese state banks obeyed the US financial sanctions, because they have activities in the United States and all dollars pass through New York, thus being subject to US jurisdiction, allowing the US authorities to impose sizable fines.

The most obvious effect of the financial sanctions is the development of the size of Russian total foreign debt. It declined from USD 732 billion in June 2014 to USD 482 billion in June 2019 - that is a reduction of USD 250 billion or 16 percent of GDP (Central Bank of Russia 2019). Russian corporations had no choice but to pay off their debt service as it fell due, and they had hardly any possibilities of refinancing. Without sanctions, Russian foreign debt would probably have increased by a similar amount, as was the case in most of the world (Pestova and Mamonov 2019). Thus, the sanctions might have forced Russian entities to forgo investments of up to 32 percent of GDP in the course of five years, or 6.4 percent of GDP a year in investment, which is a lot. The sanctions have also aggravated Russia's already low credit rating, rendering foreign capital not only scarcer but also more expensive.

In 2015, the IMF assessed the impact: "modelbased estimates suggest that sanctions and countersanctions could initially reduce real GDP by 1 to 1.5 percent. Prolonged sanctions could lead to a cumulative output loss over the medium term of up to 9 percent of GDP, as lower capital accumulation and technological transfers weakens already declining productivity growth" (IMF 2015, 5). In 2019, the IMF returned to this issue, but with a rather different question and methodology. It noted that Russia's economic growth decelerated sharply after the global financial crisis, and then even more starting in 2014. The IMF took the low growth rate expected in 2013 and asked why it was even lower. Its analytical work based on economic models found that sanctions accounted for lower growth to the tune of 0.2 percent of GDP, oil prices were responsible for 0.6 percent of GDP, and fiscal, financial, and monetary factors for another 0.4 percent of GDP (IMF 2019). A discussion paper from the Bank of Finland Institute for Economies in Transition comes to a similar result but does not quantify it (Pestova and Mamonov 2019).

These studies pose different questions. Originally the IMF had expected higher growth in the future, while in its analysis in 2019, it asked why the prior low growth rate had become even lower. The impact of the lower oil price is not in doubt, but most of the adjustments of fiscal and monetary policy should be seen as the impact of sanctions, forcing the Kremlin to save hard currency at the expense of investments. Therefore, the IMF assessment of 2015 appears more relevant.

By contrast, the cost to the West of the Western sanctions and the Russian countersanctions has been minimal. Russian imports fell sharply in 2014 and 2015, but because of the falling oil price, and the EU has maintained its large market share in Russia of about 45 percent. Plausibly, Gros and Di Salvo (2017) have concluded that the position of European exporters in the Russian market has not been infringed because of the EU sanctions. The impact of the Russian countersanctions on agro-food imports from the EU has been minimal. Russian imports of these goods have fallen by about EUR 400 million, which is less than 0.3 percent of EU GDP, while overall EU exports of these goods have increased because of increased sales to other markets.

The sanctions on Russian oil development focus on long-term developments of Arctic and deep offshore drilling and tight oil and have no immediate or even medium-term impact. The sanctions on defense technology are difficult to evaluate, but neither have a direct economic impact.

The systemic impact is all the more obvious. Sanctions are the opposite of economic integration, making Russia and the West grow apart. Each sanction provokes maintenance sanctions and countermeasures. Both sides protect themselves through increasing isolation. Businessmen have to calculate with sanction risks, credit risks, and eventually with reputational risks. Although Putin's cronies and state corporations have been singled out for Western sanctions, the sanctions seem to have reinforced the role of both the state and the cronies in the economy, while many *bona fide* private businessmen flee abroad.

In 2013, before the Western sanctions were initiated, Putin started isolating Russia with 'deoffshorization' and import substitution. Big Russian businessmen face the choice of staying in Russia and reducing their links to the West or selling their assets in Russia and moving to the West. By and large, the elite from the 1990s makes the latter choice, which is reflected in even larger capital flight than before 2014 and minimal foreign direct investment in Russia.

#### **OFFICIAL RUSSIAN REACTIONS**

Through his many public statements, Putin has made clear what he thinks of sanctions. He reacted the most against the Magnitsky Act and the Western March 2014 sanctions against his close friends, which blocked them from visas, cut them out from the Western financial system, and potentially froze their assets in the West. By contrast, he played down the impact of the sectoral sanctions, and he imposed the countersanctions on food for the Russian people himself.

What really upset Putin was transparency, the release of the Panama Papers on 3 April 2016, which revealed his apparent offshore holdings of at least USD 2 billion through his cellist friend Sergei Roldugin. The eminent Russian journalists Andrei Soldatov and Irina Borogan have recorded the Kremlin response. On 7 April, Putin attacked the journalists who had released the Panama Papers: "what did they do? They manufactured an information product. They found some of my friends and acquaintances. [...] There are many, many people in the background - it is impossible to understand who they are, and there is a close-up photo of your humble servant in the foreground. [...] Besides, we now know from Wikileaks that officials and state agencies in the US are behind all this!" (Borogan and Soldatov 2017, 314-319).

When it came to his close friends (Kovalchuk, the Rotenbergs, Timchenko), Putin took it extremely personally. He defended them repeatedly and passionately in public. On 17 April 2014, in his annual phone-in program with the people, Putin took this obviously planted question: "these sanctions hit several major businessmen such as Yury Kovalchuk, Gennady Timchenko, and the Rotenberg brothers. They are rumored to be your personal friends and part of your inner circle and that their fortunes were made thanks to that friendship. [...] Don't you get the feeling that the main target of the EU sanctions is you, personally?" (Putin 2014). Putin stood up for his friends: "it looks as if they are trying to make me the object of these sanctions. As for the people you mentioned, they are indeed my good acquaintances, my friends. But for the most part they had made their fortunes before we even met. [...] Mr. Timchenko's wife had serious surgery and was unable to pay for it because her bank account and credit cards were frozen. This is a flagrant violation of human rights" (Putin 2014).

As a consequence of the European sanctions against Rotenberg, Italy froze luxury properties belonging to Arkady Rotenberg in September 2014. These assets included the Berg Luxury hotel in Rome and properties in Sardinia, which together were valued at USD 36 million (Rudnitsky and Sirletti 2014). The Russian Duma responded by authorizing the Kremlin to seize foreign assets in Russia and use them as compensation for individuals and businesses being hurt by Western sanctions over the Ukraine crisis. This bill was called the 'Rotenberg Law' (Kramer 2014). In 2017, Putin signed an alternative Rotenberg Law. The Russian state itself would offer compensation out of the state coffers to Russian individuals who had suffered from Western sanctions. Because of the sanctions Arkady Rotenberg transferred much of his ownership to his son Igor (Chellanova et al. 2014).

Since the Russian economy is so much smaller than the Western economy, Russia cannot respond effectively without hurting itself more. It sanctioned some Western officials, which was of little consequence. Russia has imposed one group of serious sanctions, but on its own people. In August 2014, the Kremlin introduced 'countersanctions' against food imports from the countries that had imposed sanctions on Russia.<sup>2</sup> Many other kinds of sanctions were discussed, such as prohibition of flights over Russian territory, but they were never adopted (Kramer 2014). The Kremlin realized that Russia was the underdog.

For years, Putin denied that the Western sanctions cost Russia anything, but on 20 June 2019, in his big annual phone-in program with the Russian people, Putin changed tone and admitted that the Western sanctions were costly to Russia. But he did so in a very strange statement: "Russia fell short by about USD 50 billion as a result of these restrictions during these years, starting in 2014. The European Union lost USD 240 billion, the US USD 17 billion [...] and Japan USD 27 billion" (Putin 2019). His vague statement does not clarify what he refers to or for what period, and the numbers make no sense. The only important point is that he agreed that the sanctions are costly to Russia.

#### CONCLUSION

Many lessons can be drawn from the Western sanctions on Russia. The most obvious conclusion is that these sanctions were feasible and have had great tenacity, while many argued that the European Union would break them. However, sanctions tend to be inert. As Russia has not withdrawn from eastern Ukraine, there was no logical ground to end the sanctions (Fried 2019). Although the EU had to renew the sanctions initially every half year and later every year, this has been done ever more easily. Western trade with Russia has declined, mainly because of lower oil prices and thus less Russian exports since 2014, and Russia is so insignificant for Western exporters that the pro-Russian enterprise lobby is not very significant. Russia was not too large to be sanctioned. Nor has Western trade with Russia declined disproportionately.

The general lessons about sanctions are that the more limited and targeted the aim, the more likely the success (Hufbauer et al. 2009). The Crimean sanctions were designed to hold in the long run and to keep Crimea isolated, which remains true. The sanctions related to Russia's aggression in eastern Ukraine stopped the Russian offensive in July 2014, but they have not persuaded the Kremlin to withdraw from that territory.

Another general lesson is that the broader the alliance behind the sanctions, the more likely they are to succeed (Hufbauer et al. 2009). The US administration under President Barack Obama was crucially aware of this. Its strong office of sanctions in the State Department pursued high-level coordination of the Russia sanctions with the EU and other allies. Without providing any public explanation, President Donald Trump abolished the State Department office of sanctions. As a consequence, coordination of sanctions both within the US government and with allies was weakened, as sanctions policy was effectively transferred to the Treasury Department (Mortlock and O'Toole 2018). The US Congress distrusts President Trump and has seized more initiative, in particular by adopting the CAATSA in July 2017. The Trump administration has reduced the coordination with allies and the number of unilateral US sanctions on Russia has increased. So far this has not broken the sanctions regime, but Trump remains the greatest threat.

After the US sanctioned Rusal in April 2018, the US Treasury appears to have realized that the company was too big to sanction because it caused havoc on the global aluminum and alumina markets. After prolonged negotiations and numerous extensions, the US Treasury finally declared victory and delisted Rusal. The real explanation was that the undesired effects were too great (US Treasury 2019).

For the rest, the design of the sanctions appears to have worked well. As President Putin himself has

<sup>&</sup>lt;sup>2</sup> "Putin Extends Russia's Countersanctions on Western Food", *Radio Free Europe/Radio Liberty*, 30 June 2017.

emphasized, he is most concerned about his friends and top officials being personally sanctioned. The financial sanctions have obvious and significant effects on Russia's economic growth. The Kremlin has successfully increased its international currency reserves, but it has done so with considerable cost to the standard of living that has fallen for each of the last five years. The capital outflows from Russia have not slowed down but rather accelerated with the sanctions.

A serious shortcoming of the Russia sanctions, however, is that few assets of sanctioned businessmen have actually been frozen. To some extent, this is negligence of national authorities, but the dominant reason is the prevalence of completely anonymous companies. In the UK, the government does not know the owner of 100,000 buildings, and in the United States there are at least two million anonymous companies. In 2018, the EU adopted its Fifth Anti-Money Laundering Directive, which demands that all member countries establish registries with the ultimate beneficiary owners of all companies. In the US, legislation on similar registries to be established with the Financial Crimes Enforcement Network of the US Treasury is currently being considered.

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### *likka Korhonen* Economic Sanctions on Russia and Their Effects

In 2014 both the European Union member states and the United States introduced a wide variety of economic sanctions against Russia as a consequence of the illegal annexation of Crimea and for undermining territorial integrity of Ukraine. They were joined in these actions by e.g., Canada, Norway, and Australia. The first round of sanctions in March 2014 was relatively mild, but the sanctions enacted in July and August 2014 (i.e., after the downing of Malaysian Airlines flight MH-17 with a Russian missile) were more stringent, including restrictions on debt financing for several large Russian companies (Christie 2016). Russia countered fairly soon with its own countersanctions, which ended exports of several types to foodstuffs from the sanctioning countries to Russia.

This note reviews the recent literature on the economic effects of sanctions on Russia. The emerging consensus seems to be that sanctions have had a detrimental effect on Russia's economic performance during the past years. However, their relative significance pales in comparison with the effects of oil prices on the Russian economy. Sanctions seem to have worked mostly through reducing Russian companies' access to foreign finance (Korhonen 2019). Also, apparently the relatively recent unilateral sanctions – i.e., sanctions not coordinated with the European Union – by the United States have increased uncertainty related to many Russian companies. This can have adverse economic effects going forward.

Russia's own countersanctions have also had their economic effects. Food variety in Russia has been reduced and food prices are higher (Volchkova et al. 2018). At the same time, production of some varieties has increased. Russia has also explicitly linked the countersanctions to its general import substitution policy, and even their timing is now different from the EU sanctions, which are renewed every six months. Therefore, it is prudent to assume that even if the EU were to end its sanctions today, Russia's food import ban would stay in place for a long time (Korhonen et al. 2018).

