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CONTENTS

Clean Energy Forum 2019 03

Alexandr Volkov

On November 29, 2019, the ENERPO Research Center at the European University at St. Petersburg held the Fourth International Clean Energy Forum. This year's forum brought together representatives of business, government and nonprofit organizations, as well as representatives of the academic community, in particular, to discuss education and awareness for sustainable development. This report presents the main statements of the conference experts, who addressed sustainable energy development and renewable energy education and sustainable development. This year, the forum discussed the practices of large cities and companies and examined communication issues for the propagation of practices in Russia.

Key words: Clean Energy Forum; Clean Energy; Climate Change; Energy Policy; Business; Energy Strategy; Russian Climate Policy

5th International Workshop on Economic Growth, Environment, and Natural 05 Resources

Ekaterina Savchenko

On May 31 and June 1, 2019, the Fifth International Workshop on Economic Growth, the environment and natural resources was organized by the European University at St. Petersburg (EUSP) and ETH Zurich. The workshop participants, which included eminent professors, associate and young researchers, discussed a wide range of topics related to the environment, climate and energy policy and economic growth at EUSP. This report summarises several noteworthy presentations by speakers at the event.

Key words: Climate Change; Climate Policy; Economic Growth; Energy Policy; Environment; Fossil Fuels; Natural Resources; Renewable energy; Sustainable development

Joshua R. Kroeker

07

This analysis paper explores the contours of German-Russian energy relations in recent years. As the result of political tensions in the international sphere, such as the ongoing Ukraine Crisis, German-Russian relations have been thrown into flux. Germany's ever-growing dependence on Russian natural gas has received local and international opposition. Nevertheless, German-Russian energy relations have remained stable and have even improved, with an increase in German imports of Russian gas and oil and a confirmation of future willingness on the Russian side to supply. As surveyed throughout this paper, German-Russian energy relations, evidenced by the final stages of the Nord Stream 2 project, symbolize a new level of cooperation between the two nations and indicate a dimension of resilience in the general relationship.

Key words: Energy Relations; Nord Stream 2; Gazprom; German-Russian Relations

China's Demand Impact on Eurasia Gas Pricing Tristan Kenderdine

China's investments in both Yamal-Nenets and Turkmenistan have the potential to transform global gas production into market-forced and commoditised trade. But ultimately China's and Russia's continued state dominance will mean that gas prices will remain a shadow commodity for the foreseeable future.

Key words: Arctic Ocean; China; Central Asia; Caspian Sea; Eurasia; LNG; Natural Gas

China's Belt and Road Initiative in Central Asia: A Case Study on Weaponised Interdependence 16 in Energy, Transit and Information Networks. Dana Rice

This exploratory research paper aims to further develop conversation around 'weaponised interdependence', a concept recently introduced by Henry Farrell and Abraham Newman. Although Farrell and Newman mention multiple actors that can weaponise interdependence, their research concentrated on the US. This paper therefore identifies a research gap on other potential weaponisers and the alternate forms of interdependence they may create. Drawing on semi-structured interviews with relevant officials and academics in Russia and Kazakhstan, this paper applies weaponised interdependence to the case study of China's Belt and Road Initiative in Central Asia. While suggesting that China, like the US, may have the potential to weaponise financial and information flows in the region (the forms of interdependence that Farrell and Newman focus on), this paper suggests that weaponised interdependence may also be applicable to physical infrastructure such as roads and pipelines. Expanding on Farrell and Newman's concept of the 'disruptive actor', the paper also explores the potential role Russia could play within China's network.

Keywords: Belt and Road Initiative; Central Asia; New Interdependence Approach; Sino-Russian Relations; Weaponised Interdependence

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CONFERENCE REPORT

WORKSHOP REVIEW

German-Russian Energy Relations: Challenges of 2019 and a Move towards the Future

ANALYSIS

ANALYSIS

ANALYSIS

WORD FROM THE DIRECTOR



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CLEAN ENERGY FORUM 2018: ENERGY AND CLIMATE CHANGE: RISKS, STRATEGIES AND POSSIBILITIES

Alexandr Volkov

Abstract

On November 29, 2019, the ENERPO Research Center at the European University at St. Petersburg held the Fourth International Clean Energy Forum. This year's forum brought together representatives of business, government and nonprofit organizations, as well as representatives of the academic community, in particular, to discuss education and awareness for sustainable development. This report presents the main statements of the conference experts, who addressed sustainable energy development and renewable energy education and sustainable development. This year, the forum discussed the practices of large cities and companies and examined communication issues for the propagation of practices in Russia.

Keywords: Clean Energy Forum; Clean Energy; Climate Change; Energy Policy; Business; Energy Strategy; Russian Climate Policy

The Fourth International Clean Energy Forum was held by many countries are now taking initiatives to promote clean the European University at St. Petersburg's ENERPO Re- and renewable energy, decarbonisation and consumer besearch Center on November 28, 2019. haviour changes.

The Clean Energy Forum was established in 2015. In de- At the Clean Energy Forum, participants discussed Russigning the forum program, the ENERPO Research Center sian incentives for combatting global climate change. Most pays special attention to creating conditions for an open speakers noted Russia's ratification of the Paris Agreement dialogue between representatives of energy companies, the and the possibility of low-carbon business development. academic community, non-profit organizations and govern- Since the Paris Agreement was adopted in 2015, the level ment authorities. of corporate commitments to mitigate and combat climate change has increased significantly. Environmental and so-At the previous forums in 2017 and 2018, we discussed the cial actions taken within the framework of corporate social energy agenda, decarbonisation and climate strategies of responsibility (CSR) and the concept of sustainable develbig cities. This year we reviewed in detail the successful opment were among the topics of the first session of the Forum.

practices and cases of large cities and companies. In addition, we discussed the communication and dissemination of successful practices - how to make these practices and In presenting the concept of sustainable development and cases known and promote their wider application in Russia. the corporate strategy of their companies, participants The 2019 Forum contained two sessions:

- 'Clean energy and sustainable development';

- 'Education for sustainable development'.

This report is written under the Chatham House rules, and therefore names are not disclosed. Should the reader need any additional information, please contact the ENERPO Research Center.

CLEAN ENERGY AND SUSTAINABLE DEVELOPMENT

The first session was devoted to successful cases in clean energy and sustainable development, especially the introduction of green building standards and the use of green financing instruments. The session was moderated by Oleg Pluzhnikov (Climate Partnership of Russia).

Dear Readers,

I know that all of you are feeling the impact of the COVID-19 health crisis in one way or another. Its economic impact is challenging for many organisations, including us.

However, I know that at the ENERPO Research Center, even if there are to be more bumps along the road, we will be fine, and our work will continue to grow and develop. The issues of energy and climate politics, green growth, and sustainable economic development remain as crucial as ever to analyse and solve. We will have to be even more adaptive and innovative in our approach to stay at the top of our game.

In the past year, we successfully organised our Fourth Clean Energy forum, which has grown to become a fundamental medium for dialogue on Russian and international clean energy.

Indeed, we continue to plan, study, and work towards a brighter and greener future. We are excited about new opportunities to come, whilst remaining unwavering in our resolve to provide thorough, objective, useful information and debate on clean energy and energy politics in general.

I thank everyone for staying with us, contributing to our Journal, working with our research centre and the European University, and for sending us messages of your support. Stay safe!

> Yours truly, **Maxim Titov** Executive Director, ENERPO Research Center

CONFERENCE REPORT

demonstrated that firms understand climate change issues and opportunities better than often expected. Many large Russian and international corporations now demonstrate strong leadership in adapting their business models to environmental challenges.

KEY POINTS OF THE FIRST SESSION

Concentration of the efforts of government agencies of different countries and the international expert community on the climate agenda. The Russian Federation joined the Paris Climate Agreement in September 2019.

Setting targets for CO2 emissions reduction.

Application of requirements and sustainable development goals. Currently 151 financial institutions (under the man-The concept of sustainable development is a global trend: agement of more than \$30 trillion) have committed themselves to include environmental, social, and governance cluded that sustainable development and the transition (ESG) factors in the investment analysis and implementa- from traditional fuels to clean energy is a key mission of tion of the investment strategy.

Renewable energy sources. The investment attractiveness of the projects is conditioned by the state mechanism for The first session brought together a wide range of stakestimulating renewable energy sources.

The research, development and implementation of new technologies among corporations to reduce the effects they have on the environment.

EDUCATION FOR SUSTAINABLE DEVELOPMENT

Renewable energy sources and energy efficiency are becoming key economic drivers in many countries. One of the most important priorities for the development of these areas in Russia is education and awareness: training of professional engineering and management personnel as well as communication with the media and consumers. The invited experts discussed the main requirements for the development of educational programs in the field of renewable energy sources and energy efficiency to ensure and optimism that will enable them to act individually and long-term and sustainable growth of this market in Russia. The session was moderated by Maxim Titov (Executive Director, ENERPO Research Center of the European University In general, participants of the two sessions agreed that at St. Petersburg).

Representatives of the scientific community discussed topical issues of such educational programs around sustainable development. In defining their goals, many stressed the importance of promoting the ideas and principles of sustainable development at the federal, regional and local levels.

KEY POINTS OF THE SECOND SESSION

Education for sustainable development that enables the social transformation is needed to build socially equitable communities and achieve sustainable development goals.

Strategic principles for the education of specialists in the field of renewable energies should include knowledge of physical, mathematical and scientific disciplines, as well as knowledge of energy, construction, ecology and economics.

The goal of education for sustainable development is to advocate, connect and network to help all educators to integrate sustainable development goals and objectives into their own programs. The development of future-oriented thinking is a key challenge for education.

Education is central to efforts to develop and promote sustainable solutions to the development needs of both peoples and the planet.

CONCLUSION

As a result of the discussions, the forum's participants con- the Perm State Agro-Technological University.

business, government and society, both in Russia and internationally.

holders who focused on the implementation of green standards and the use of green financing instruments. Business representatives demonstrated case studies and strategies in relation to environmental issues and sustainable development. In many cases, actions in the area of sustainable development and renewable energy are already being undertaken and effectively implemented at the corporate level.

The second session brought together a circle of academics and educational organizations. The main conclusion of the session was that education allows people to understand the powerful factors that drive unsustainable lifestyles; it enables them to understand the nature and scope of sustainable development challenges; it provides an opportunity to develop the critical, innovative and creative approach needed to find new, more effective solutions; and it can help people to develop the confidence, organizational skills collectively for the benefit of all.

meetings such as the Clean Energy Forum are necessary to promote dialogue at all levels and across sectors, to highlight actions undertaken, to share best practices, and, finally, to understand how to mobilize actors to address climate change. In this regard, one of the main objectives of ENERPO is to promote dialogue in order to improve decision-making on the issues of clean energy and education for sustainable development.



Alexandr Volkov

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5TH INTERNATIONAL WORKSHOP ON ECONOMIC GROWTH, ENVIRONMENT AND NATURAL RESOURCES

Ekaterina Savchenko

Abstract

On May 31 and June 1, 2019, the Fifth International Workshop on Economic Growth, the environment and natural resources was organized by the European University at St. Petersburg (EUSP) and ETH Zurich. The workshop participants, which included eminent professors, associate and young researchers, discussed a wide range of topics related to the environment, climate and energy policy and economic growth at EUSP. This report summarises several noteworthy presentations by speakers at the event.

Keywords: climate change, climate policy, economic growth, energy policy, environment, fossil fuels, natural resources, renewable energy, sustainable development

The 5th International Workshop on Economic Growth, Envi- Another aspect of natural resources was explored by Elise ronment and Natural Resources took place at the European Grieg from ETH Zurich. Having used advanced econometric University at St. Petersburg (EUSP) on May 31st and June tools in her project on 'Resource Discoveries and Duration 1st, 2019. The workshop was organized by the Department of Autocratic Leadership, the researcher revealed some unof Economics at EUSP and the Chair of Economics/Resource expected effects of natural resource wealth on autocracies Economics at ETH Zurich to promote the use of advanced and probability of coups against autocratic leaders. She economic theory in the fields of growth, environment and identified that leaders face a lower hazard of having a coup natural resource economics. More than 40 professors and in a country following an oil discovery, and, moreover, coups researchers from universities including the University of that already started are less likely to succeed if a leader has Oxford, Yale University, Duke University, Paris School of Eco- had an oil discovery. nomics, Católica Lisbon School of Business & Economics and Vrije Universiteit Amsterdam participated in the event CLIMATE POLICY RISKS OF THE EURO AREA and presented their research projects.

ENERGY SOURCES

Veronika Stolbova from ETH Zurich presented her research INVESTMENTS IN TRADITIONAL AND RENEWABLE on 'Climate Policy Risks of the Euro Area: Financial System and Real Economy' which she conducted with Stefano Battiston. They investigated the connection between the European financial system and low-carbon transition and Renewable energy and its impact on the global energy estimated the potential financial losses of the Euro Area balance became a major discussion topic of the workshop. (EA) in a case when climate policies would be introduced In one notable presentation on 'Renewable Energy Impletoo late and too suddenly instead of early and gradual mentation and Stock Development, Inge van den Bijgaart implementation. The authors drew an integrated model from the University of Gothenburg drew attention to the of interrelations between participants of the European fifact that although fossil energy is associated with envinancial system (for example, banks, investment and penronmental externalities investments and has a significant sion funds) in accordance with the share of their portfoeffect on climate change, investments in fossil fuels still lio directly or indirectly invested in fossil fuel companies exceed investments in renewables. Moreover, the results since the latter are exposed to losses because of climate of economic model implementation used in her research policies. According to the research results, banks are only showed that fossil fuels will continue to be a major source slightly affected by climate policy while insurance and penof energy in foreseeable future, hence there are large efsion funds bear a large exposure to climate-relevant secforts in exploration and development of new fields. tors - more than 22% of their equity and 14% of the total assets. Stolbova and Battiston estimated that direct exposure of the EA economy to fossil fuels is about 50% of the total assets in climate sensitive sectors and about 1.5% in overall. Potential losses of European firms from too-latetoo-sudden climate policies are equal to 0.5 trillion Euros.

RESOURCES AND DURATION OF AUTOCRATIC LEADERSHIP

WORKSHOP REVIEW

Tony Smith from Yale University demonstrated the consequences of climate change around the world through interactive maps covering the next 50 years and further into the future in accordance with the forecasts of specialists. He argued that while the majority of countries suffer physically and financially from climate change, several countries such as Russia or Canada can potentially benefit from it through better weather conditions and increased GDP.

CLIMATE CHANGE & POPULATION GROWTH

One of the workshop organizers and a member of the event's scientific committee, Lucas Bretschger in his presentation 'Malthus in the Light of Climate Change' investigated the widely discussed relationship between climate change and population growth. Although there are opinions among economists that such a relationship exists. Lucas Bretschger showed that climate change remains independent of population growth and there is no causality between these events.

The research projects summarised here offer just a small glimpse into the many fruitful sessions held at the workshop. During the 2 days of the event, guests listened to and discussed around 30 presentations. The next International Workshop on Economic Growth, Environment and Natural Resources will be held at EUSP later in 2020.

GERMAN-RUSSIAN ENERGY RELATIONS: CHALLENGES OF 2019 AND A MOVE TOWARDS THE FUTURE

Joshua R. Kroeker

Abstract

This analysis paper explores the contours of German-Russian energy relations in recent years. As the result of political tensions in the international sphere, such as the ongoing Ukraine Crisis, German-Russian relations have been thrown into flux. Germany's ever-growing dependence on Russian natural gas has received local and international opposition. Nevertheless, German-Russian energy relations have remained stable and have even improved, with an increase in German imports of Russian gas and oil and a confirmation of future willingness on the Russian side to supply. As surveyed throughout this paper, German-Russian energy relations, evidenced by the final stages of the Nord Stream 2 project, symbolize a new level of cooperation between the two nations and indicate a dimension of resilience in the general relationship.

Key words: Energy Relations; Nord Stream 2; Gazprom; German-Russian Relations

In 2020, Germany continues to represent the largest ener- respectively³. In fact, the German Ministry for Economic Afgy consuming economy in the European Union. As a result fairs and Energy published a report in August of 2019 that of low national production and its move away from coal, delineates Germany as seventh-largest natural gas con-Germany is increasingly dependent on natural gas. In 2019 sumer in the world⁴. Though crude oil remains Germany's alone, Russia exported over 200 billion cubic metres (bcm) primary energy source, amounting to 30.5% of German enof natural gas to the European Union and Turkey, with Ger- ergy consumption in 2017, Russia is also Germany's primary many importing over a quarter of that. Germany today re- supplier of crude oil. Nevertheless, with Germany's reliance mains the largest importer of Russian natural gas in the on Russian natural gas and the challenges surrounding world¹. Even with improving relations with Russia's eastern natural gas trade, relations in this sphere have been much partners such as China, the European and German export more political in recent years.⁵ markets remain the foundation of Russia's energy exports, Dutch Shell, and OMV among the other investors. As natural gas represents the fossil fuel with the lowest specific CO2

constituting no less than 70% of Russia's energy exports. As Germany's need for natural gas grows at roughly three 2019 has seen many changes in Russia and Germany's en- per cent per year and Germany's energy relations with Rusergy relations, with Nord Stream 2's deadline approaching, sia become ever more important, new solutions to provide political challenges from across the Atlantic affecting the for this demand have been undertaken.⁶ The largest exam-Russian-German deal, and the continuation of obstacles in ple is the Nord Stream 2 pipeline from Western Russia to Ukraine. This article will therefore briefly analyse some of Northern Germany, the building of which began in 2005 the events, difficulties, and changes that occurred within and over 75% was completed by August 2019. Gazprom the sphere of German-Russian energy relations in 2019 and owns 51% of the Nord Stream project, with France's Engle, consider the prospects for the near future. Russia's natural gas producer, Gazprom, is the lynchpin for emissions, it continues to grow as an alternative to more Russian energy exports to the European Union and Germa- traditional and more harmful fuels. With the demand for ny. Accounting for over 5% of Russia's gross domestic prod- natural gas therefore increasing world-wide, Nord Stream 2 uct (GDP), the Kremlin-controlled corporation continues to will provide an additional 55 bcm of natural gas annually to grow with increasing access to the German energy market.² the European and German markets.⁷ way of its completion, Though by no means the only Russian energy player in Ger- the wavering of Denmark to approve a section of the pipemany, Gazprom has and continues to define German-Rus- line to be built within its sovereign territory, was resolved. sian energy relations. In 2018 alone, Germany imported 3 At the time of writing, the statistics for 2019 were not yet published; Gaz-58.5 bcm from Gazprom, compared to the 12.91 bcm, 22.77 prom Export, "Delivery Statistics." bcm, and 23.96 bcm imported by France, Italy, and Turkey ⁴ Federal Institute for Geosciences and Natural Resources (2018) 'BGR

1 Gazprom Export (2018) Delivery Statistics [Online]. Available at: http:// www.qazpromexport.ru/en/statistics/.

2 Soldatkin, V. (2019) 'Russian Record Gas Sales to Europe Help Gazprom Profits Double', Reuters [online]. Available at https://www.reuters.com/article/ us-gazprom-results/record-russian-gas-sales-to-europe-help-gazprom-profits-double-idUSKCN1S51DU (accessed: December 25, 2019).