#### RATIONALE FOR ECONOMIC SANCTIONS AGAINST RUSSIA

Recent economic sanctions against Russia and some other countries (Syria, Iran, Venezuela, North Korea) have sparked a renewed interest in sanctions as a tool of foreign policy. Gould-Davies (2018) provides an overview of the issues related to goals and costs of imposing sanctions on a country. In the present context it suffices to reiterate his conclusion on the goals of sanctions against Russia: "[the sanctions'] aim was not to compel Russia to reverse its policy by ending its intervention in Ukraine and returning Crimea. Rather, they were intended to achieve three goals. First, to deter Russia from escalating its military aggression. Second, to condemn violation of international law and European norms by making clear there could be no normal relationship with the violator. Third, to encourage Russia to agree a political settlement by increasing the costs of its behavior" (Gould-Davies 2018).

Also, the relatively narrow scope of sanctions against Russia allows us to conclude that the aim was never to ruin the Russian economy or engineer a significant decrease in the living standards of ordinary Russians. Therefore, their design is quite different from e.g., sanctions imposed on Iran and North Korea.

It should also be noted that this is perhaps the first time that economic sanctions have been used against such a large and well-integrated part of the global economy. At market exchange rates, Russia's GDP in 2018 was the world's 12th largest. It is the world's largest exporter of natural gas and the world's largest or second largest exporter of crude oil (depending on Saudi Arabia's output level). This means that any constraining actions against Russia would also have repercussions outside the country. Russian companies and banks have traditionally been active in global financial markets, etc.

# ECONOMIC SANCTIONS AGAINST RUSSIA AND ITS COUNTERSANCTIONS

The initial round of sanctions was relatively mild. It included restrictions on travel, asset freezes, and the proscribing of business dealings with certain individuals and enterprises, including entities based in Crimea and Sevastopol (Korhonen et al. 2018). After the downing of flight MH-17, sanctions were tightened considerably in many areas. The export and import of arms was forbidden, as was the export of dual-use goods for military use. Exports of certain types of goods related to oil exploration and production were also banned.

Most significant perhaps was the curtailing of long-term financing of Russian companies that had no direct involvement with the fighting in Donetsk and Luhansk regions. Investors in the EU and the US were forbidden to provide long-term financing to Sberbank, VTB, Gazprombank, Rosselkhozbank (Russian agricultural bank), and VEB (Russia's stateowned development bank). Initially, the financing ban applied only to loans with maturities longer than 90 days or equity financing; later, the threshold



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was lowered to 30 days. The long-term financing ban was also extended to oil giant Rosneft, oil pipeline company Transneft, oil exploration and refiner Gazpromneft, as well as several companies operating in the military sector.

Russia reacted to the sanctions imposed by the US and EU in July 2014 by restricting imports of selected food products, including fish, fresh milk and dairy products, and fruits and vegetables (Simola 2014). As mentioned above, these countersanctions also fit very well into the overall strategy of import substitution, which had been adopted well before the annexation of Crimea, the war in eastern Ukraine, and the resulting sanctions.

#### **ECONOMIC EFFECTS OF SANCTIONS**

In recent years, Russia's economic performance has not been stellar (Figure 1). Growth decelerated already in 2012 and 2013, even though the price of oil remained high at over USD 100 per barrel. In 2014, Russia's GDP increased by 0.7 percent, and in 2015 it declined by 2.3 percent. After its recovery, Russia's GDP growth has continued to trail global economic growth, meaning that Russia's share in the global economy continues to decline. But how much of this disappointing economic performance can be attributed to sanctions? To answer this question, we need to take note of Russia's weak economic performance before the sanctions as well. The answer to this question is further complicated by the developments in the market for crude oil. The price of Urals crude oil declined almost 50 percent between June 2014 and early 2015. As hydrocarbons constitute approximately two-thirds of Russia's merchandise exports and half of tax intake at the federal level, this price drop was a massive shock to the Russian economy. Oil prices declined further during 2015 before bottoming out in early 2016.

Although there were some relatively immediate assessments of the effects of the sanctions on Russia (Citibank 2015; IMF 2015; Gurvich and Prilepskiy 2015; and World Bank 2015), in this note I shall con-

#### Figure 1





centrate on more recent studies. These are able to utilize more data from the post-sanctions regime. Furthermore, Russia's national accounts have been revised, which in some cases has changed annual growth figures quite a bit. For example, Rosstat's estimate of the GDP drop in 2015, which now stands at – 2.3 percent, also shifted between the first estimate and the final release by more than 1.5 percentage points, i.e., the Russian economy was much more resilient than originally thought. Such revisions naturally make interpretation of the earlier studies and direct comparison to more recent ones difficult.

Table 1 summarizes some very recent papers concerning the macroeconomic effects of sanctions on Russia. First, the IMF (2019) looks at Russia's growth slowdown between 2014 and 2018 with the help of international macroeconomic models, and concludes that sanctions reduced Russia's growth rate by 0.2 percentage points every year during that period. However, other factors, including Russia's own macroeconomic policies, were more important. Low oil prices shaved off approximately 0.7 percentage points from GDP growth per annum. As was explained above, the oil price effect clearly seems to have a much larger effect on Russia's economic fortunes.

Second, also Pestova and Mamonov (2019) find that oil prices have been more important in driving Russia's GDP growth than sanctions. Using a Bayesian vector-autoregressive model, they determine that the cumulative effect of sanctions in 2014 and 2015 decreased the Russian GDP by 1.2 percent. They argue that sanctions have worked via reduced investment by Russian companies. Third, Barsegyan (2019) finds using synthetic control method that, on average, Russia's per capita GDP is 1.5 percent lower between 2014 and 2017 than it would have been without sanctions. Sanctions work by e.g., reducing foreign direct investment.

However, it should be noted that not all papers agree on the effects of sanctions on the Russian economy. Kholodilin and Netšunajev (2019) employ a

> structural vector-autoregressive model and examine the effects of sanctions on Russia and the euro area. They are much more skeptical about the effects of sanctions on Russian GDP, asserting that any negative effect from sanctions likely occurred between mid-2014 and early 2016. Also, it is difficult to ascertain the statistical significance of the effect. However, sanctions have had a clear negative influence on the real effective exchange rate of the ruble.

Table 1		
Summary of Recent Studies	on the Impac	t of Sanctions on Russian GDP

Paper	Period	Effect	
IMF (2019)	2014-2018	– 0.2 p.p. per annum	
Pestova and Mamonov (2019)	2014–2015	– 1.2% by the end of 2015	
Kholodilin and Netšunajev (2019)	2014–2016	No statistically significant effect	
Barsegyan (2019)	2014–2017	Level of per capita GDP on average 1.5% lower	

Source: Korhonen (2019).

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Sanctions have worked through both foreign trade and financing, even though these two avenues also interact. Trade effects can be detected for both Russia and the sanctioning countries. Crozet and Hinz (2019) look at the effect of sanctions on foreign trade between Russia and other countries. They determine that Russia lost some USD 54 billion in exports from the beginning of sanctions to the end of 2015. Western countries imposing sanctions lost approximately USD 42 billion in exports to Russia, with more than 90 percent of this loss borne by the EU countries. Interestingly, most of this reduction in trade happened in goods that neither side had banned. Trade declined perhaps because of reduced availability of finance or greater risk aversion.

Belin and Hanousek (2019) find somewhat smaller trade effects from sanctions than Crozet and Hinz (2019) when they look at the differential effect of the EU and Russian sanctions. Exports from the sanctioning countries to Russia were USD 10.5 billion smaller from mid-2014 to the end of 2016 than in the absence of sanctions, with the effect coming mostly from Russia's countersanctions.

Cheptea and Gaigné (2018) assess that less than half of the drop in the EU exports to Russia in goods that Russia sanctioned was due to sanctions themselves. The bulk of the export decline came from a weaker ruble and the decrease in Russian purchasing power. This result would again stress the importance of the oil price for the general economic performance of Russia and for the purchasing power of Russians. many other categories as well, hinting at the importance of trade finance and its availability as well as the importance of the price of oil.

As Western sanctions have also targeted individual Russian companies, Ahn and Ludema (2019) ask whether Russian companies under sanctions performed differ-

ently from their peers. Using company-level data they conclude that has indeed been the case. Targeted companies have performed poorly relative to other companies with similar characteristics. For example, their operating revenue falls by one-quarter and their total assets by approximately one-half in comparison to the control group. Targeted firms have also had to cut staff and face a higher probability of going out of business. This result tells us that economic sanctions can be designed in a way that is detrimental to the targets while allowing other companies to operate in a more normal fashion.

One avenue for both company-level and macro effects of sanctions is the availability of finance. Based on many papers discussed in this note, one can surmise that sanctions have worked to reduce investment in Russia. Curtailed availability of foreign financing is most likely one reason for this lackluster investment development.

Figure 2 shows the evolution of Russia's foreign debt. It is clear that the foreign funding of Russian banks in particular has been affected by financial sanctions. The foreign debt of Russian banks peaked in March 2014 at USD 214 billion, thereafter declining to USD 74 billion in September 2019, a reduction of 65 percent. The dominant position of Sberbank and VTB, which are under sanctions, likely accounts for much of Russia's decoupling from global capital markets.

An issue that is not often discussed in the public is that, at least for banks, no other source of external financing has been found. While e.g., foreign direct

Fritz et al. (2017) apply a counterfactual analysis based on an econometric model to assess sanctions' effect on the EU countries' exports to Russia. They find that EU exports to Russia between 2014 and 2016 were USD 35 billion lower (11 percent lower compared to the baseline) than they would have been without the sanctions. In this analysis, the export drop was largest in agricultural goods targeted by Russia's countersanctions. However, exports declined in



Source: Bank of Russia.

Figure 2

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investment from China and India into Russia's energy sector has grown, the Russian banking sector has not found outside debt investors. For many international banks the prospect of being blacklisted by the US Treasury is simply too large a risk to take.

Using partially confidential BIS data, Korhonen and Koskinen (2019) present evidence that net capital flows from the sanctioning countries' banks to Russia declined by USD 700 million per quarter after sanctions more than capital flows from other countries declined. This confirms the discussion about the lack of outside investors.

#### **CONCLUDING REMARKS**

Even though the most recent news from eastern Ukraine is somewhat encouraging, it will most likely take several years for all the stipulations of the Minsk agreement to be met. This also means that the lifting of EU and US sanctions is still some ways off. Moreover, the way the United States has introduced many additional sanctions against Russian entities and individuals since 2018 – sometimes almost as if against the wishes of the US president – would lead many to believe that in the immediate future there will be more economic sanctions, not less. This is also true for Russia's countersanctions. As they are now part of Russia's more comprehensive import substitution program, it would be quite optimistic to expect them to be lifted anytime soon.

It therefore appears that Russia and its most important trading partner – the European Union – have in many ways become less integrated as a result of Russia's aggressive foreign policy and violations of international laws. While sanctions have in all likelihood helped to deter a further deterioration of the situation in eastern Ukraine, it is currently difficult to be optimistic about a speedy resolution to the crisis.

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### John J. Forrer and Kathleen Harrington The Trump Administration's Use of Trade Tariffs as Economic Sanctions

#### **OVERVIEW**

The Trump administration's enthusiasm for economic sanctions has been reflected in their equally passionate embrace of trade tariffs. Both foreign policy tools have been used to excess well beyond the practices of past administrations. Even most notable is the unprecedented re-purposing of trade tariffs as economic sanctions. Rather than using tariffs as intended by statute to adjust conditions for imports in response to unfair practices with trade partners, the Trump administration has threatened and imposed tariffs to pressure countries to change policies they oppose - the exact rationale behind the use of economic sanctions. The use of trade tariffs as economic sanctions raises important questions about the legitimacy and effectiveness of such a practice.

# TRUMP ADMINISTRATION'S AGGRESSIVE USE OF ECONOMIC SANCTIONS

The Trump administration's use of economic sanctions is best characterized as aggressive, particularly when compared to previous administrations. Economic sanctions have become a go-to foreign policy tool to support its 'America First' foreign policy strategy. According to the US Treasury Department data, in 2017, the United States placed sanctions on 1,500 people, companies, and entities (Harrell 2019). This is 50 percent more than has ever been added to

#### Figure 1 Additions to the SDN List <sup>a</sup> by Year



<sup>a</sup> US Treasury's Specially Designated Nations and Blocked Persons List. Source: Gibsondunn.com; US Department of the Treasury.

the US Treasury's Specially Designated Nations and Blocked Persons List (SDN) in any single year, based on an analysis by the law firm Gibson Dunn (2019). The majority of these sanctions were related to nuclear-related sanctions on Iran, enhanced sanctions against Russia, and sanctions on Venezuelan people and entities (Gibson Dunn 2019).

The analysis shown in Figure 1 provides a clear visual of the uptick in sanctions during the Trump administration. In the years 2017 through 2018, there is a dramatic increase in additions to the Specially Designated Nations and Blocked Person's list. Compare that sharp sloping increase from 2017-2018 to the ebb-and-flow rhythms that characterized the experience earlier in this century during the Bush administration (2002-2009) and the Obama administration from 2009 to early 2016. Neither the Obama nor Bush administrations made more than 800 additions to the SDN list during their entire tenure, but the Trump administration quickly exceeded the 800 actions cap characteristic of previous administrations.