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ANALYSIS

Energy Study 2018, Federal Ministry for Economic Affairs and Energy [online]. Available at: https://www.bar.bund.de/EN/Themen/Energie/Downloads/ energiestudie 2018 en.pdf? blob=publicationFile&v=3 (accessed December 26, 2019)

⁵ Ibid.

⁶ Ibid

⁷ Nord Stream 2, Die Pipeline auf einen Blick [Online]. Available at: https:// www.nord-stream2.com/de/pdf/document/198/.

Denmark approved of the pipeline in October 2019.⁸ The in stable export earnings. The bottom line is that Russia pipeline is set to be completed in the early months of 2020 would lose, not gain, if gas supplies were cut off."¹¹ Although with gas flowing shortly thereafter.

ceived much political criticism from both within Germany the threat is most unrealistic. Nevertheless, challenges have and abroad, which has ultimately begun to strain relations reached the European level in Brussels. Unexpectedly, howboth between Berlin and Moscow as well as between Ber- ever, the opponents of Nord Stream 2 and the German-Ruslin and Washington. Many observers see the pipeline as sian relationship are not the key players in the pipeline's a threat to German energy security which will make both construction. Rather, for example, the Baltic states are chal-Germany and the European Union more dependent on Rus- lenging the pipeline in Brussels, afraid that the pipeline is sian natural gas.⁹ The political effects of the planned pipe- indeed an act of Russian encroachment in the European line have therefore been difficult for both Berlin and Nord Union and who fear further dependence on Russia. As the Stream 2 itself. As Berlin tries to balance pipeline benefits Baltic states push back against the German-Russian deal on the one hand and EU integration and solidarity on the because of political consternation, the Eastern European EU other, it has found itself in a sensitive predicament. Mos- members perceive a greater threat as a result of the deal cow has remained an adamant proponent of the project. Therefore, if Berlin is able to navigate the delicate situation The second dimension of the challenges faced by Germasurrounding its energy policy and its relationship with Rus- ny is therefore the role played by the traditional 'transit' sia – all of which are embodied in the Nord Stream 2 plan nations in Eastern Europe, particularly Ukraine and Poland. - then the challenges presented in 2019 will be of little Traditionally, Ukraine and Poland - among other Eastern consequence in the growing energy relations between Ger- European states – have benefited from allowing Russia to many and Russia. In addition, this essay will demonstrate transit gas through pipelines to Germany and other Eurothat German energy policy and relations with Russia are not pean states via these countries. Ukraine in particular has determined solely by Germany itself, but also by a number benefited from cheap gas prices as part of its past tranof actors at the EU and international levels, thereby making sit deals. The weakening of Russian-Ukrainian relations, direct relations between Germany and Russia more difficult the Euromaidan revolution in 2014, and the war in Donand multidimensional.

The first dimension of Germany's tricky balancing act is na- gas transit deals, with fears that gas will stop flowing from tional and European critique. The German government sees Russia through Ukraine as early as 2020. The existence of it as necessary to find alternative sources of supplying its Nord Stream 2 has compounded those fears, as the pipeneed for energy. As Germany intends to opt out of atomic line effectively bypasses traditional transit routes and goes and coal power in the near future, its dependence on oth- directly from Russia to Germany via the Baltic Sea.¹² Moser energy forms grow. As Germany will not yet be able to cow would save billions of Euros per year if it were able to rely fully on renewable energies anytime in the immediate bypass Ukraine directly. Ukraine fears that it would not be future, natural gas comes to play a more vital and ultimate- able to heat homes during the winter. All this has put Berlin ly indispensable role.¹⁰ A common concern amongst both in an awkward situation: Germany needs to support a com-German and European observers is that with growing Ger- promise between Russia and Ukraine in the gas sector, as it man dependence on Russian gas, Russia would be able to cannot politically abandon Ukraine, a state whose indepenuse this as political leverage over Germany. In fact, this has dence Germany has adamantly supported since the 2014 been a common concern for many years and is by no means Revolution. Yet Germany can also not be seen to abandon new in 2019. This argument of Russia 'turning off the tap' its responsibilities to the Nord Stream 2 project. Despite feeds into general fears of a Russian threat to Germany and this, energy experts such as University of Oxford's Simon Pi-European energy security in general. However, Josef Auer, rani predict that Russia and Gazprom will continue to need energy researcher at DB Research, argues guite insightful- additional pipeline capabilities after the opening of Nord ly that "Russia has been supplying natural gas to Europe, Stream 2, thereby keeping Ukraine effectively in the game' especially Germany, for 46 years and has never turned off for the near future.¹³ It is therefore not of great surprise the gas tap. And therefore, the country [Russia] is interested that 2019 saw one of the greatest breakthroughs in Eastern

10 All translations undertaken by the author; Bleiker, Carla, Sherwin, Emily, Sheiko, Iurii, Hasselbach, Christoph and Böhme, Henrik (2019) 'Nord Stream 2: Der ewige Zankapfl,' Deutsche Welle [online]. Available at: https://www. dw.com/de/nord-stream-2-der-ewige-zankapfel/a-51270076 (accessed December 30, 2019).

this author acknowledges the potential threat posed by the possibility of Russia stopping the flow of gas towards Eu-The recent successes of Nord Stream 2, however, have re-rope, the act itself would be so self-damaging to Russia that

> bass, however, have resulted in turbulence between Russia and Ukraine that has had negative effects on regional European gas transit. In fact, only a week before the writing of this article, and after multilateral talks with Ukraine, Russia, and the EU in Berlin, Ukraine and Russia signed a 11 Ihid

12 Vitrenko, Y (2019) 'Neftogaz of Ukraine: What are we fighting for?' Politico [online]. Available at: https://www.politico.eu/sponsored-content/naftogaz-ofukraine-what-are-we-fighting-for/ (accessed January 5, 2020). 13 For a more detailed analysis of Ukraine's role in gas transit to Europe and the developments post-2019, cf., Pirani, S. (2018) 'Russian Gas Transit through Ukraine after 2019: The Options, Oxford Energy Insight 41 [online]. Available at: https://www.oxfordenergy.org/wpcms/wp-content/uploads/2018/11/Russian-gas-transit-through-Ukraine-after-2019-Insight-41. pdf?v=3e8d115eb4b3

gas transit deal that will continue to see Russian gas flow "Germany is correctly opting out of nuclear and coal energy through (and to) Ukraine until 2025. This had immediate in the next few years. Then we need the pipeline for the effects of European market gas rates, as fears of disruption future energy supply."¹⁹ For the most part, she has remained were resolved.¹⁴ Though both Moscow and Kyiv undoubted- unwavering in her stance towards the construction of Nord ly benefit from the deal, Germany is likely the real winner, as Stream 2. Yet 2019 has seen the most difficulties in realiz-Berlin no longer has the responsibility to protect Ukraine's ing the project at an international level. energy interests resting on its shoulders.

Washington sees Germany's dealings with Russia as a This matter of transit routes has also resulted in attempted threat to German and European security. Moreover, the Unitchallenges in Brussels in 2019 by Poland, which continue ed States sees Europe as a market to export its – more exto threaten the future of Nord Stream 2. Similar to Ukraine, pensive – liquified natural gas (LNG). The German-Russian Poland benefits from the transit fees that it levies over deal presents a significant challenge to the American plan, gas transported through its territory to the rest of Europe; as gas imported from Russia is both cheaper and easier to Nord Stream 2 could effectively devastate Poland's reve- obtain via the pipeline. For the USA, as the US ambassanue streams that come from current transport.¹⁵ Poland has dor to Germany wrote in early 2019, "Nord Stream 2 would both fined the French energy firm Engie for its involvement make Europe even more vulnerable to Russian energy in the Nord Stream project and has pushed for further EU blackmail."²⁰ In mid-December 2019, the United States imlegislation limiting the jurisdiction of third-party pipelines posed sanctions on corporations and even persons involved in the European Union.¹⁶ Nevertheless, the German Bunde- in the construction of Nord Stream 2.²¹ The effectiveness stag gave the pipeline the green light in 2019, effectively of the sanctions are debatable, however, as the pipeline is bypassing the opposition in Brussels.¹⁷ Though the pipeline 86% complete as of the end of December 2019. Both Gerand German-Russian relations remain controversial at both man and Russian political representatives have decried the local and European levels, Germany has successfully exe- sanctions, such as German Foreign Minister Heiko Maas, cuted the Nord Stream 2 plan on its part. The December arguing that Europe's energy future needs to be decided 2019 Ukrainian-Russian transit deal will likely help to dis- in Europe and not in the US²² Whether American sanctions pel fears amongst the Eastern European EU members such will have a concrete effect on German-Russian relations as Poland, which could ultimately result in less opposition and the Nord Stream project will be seen in 2020. Their from those parties to the project. Such a possible outcome existence and the threat they represent are, nonetheless, would have concrete positive effects on the German-Rus- evidence of how political Germany's energy policy has besian energy relations in 2020 and the future. come in international relations; the United States may or may not be able to truly pressure the Germans and Russian,

At the time of writing, the most recent challenge to the Nord but in any case they have demonstrated that they are a key Stream 2 project and German-Russian energy relations in player in Europe's energy policy. general comes as an extraterritorial political attempt to inhibit the success of the project. The final dimension of In conclusion, this short viewpoint essay has ventured to opposition to German-Russian energy relations is the chal- analyse some of the components affecting the trajectory lenges presented from across the Atlantic from American of German-Russian energy relations in 2019. For the most President Donald Trump. Trump's opposition to the project, part, Russian-German energy relations have remained stahowever, is by no means new to 2019. In a NATO meeting in ble and have even improved, with an increase in German 2018, for example, US President Donald Trump guipped that imports of Russian gas and oil and a confirmation of fu-Russia is controlling Germany through the pipeline and that ture willingness on the Russian side to supply. Aside from 'making pipeline deals with Russia' will not be condoned by political tensions in other spheres such as the continuing the United States.¹⁸Nevertheless, German Chancellor Ange- Ukraine Crisis, the final stages of the Nord Stream 2 project la Merkel has stood her ground with regards to the pipeline. symbolize a new level of cooperation between the two na-In a statement from December 2019, Merkel asserted that tions. Nevertheless, the German-Russian relationship faces opposition on all fronts, including at the local, European, 14 (2019) 'Ukraine and Russia sign Deal to Continue Gas Supply to Europe,' and even Transatlantic levels. The German-Russian Nord Financial Times [online]. Available at: https://www.ft.com/content/ce517960-Stream deal demonstrates that bilateral relations between 231f-11ea-92da-f0c92e957a96 (accessed December 27, 2019). 15 (2019) 'Poland's Regulator Slaps Fine on Engie over Nordstream Project', the two countries – in a field that would benefit from being

Financial Times [online]. Available at: https://www.ft.com/content/5718b65a-021e-11ea-b7bc-f3fa4e77dd47 (accessed December 27, 2019). 16 Ibid; Dezem, Vanessa and Krukowska, Ewa (2019) 'Nord Stream 2 Faces Hurdles as Germany Dismisses Waiver Plan', Bloomberg [online]. Available at: https://www.bloomberg.com/news/articles/2019-11-07/nord-stream-2-faces-hurdles-as-germany-dismisses-waiver-plan (accessed December 30, 2019). 17 Deutscher Bundestag (2019) Bau der Gaspipeline Nord Stream 2 mehrheitlich begrüßt [Online]. Available at: https://www.bundestag.de/dokumente/ textarchiv/2019/kw07-de-aktuelle-stunde-nord-stream-592870 (accessed January 2, 2020).

^{8 (2019) ,}Dänemark genehmigt Bau der Nord Stream 2⁺, Zeit Online [online]. Available at: https://www.zeit.de/politik/ausland/2019-10/nord-stream-2daenemark-ostsee-gaspipeline-bau-genehmigung (accessed February 29, 2020)

⁹ Keating, Dave (2018) 'How Dependent is Germany on Russian Gas?' Forbes [online]. Available at: https://www.forbes.com/sites/davekeating/2018/07/19/ how-dependent-is-germany-on-russian-gas/#79f409153b48 (accessed December 30, 2019).

¹⁸ Keating, Dave (2018) 'How Dependent is Germany on Russian Gas?' Forbes [online]. Available at: https://www.forbes.com/sites/davekeating/2018/07/19/ how-dependent-is-germany-on-russian-gas/#79f409153b48 (accessed December 30, 2019).

¹⁹ Keating, Dave (2018) 'How Dependent is Germany on Russian Gas?' Forbes [online]. Available at: https://www.forbes.com/sites/davekeating/2018/07/19/ how-dependent-is-germany-on-russian-gas/#79f409153b48 (accessed December 30, 2019).

²⁰ Bleiker, Carla, Sherwin, Emily, Sheiko, Iurii, Hasselbach, Christoph and Böhme, Henrik (2019) 'Nord Stream 2: Der ewige Zankapfl,' Deutsche Welle [online]. Available at: https://www.dw.com/de/nord-stream-2-der-ewigezankapfel/a-51270076 (accessed December 30, 2019).

²¹ Ellyatt, Holly (2019) 'US Greenlights Sanctions on Mega Russia-EU Gas Pipeline, but its Probably too Late, CNBC [online]. Available at: https:// www.cnbc.com/2019/12/18/us-sanctions-on-nord-stream-2-pipeline.html (accessed December 30, 2019). 22 Ihid

apart from politics – are largely scrutinized and at times threatened by third parties. This does not imply that future German-Russian energy relations are doomed to fail. In 2020 and beyond, Germany and Russia will need to continue to navigate tricky waters if their energy partnership is going to grow. The final implementation of Nord Stream 2 will be evidence of the success of mutual cooperation in the fields of gas and energy. If 2019 is any indication of the future to come, the German-Russian relationship will benefit from increased bilateral cooperation, even in the face of systemic challenges and opposition from all sides.

CHINA'S DEMAND IMPACT ON EURASIA GAS PRICING

Tristan Kenderdine

Abstract

China's investments in both Yamal-Nenets and Turkmenistan have the potential to transform global gas production into market-forced and commoditised trade. But ultimately China's and Russia's continued state dominance will mean that gas prices will remain a shadow commodity for the foreseeable future.

Key words: Arctic Ocean; China; Central Asia; Caspian Sea; Eurasia; LNG; Natural Gas

Natural gas is a product highly amenable to commodifica- This has the potential to bring the Eurasian gas pole more tion. And yet everywhere its extraction, transport, and con- into line with Qatar and Australia, the other two global LNG sumption is structurally determined and structurally priced. export players. The Arctic investment developing multiple Without markets to set prices, producers are stuck with end- new gas corridors from the Caspian Rim and Eurasian Arctic to-end contracts that usually favour the buy-side. China en- economies should move natural gas closer to becoming a tering the Eurasian gas buy-side market has the potential to fungible commodity. Opening the Caspian Sea and Eurasian change the way that gas is priced, and consumed, globally. Arctic gas fields to China and Europe and wider maritime LNG fleet development also has the potential for global gas China's entry into Eurasian gas fields via the Arctic Ocean market integration.

and Gulf of Ob', effectively creates five main natural axial arcs in Eurasia, centred geopolitically on the Caspian Sea The effect of marketising a price for fungible LNG could Rim economies. The four extant gas axes from the Caspian open new price-setting mechanisms for the existing Eurare i) south to north to Russia, ii) east to west to the Black asian land-power gas-producing axes. Price institutions on Sea and Europe, iii) west to east to China's Xinjiang and iv) ocean-transport LNG would serve to smooth prices across north to south to the Indian Ocean.¹ The Yamal Nenets LNG all the four major gas-consuming regions of Europe, Rusproject adds a fifth, a lateral axis across the Arctic Ocean. sia, East Asia, and the Indian Ocean economies. This would change the institutional dynamics of the small Eurasian China's Caspian Sea pipeline developments along the west hydrocarbon exporters—Turkmenistan, Azerbaijan, Uzbekito east axis already dramatically change the structural cal- stan, and Kazakhstan – as well as the transit economies of culus for regional gas delivery. Economies like Turkmen- Georgia, and Turkey while completely transforming the ecoistan had to previously rely on prices set by the Russian nomic extraction industrial institutions and architecture of buy-side, meaning Russia could, and did, buy Turkmenistan the Eurasian Arctic.

gas cheaply and sell Russian gas to Europe at a premium.² The introduction of China to the mix gave Turkmenistan the The east-west Azerbaijan-Georgia-Turkey axis, the Ruspossibility of a better deal, even if trade is still point-to- sia-Georgia-Armenia-Iran-Turkmenistan axis, the west-east point contracts with state-owned enterprises.

Arctic Ocean could also serve to further marketise the price of gas. The existing Yamal LNG operation and the expanded Arctic LNG 2 project create a new gas pole in the Eurasian energy architecture.³ If previous Eurasian gas axes were dependent on landlocked geographies, the Arctic project and advances in LNG transport technology bring Eurasian gas to the United States and China. Considering that the largest Asian markets across a new ocean.

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ANALYSIS

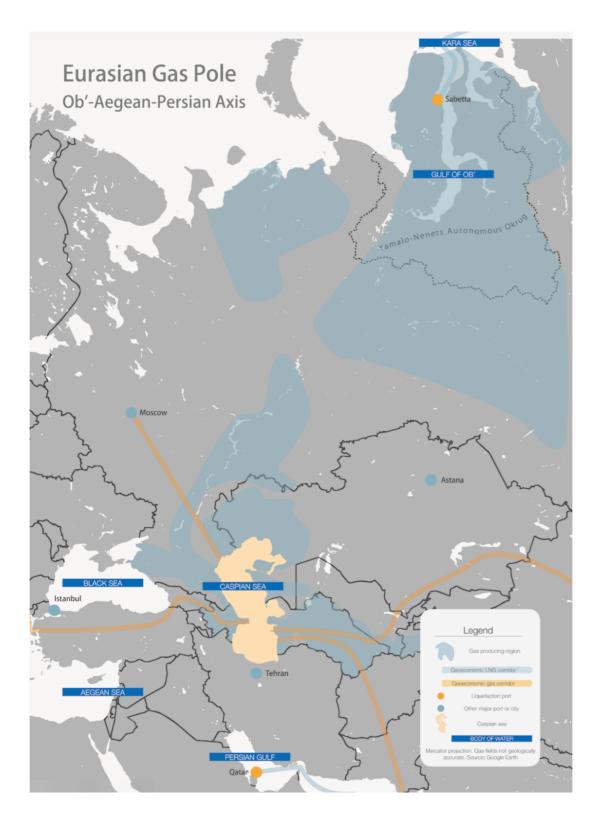
Turkmenistan-Uzbekistan-Kazakhstan axis as well as the wider China-Russia, Russia-Europe and US-Eurasia frictions Development of a parallel north to east gas axis across the all come together along a meta axis from the Gulf of Ob' to Turkey's Aegean Coast and the Persian Gulf.