Fundamentally, sanctions are a collection of tools designed to inflict economic losses on countries, institutions, and/or individuals sufficient to induce a sought-after change in policy and behavior. The US Office of Foreign Assets Control (OFAC) defines sanctions as both broad-based and oriented geographically, which would include the tariffs against countries such as Cuba and Iran, while other forms of sanctions are considered more 'targeted'. These targeted sanctions are applied in cases of counter-terrorism, counter-narcotics and focus on specific individuals and entities. These programs may encompass broad prohibitions at the country level as well as sanctions directed at specified targets (US Department of the Treasury 2018). Sanctions are one of many government tools available to further specified national security and foreign policy goals.

In addition to a disproportionate reliance on economic sanctions as the favored foreign policy tool, there has been enhanced use of second-

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ary sanctions by the Trump administration. Secondary sanctions are a tool designed to push foreign countries, companies, and individuals into halting business dealings with countries and entities on which primary economic sanctions have been imposed (Harrell 2019). This aggressive push is evident in countries such as Venezuela, where US National Security Advisor John Bolton threatened sweeping bans on companies and individuals attempting to



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conduct business in Venezuela; bans that applied across hundreds of companies and individuals (Goodman and Smith 2019). The broad scope of secondary sanctions, such as those applied to Venezuela, cause significant fringe damage to allied countries such as Spain and France, countries who still have oil and aviation companies operating in Venezuela. Or the threats of secondary sanctions against every country that conducted commerce with Iran following the US abrogation of their par-





ticipation in the Joint Comprehensive Plan of Action (JCPOA) – see also Calamur (2018).

The Trump administration's liberal use of primary and secondary sanctions is a tool to compel others to adhere to US national security and foreign policy goals. The Trump administration's corresponding aggressive use of trade tariffs has lured what has been a clear distinction between sanctions as applied through the US Treasury Department and tariffs pushed forward through the United States Trade Representative (USTR) and the US Department of Commerce. Employing these two separate foreign policy tools as one in the same raises question: should tariffs and sanctions be used in a similar way and with similar justifications, and if they are being used in similar ways, what effect might the dual-use purpose of these foreign tools have on effectiveness of US foreign policy?

#### **USE OF SANCTIONS AND TRADE TARIFFS**

Similar to its expansive use of economic sanctions, the Trump administration has also imposed trade tariffs on allies and adversaries at an alarming rate. USTR has announced not only more tariffs in terms of volume of products globally, but the executive

Figure 3

body has also applied tariffs at a higher percentage level (Office of the United States Trade Representative 2019). A more specific example of this ramping up of tariffs is exemplified through the tariffs imposed on China. The Peterson Institute for International Economics developed two graphics to showcase the ramp-up of the China tariffs.

Figure 2 highlights the increased percentage of the tariff rate threatened by the Trump administration

throughout the year. Increasing how much a product is taxed is one method of using tariffs aggressively, and China's exports into the United States were threatened by increasingly high percentages of tariff tax rates. Along a similar vein, Figure 3 highlights the percentage of US imports from China subject to special US trade protection. The United States has maintained a special protection tariff towards China since the 1980's, but this figure highlights how much more expansive this special tariff protection has become in the Trump administration (Bown and Zhang 2019b). In essence, the administration is threatening to apply the special tariff protection on more products being imported from China. Both the percentage rate of the tariff and the amount of imports affected by the tariffs have are markedly higher, revealing an aggressive use of tariffs. Threatened tariff rates and volumes are used by the Trump administration as leverage points to further an 'American first' economic policy, and in response to China's unfair trade practices related to the forced transfer of American technology and intellectual property (Office of the United States Trade Representative 2019).

In their use of tariffs against China and in numerous other instances, the Trump administration





flaunts trade tariffs as a foreign policy tool used for similar purposes as economic sanction. The use of tariffs as economic sanctions raises serious questions about the statutory authority and indented goals of this familiar foreign policy tool. Evidence of the Trump administration's sanctions-like use of tariffs is best demonstrated through the tariff taxes applied on Turkey. The 'Turkey tariffs' highlight the increasingly nebulous and nefarious roles tariffs play in the administration's foreign policy. The first of the tariffs affecting Turkey began on 8 March 2018, when President Trump issued a Presidential Proclamation to impose an overall 25-percent ad valorem tax on steel articles imported to the United States from abroad (The White House 2018a). This was applied broadly, across a number of countries.

However, a second presidential proclamation was issued a few months later, on 10 August 2018. This proclamation set to adjust imports of steel into the US, but this time, the proclamation was targeting specific countries. This second proclamation (the August 10 proclamation) had the stated and legally authorized goal of increasing domestic capacity utilization and ensuring the viability of the domestic steel industry (The White House 2018b). The Proclamation investigation conducted by the US Department of Commerce recommended that a tariff be applied on certain countries, and Turkey was specifically targeted. Turkey is one of the major exporters of steel for domestic use in the United States. Using executive authority granted through Section 232 of the Trade Expansion Act of 1962,<sup>1</sup> the tariff levels determined in this August 10 proclamation went into effect. The United States imposed a 50-percent ad valorem tariff rate on steel articles imported from Turkey, a dramatic doubling of the previous 25-percent tariff imposed in March.

The tariffs on Turkey illustrate their creep into the realm of sanctions. The tariffs have an underpinning justification of national security, a territory typically reserved for sanctions. Invoking the national security clause of the Trade Expansion Act to justify sanctions on Turkey is not credible and it is clear the tariffs were imposed to cause economic hardship on Turkey. Also, the messaging surrounding these tariffs also was more aligned with the furtherance of foreign policy goals typically befitting a sanction. External messaging through social media outlets such as Twitter explicitly stated that the tariff was punishment on Turkish political actions. An August 16, 2018 tweet from Donald Trump's handle @realDonaldTrump proclaimed the ad valorem tariffs imposed just six days before were a reaction to Turkey's detainment of Pastor Andrew Brunson, a major foreign policy concern happening at the same time. The tweet states "we will pay nothing for the release of an innocent man, but we are cutting back on Turkey!" 'Cutting back' signals the effects of the ad valorem tax: reducing Turkish steel imports by the United States. Such a justification was absent from the official Presidential Proclamations announcing the tariffs.

Around this same time, in early August the US Treasury Department's Office of Foreign Assets Control imposed sanctions targeting two Turkish officials, Minister of Justice Abdulhamit Gul and Minister of Interior Suleyman Soylu, for their role in the arrest and detention of Pastor Brunson. These sanctions had the explicit goal of forcefully expressing the US' position that Brunson's continued prosecution was wrongful (US Department of the Treasury 2018). The tariffs and sanctions imposed upon Turkey had significant overlap both in timing and intent, and again, highlight the heavy use of both policy tools by the Trump administration, but also the significant crossover of the role of tariffs.

### TRADE TARIFFS AS ECONOMIC SANCTIONS: A GOOD OR BAD IDEA?<sup>2</sup>

The basic justification for economic sanctions is that economic losses that are sufficiently painful will convince another country to change a policy objected to by the sending country. At the same time, countries' vulnerability to economic sanctions vary widely, and may have many viable options that help them evade the actual effects of an economic sanction. At the heart of a successful economic sanctions policy is knowing (i) how much economic suffering is required to compel the target country to yield and make the sought after change in policy; and (ii) an ability to implement sanctions in such a way that results in real economic losses commensurate with the planned level of losses (Forrer 2017).

The determination of the success of economic sanctions is problematic. Research on economic sanction episodes throughout history have struggled to make a definitive case on the role played by economic sanctions in determining the outcomes of the events (Hufbauer et al. 2007; Askari et al. 2003). Once imposed, as long as the offending policy remains intact, sanctions could be viewed as a failed effort. If sanctions are removed before the policy has been revoked, claims of failure or premature action could be offered. And if the policy targeted by sanctions is revoked, sanctions can be highlighted as the reason for the change, even if other factors caused the policy change. As in all situations, 'sanctions don't work until they do'.

The cost-effectiveness of economic sanctions is more easily assessed. Economic sanctions cause

<sup>&</sup>lt;sup>1</sup> See Public Law 87-794-Oct. 11, 1962, https://www.gpo.gov/fdsys/ pkg/STATUTE-76/pdf/STATUTE-76-Pg872.pdf.

<sup>&</sup>lt;sup>2</sup> The terms trade tariffs and economic sanctions tend to be used interchangeably as both a tool of foreign policy – a foreign policy strategy – and a legal action taken based on an authority granted to a government agency. Our discussion on trade tariffs as economic sanctions addresses the first sense of the terms largely unanticipated by the second sense.

intended and anticipated economic losses to government agencies, firms, and individuals in the sending and target countries. Innocent communities also suffer economic (and personal) losses due to economic sanctions. Since all these losses can be estimated, an assessment could be made as to whether the value of a change in the offending policy is worth the losses suffered by all parties. It also opens up for consideration the question of whether an alternative to economic sanctions would be more cost-effective in achieving the foreign policy goal.

In the context of economic sanctions, trade tariffs might be seen as simply 'economic sanctions-lite': rather than banning a specific economic activity, trade tariffs have the effect of raising prices on designate products and services, and thereby discouraging their purchase. But economic sanctions can be designed with great nuance relating to the level of economic loses and who bears those loses. In practice, trade tariffs do not enhance the capacities of a country to stylize sanctions to have the desired effects. In addition, trade tariffs suffer from the same set of design and enforcement challenges faced by economic sanctions that limit their effectiveness:

- Limited enforcement capacities
- Smuggling
- Fraud
- Evasion
- Re-exporting

Trade tariffs offer no more advantages over economic sanctions as the legal instruments used to inflict economic losses on countries in an effort to change their policies. But using trade tariffs as economic sanctions does pervert the established public policy justification for imposing any trade tariff, and thereby undermines public accountability of government actions taken to pursue foreign policy goals.

Placing a tariff on exports from another country raises the price on those goods and services to the consumers in the country imposing the tariffs. The tariff can be in the form of a fixed fee or percentage of the cost per item. The resultant price increase gives an economic advantage to domestic firms compared to foreign exporting firms. Such a market intervention through the use of trade tariffs that are justified by very specific conditions has specific rationales behind this approach.

The adoption of a trade tariff against specific goods and services requires that a finding be conducted that shows evidence of unfair trade practices. Such a finding not only justifies the adoption from a public policy perspective, but the analysis of the trade practices in question provides valuable information to determine the form of the remediate trade tariff. At their core, trade tariffs are justified by correcting an unfair trade relationship between countries. The scope and scale of the tariff – to accomplish that goal – must be tailored to the specific situation. Trade tariffs are by design intended to correct – or at a minimum remediate – trade relationships that impose an unfair condition on a country. Trade tariffs are justified due to their ability to claim that it is solving an existing problem and making it 'right'.

Alternatively, economic sanctions are justified by the argument that suffering experienced by the sanctioned country is sufficient to persuade it to alter the offending policy in question. It is recognized that economic pain on innocents will result in both the sanctioning and target countries, but the importance of achieving the foreign policy in question should account for this unavoidable collateral as part of the price paid when using an economic sanction. Economic sanctions are justified by pressuring other countries to adopt desired policies.

But to make matters worse, trade tariffs have become the easiest 'path of least resistance' for the Trump administration to adopt foreign policies. In the Trump administration, trade tariffs have become the 'poor person's' economic sanctions. Relying on a clause that allows trade tariffs to be invoked at the discretion of the President, trade tariffs allow a path of least resistance to placing economic sanctions-like activity on countries in dispute with the US, but not necessarily involving trade issues.

#### CONCLUSION

The use of trade tariffs to impose economic sanctions on other countries may be consistent with the Trump administration campaign of assailing US trade agreements as unfair, and providing a political justification for using trade tariffs as the best remedy, and impinging on the territory of economic sanctions. But the conventional policy justification for using trade tariffs as economic sanctions has been circumvented, undermining public accountability for the actions taken by the government and their effectiveness. Any administration that intends to continue using tariffs as a 'sanction-lite' tool should have their use clarified and codified in a revision of existing legislative authority. A legislation change would ideally bring more statutory clarity defining the two economic tools (sanctions and tariffs) and could set a foundation for a more accountable foreign policy approach by and across government agencies. Greater clarity on the boundaries of trade tariffs to advance purposeful US foreign policy would be an available step in that direction.

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### Christian von Soest Individual Sanctions: Toward a New Research Agenda



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#### INTRODUCTION

Individual sanctions are an important subcategory of economic sanctions, and an inextricable part of the global security and human rights regime that has informed international and national politics since the end of the Cold War. Shaping the international trend of individualizing accountability (Sikkink 2009), the United Nations, the United States, and the European Union, as the main global sanction senders, blacklist individuals to hold them accountable for the proliferation of weapons of mass destruction (WMDs), the instigation of armed conflict, the trafficking of narcotics, or the violation of human rights.