> The development of this omnidirectional Ob'Aegean gas axis has at least as much power to change global gas geopolitical dynamics as the shale gas and LNG revolutions in gas transit corridor is already Qatar to Japan-beyond the influence of the US, Russia or China-the Eurasian gas meta axis does not have a natural monopoly. Multiple gas poles and multiple transport axes are more likely to result in eventual commodification of gas prices.

¹ Petersen, A. 2016. Integration in Energy and Transport: Azerbaijan, Georgia and Turkey. Lanham MD: Lexington Books.

² Grigas, A. 2017. The New Geopolitics of Natural Gas, Cambridge MA: Harvard University Press.

³ Novatek. 2020. Arctic LNG 2 is another LNG production-related project of NOVATEK. Available at <http://www.novatek.ru/en/business/arctic-lng/>.



The opening of west-east pipelines from Turkmenistan-Uz- sia, east-west to Europe, west-east to China and possibly bekistan-Kazakhstan to China demonstrate the possibility soon north-south to India through Iran and the Persian Gulf. of creating a gas pole centred on the Caspian Sea which Opening these gas geographies to multiple buyers is likecan begin to more clearly connect to global markets and ly to result in greater commodification of natural gas and free itself from the older south-north axis of patron-client movement towards a market price. relationships with Moscow. Chinese demand was the factor driving Turkmenistan to shift gas export-dependency Building extraction, liquefaction, refining, pipeline and shipaway from Russia. This means that the Caspian Sea natural ping infrastructure is not simply a geographic or economic gas producing economies can then begin to think seriously challenge though. Markets are connected through instituabout being able to choose to supply south-north to Rus- tions, and polities are formed, maintained and changed by

virtue of institutional interrelationality. China⁴ SOEs like velopment of institutional, infrastructural, supply and prices China National Petroleum Corporation are likely to have of natural gas. much weaker integrative force than institutions on the east-west axis from the Caspian Rim economies towards China's domestic policy developments though point to-Europe. This weak institutional integration on the China de- wards an institutional path to marketisation reform.⁶ There mand-side and the inherent structural problems with the is ongoing institutional friction there between the downseparate South Caucasus and Turkish economic institutions stream consumer delivery system and the upstream strucmean that it is very difficult to think of a contiguous eco- tural system. This includes establishing a new state-owned nomic integration in energy transport and security in the enterprise to oversee the gas pipeline infrastructure pre-Caspian Sea region. So while the Ob'Aegean meta axis still viously owned by the big three hydrocarbon SOEs, CNPC, has the potential to marketise the global gas market, inher- Sinopec and CNOOC⁷, and the opening of new west-to-east ent institutional limitations are likely to slow any possible pipeline infrastructure such as the Power of Siberia pipeeconomic integration necessary for this to happen. line.⁸ There is also considerable institutional innovation in the midstream storage and transport systems on the China Central Asian gas suppliers on the old south-north axis to side. But ultimately, the trend of gas price reform in China Russia are tired of dependence on Gazprom. Gazprom's re- points towards a market price developing in China's own fusal to offer the European price of gas, at which it resells domestic consumer markets, rather than in any internation-Central Asian gas remains a sore point in the region. And al contract competition. Such a development would likely Russia's perceived use of geopolitical control of infrastruc- fold back upstream and impact point-to-point pricing conture to ensure supply or to deny purchases pushed Turk- tracts.

menistan to look for a better deal in China. Uzbekistan and Kazakhstan followed suit and the pipeline infrastructure While China-Russia-US traditional energy geopolitics looks to simply move into new geographies and oceanographies, which had been built to transit through Russia and eventually to Europe, was turned towards the East, and Asian increased economic integration in the Caspian Sea economarkets. This supply to China is crucial to China's energy mies has the potential to subvert the extant regional geosecurity and regional development goals in Xinjiang, thus economics and turn the regional economies themselves the stakes for China are higher, and hopefully for Central into serious players capable of marketising traditional gas supplies by simply opening their markets to more buyers. Asians, so will the price be.

The idea of marketised LNG pricing though is really caught Turkmenistan with its avowed foreign policy of neutrality in a world of land-sea power geopolitical relationships in and isolation contributes most strongly to this disintegrous Eurasia.⁹ This is more likely to play into a Russian recon-Central Asian gas region as China works to open the westception of Eurasianism and a Eurasianist economic integraeast corridor. The west-east axis of Turkmenistan-Uzbekition than to benefit China, the EU or the US.¹⁰ The Yamal stan-Kazakhstan suffers from lack of foreign investment Nenets project, the Kamchatka LNG transshipment port and is dependent on national oil companies, or their gas project¹¹, the development of the Northern Sea Route for subsidiaries such as Gazprom Stroitransgaz, CNPC, and Ka-Arctic shipping transport, and the possibilities of Greenland ztransgaz.⁵ China institutional integration along this gas LNG production are all important to contributing to a globcorridor could help to develop a regional institutional infraal gas price commodification. But these developments too structure, where Central Asian energy developed has been defined by weak institutional penetration and consequently are likely to fall into the point-to-point contract system and perpetuate the state control of gas supplies into the new weak regional integration. Conversely in the South Cauca-LNG shipping transport sector, rather than move towards sus gas fields, transport and market opening are more diversified and responsive to outside markets and demonstrate market price-setting. a greater level of transnational actor integration. Central Gas should be a commodity that responds to internation-Asian gas institutions becoming more Caucasus-like would al prices. This would benefit exporting countries like Turkbe beneficial to a future regional trade architecture.

Ultimately though, the demand-side is now heavily weighted towards China's institutional transformation. China's demand of both shipped LNG across the Northern Sea Route into China's northeast seaports and traditionally piped natural gas from Turkmenistan-Uzbekistan-Kazakhstan to Xinjiang is likely to change the dynamics of the Eurasian production and supply system, determining the future de-

5 Petersen, A. 2016. Integration in Energy and Transport: Azerbaijan, Georgia, and Turkey. Lanham MD: Lexington Books.

^{4 &#}x27;China' is used here and throughout as an adjectival noun, describing nouns in place of the more conventional 'Chinese'. This is to separate the ethnonym and demonym from the nation state of the People's Republic of China which is not completely synonymous with the ethnicity, people, or civilisation of China.

⁶ Liu, YX. Feng YL. & Yu XH. 2018. Gas Supply, Pricing Mechanism and the Economics of Power Generation in China. Energies 11(5).

⁷ Shepherd, C. 2019. China launches state enterprise to manage oil and gas pipelines. Financial Times. Available at: <https://www.ft.com/content/ 4c2a8e50-1a59-11ea-97df-cc63de1d73f4>

⁸ Economist Intelligence Unit. 2019. Russia opens Power of Siberia gas pipeline to China. Available at: <http://www.eiu.com/industrv/article/348791418/ russia-opens-power-of-siberia-gas-pipeline-to-china/2019-12-10>

⁹ Bassin, M. 2016. The Gumilev Mystique: Biopolitics, Eurasianism, and the Construction of Community in Modern Russia. Ithaca: Cornell University Press 10 Clover, C. 2016. Lev Gumilev: Passion, Putin and Power-The Ideas of the Soviet Historian are Influencing a New Generation of Hardliners, Financial Times. Available at <https://www.ft.com/content/ede1e5c6-e0c5-11e5-8d9be88a2a889797>.

¹¹ Staalesen, A. 2019. Government approves €1 billion natural gas terminal on Kola coast. The Barents Observer. Available at <https://thebarentsobserver.com/en/industry-and-energy/2019/05/government-approves-eu1-billion-natural-aas-terminal-kola-coast>

menistan, Uzbekistan, Kazakhstan and Azerbaijan who have for generations had gas prices held captive by the buy-side. New investment in traditional gas exports on the west-east axis, the opening of the Persian Gulf corridor to India and the development of Yamal-Nenets all grow the gas pie, and if the pie is big enough with enough agents at the table, then commodification can occur and supply can begin to respond to demand transmitted through a price mechanism.

China's national oil companies' expansion into Central Asia, Azerbaijan and Kazakhstan's hydrocarbon developments, and the north-south gas corridor to Iran and India, coupled with the possibility of Iranian oil moving north overland into China, greatly opens the Indian Ocean and Eurasian Heartland to gas geopolitics. The opening of thicker gas corridors has the potential to be a true game changer in Caucasus-Central Asia gas geopolitics. The prospect of the Caspian Sea Rim gas exporting economies to open to newer markets has likely hastened Russia's resolve to open the Arctic gas fields and transport lines to Asia through Arctic LNG shipping. China, though, has the possibility to exploit the semi-formed institutional structures in the Eurasian gas geographies.