In all its current 14 sanctions regimes, the UN has blocked the travels and frozen the assets of purported perpetrators (Biersteker et al. 2016). The US for its part has implemented a list of 'Specially Designated Nationals and Blocked Persons' since 1994, which has grown tremendously over the years and presently contains over 1,200 pages of designated individuals and companies. Recently, an undersecretary of the US Treasury dubbed its Office of Foreign Assets Control (OFAC), which is responsible for blacklisting, "the beating heart of US sanctions authorities [...] to change behavior, disrupt illicit finance, and advance foreign policy priorities across the globe" (Mandelker 2019). Even the EU, which only started to impose sanctions autonomously in 2004, now runs a consolidated sanctions list that comprises almost 500 pages of listed persons and entities (as of November 2019).

However, we still lack fundamental knowledge about the selection criteria and indeed the effects of this important subcategory of economic sanctions. In response, this article sets out to provide the basis for a new research agenda that focuses on the specificities of individual sanctions.

#### THE MOVE TOWARD INDIVIDUAL ACCOUNTABILITY

The emerging international human rights regime of moving from state responsibility to the individual (criminal) accountability of rulers for crimes that they commit while in office has, in tandem with the 9/11 terrorist attacks, acted as a major boost for sanctions targeting specific individuals. They also appear more humane alternatives to comprehensive sanctions that fall on the entire population of a targeted country. Following Wallensteen and Grusell (2012, 208), "[t]he idea of targeting sanctions at individuals not only was an innovative way for making sanctions legitimate in the international system. [...] It was morally appealing to demonstrate that decision-makers were not personally exempt from the impact and reactions that their policies were causing".

The main idea is to impose personal costs that coerce listed decision-makers, terrorists, or regime supporters into changing their behavior, to constrain their room for maneuver, or simply to send signals of disapproval to them - as well as to an international and domestic audience (Giumelli 2013). However, the use of these individual sanctions varies considerably: while in the Central African Republic, for instance, grave human rights violations and atrocities resulted in only 13 individuals being put on blacklists, the US and the EU designated more than 200 high-level Zimbabwean decision-makers - including former president Robert Mugabe and almost all government ministers - to protest electoral manipulation in that country. Even though scholars and practitioners alike deem sanctions that target top decision-makers most effective in changing the policies in question, as well as in sending strong signals about international norms, only rarely are presidents blacklisted. Currently, just Venezuela's Nicolás Maduro and Syria's Bashar al-Assad have asset freezes and travel bans imposed on them, while other heads of government who have committed the same or even more egregious human rights violations are not targeted by the UN, the US, or the EU. What accounts for these vast differences? As of now, we are unable to systematically explain this variance in the selection of individual sanctions targets.

Important analyses that focus on the ethical and legal implications of individual sanctions listings do not contain comprehensive scrutiny of the number and characteristics of designated individuals. The same holds true for assessments - most often from a legal perspective - of judicial challenges to individual designations, most notably the 2008 Kadi case heard before the European Court of Justice (Kokott and Sobotta 2012), and regarding the rights of listed persons (for example, Heupel 2013). Thus, despite their ubiquitous use and the emergence of an intense debate about the legal and normative implications of imposing individual sanctions, we still know little about how and why the UN and Western powers target specific individuals. Nor are we sufficiently aware of what effects - intended and unintended individual sanctions (in conjunction with more comprehensive economic sanctions) have.

Academics and practitioners seeking to gain new insights about the targeting and the effects of sanctions therefore need to focus on individual sanctions as an important subcategory of the overall phenomenon. Currently, even the existing empirical

#### Figure 1 Comprehensive, Targeted, and Individual Sanctions



Source: Author's own compilation.

work on targeted sanctions (Biersteker et al. 2016) bundles together different measures - namely, those against specific economic sectors and those against individuals - instead of looking at the specific characteristics, logic, and processes underlying the sanctioning of individuals (Figure 1).

Systematically analyzing the number of blacklisted individuals and their proximity to political decision-making in the target country would allow for the detailed examination of UN, US, and EU listings. Only if we better understand these selection processes can we say more about whether and how individual sanctions actually work (Hufbauer et al. 2007; Pape 1997).

#### ANALYZING THE TARGETING OF INDIVIDUAL SANCTIONS

When a decision to impose travel bans and asset freezes is made, decision-makers in the UN, the US, and the EU choose how many and which persons they target. The blacklisting decisions comprise two dimensions that need to be assessed: (1) the number of blacklisted individuals, and (2) their closeness to political decision-making in the target country (the 'position').

#### **A New Analytic Framework**

From the research on comprehensive and targeted sanctions, we can infer that the choice to impose individual sanctions is strategic, and determined by a complex combination of threat perceptions, domestic and international pressures, and relationships with the target (Nossal 1994; von Soest and Wahman 2015). Sanction senders weigh the potential benefits of achieving their goals through individual sanctions against their political/security-related, social, and economic costs. To account for the decision-making process in the UN, the US, and the EU, sanctions research should take into consideration four crucial dimensions that together all potentially shape the decision to blacklist individuals: trigger events, issue salience, sender-target relations, and sender characteristics.

#### **Trigger Events**

The pressure to sanction individuals will be especially strong when drastic trigger events - such as the killing of the Saudi Arabian regime critic Jamal Khashoggi in 2018, or the annexation of Crimea by Russian forces in 2014 – draw global attention and provide justification for

foreign intervention. Terrorist attacks or successful coups d'état (Powell and Thyne 2011) are further blatant signals to the international arena that global peace and security are being threatened, and human rights and democratic norms violated (Peksen et al. 2014). In these instances, we would expect to see particularly decisive action taken against the involved individuals by the UN, the US, and the EU.

#### **Issue Salience**

The readiness to impose individual sanctions also depends on the nature of the 'disputed policy' (Dorussen and Mo 2001) - as seen from the perspective of the senders. The UN, the US, and the EU will be particularly inclined to impose sanctions on individuals who directly threaten their direct interests and/or who are characterized as 'a threat to international peace and security' (United Nations 1945). Ending the proliferation of WMDs, terminating armed conflict, and countering terrorism will therefore be particularly salient goals that from the perspective of senders necessitate the imposition of sanctions on - potentially - responsible individuals, be they the politically responsible decision-makers, members of the security apparatus, the engineers needed to construct nuclear facilities, or arms dealers. Addressing issues such as money laundering and drug trafficking also have direct repercussions for sanction-sending entities.

#### Sender-target Relations

Senders take geostrategic reasoning as well as their political and economic costs into consideration when deciding how many and which individuals to target. The senders' potential costs for issuing sanctions vary greatly depending on (a) the existing political, military, economic, and social relations between sender and target; as well as (b) the target's political strength and standing within the global economy. In the economic realm, earlier research emphasized the importance of trade links (McLean and Whang 2010) and foreign direct investment (Lektzian and Biglaiser 2013). This calculation should also influence the propensity to sanction (high-ranking) individuals from particular countries, most notably the president and members of Figure 2 Summary of Main Factors Influencing Blacklisting Decisions



their cabinet – as powerful states could retaliate. A prominent example are the agricultural sanctions that Russia imposed in response to Western measures in 2014 (Timofeev 2018). Western senders might also be reluctant to target top policymakers and a high number of individuals from regimes that are generally supportive of Western security and broader political objectives.

#### **Sender Characteristics**

Despite exhibiting similar basic threat perceptions and issue salience considerations, the three main global sanction senders – the UN, the US, and the EU – differ in terms of their (a) basic goals and (b) internal coherence, both of which influence their blacklisting behavior. Most fundamentally, we can expect more decisive individual sanctions listing (in terms of the number and position of blacklisted individuals) the greater the sender's internal coherence is.

- The UN is the prime international body seeking to guarantee international peace and security. General listing decisions are made by the United Nations Security Council (UNSC), "a highly politicized body" (Biersteker et al. 2016, 15) that is dominated by its five permanent (P5) members: China, France, Russia, the United Kingdom, and the US. As the P5 have diverging geostrategic interests and norms (with Russia and China generally being more 'sanction skeptical'), UNSC members will generally agree only on the 'lowest common denominator' and target only individuals whose sanctioning is acceptable to all P5 members.
- Compared to the UN and the US, the EU is a new autonomous sanction sender. The 'Basic Principles on the Use of Restrictive Measures (Sanctions)' (European Union 2004) established the Union's own sanctions policy. Within the Union's complex legal framework, most sanctions are issued under its Common Foreign and Security Policy which requires unanimity between all 28 (at the time of writing) member states for moving forward with its main decisions. Nevertheless, the EU has sought to swiftly react to transgressions and target responsible individuals. In addition, in line with its self-understanding as a union of liberal values, the EU

has recurrently used its restrictive measures to strengthen human rights and democracy abroad.

The US is by far the most coherent and active global sanction sender. Not only is it a key sponsor of UN sanctions but it also regularly applies unilateral individual (and comprehensive) ones too-that is, without the authorization of the UNSC. Since the 9/11 terrorist attacks, the US has entered into a 'new era of financial warfare' (Zarate 2013) and systematically uses the country's dominant position within the global financial system to block the funding of state and non-state actors whom it perceives as a threat to its security interests. In addition, the US regularly undertakes unilateral action for international democracy and human rights promotion. Since the passing of the 2012 Magnitsky Act, the US even has a special law that requires the government to freeze the assets of purported human rights offenders and ban them from entering the country. Furthermore, assistance must automatically be terminated in the event of a coup or with evidence of nuclear proliferation (Miller 2014). As the US is the most coherent actor, and also the one least constrained by due process concerns, the number of individuals targeted by it is significantly higher than by the UN or the EU.

Figure 2 below summarizes the four main factors that influence senders' decision to blacklist an individual, ones that should hence be analyzed closely in future research.

#### Steps to Overcome the Research Lacunae

The research agenda on individual sanctions can guide both large-N and small-N investigations on the topic. In recent years, the availability of digital trace data (often termed 'big data') has massively expanded, as has the possibility to automatically extract and systematically analyze this data with the help of computer processing. As the UN, the US, and the EU provide their blacklists in machine-readable formats on their websites, these could be used for the compilation of new data on individual sanctions targeting as well as for statistical analyses assessing the blacklisting of individuals. The individual entries could be linked to the legal documents that provide the sanctions goal – meaning the reason why a specific individual was blacklisted.

Based on the considerations presented in this article, qualitative analysis would allow us to reconstruct in greater detail the complex decision-making processes that drive listing strategies. Semi-structured interviews could be used to assess the considerations and perspectives of decision-makers and administrators underpinning the listing strategies of the UN, the US, and the EU. The method is particularly suited to elucidating the multifaceted dynamics behind individual target selection and could therefore help to explain *how* listing decisions are being made.

#### CONCLUSION

The UN, the US, and the EU all have increasingly stressed the 'individual accountability' of policymakers, human rights violators, arms traders, and countless other individuals who facilitate incriminated policies. The use and design of individual sanctions – and, more specifically, the selection of persons to be sanctioned – has important practical and normative implications for decision-makers from both state institutions and advocacy organizations, as well as for the general public.

In order to learn more about whether and how sanctions 'work', research and policy need to focus more on individual sanctions as a decisive subcategory of the overall phenomenon. A new research agenda on individual sanctions must start with identifying the listing patterns, taking into consideration at least four crucial dimensions: trigger events, issue salience, sender-target relations, and sender characteristics. This promises to provide new insights into which individuals are selected as sanction targets and why, how listed individuals react, and in turn, under what conditions individual sanctions lead to a hardening of positions or induce a change of behavior.

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# Giving Away Wealth? Trade Effects of the Yuan Devaluation

The recent devaluation of the Chinese currency as a result of the ongoing trade dispute with the United States also has an impact on Europe. This article looks at the trade effects of a 10-percent and 20-percent Yuan devaluation according to calculations from the ifo Trade Model, based on the assumption of a normal reaction of the Chinese current account. Besides usual trade diversion effects, Germany and Europe also benefit in a second way from the Sino-American trade dispute: the devaluation of the Yuan, which makes Chinese goods cheaper for consumers in Europe. In a realistic scenario, we expect gains in real incomes for the German economy of EUR 413-499 million. Income growth for the rest of the EU (without Germany) would amount to EUR 1.9-2.8 billion. The devaluation goes hand in hand with income losses for the Chinese economy and, at the same time, lowers the costs of the trade dispute for the United States.