China's entry into both Arctic and Caspian Sea gas axes could serve to activate a process of commoditisation of gas in ex-Eurasian markets. However, China's buy-side potential to marketise prices is dependent on the development of price-setting institutions. Simply having two state-owned operators, Russia and China, in the region is insufficient to result in any commodification. The development of infrastructure that facilitates the transport of gas to East Asian markets, though, does open up even more buy-side competition – from Japan, Korea Republic, and Taiwan.

If China changes its consumer behaviour, it reforms global institutions. The China market for gas has huge transformative potential on the institutions surrounding gas extraction, refinement, shipment and pricing. For the structural blockages in the energy economies of former Soviet republics, China could lead the way towards a pricing institution reform that ultimately benefits the producing economies.

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ANALYSIS

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of interdependence have been created in an ever-globalis- Farrell and Newman write that 'only the United States and a ing world which key actors can weaponise. These networks couple of other key states and state-like entities (most nocontain both nodes and ties. Nodes are specific actors or tably the European Union [EU] and, increasingly China) enlocations while ties 'channel information, resources or other joy the benefits of weaponised interdependence, although forms of influence' between these nodes⁵. Farrell and New- others may still be able to play a disruptive role'. ⁶ As they man identify two ways these nodes and ties can be weap- note, most scholars of new interdependence focus excluonised: chokepoint effects - where the actor can deny net- sively on the US and the EU.⁷ In taking a Euro-Atlantic focus work access to adversaries - and panopticon effects - where themselves, Farrell and Newman do not explicitly explain the actor can gather strategically valuable information. In where and how China enjoys the benefits of weaponised their article, Farrell and Newman apply these concepts to interdependence. This paper therefore aims to build upon global financial and information flows, using SWIFT and the ideas discussed at the Tufts University conference and apply weaponised interdependence to BRI in Central Asia. Internet as case studies.

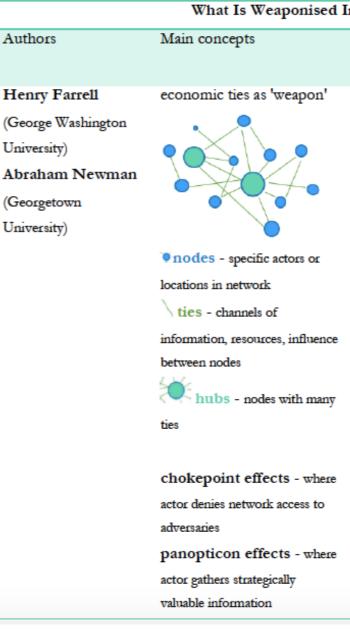


Figure 1. What is weaponised interdependence?

CHINA'S BELT AND ROAD INITIATIVE IN CEN-**TRAL ASIA:** A CASE STUDY ON WEAPONISED **INTERDEPENDENCE IN ENERGY, TRANSIT AND INFORMATION NETWORKS**

Dana Rice

Abstract

This exploratory research paper aims to further develop conversation around 'weaponised interdependence', a concept recently introduced by Henry Farrell and Abraham Newman. Although Farrell and Newman mention multiple actors that can weaponise interdependence, their research concentrated on the US. This paper therefore identifies a research gap on other potential weaponisers and the alternate forms of interdependence they may create. Drawing on semi-structured interviews with relevant officials and academics in Russia and Kazakhstan, this paper applies weaponised interdependence to the case study of China's Belt and Road Initiative in Central Asia. While suggesting that China, like the US, may have the potential to weaponise financial and information flows in the region (the forms of interdependence that Farrell and Newman focus on), this paper suggests that weaponised interdependence may also be applicable to physical infrastructure such as roads and pipelines. Expanding on Farrell and Newman's concept of the 'disruptive actor', the paper also explores the potential role Russia could play within China's network.

Key words: Belt and Road Initiative; Central Asia; New Interdependence Approach; Sino-Russian Relations; Weaponised Interdependence

INTRODUCTION

Since the publication of Henry Farrell and Abraham Newman's article in International Security in July 2019, 'weaponised interdependence' has received much attention with- THEORETICAL FRAMEWORK in the community of International Relations scholars. In October 2019, the Fletcher School of Law and Diplomacy In their 2014 World Politics article, Farrell and Newman at Tufts University organised a conference to promote more discussion on this evolving concept. This paper was written in response to the panel on 'Energy, Transit and Weaponised dence?

this question, focusing on the specific case study of BRI in Central Asia.² The paper also adds a secondary question: if BRI in Central Asia does represent an attempt by China to develop a real-world structure of weaponised interdependence, what role does Russia play within this structure? The aim of this research is two-fold: firstly, to contribute to an emerging theory and secondly, to enrich understanding of a complex region through this new lens. The paper is

2 For the purposes of this paper, 'Central Asia' refers to the five post-Soviet states of Kazakhstan, Kyrqyzstan, Tajikistan, Turkmenistan and Uzbekistan.

divided into the following sections: 1) theoretical framework, 2) methodology, 3) background to BRI in Central Asia, 4) analysis and 5) conclusion.

identified a new body of scholarship which they dubbed the 'New Interdependence Approach' (NIA).³ While many scholars assume that increased globalisation only creates Interdependence'.¹ In their discussion, the panel posed the benefits for the states involved, Farrell and Newman sugfollowing question: to what extent (if any) does the Belt gest that globalisation has created new forms of compeand Road Initiative (BRI) represent an attempt by China to tition and contestation as the lines between domestic and develop a real-world structure of weaponised interdepen- international become blurred.⁴ In their most recent article, Farrell and Newman propose the concept of 'weaponised interdependence' within NIA. 'Weaponisation' here refers This paper aims to further develop the conversation around less to traditional military and hard security aspects and more to economic ties being wielded as a 'weapon'.

> Weaponised interdependence makes a valuable contribution to International Relations theory because it brings together International Political Economy (IPE) and Security Studies, two disciplines which have historically been separated. Farrell and Newman posit that new, stronger networks

5 Farrell, H. and A. Newman, 2019. Weaponised Interdependence: How Global Economic Networks Shape State Coercion. International Security. 44(1): 50.

Interdependence?		
	Areas of application	Areas of application
	by the authors	for this paper
	US as a weaponiser	China as a weaponiser
	information and	information and
	financial flows	financial flows +
		physical infrastructure
		such as pipelines and
		transit routes
	disruptive actor -?	Russia as a disruptive
•	(mentioned but not	actor
	developed)	

6 Farrell, H. and A. Newman, 2019, 57.

7 Farrell, H. and A. Newman, 2014, 354

Source: Author

¹ A recording of this panel is accessible via the following link: https://www. youtube.com/watch?v=qXMUEpIQJ0A

³ Farrell, H. and A. Newman, 2014. Domestic Institutions Beyond the Nation-State: Charting the New Interdependence Approach. World Politics. 66(2): 333.

⁴ Farrell, H. and A. Newman, 2016. The New Interdependence Approach: Theoretical Development and Empirical Demonstration. Review of International Political Economy. 23(5): 714.

METHODOLOGY

This paper follows a qualitative methodology. Between September and November 2019, the author conducted a number of semi-structured interviews in Saint Petersburg, Moscow and Almaty. The interviewees included officials at the Eurasian Economic Union (EAEU), the Eurasian Development Bank and the Valdai Discussion Club. In addition, the author met with leading experts on Eurasian integration at the European University at Saint Petersburg, Saint Petersburg State University, Moscow State Institute of International Relations, Kazakh-German University and Narxoz University. The author was also able to speak with Dr. Mikhail Krutikhin, one of the participants on the 'Energy, Transit and Weaponised Interdependence' panel at Tufts University. Finally, the author conducted field research in the Khorgos International Centre for Cross-Border Cooperation (ICBC) on the border of Kazakhstan and China.

Weaknesses of theoretical framework and methodology

One of the main weaknesses with Farrell and Newman's concept is the difficulty in recognising and measuring weaponised interdependence. The examples of nodes, ties, panopticon effects and chokepoint effects provided here are somewhat anecdotal in nature -- their goal is simply to offer potential avenues for further exploration. Future research will need to be more systematic in its analysis. Drawing further on network theory is one possible way in which future research can address this weakness. Network theory, a framework applied in many disciplines, allows the nodes and ties within a network to be visually represented in formal graph-based models.

The terminology 'weaponised interdependence' may also be misleading. 'Interdependence' suggests that two countries are dependent on each other and therefore the weaponiser must be harming its own interests, too. What Farrell and Newman are describing then may be closer to 'dependence' where one powerful actor exploits the interests of others with limited harm to themselves. Nevertheless, 'interdependence' at least highlights how rapid globalisation has 2015. Outcomes and Strategies in 'New Great Game': China and the Caspian generated new forms of exploitation.

BACKGROUND TO THE BELT AND ROAD INITIATIVE: CHI-NA'S AMBITIONS IN CENTRAL ASIA

A key problem in the analysis of BRI is determining the initiative's exact aims. Official documents on BRI refer to five sight-opinion/article/1901128/chinas-road-or-western-way-whose-econompriorities: policy coordination, infrastructure connectivity, ic-development-model> [Accessed 08 November 2019]. unimpeded trade, financial integration and connecting people. However, these priorities still lack clarity. Academics and journalists have put forward various hypotheses about what 'infrastructure connectivity', 'financial integration' and BRI's other aims mean in practice. Many think it is a geopolitical ploy especially for power over its neighbours in Central Asia – in other words, a reinvigoration of the Great tion-is-at-the-heart-of-the-bri> [Accessed 06 November 2019].

Game that was played out in this region in the 19th century.8 Some academics believe it is an ingenious method for dealing with surplus industrial capacity.9 According to others, BRI is a way of exporting the Chinese model of development to the Third World.¹⁰ Yet others believe that securing access to energy and minerals for rapidly growing domestic consumption is at the heart of the initiative.¹¹ Most recently, BRI was mentioned at the Tufts conference in terms of ensuring a system of weaponised interdependence. In order to understand the validity of these arguments and how weaponised interdependence unites the various perspectives, this section explores China's ambitions in Central Asia and how many of the projects (often energy-based) now part of BRI began long before BRI was announced in 2014.

In the decade prior to BRI, China's interest in its Central Asian neighbours largely centred around energy. Both Kazakhstan and Turkmenistan have extensive oil and gas deposits. Kazakhstan, the largest landlocked country in the world and leading economy in Central Asia, is the #1 producer of oil in the region. The country possesses over 170 oil fields in total with Tengiz being the 6th largest in the world. Turkmenistan is the #1 gas producer in the region, holding the world's 6th largest proven reserves. While Uzbekistan has far smaller natural resource reserves and Kyrgyzstan and Tajikistan have virtually none, these three states play an important role as transit states.

To conceptualise how Central Asia fits into the Chinese investment strategy, it is important to look at China's energy balance. China is currently heavily reliant on coal with oil making up only 20% of the fuel mix and natural gas just 8%.

9 See, for instance, T. Kenderdine, 2017. China's agroindustrial capacity cooperation in Central Asia. Central Asia-Caucasus Analyst, [online] 28 April. Available at: <https://www.cacianalyst.org/publications/analytical-articles/ item/13442-china's-agroindustrial-capacity-cooperation-in-central-asia. html> [Accessed 10 November 2019].

10 See, for instance, F. Fukuyama, 2016. China's road or the Western way: whose economic development model will prevail?'. South China Morning Post, [online] 14 January. Available at <https://www.scmp.com/comment/in-

11 See, for instance, T. S. Eder and J. Marshall, 2019. Powering the Belt and Road: China supports its energy companies' global expansion and prepares the ground for potential new supply chains'. MERICS, Mercator Institute for China Studies, [online] 27 June. Available at: <https://www.merics.org/en/ bri-tracker/powering-the-belt-and-road> [Accessed 01 November 2019]; HSBC, 2018. Energy Cooperation Is at the Heart of BRI, [online] 03 April 2018. Available at: <https://www.business.hsbc.com/belt-and-road/energy-coopera-

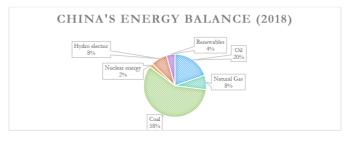


Figure 2. China's energy balance (2018) Source: Author based on BP Statistical Review 2019

However, China's consumption of oil and gas is rapidly growing. As the graph below shows, China has increasingly relied on oil imports since the mid-1990s.

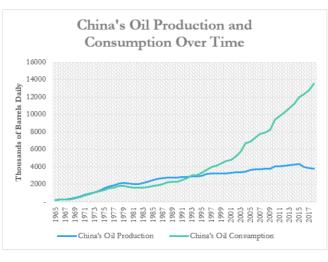


Figure 3. China's oil production and consumption over time Source: Author based on BP Statistical Review 2019

In terms of natural gas, China has been unable to meet its of this land corridor. In recent years, China has invested in consumption needs domestically since the mid-2000s. Due numerous Central Asian projects outside the energy sector to extreme pollution in the cities along China's eastern seafrom precious mineral mining and cement factories to railboard and the resultant health crisis. Xi Jinping has been roads and special economic zones to technological investpushing the country's gasification, with natural gas deemed the most environmentally friendly of the fossil fuels. While <u>ment in 'smart cities'</u>. 13 CNPC. Flow of natural gas from Central Asia'. Available at: <https://www. shale gas has been discovered in China, the difficult nature cnpc.com.cn/en/FlowofnaturalgasfromCentralAsia/FlowofnaturalgasfromCenof extraction in the mountainous Sichuan region where tralAsia2.shtml> [Accessed 21 November 2019]. most of the reserves lie mean that for now China will rely 14 Ibid. mainly on imports.¹² 15 Lelyveld, M., 2019. China's gas supplies shadowed by stalled pipeline.

2019].

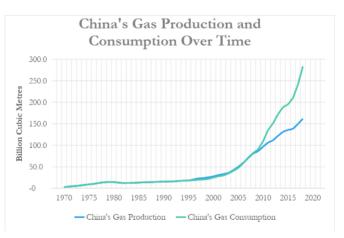


Figure 4. China's gas production and consumption over time Source: Author based on BP Statistical Review 2019

China has invested significantly in pipelines bringing oil and gas from Central Asia to China's Far West where such projects are also seen as a key priority for fuelling economic growth and development in the restive region of Xinjiang. In Western China, these pipelines connect with China's domestic pipeline network, transporting oil and gas all the way to the eastern seaboard. With the first section completed in 2003 and additional sections connecting the pipeline to other fields in 2005 and 2009, the Kazakhstan-China pipeline was the first pipeline to bring Central Asian oil to China. In 2009 and 2010. Lines A and B of the Central Asia-China gas pipeline (also known as the Turkmenistan-China gas pipeline) were also completed, supplying 13 bcm/a from the Amu Darya Project and 17 bcm/a from Turkmengaz State Concern in Turkmenistan.¹³ Line C opened in 2014, supplying 10 bcm/a, 10bcm/a and 5bcm/a from Turkmenistan, Uzbekistan and Kazakhstan respectively.14 While a proposed Line D would bring gas from Turkmenistan's Galkynysh gas field via Tajikistan, the project appears to have been postponed indefinitely.15

Energy acts as the backbone fuelling China's grand vision for Central Asia as a hub of cross-Eurasian trade. China sees further development of land trade routes as a way to avoid maritime chokepoints such as the Malacca Strait,¹⁶ and countries in Central Asia are perfectly positioned as part

Radio Free Asia, [online] 24 June. Available at: https://www.rfa.org/english/ commentaries/energy watch/chinas-gas-supplies-shadowed-by-stalled-pipeline-06242019101235.html> [Accessed 21 November 2019].

16 As early as 2003, then-president Hu Jintao identified the need to secure alternative energy sources and trade routes in case in a time of crisis the Malacca Strait should be blockaded and energy supplies from the Middle East cut off. Hu referred to this issue as the 'Malacca Dilemma'. See B.A. Hamzah, 2017. Alleviating China's Malacca Dilemma. Institute for Security & Development Policy, [online] 13 March. Available at: http://isdp.eu/alleviating-chinas-malacca-dilemma/ [Accessed 20 November 2019].

⁸ See, for instance, S. Blank, 2012. Whither the New Great Game in Central Asia?. Journal of Eurasian Studies. 3(2): 147-160; K. S. Stegen and J. Kusznir, States Emerge as Winners. Journal of Eurasian Studies 6(2): 91-106.

¹² China Power Team, 2016. How is China's energy footprint changing?. China Power, [online] 15 February (updated 13 August 2019). Available at: <https://chinapower.csis.org/energy-footprint/> [Accessed 08 November

Since 2013 all of these different projects have been incor- In particular, NIA allows the Belt and Road Initiative to be porated and reimagined as one giant network: the Belt and viewed in the same language of interdependence that pol-Road Initiative. BRI is actually two interconnected initia- icy experts and officials intimately involved in the Eurasian tives: the Silk Road Economic Belt and the 21st Century integration process use. When asked to describe China's Maritime Silk Road. The idea of a Silk Road Economic Belt role in Central Asia, many of the officials and academics inor 'SREB' was announced in September 2013 by Xi Jinping terviewed used the same vocabulary independently of each in Astana (now Nur-Sultan) – highlighting Central Asia's im- other - 'interconnectivity', 'transport', 'logistics', 'hub'. One portance. The SREB is the land route that stretches from official at the Eurasian Economic Commission, who wishes eastern China to western Europe via Central Asia.¹⁷ The 21st to remain anonymous, stressed the need for enhanced ties Century Maritime Silk Road, on the other hand, connects between Central Asia and China moving forward.¹⁹ When various ports from China's eastern seaboard through the In- questioned about what the risks of China's influence were, dian Ocean and Suez Canal into the Mediterranean. These the official replied, 'none', unwilling to offer any criticism. As two routes were known by the collective name 'One Belt Dr. Yaroslav Lissovolik - Program Director at the Valdai Club -One Road' until 2016 when President Xi decided that the explained, Central Asia needs to overcome its geographical word 'one' was open to misinterpretation and thus it was handicap of being an entirely land-locked region.²⁰ rebranded as the 'Belt and Road Initiative'. 18

According to Lissovolik, Central Asia has no option other than economic integration - this includes becoming part of China's 'hyper-continental' network. ²¹

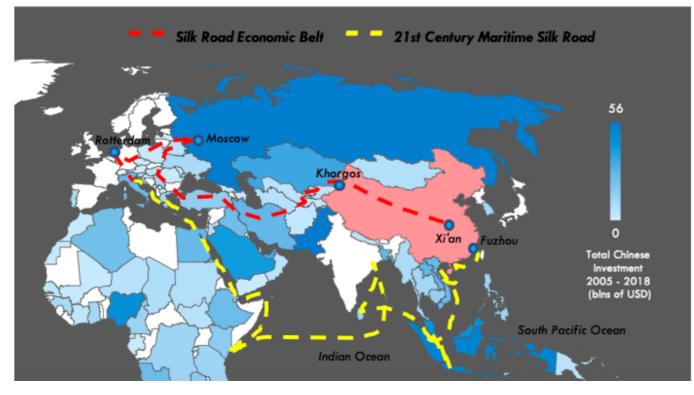


Figure 5. China's Belt and Road Initiative Source: Author based on American Enterprise Institute's China Global Investment Tracker

ANALYSIS

Why apply NIA and weaponised interdependence?