The US-China trade conflict, which has been ongoing since the election of Donald Trump as US President, has entered a new phase with the devaluation of the Chinese currency, the Renminbi-Yuan,<sup>1</sup> on 5 August 2019. While the People's Bank of China suggested that the devaluation was the result of ordinary market movements triggered by newly announced US tariffs, President Trump once again accused China of 'currency manipulation' (Xinhua 2019).<sup>2</sup> The devaluation was generally interpreted as a response to the announced US tariffs on all Chinese imports (Bloomberg 2019). August 2018, in early May 2019, and in the first half of August 2019. The two sharp devaluations in 2019, in particular, were preceded by announcements of new US import duties on Chinese goods, as shown in a comparison with the Peterson Institute's Trade War Timeline (Bown and Kolb 2019). Furthermore, market observers indicate that the Chinese central bank has recently even pushed the Yuan exchange rate up with support operations, which diametrically opposes the undervaluation accusations (WirtschaftsWoche 2019). The International Monetary Fund (IMF) does not see any signals for currency manipulation in the sense of an artificially low exchange rate either (Daniel and Yan 2019).

Figure 2 shows the US bilateral current account positions vis-à-vis China. The high US deficit of around 2 percent of economic output is not only what led to the US trade war; it also reflects the extent to which both sides can retaliate with countermeasures. The US trade deficit in goods of some USD 400 billion in 2018 means that the United States can impose special tariffs on more Chinese goods than vice versa. That is why China is using the devaluation of the Yuan as leverage in the trade dispute: because of the lack of alternatives. With reference to the Prussian military theorist Carl von Clausewitz, the Economist calls this a 'continuation of trade policy by other means' (The Economist 2019). In any case, the current USD/CNY exchange rate of 7.1 is down around 13 percent on the twoyear high in spring 2018. This means that additional US duties can be compensated via the exchange rate channel in such a way that Chinese goods do not lose their price competitiveness in US markets despite these tariffs. However, the price for holding on to market share is high, because a devaluation of the Yuan that is directly proportional to US tariffs means that the tariff burden lies entirely with Chinese producers and not with American consumers. Zoller-Rydzek and Felbermayr (2018) also find a higher tariff incidence for China, quantified by a real trade model, whereas Amiti et al. (2019) and Fajgelbaum

#### THE YUAN DEVALUATION AS CONTINUATION OF THE TRADE WAR

We will not go any further into currency manipulation below; however, it should be noted that the Yuan has seen three phases of devaluation since the beginning of 2018 (Figure 1): between June and

<sup>1</sup> Hereinafter referred to as 'Yuan' for clarity.

<sup>2</sup> See tweet below from 5 August 2019: https://twitter.com/realdonaldtrump/ status/1158350120649408513.







Note: Figures in USD billion, red line refers to right ordinate (% of GDP). Source: US Bureau of Economic Analysis. © ifo Institute

et al. (2019) present empirical evidence primarily for rising US consumer prices and hence a domestic tariff incidence. As caveat: all three analyses refer to a period before 2019 or do not take the exchange rate channel into account. Leaving a consideration of welfare economics to one side, the devaluation of the Yuan could cause a further increase of the US trade deficit with China - depending on the respective import demand and export supply elasticities. This unintended side effect of US trade policy is somewhat ironic, since the policy aim is precisely to reduce the bilateral deficit.

The main difference between additional duties and simultaneous currency devaluations is that the latter have an erga omnes effect, thus an effect on all trading partners, while US tariffs apply inter partes, i.e., only to China, in disregard of the mostfavored-nation principle enshrined in WTO law. Consequently, China has made its terms of trade worse for the rest of the world. These third-country effects of the Sino-American trade war go beyond the dimension of normal trade diversions and are part of the following considerations and calculations.

**REACTION OF THE CHINESE CURRENT ACCOUNT** 

national saving and investment decisions.<sup>3</sup> However, things are somewhat different when it comes to the effects of exchange rate policy. Subject to the Marshall-Lerner condition, for example, a currency devaluation with a balanced current account leads, all else being equal, to an increase in the current account balance (J-Curve Effect). This is also regarded as the 'normal reaction' of the current account (Borchert 1975). Moreover, a current account response to

the exchange rate is an empirical fact (Cline 2010; Goldstein and Lardy 2008; Ren et al. 2018), even if the underlying elasticity approach is criticized by theories (McKinnon and Schnabl 2009). Only if a nominal devaluation is accompanied by a real devaluation, there will be a change in the current account. This condition holds in the short term by assuming price stickiness. For this reason, an increase in China's current account is an expected consequence of the devaluation of the Yuan, at least in the short term. In the very case of China, political control of the current account does not seem implausible even on a medium-term basis. Financing projects such as the Belt & Road Initiative calls for permanent current account surpluses, without which no net foreign assets can be built up. What is more, the Chinese government also has the necessary tools at its disposal: capital controls and a high government share with corresponding possibilities for state saving. That is why we will simulate the effects of a medium-term increase in the current account below.

<sup>3</sup> Nevertheless, bilateral current account positions may shift. This distortion is mainly due to an asymmetric customs policy, i.e., when there is discrimination between different trading partners.

The Chinese current account balance has fallen sharply over the past decade (Figure 3). What had been a surplus of 10 percent measured by economic output fell to 0.4 percent in 2018, meaning that it is roughly balanced right now. The IMF even forecasts current account deficits for the near future. It is generally assumed that trade policy (e.g., tariffs) largely has no effect on the current account balance, as it does not change

#### Figure 3



Source: IMF World Economic Outlook

### TRADE EFFECTS OF A PERMANENT INCREASE IN CHINESE CURRENT ACCOUNT

With the ifo Trade Model,<sup>4</sup> the effects of an exogenous change in the Chinese current account are quantified in a static general equilibrium setting. The increase in China's current account by 3.25 percent or 6.5 percent of GDP corresponds to a real devaluation of the Yuan of 10 percent (scenario 1a) and 20 percent (scenario 1b), respectively.<sup>5</sup> As the total of all current account balances has to be zero, the current account balances of all other countries will be reduced on a GDP-weighted basis by the same amount in absolute terms as China's current account increases. These scenarios solely simulate the expected devaluation compared to the initial level without further adjustments. Scenarios 2a and 2b extend the expected devaluations by taking into consideration the effects of an escalating tariff war between China and the United States.<sup>6</sup> Scenario 3 serves as a comparison with earlier results and simulates an escalating tariff war between China and the United States without Yuan devaluation.<sup>7</sup>

Table 1 shows the change in real income<sup>8</sup> in the countries and regions concerned. The economic costs of devaluation alone for the Chinese economy amount to EUR 4.2 billion or EUR 8.4 billion, depending on the size of the devaluation. All other countries benefit – on aggregate by EUR 2.4 or 5.4 billion. On balance, the losses exceed the profits, indicating a decline in global production efficiency. The currency devaluation is, therefore, a negative-sum game. It is interesting to note that the United States benefits more from the 10-percent devaluation than the entire rest of the world, including the EU. This changes with a 20-percent devaluation, under which the EU's absolute gains in real income would reach

<sup>4</sup> For a detailed description of the model – see Aichele et al. (2016); Caliendo and Parro (2015).

<sup>5</sup> This corresponds to the average current account exchange rate elasticities of Cline (2010); and Goldstein and Lardy (2008).

<sup>6</sup> 25 percent protective tariff on US imports from China, worth USD 250 billion, + 10-percent protective tariff on US imports from China, worth USD 300 billion. China responds with countermeasures and introduces a 10-percent protective tariff on US goods – see Felbermayr and Steininger (2019) for further simulations.

<sup>7</sup> See ifo press release of 13 August 2019, https://www.ifo.de/en/ node/44814. There are minor differences in the underlying GDP data. It has been updated for this paper.

<sup>8</sup> Defined as the total of domestic value added, customs revenue, and international transfers. about 85 percent of the US level. The signs of these changes are plausible, as the real exchange ratio between foreign and domestically produced goods deteriorates in the event of a real devaluation to the detriment of China.

As scenario 3 shows, gains in real income materialize for Germany and Europe as long as China and the US impose tariffs only on each other. These result from trade diversions - increased demand for European products in China and the US and increased supply of Chinese and American products in Europe. Scenarios 2a and 2b now combine the effects of devaluation (1a and 1b) with the effects of the tariff war. In this case, the aggregate cost to China of additional tariffs and the devaluation amounts to an income loss of EUR 29.2 billion and EUR 33.7 billion, respectively, while Germany records real income growth of EUR 413 million and EUR 499 million, respectively. Only if the Yuan depreciates by 20 percent the US losses from an escalating tariff war (scenario 3) turn into a welfare gain. Although the 10-percent Yuan devaluation causes the US income loss to crumble, it remains negative.

With regard to trade relations, it can be seen that a devaluation of the Yuan - whether brought about consciously or unconsciously - together with the corresponding consequences for the Chinese current account will not lead to any increase in welfare in China. Indeed, the opposite is true, as making exports cheaper means a transfer of wealth to other countries. In contrast to a trade dispute conducted solely through tariffs, in which retaliating with counter-tariffs is the dominant strategy in response to unilaterally imposed tariffs, there are no positive effects associated with a currency devaluation or an increase in the current account balance. The transfer of wealth to the rest of the world associated with this reduces the costs of the trade conflict for the US and increases the benefits for non-participating third countries such as the EU.

Another motive for the devaluation could be to maintain the level of production and thus also employment in China. As a frictionless model that assumes full employment, the ifo Trade Model cannot simulate employment effects. However, contrary to the widespread opinion that current account sur-

#### Table 1

Changes in Real Income, Different Scenarios (in EUR Million)

	Yuan devaluation		Yuan devaluation +	Yuan devaluation + US-China tariff war		
	1a	1b	2a	2b	3	
China	- 4,235	- 8,440	29,267	- 33,786	- 24,621	
Germany	15	147	413	499	348	
Rest of the EU	505	1,520	1,944	2,816	1,404	
Rest of the world	461	2,208	5,675	6,513	5,130	
United States	1,418	1,969	397	476	- 1,593	

Note: Real income is the sum of aggregated domestic value added, customs revenue, and international transfers. Scenario 1a/1b simulate a 10-percent/20-percent Yuan devaluation, scenario 2a/2b simulate an additional escalating tariff war, and scenario 3 solely simulates a tariff war between the United States and China without devaluation.

Source: ifo simulations and World Bank (2019).

pluses, all else being equal, lead to higher employment, Braml et al. (2018) empirically find a negative correlation between employment and the current account balance.<sup>9</sup>

#### CONCLUSION

As shown, Germany and the EU benefit from an escalating trade conflict between the United States and China not only in the form of trade diversion effects, but also by a devaluation of the Yuan. The trade conflict undoubtedly causes economic harm due to increased uncertainty and political risks. However economic gains may still arise due to such welfare transfers.<sup>10</sup> The exchange rate channel, which was approximated in this paper by the increase in China's current account surplus, and through which Chinese products become more favorable for German consumers and producers, more than outweighs dampening effects on demand due to the rise in prices of German and European products in China.

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### Christian Grimme and Robert Lehmann The ifo Export Climate – A Leading Indicator to Forecast German Export Growth



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#### INTRODUCTION

Over the last 25 years there has been an exceptionally large increase in trade globalization. The increase in globalization is mainly reflected in a higher interconnectedness of value-added chains between economies. Therefore, export and import developments have become increasingly important for the growth of gross domestic product (GDP). Focusing on Germany, a very open economy, exports are the second largest component of GDP after private consumption. In addition, comparing the standard deviations of the different GDP components, export growth is extremely volatile and thus heavily influences fluctuations in GDP. Therefore, accurately forecasting exports has become increasingly important in applied forecasting work.<sup>1</sup>

Particularly in short-term forecasting, monthly indicators help us to generate precise export forecasts for the current and the next quarter. Indicators have the advantage that they are released at a higher frequency compared to national account figures, which are available only on a quarterly basis and published with a delay of about two months after the end of the current quarter. In contrast, hard indicators, such as foreign new orders or monthly foreign trade, are released much sooner. Particularly interesting for forecasting is survey data, which is published even earlier and is not usually subject to revisions.

This study presents the ifo Export Climate, a leading indicator for forecasting German exports.<sup>2</sup> The ifo Export Climate is based on business and consumer confidence of Germany's main trading

Figure 1

partners and also takes into account Germany's international price competitiveness. By modelling international

<sup>1</sup> See Hanslin and Scheufele (2019) for Swiss and German exports, Lehmann (2019) for a study on European countries, and Keck et al. (2009) for the OECD 25. Grimme et al. (2019) analyze the performance of different indicators in forecasting imports for six different countries.

<sup>2</sup> The ifo Export Climate has already been presented in a German article by Elstner et al. (2013). We thank Maximilian Müller-Bardorff for his valuable research assistance. demand and the relative price of German products, the ifo Export Climate reflects changes in foreign demand for German goods.

To assess the performance of the ifo Export Climate in forecasting German exports, its predictive quality is evaluated using statistical and econometric methods. It turns out that the ifo Export Climate performs well for current-quarter forecasts and is the best-performing indicator for next-quarter forecasts. Therefore, the ifo Export Climate provides a valuable indicator for short-term forecasting of German exports. The indicator is updated monthly and published on the ifo homepage. The underlying idea of the ifo Export Climate was also adopted by Lehmann (2019) for a set of 18 European countries. He finds that the Export Climates are among the best performing survey-based indicators.

The next section presents the construction of the ifo Export Climate. In the third section, we analyze the forecasting performance of the ifo Export Climate. First, we discuss further potential leading indicators. Second, using cross-correlations, we look at common fluctuations of the indicators and export growth. We also describe the issue of publication lags. Afterwards, we evaluate the forecasting performance of the ifo Export Climate based on a pseudo out-of-sample forecasting exercise. The final section concludes.

#### **CONSTRUCTION OF THE IFO EXPORT CLIMATE**

The ifo Export Climate consists of two components. The first part is world demand, which is proxied by global business and consumer sentiment of Germany's most important export markets. The construction of world demand is described in detail below. The second sub-chapter tackles the price competitiveness of Germany. This measure indicates how competitive the German economy is in comparison to its trading partners. Figure 1 shows the structure of the ifo Export Climate in graphical form. Both components are weighted differently in the ifo Export Climate. The computation of these weights is also explained below.

#### Construction of the ifo Export Climate



Note: The weights were determined based on a regression in which exports are explained by the two components of the ifo Export Climate. Source: Authors' compilation. © ifo Institute

#### **Construction of the World Demand Proxy**

Global world demand is proxied by business and consumer sentiment of a total of 44 countries, covering more than 90 percent of the sales markets for German exports.<sup>3</sup> The business confidence of each country is approximated by an industrial confidence indicator. For the European countries, we use the industrial confidence indicators (ICI) from the European Commission, which are harmonized across the member states (European Commission 2016). For most of the other countries outside Europe, we mostly use Business Confidence Indexes (BCI) provided by national sources. To approximate business confidence in the United States and China, we rely on the Purchasing Managers' Index (PMI) from the Institute for Supply Management (ISM) and the National Bureau of Statistics China, respectively; for Thailand, we use the BCI provided by the Bank of Thailand. The consumer confidence indicators are taken from the European Commission for the European countries and from national sources for all remaining countries. Both confidence indicators - business and consumer - are seasonally adjusted and standardized to have zero mean and a standard deviation of one.

The construction of world demand is determined in two steps. First, we proxy a trading partner's overall demand by weighting its business and consumer sentiment. The weights are calculated as the ratio of the volume of exports of consumption goods from Germany to the respective trading partner and the sum of German exports of consumption and investment goods to the respective trading partner. Country-specific weights for business and consumer sentiment are used to reflect the differences in the relative importance of German exports of consumer and investment goods across its trading partners. Country-specific export data is extracted from the UN Comtrade Database. This database allows us to split a country's exports with respect to destination and broad economic categories (BEC).<sup>4</sup>

Second, country-specific demand is aggregated using country-specific weights to form world demand. The weights reflect the importance of a trading partner for Germany's exports and is computed as the volume of exports from Germany to the trading partner divided by the total volume of exports by Germany. The data is taken from the IMF's Direction of Trade Statistics.

Figure 2 displays the construction of a country's demand using the example of the two countries France and China. Germany's total exports to China are comprised of consumption goods only to a small extent (7%), while 93% of the exports are investment goods. In contrast, about 17% of Germany's exports to France are consumer goods and 83% are investment goods. Overall, France enters world demand with a higher share, because the total share of German exports to France (about 9%) is larger than the corresponding share for China (about 8%).<sup>5</sup>

#### **Price Competitiveness**

The proxy for German price competitiveness is the real effective exchange rate (REER) with respect to Germany's 36 major trading partners. The REER is the nominal effective exchange rate, taking into account the ratio of foreign to Germany's consumer prices. The data is taken from the Deutsche Bundesbank.<sup>6</sup>

<sup>5</sup> Since about 90 percent of all export markets are included in the ifo Export Climate, the country shares of total German exports are transformed to 100 percent.

Since the time series is only available starting in 1993, the years



Example for Construction of World Demand



Notes: Export shares are for 2018; consumer and investment goods shares are for 2016, computed from the latest data available. Source: Authors' compilation.

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<sup>&</sup>lt;sup>3</sup> The 44 countries comprise all member states of the European Union (except Croatia), Israel, Norway, the Russian Federation, Switzerland, Turkey, a selection of North and South American countries (Brazil, Chile, Mexico, and the United States), a number of Asian countries (China, India, Indonesia, Japan, South Korea, and Thailand), Australia and New Zealand, and South Africa.

<sup>&</sup>lt;sup>4</sup> As we are interested in consumer versus investment goods exports, we rely on the consumer goods definition by the UN. Based on this definition, consumer goods are mainly the sum of food and beverages for household consumption, processed fuels and lubricants, non-industrial transport equipment, and consumer goods that are not specified in any other BEC. Investment goods are capital goods and industrial transport equipment.





Notes: World demand is computed based on business and consumer sentiment of Germany's 44 major trading partners. Price competitiveness is the real effective exchange rate with respect to Germany's 36 major trading partners; the series is obtained from the Deutsche Bundesbank. Both series are standardized to have zero mean and a standard deviation of one. Source: Deutsche Bundesbank; European Commission; national sources; authors' calculations. © ifo Institute

Figure 3 plots both the price competitiveness and world demand. To improve readability, both time series are standardized to achieve uniform scaling. World demand is subject to cyclical fluctuations and thus captures the demand for German products, which is strongly dependent on the global economy. In contrast, price competitiveness is much flatter. It reflects the comparatively slow-moving price component of German exports in the ifo Export Climate.<sup>7</sup> In the following, both world demand and the change in price competitiveness enter the ifo Export Climate using their standardized values.

The weights of the Export Climate's two components – the combined confidence indicators and the price competitiveness – are computed following the two-step procedure by Kilian et al. (2007). In the first step, we estimate a regression, in which the quarterly growth rates of exports ( $\Delta Export$ ) is the dependent variable. The explanatory variables are the current value and four lags of the change in the price competitiveness ( $\Delta PC$ ):

(1) 
$$\Delta Export_t = \alpha + \beta_1 \Delta PC_t + \dots + \beta_5 \Delta PC_{t-4} + \varepsilon_t$$

Including lags, this takes into account that there is a delayed response of exports to changes in relative prices. The estimation of equation (1) yields an adjusted R<sup>2</sup> of 17 percent. This indicates that 17 percent of the variation  $\Delta Export$  of is explained by  $\Delta PC$ . In the second step, equation (1) is extended to include world demand ( $\Delta WD$ ) using its current value and four lags:

(2) 
$$\Delta Export_t = \alpha + \beta_1 \Delta P C_t + \dots + \beta_5 \Delta P C_{t-4} + \gamma_1 W D_t + \dots + \gamma_5 W D_{t-4} + \varepsilon_t$$

The adjusted R<sup>2</sup> increases to 69 percent. Due to the much higher explanatory power, world demand is more important for the dynamics of German exports. This is in line with Danninger and Joutz (2008); and Grimme and Thürwächter (2015), who show that price competitiveness explains only a comparatively small part of Germany's export growth. Finally, the weight of the price competitiveness is computed by dividing the adjusted R<sup>2</sup> from equation (1) to that of equation (2). This yields a weight of 25 percent for the price com-

petitiveness. Therefore, the price competitiveness and world demand enter the ifo Export Climate with a weight of 0.25 and 0.75, respectively.

Figure 4 plots the ifo Export Climate together with German export growth. Both series display a strong co-movement.

#### FORECASTING PERFORMANCE OF THE IFO EXPORT CLIMATE

#### **Further Potential Predictors**

To judge the relevance of the ifo Export Climate for applied export forecasting, we need to compare its forecasting performance to the performance of other predictors. All predictors are seasonally adjusted.

- Exports special trade classification: the most straightforward quantitative indicator is export in delimitation of special trade, which is released monthly by the German Statistical Office. It solely captures traded goods that have been produced or processed in Germany. This series represents a large component of exports in delimitation of national accounts. Since the special trade figures are published only in nominal terms, we deflate them using the monthly available export price index released by the Deutsche Bundesbank. To do so, we first shift the price index back by one month and use this lagged series to deflate nominal exports. The resulting series has a slightly higher correlation with real exports in delimitation of national accounts than when exports in delimitation of special trade are deflated with the contemporaneous price index. This is because prices are collected once the contract has been signed, while national accounting standards measure traded goods at the time of the border crossing.
- New foreign orders: another prominent indicator is new orders in the German manufacturing indus-

<sup>1991</sup> and 1992 are extrapolated using the rates of change of the price competitiveness with respect to 26 trading partners. For an evaluation of different competitiveness indicators, see Ca'Zorzi and Schnatz (2007).

<sup>&</sup>lt;sup>7</sup> The plot also shows that price competitiveness is a non-stationary variable. Therefore, in the following, this variable is included in log differences in the ifo Export Climate.

Figure 4 ifo Export Climate and Real Exports



Notes: Real exports: growth in real exports of Germany (year -over-year rates). ifo Export Climate: standardized to have zero mean and a standard deviation of one. Source: German Statistical Office; computation of authors.

try from abroad released by the German Statistical Office. Since orders must be processed first, they may be a good indicator for future exports.

- Price competitiveness: in addition to the indicators describing the real economy, we also rely on a price measure. As exports are directly linked to the relative price competitiveness position of the domestic economy within the world market, information about relative prices should contain signals that may help forecast export growth. We use the real effective exchange rate based on consumer prices against 37 industrial countries, which is released monthly by the Deutsche Bundesbank.
- ifo New Foreign Orders assessment: each month the ifo Institute asks firms to assess their current foreign order-book levels.
- ifo Export Expectations: each month the ifo Institute asks firms about their export expectations for the next three months.

#### **Correlation Analysis and Publication Lags**

The evaluation of the indicators starts with a cross-correlation analysis. Cross-correlations provide information on whether and to what extent or in which direction there is a correlation between the indicators and export growth. Before, all indicators are converted to quarterly frequency by averaging the monthly values; new orders, the real effective exchange rate, and exports in delimitation of special trade are transformed to growth rates. Table 1 shows the crosscorrelations.

The first row shows that the auto-correlation of exports – the correlation of exports in delimitation of national accounts with its own lags – is not very high. This is another indication

that export growth is not very persistent, but probably more volatile. The second row displays the very high contemporaneous correlation between exports in delimitation of national accounts and exports in delimitation of special trade with a correlation coefficient of 0.95. New orders have a high contemporary correlation with exports (0.65). The indicator also exhibits a strong lead correlation of one quarter with exports (0.58). In contrast, the price competitiveness measured by the real effective exchange rate – is weakly negatively correlated with exports, since an increase in the exchange rate means an appreciation of the domestic currency, which translates into a deterioration of the price competitiveness. The contemporaneous correlation with exports is relatively low as are the lead correlations. ifo New Orders have a high contemporary correlation with exports (0.66) and a good lead correlation of one quarter (0.50). The ifo Export Expectations have, in addition to a high contemporary correlation (0.59), leading properties for one quarter (0.35). Finally, the ifo Export Climate has a contemporary correlation coefficient of 0.50. Therefore, the correlation analysis gives a first indication that the ifo Export Climate may be a good indicator for German exports.

When interpreting correlation coefficients, one needs to take into account that the monthly time series are available with different time delays.

#### Table 1

	Lead of indicator					Lag of i	ndicator		
	4	3	2	1	0	- 1	- 2	- 3	- 4
Real export (national accounts)	- 0.01	0.05	0.18	0.29	1.00	0.29	0.18	0.05	- 0.01
Nominal export (special trade)	- 0.06	0.06	0.14	0.33	0.95	0.19	0.02	0.06	0.06
Real export (special trade)	- 0.09	0.10	0.17	0.38	0.95	0.17	0.01	0.05	0.06
Foreign new orders	0.04	0.14	0.33	0.58	0.65	0.22	0.03	- 0.07	- 0.14
Real eff. exchange rate	- 0.09	- 0.05	- 0.11	- 0.13	- 0.32	- 0.02	- 0.13	0.03	0.15
ifo Foreign Orders	- 0.07	0.05	0.27	0.50	0.66	0.52	0.23	0.05	- 0.21
ifo Export Expectations	- 0.22	- 0.14	0.01	0.35	0.59	0.62	0.50	0.34	0.13
ifo Export Climate	- 0.23	- 0.17	- 0.01	0.29	0.50	0.58	0.56	0.44	0.24
Notes: The cross-correlations are calculated between the quarterly growth rates of real exports (in delimitation of national accounts) and the respective indicator. The									

indicators special trade exports, for Equations and exchange rate are in quarterly log-differences, ifo Foreign Orders are in quarterly differences, and ifo Export Expectations and ifo Export Climate are not transformed.

Source: Calculations of the authors.

	Ifo Business Cycle forecasts						
	Spring	Summer	Autumn	Winter			
Indicator	(March)	(June)	(September)	(December)			
Export special trade	Jan.	April	July	Oct.			
Foreign orders	Jan.	April	July	Oct.			
Exchange rate	Jan., Feb.	April, May	July, Aug.	Oct., Nov.			
ifo Orders	Jan., Feb.	April, May	July, Aug.	Oct., Nov.			
ifo Export Expectations	Jan., Feb.	April, May	July, Aug.	Oct., Nov.			
ifo Export Climate	Jan., Feb.	April, May	July, Aug.	Oct., Nov.			

 Table 2

 Availability of Indicators for ifo Business Cycle Forecasts

Source: German Statistical Office, Deutsche Bundesbank, ifo Institute.

Table 2 shows the availability of the monthly indicators for the quarterly economic forecasts that are released by the ifo Institute. The months in the columns indicate which values of the current guarter are available for the respective indicator. Typically, indicators based on survey data, such as the three ifo variables, are available for the first two months of the current quarter, while indicators based on hard data, such as foreign new orders and exports in delimitation of special trade, are available only for the first month. This means that real exports in delimitation of special trade may still not be the best predictor, even though this series has the highest contemporaneous correlation with real exports in delimitation of national accounts. As a result, the ifo indicators have an informational advantage over the hard indicators, which may be particularly valuable due to the volatility of exports.

#### **Out-of-sample Forecasting Performance**

In this section, we assess the performance of each of the indicators with respect to forecasting the quarterly growth rates of German exports in the current and the following quarters. We use the following forecasting model for the current quarter:

(3)  $\Delta \widehat{Export}_t = \widehat{\alpha_1^1} + \widehat{\beta_1^1} Indicator_t + \dots + \widehat{\beta_{p+1}^1} Indicator_{t-p}$ ,

where  $\Delta E x port_t$  is the forecast of quarter-on-quarter real export growth, Indicator, denotes the current quarterly value of one of the leading indicators, while *Indicator*, is lag p of the leading indicator. The monthly leading indicators are transformed to quarterly frequency. As described in the previous section, for some of the indicators only the first month of the current quarter is available, for others the first two months are known. We take this into account in the conversion to quarterly values, so that the current quarterly value contains only the average of the available months. Finally, the indicators export special trade, foreign new orders, and exchange rate enter as log-differences, respectively; ifo Foreign Orders are considered in first differences; and ifo Export Expectations and ifo Export Climate are not transformed.

For the forecast of the following quarter, the forecasting model must be slightly changed since we do not have any values for the leading indicator in t + 1:

#### (4) $\Delta E x \widehat{port}_{t+1} = \widehat{\alpha_1^2} + \widehat{\beta_1^2} Indicator_t + \dots + \widehat{\beta_{q+1}^1} Indicator_{t-q}$

The evaluation of the forecasting performance of the models is based on pseudo-out-of-sample forecasts.<sup>8</sup> Out-of-sample means that the period for the estimation of the models' parameters does not include the forecasted quarter. The term pseudo illustrates that the forecasts refer to periods for which realized data is already available. In our case, the first estimation period is from 1991:Q1 to 2005:Q1. Using models (3) and (4), forecasts are produced for the current quarter (2005:Q2) and the next quarter (2005:Q3) using one particular leading indicator. These forecasts are then compared to the actual values to determine forecast errors for the current and the next quarter. Then, the estimation period is extended by one quarter to cover 1991:Q1 to 2005:Q2, forecasts are generated for the third and fourth quarter of 2005, and forecast errors are computed using the actual values. This procedure is repeated up to the most recent data point, so that the last estimation sample covers the period 1991:Q1 to 2019:Q2. In sum, 57 forecast errors for the current quarter and 56 forecast errors for the next quarter are produced for each leading indicator.9

We assess the forecast errors separately for the current quarter (h=0) and the next quarter (h=1) for each indicator (*IND*) based on the root mean squared errors (*RMSE*):

(5) 
$$RMSE_h^{IND} = \sqrt{\frac{1}{T_h} \sum_{t \in T_h} (\Delta E \widehat{xport}_{t+h} - \Delta E xport_{t+h})^2}$$

<sup>8</sup> The choice of the number of lags *p* and *q* of the leading indicator in models (3) and (4) is based on the Bayesian Information Criterion (BIC). The parameters of the models are estimated with OLS. <sup>9</sup> We use real-time data for this exercise. Using the final vintage data does not change our main findings. Also, using exports of goods instead of exports of goods and services does not change the main results. We also experimented with including lags of export growth in models (3) and (4), which does not change the main findings; however, using own lags results in a deterioration of the absolute forecast performance of the indicators. This is because export growth is not very persistent (see the first row of Table 3). where  $T_{h}$  denotes the number of forecasts produced for each horizon. The forecast error for quarter t+h is the squared difference of the forecast  $(\Delta E \widehat{xport}_{t+h})$  and actual export growth  $(\Delta E x port_{t+h})$ . The difference is squared to capture the absolute size, since a forecast may prove to be too high or too low, resulting in a forecast error being either positive or negative. Squaring the forecast error also means that large errors are weighted more heavily. Summing over all forecast errors for horizon h, dividing by the number of forecasts  $T_{b}$ , and taking the squared root yields the average forecast error. The lower the RMSE, the better the forecasting performance of the respective indicator.

To assess the relative performance of an indicator, we calculate the relative RMSE or Theil's U as the ratio of the RMSE of the indicator model and that of a specific reference model:

(6) Theil's 
$$U_h^{IND} = \frac{RMSE_h^{INI}}{RMSE_h^{REI}}$$

<sup>10</sup> An AR(r)-model for forecast horizon *h* is:

where  $RMSE_{h}^{REF}$  is derived by replacing  $\Delta E \widehat{xport}_{t+h}$ with  $\Delta E \widehat{xport}_{t+h}^{REF}$  in Equation (5),  $\Delta E \widehat{xport}_{t+h}^{REF}$  denotes the forecast of a reference model. The further the Theil's U lies below a value of 1, the more accurate the indicator model forecasts compared to a reference model. As reference models we use an AR(r)model and a random walk model.<sup>10</sup>

Table 3 shows the results from the pseudo-out-of-sample forecasts for the current quarter (at the top) and for the next quarter (at the bottom). Bold values show a good forecasting performance (RMSE < 3, Theil's U << 1). For the forecast of the current quarter, most of the indicators have much lower *RMSEs* compared to both reference models. Therefore, indicators such as special trade, foreign new orders, and the three ifo variables are good predictors for forecasting export growth in the current quarter. In contrast, price competitiveness, as proxied by the real effective exchange rate, have a similar RMSE value as the two reference models, so that this indicator is of only limited use as an instrument for the current-quarter forecast. For the forecast of the next quarter, the ifo indicators, and especially the ifo Export Climate, perform much better than the rest of the indicators. In contrast to the other indicators, the RMSEs of the ifo indicators are clearly below those of the reference models. Therefore, the ifo Export Climate and the other two ifo indicators are the most reliable predictors for the forecast of export growth for the next quarter.

is based on the Bayesian Information Criterion (BIC). For both forecast horizons, a random walk model yields:  $\Delta \widehat{Export}_{t+h}^{REF} = \Delta Export_{t-1}.$  $\Delta \widehat{Export}_{t+h}^{REF} = \hat{\alpha} + \hat{\beta}_1^h \Delta Export_{t-1} + \dots + \hat{\beta}_r^h \Delta Export_{t-r}; \text{ the lag length } r$ 

#### Table 3

Pseudo-out-of-sample Forecasting Performance of Different Indicators for Export Growth

	Current quarter					
		Т	heil's U			
Indicator	RMSE	against AR(p)	against random walk			
Nominal export special trade	2.26	0.64	0.62			
Real export special trade	2.32	0.66	0.64			
Foreign new orders	2.24	0.64	0.62			
Real eff. exchange rate	3.50	1.00	0.96			
ifo Foreign Orders	2.28	0.65	0.63			
ifo Export Expectations	2.14	0.61	0.59			
ifo Export Climate	2.35	0.67	0.65			
Univariate AR(r)	3.52					
Random walk	3.63					
		Next quarter				
Γ		Т	heil's U			
Indicator	RMSE	against AR(p)	against random walk			
Nominal export special trade	3.58	1.02	0.80			
Real export special trade	3.59	1.02	0.80			
Foreign new orders	3.26	0.93	0.73			
Real eff. Exchange Rate	3.71	1.06	0.83			
ifo Foreign Orders	2.92	0.83	0.65			
ifo Export Expectations	2.87	0.81	0.64			
ifo Export Climate	2.68	0.76	0.60			
Univariate AR(r)	3.52					
Random walk	4.48					
Standard deviation of export growth	2.47					

Notes: The target series to forecast are real-time quarterly growth rates of total exports in delimitation of national accounts. The forecast errors are computed with respect to the first release. Bold values indicate a good forecasting performance of the respective indicator (RMSE < 3,  $Theil's U \ll 1$ ). The top shows results for the current quarter (h=0), the bottom for the next quarter (h=1). The lag length of the reference AR(r)-model is BIC-optimized. For the current quarter, only the first month is available for special trade exports and foreign new orders; for the ifo indicators and the real effective exchange rate, the first two months are available. Special trade exports, foreign new orders, and the real effective exchange rate are in log-differences, ifo Orders are in differences, and ifo Export Expectations and ifo Export Climate are not transformed.

Source: Calculations by authors.

#### CONCLUSION

This study presents a leading indicator for export forecasting: the ifo Export Climate. This indicator is constructed using survey data from business and consumer surveys and also includes a measure for price competitiveness. Using the example of Germany, we show that this indicator performs well for short-term forecasting. In particular, we find that the ifo Export Climate is the best-performing indicator for the forecast of the next quarter. Due to the good performance of the indicator, the ifo Institute has been using the ifo Export Climate as a predictor for German exports in all its business cycle forecasts for many years.

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# The Asylum, Migration, and Integration Fund of the EU

The Asylum, Migration, and Integration Fund (AMIF) of the EU,<sup>1</sup> established for the period 2014-2020 with a total sum of EUR 3.137 billion for the seven years, is designed to promote the efficient management of migration flows and their implementation, as well as to strengthen and develop a common EU approach to asylum and immigration. All EU member states except Denmark participate in the implementation of this fund. Major beneficiaries of the support programs and projects implemented under the AMIF include state and federal authorities, local public bodies, non-governmental organizations (NGOs), humanitarian organizations, private and public law companies, and education and research organizations.

More precisely, the AMIF aims to contribute to the achievement of specific objectives in the following promotion areas:

- 'Asylum': development of the Common European Asylum System (CEAS) by ensuring the efficient and uniform application of the EU legislation in this field;
- 'Legal migration and integration': promotion of the legal migration to EU countries in line with the labor market needs, and the effective integration of non-EU nationals; and
- 'Return': implementation of fair and effective return strategies, aimed also at preventing irregular migration, with an emphasis on sustainability and effectiveness of the return process.<sup>2</sup>

Of the total sum of EUR 3.137 billion, an amount of EUR 2.752 billion (= 88 percent) is earmarked for the EU member states' 'national programs', and EUR 385 million (= 12 percent) for Union action, emergency aid, the European Migration Network (EMN),<sup>3</sup> and technical assistance from the European Commission (the so-called 'direct management'). In other words, the AMIF contributes mainly to the co-financing of national programs (the 'shared management'). In this context, the EU countries are responsible for their multiannual national programs, covering the entire period 2014-2020. These programs are prepared, implemented, monitored, and evaluated by the responsible authorities in the individual EU nations, in partnership with the relevant stakeholders in the relevant field, including also the civil society. The EU co-financing share of the projects accounts for 75 percent in general. Under special circumstances, the share can reach up to 90 percent. The AMIF budget allocated for Germany for the same period of time amounts to approximately EUR 208 million.<sup>4</sup>

As mentioned above, the remaining 12 percent of the total amount aims at supporting the Union actions and emergency assistance: concrete actions to be funded through this instrument include improvement of accommodation and reception services for asylum seekers; information measures and campaigns in non-EU countries on legal migration channels; education and language training for non-EU nationals; assistance to vulnerable persons belonging to the target groups of AMIF; information exchange and cooperation between EU member states; and training for staff on topics of relevance to AMIF. Part of AMIF is also managed by the European Commission via EU actions, which include calls for proposals, procurement, direct awards, and delegation agreements (Table 1).

#### IMPLEMENTATION OF THE AMIF NATIONAL PROGRAM IN GERMANY

The individual EU member states shall designate their own (national) authorities responsible for implementing the AMIF national program. In Germany, the National Center for the Administration of the European Refugee Fund at the Federal Office for Migra-

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<sup>&</sup>lt;sup>1</sup> See also https://www.eu-foerdermittel.eu/asyl-migrations-und-integrationsfonds-amif-zum-thema-integration/; and https://ec.europa.eu/home-affairs/financing/fundings/migration-asylum-borders/ asylum-migration-integration-fund\_en.

<sup>&</sup>lt;sup>2</sup> In addition, the AMIF also emphasizes the so-called 'Solidarity' objectives ensuring that EU member states that are most affected by migration and asylum flows can count on solidarity from other EU nations.

<sup>&</sup>lt;sup>3</sup> The AMIF provides financial resources for the EMN activities and its future development. The EMN aims to respond to EU institutions' and to EU member state authorities' and institutions' needs for information on migration and asylum by providing up-to-date, objective, reliable, and comparable data, with a view to supporting policy-making (https://ec.europa.eu/home-affairs/what-we-do/ networks/european\_migration\_network\_en; https://ec.europa.eu/ home-affairs/financing/fundings/migration-asylum-borders/asylum-migration-integration-fund/european-migration-network en). Around 11 percent of the funding under the shared management will be allocated to Specific Actions (implemented under the national programs of EU members, but responding to specific Union priorities) and to support the Union Resettlement Programs (URP). The URP are voluntary programs through which EU countries aim to provide international protection and a durable solution in their territories to refugees and displaced persons identified as eligible for resettlement by UNHCR. They include actions the EU members implement to assess the resettlement needs and transfer the persons concerned to their territories, with a view to granting them a secure legal status and to promoting their effective integration (https:// ec.europa.eu/home-affairs/e-library/glossary/resettlement-programme\_en). A similar financial mechanism is foreseen for the transfer of beneficiaries of international protection from an EU State with high migratory pressure to another.

#### Table 1 Expired EU Calls for AMIF Proposals

	Deadline
Call for proposals in the area of integration of third-country nationals (2018) (AMIF-2018-AG-INTE)	31/01/2019
Call for proposals to support awareness raising and information campaigns on the risks of irregular migration in selected third countries (2017) (AMIF-2017-AG-INFO)	05/04/2018
Call for proposals in the area of integration of third-country nationals (2017) (AMIF-2017-AG-INTE)	01/03/2018
Call for proposals on the actions in the area of integration (HOME/2015/AMIF/AG/INTE)	29/02/2016
Call for proposals on the actions addressing trafficking in human beings, in particular the integration and the safe and sustainable return of victims of trafficking in human beings (HOME/2015/AMIF/AG/THBX)	16/02/2016
Call for proposals on the actions in the area of monitoring of forced return (HOME/2015/AMIF/AG/FRTM)	11/02/2016

Source: https://ec.europa.eu/home-affairs/financing/fundings/migration-asylum-borders/asylum-migration-integration-fund/union-actions\_en.

tion and Refugees (BAMF) is responsible for awarding grants within this financial support framework.<sup>5</sup>

### Integration of Third-country Nationals and Legal Migration

#### Common European Asylum System (CEAS)

In the context of the asylum and refugee policy, Germany attempts to ensure an adequate reception of asylum seekers and a speedy and constitutional asylum procedure, and also strives to continuously develop it further. The implementation and completion of the CEAS is acknowledged crucial for this purpose. Of the aforementioned EUR 208 million earmarked for the period 2014–2020, approximately EUR 60 million of AMIF's fund will be allocated to this area, which promotes the earlier identification of asylum seekers with special needs in reception (and also in the asylum procedure) as well as better consideration of their (specific) needs in a more standardized way.

For the field of 'admission', Germany sees further enhancement of national standards with regard to admission conditions as urgently necessary, which will in turn enable more flexible adaptation of accommodation capacities and continuous development of other activities related to the reception (e.g., access to first orientation, care, counselling, assistance, and information services). Moreover, the speed-up of the asylum procedure should ideally be combined with high quality decision-making, which can also be guaranteed, for example, by standardizing the information quality on countries of origin.

Better professional exchanges and further training of those actors who are involved in reception and asylum procedures are also required on the national level. In addition, closer cooperation with all relevant counterparts on the EU level also appears to be desirable for the further development of CEAS. In this context, Germany is also striving to expand its 'Resettlement Program', which was implemented in 2012.<sup>6</sup> German integration policy aims at providing the people with a migration background equal opportunities for education, personal development, and carrier advancement as well as for their professional and social participation, which will in turn strengthen the social cohesion in this country. This objective applies equally to third-country nationals and EU citizens. Yet, according to Articles 8–10 of Regulation 516/2014/EU, AMIF's funds will directly benefit only third-country nationals and, if it serves the effective implementation of the measure, their closest relatives. Germany intends to use approx. EUR 92 million of AMIF funds in this area.

As was the case with the European Integration Fund (2007–2013),<sup>7</sup> the AMIF is intended to supplement and further develop the existing strategic instruments of integration policy in this country, enforced on the basis of the German Residence Act, which additionally encompasses the measures for establishing a culture of welcome and recognition of third-country nationals.

#### Return

German 'return' policy applies the so-called integrated return management approach, which combines various strategic measures such as counselling, return support, enhanced reintegration in the country of origin, etc.<sup>8</sup> Here, the voluntary return takes precedence over the forced repatriation. Germany plans to spend around EUR 45 million of the avail-

<sup>&</sup>lt;sup>5</sup> See http://www.bamf.de/SharedDocs/Anlagen/DE/Downloads/ Infothek/EU\_AMIF/nationales-programm.html?nn=5045180.
<sup>6</sup> In the framework of the German Resettlement Program, a contingent of refugees in need of special protection has been permanently admitted to Germany every year since 2012. These are persons who reside in the first receiving states and have neither a positive perspective for the future nor a prospect of return – see https:// www.bmi.bund.de/DE/themen/migration/asyl-fluechtlingsschutz/

humanitaere-aufnahmeprogramme/humanitaere-aufnahmeprogramme-node.html.

<sup>&</sup>lt;sup>7</sup> The European Integration Fund (EIF) was merged into the AMIF in 2014. The general objective of the EIF was to support EU member states' efforts to enable third-country nationals of different economic, social, cultural, religious, linguistic, and ethnic backgrounds to fulfil the conditions for residence and to integrate more easily into European society. Refugees and displaced persons, beneficiaries of subsidiary protection, and EU citizens were not promoted. Projects for this target group were supported in five different fields of action: (1) integration and language; (2) integration and community; (3) intercultural dialogue; (4) indicators and evaluation methods to measure progress, adapt policies and measures, and facilitate coordination of comparative learning; and (5) national networking, exchange, and intercultural capacity building (http://www.bamf.de/ DE/DasBAMF/EU-Fonds/SOLID/EIF/eif-node.html).

<sup>&</sup>lt;sup>8</sup> See https://www.bmi.bund.de/DE/themen/migration/rueckkehrpolitik/rueckkehrpolitik-node.html.

able AMIF funds on this important migration policy. These AMIF funds will primarily be used to support the continuation and expansion of initiatives, particularly in the fields of better coordination of national measures to promote and repatriate people, and the networking of the actors involved at the federal, Länder, and local levels as well as of the NGOs. Additional support strategies addressing the voluntary return include: the need-based further development of the German REAG/GARP support program;<sup>9</sup> the stimulation of greater publicity for the possibilities of return support in Germany; and the creation and expansion of sustainable, social, and economic reintegration opportunities in the country of origin, etc.

<sup>&</sup>lt;sup>9</sup> With the Reintegration and Emigration Program for Asylum Seekers in Germany / Government Assisted Repatriation Program (REAG/GARP), the Federal Government and the Länder support persons in their voluntary return to their country of origin or in their onward migration to a host country – see http://www.bamf.de/DE/Rueckkehr/ FoerderprogrammREAGGARP/foerderprogramm-reag-garp-node. html.

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# Financial Conditions in the Euro Area

#### Nominal Interest Rates <sup>a</sup>



<sup>a</sup> Weighted average (GDP weights). Source: European Central Bank. © ifo Institute

In the three-month period from September 2019 to November 2019 short-term interest rates increased: the three-month EURIBOR rate amounted to – 0.40% in November 2019 compared to – 0.42 in September 2019. The ten-year bond yields declined from 0.23% in July 2019 to 0.07% in September 2019, while the yield spread increased from 0.35% to 0.40% between September 2019 and November 2019.

#### **Stock Market Indices**



Source: Deutsche Börse; Dow Jones; STOXX.

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The German stock index DAX increased in November 2019, averaging 13,201 points compared to 12,285 points in September 2019. The Euro STOXX also increased from 3,515 to 3,693 in the same period of time. The Dow Jones Industrial was not an exception: it also increased, averaging 27,815 points in November 2019, compared to 26,877 points in September 2019.

#### Change in M3<sup>a</sup>



<sup>a</sup> Annual percentage change (3-month moving average). Source: European Central Bank.

The annual growth rate of M3 stood at 5.6% in October 2019, unchanged from previous month. The three-month average of the annual growth rate of M3 over the period from August 2019 to October 2019 reached also 5.6%.

#### **Monetary Conditions Index**

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Note: MCI index is calculated as a (smoothed) weighted average of real short-term interest rates (nominal rate minus core inflation rate HCPI) and the real effective exchange rate of the euro. Source: European Central Bank; calculations by the ifo Institute.

Between April 2010 and July 2011, the monetary conditions index had remained stable. Its rapid upward trend since August 2011 had led to the first peak in July 2012, signaling greater monetary easing. In particular, this was the result of decreasing real short-term interest rates. In May 2017 the index had reached the highest level in the investigated period since 2004 and its slow downward trend was observed thereafter. Yet since October 2018 a gradual increase started and the index reached the highest level in October 2019 again, which is comparable to that of May 2017.

# **EU Survey Results**

#### **Gross Domestic Product in Constant 2010 Prices** Percentage change over previous year



Source: Eurostat.

According to the Eurostat estimates, GDP grew by 0.2% in the euro area (EA19), and by 0.3% in the EU28 during the third quarter of 2019, compared to the previous quarter. In the second quarter of 2019 the GDP had grown by 0.2% in both zones. Compared to the third quarter of 2018, i.e., year over year, seasonally adjusted GDP rose by 1.2% in the EA19 and by 1.4% in the EU28 in the third quarter of 2019.

#### EU28 Economic Sentiment Indicator Seasonally adjusted



In November 2019 the Economic Sentiment Indicator (ESI) increased slightly in the euro area (by 0.5 points to 101.3), and the EU28 (by 0.9 points to 100.0). In both zones the ESI has recently reached its long-term average.

#### EU28 Industrial and Consumer Confidence Indicators Percentage balance, seasonally adjusted



In November 2019, the industrial confidence indicator increased by 0.3 in both the EU28 and the euro area (EA19). The consumer confidence indicator also increased by 0.6 in the EU28 and by 0.4 in the EA19 in November 2019.

The industrial confidence indicator is an average of responses (balances) to the questions on production expectations, order-books and stocks (the latter with inverted sign).

b New consumer confidence indicators, calculated as an arithmetic average of the following questions: financial and general economic situation (over the next 12 months), unemployment expectations (over the next 12 months) and savings (over the next 12 months). Seasonally adjusted data.

#### EU28 Capacity Utilisation and Order Books in the Manufacturing Industry



Managers' assessment of order books reached - 18.8 in November 2019, compared to - 18.4 in October 2019. In September 2019 the indicator had amounted to - 18.0. Capacity utilization amounted to 81.1 in the fourth quarter of 2019, down from 81.6 in the third quarter of 2019.

# **Euro Area Indicators**

#### ifo Economic Climate for the Euro Area



2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 Source: ifo World Economic Survey (WES) IV/2019. © ifo Institute

The ifo Economic Climate for the euro area (EA19) fell significantly from – 6.7 in the third quarter to – 16.3 points in the fourth quarter of 2019. The assessment of the current situation has strongly deteriorated again, while economic expectations were more pessimistic compared to the third quarter of 2019.



Exchange Rate of the Euro and Purchasing Power Parity



2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 Source: European Central Bank; OECD; calculations by the ifo Institute. © ifo Institute

The exchange rate of the euro against the US dollar averaged approximately 1.06  $\ell \in$  between November 2016 and January 2017. (In October 2016 the rate had amounted to around 1.09  $\ell \in$ )

#### **Unemployment Rate**



Source: Eurostat.

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Euro area (EA19) unemployment (seasonally adjusted) amounted to 7.5% in October 2019, down from 7.6% in September 2019. EU28 unemployment rate was 6.3% in October 2019, stable compared to September 2019. In October 2019 the lowest unemployment rate was recorded in the Czech Republic (2.2%), Germany (3.1%), and Poland (3.2%), while the rate was highest in Greece (16.7%), and Spain (14.2%).

#### Inflation rate (HICP)





<sup>a</sup> Total excl. energy and unprocessed food. Source: Eurostat.

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Euro area annual inflation (HICP) was 1.0% in November 2019, up from 0.7% in October 2019. Year-on-year EA19 core inflation (excluding energy and unprocessed foods) amounted to 1.2% in October 2019, stable compared to September 2019.