Nodes and ties

The New Interdependence Approach (NIA) may offer an As discussed in the previous section, BRI formalises individ-

innovative framework within which to conceptualise BRI. ual overseas projects (many of which Chinese companies began many years ago) into a consolidated network. Within Central Asia, physical nodes can be understood as key pieces of infrastructure like dry ports and power plants while ties are roads, railways and pipelines. At least symbolically, 19 Interview with official from Analytical Support Section, Eurasian Economic Commission, Moscow, 13 November 2019.

20 Interview with Dr. Yaroslav Lissovolik, Program Director at the Valdai Discussion Club, Moscow, 13 November 2019. 21 Idem.



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¹⁷ SREB is comprised of six key 'corridors': the New Eurasia Land Bridge Economic Corridor, the China-Mongolia-Russia Economic Corridor, the China-Central Asia-West Asia Economic Corridor, the China-Pakistan Economic Corridor, the Bangladesh-China-India-Myanmar Economic Corridor and the China-Indochina Economic Corridor.

¹⁸ Shepard, W., 2017. Beijing to the world: don't call the Belt and Road Initiative OBOR. Forbes, [online] 01 August. Available at: <https://www.forbes.com/ sites/wadeshepard/2017/08/01/beijing-to-the-world-please-stop-saying-obor/#5ff9d8e617d4> [Accessed 20 November].

these various nodes and ties can be seen in Khorgos, a zone that might otherwise appear contradictory to their interon the border of China and Kazakhstan often promoted as ests -- Turkmenistan, for instance, offered written support a success story of Chinese investment in Central Asia. Lo- for China's Uighur crackdown in Xinjiang despite Uighurs' cated almost exactly at the farthest point on Earth from ethnic and religious ties to Turkmens.²⁶ any ocean, Khorgos is not only an inland container port but also a Special Economic Zone (SEZ), a duty-free cross-bor- However, any analysis of 'chokepoint effects' in BRI raises der shopping area and the point where both the Central the question of exactly what 'third parties' China is weap-Asia-China railway and the Central Asia-China gas pipeline onising against. On one hand, it may be that China is weapass into China. However, a question remains as to whether ponising or has the potential to weaponise against states China can weaponise these nodes and ties against other within its own network as the example of dictating favourstates.

It may be that the application of weaponised interdepen- against the US. By developing the land corridor to Europe dence to physical energy and transit infrastructure can only through Central Asia, China may be able to evade possible be taken so far. Politicians frequently discuss the weap- US containment in the future through a diversification of onisation of physical infrastructure, often overestimating trade routes, pipelines and partners. As China's reported its power compared to newer forms of interdependence. military base in Tajikistan shows,²⁷ China has the potential However, as one panellist phrased it, whether China really to turn its economic ties with some of the Central Asian is weaponising its economic network in Central Asia may states into an actual military presence, possibly underminbe irrelevant. What matters are how Central Asian states ing the US' influence in the region. Nevertheless, as menand their citizens respond to perceptions of China leveraq- tioned by one panellist at the Tufts University conference, ing its infrastructure coercively. In one prominent example, China is far from achieving the US' spatial weaponisation of the proposed Kazakh land reforms in 2016 which would interdependence with its Command of the Commons (Prohave allowed foreigners (presumably Chinese companies) fessor Barry Posen's term for American dominance in sea, to lease large swaths of agricultural land for up to 25 years sky and space). lead to mass anti-China protests.²² In general, Central Asian populations are growing distrustful of China and their sup- **Panopticon effects** posedly 'no strings attached' investment and loans.

Chokepoint effects

use of hubs by third parties')²³ might originate from con- Asia, China has been investing in advanced surveillance trol over key physical infrastructure for energy and transit technology in so-called 'smart cities' or, as Bradley Jardine like Khorgos. While Chinese BRI loans are attractive due aptly called them, 'the data nodes in the Digital Silk Road'²⁹. to their lack of political requirements, in many cases Cen- In Kyrgyzstan, for instance, China National Electronics Imtral Asian states are unable to repay these loans, instead port and Export Corporation, a company currently under US falling into a 'debt-for-resources' arrangement. To provide sanctions, recently supplied facial recognition cameras for one example, China had a monopsony over Turkmen gas free to be used by police in the capital Bishkek.³⁰ In Kazakhfollowing the Global Financial Crisis when states like Rus- stan, another US-sanctioned Chinese company, Hikvision, sia ceased to act as buyers. As Turkmenistan was unable supplied major cities with the same technology that Hikvito finance the gas pipeline to China, the state still provides sion itself claims can be used to recognise faces of the per-China with an undisclosed amount of natural gas for free or secuted Uighur minority in a crowd.³¹ Meanwhile, Huawei at severely depressed prices, contributing to the economic crisis experienced in Turkmenistan in recent years.²⁴ In many cases, Central Asian states do not know exactly how much debt they owe China due to lack of transparency and accountability.²⁵ These debt practices have the potential to Central Asia-Caucasus Analyst, [online] 18 April. Available at: https://www.enalyst.com be weaponised by China in order to gain more favourable cacianalyst.org/publications/analytical-articles/item/13569-chinas-militarydeals and to be used as leverage in political bargaining. Already Central Asian states have stood by China in matters

22 Putz, C., 2016. Land protests persist in Kazakhstan. The Diplomat, [online] 03 May. Available at: <https://thediplomat.com/2016/05/land-protests-persist-in-kazakhstan/> [Accessed 20 November 2019].

23 Farrell, H. and A. Newman, 2019. 55.

24 Stronski, P., 2017. Turkmenistan at twenty-five: the high price of authoritarianism. Carnegie Endowment for International Peace, [online] 30 January. Available at: <https://carnegieendowment.org/2017/01/30/turkmenistan-at-twenty-five-high-price-of-authoritarianism-pub-67839> [Accessed 08 November 20191

25 Horn, S., C. M. Reinhart and C. Trebesch, 2019. China's overseas lending. NBER Working Paper No. 26050.

able terms in Turkmen gas contracts highlights. On the other hand, the entire network can also be used to weaponise

As described by Farrell and Newman, 'panopticon effects' (access to or jurisdiction over hub nodes ... to obtain information'28) are often non-physical and centre around intel-BRI 'chokepoint effects' (influence used to 'limit or penalise ligence collection opportunities. As part of BRI in Central

26 Putz, C., 2019. Which countries are for or against China's Xinjiang policies?. The Diplomat, [online] 15 July. < https://thediplomat.com/2019/07/ which-countries-are-for-or-against-chinas-xinjiang-policies/> [Accessed 20 November 2019].

27 Blank, S., 2019. China's military base in Tajikistan: what does it mean?. base-in-tajikistan-what-does-it-mean?.html> [Accessed 24 November 2019]. 28 Farrell, H. and A. Newman, 2019, 55.

29 Jardine, B., 2019. China's surveillance state has eyes on Central Asia. Foreign Policy, [online] 15 November, https://foreignpolicy.com/2019/11/15/ huawei-xinjiang-kazakhstan-uzbekistan-china-surveillance-state-eyes-central-asia/> [Accessed 24 November 2019].

30 Радио Азаттык, 2019. На улицах Бишкека появились камеры распознавания лиц. Китай установил их бесплатно. 01 November [online] < https://rus.azattyk.org/a/kyrgyzstan cameras china 2019/30247449. html> [Accessed 24 November 2019].

31 Мухиткызы, А., 2019. «Распознает даже людей в масках». Нужны ли Казахстану камеры Hikvision?, Радио Азаттык, 10 October [online] <https://rus.azattyq.org/a/kazakhstan-china-survelliance-camera/30210035. html> [Accessed 23 November 2019].

has a huge presence in Central Asia, accounting for as much delegation to their respective countries within a few days as 90% of the telecommunications market in states like of each other in late August and early September 2019. Tajikistan.³² The US has already expressed concerns about Celebrating the EAEU-Iran free trade agreement which was Huawei's influence in other countries and has threatened to to take effect one month later, Russia promised \$1bn for diminish intelligence sharing if these countries do not cut a powerplant plus an expected \$10bn increase in EAEUties. While these Chinese investments offer much needed Iran trade over the next few years.³⁷ China, on the other advances for relatively poor and often fragile Central Asian hand, pledged \$400bn in BRI funding and other Sino-Irastates, they may also provide China greater control over in- nian projects.³⁸ formation flows as it 'gains a monopoly over ... [the region-Given its lack of economic pull, Russia is trying to remain

tegrator?

al] data supply chain'. 33 relevant in Central Asia by cooperating with China. By tak-Russia's ambitions in Central Asia: disruptive actor or co-in- ing credit for developing the idea of a 'Greater Eurasian Partnership', Russia hopes to maintain its position of 'security, status and power' and control over certain network If the assumption that China is either intentionally or un- nodes. In his interview, Dr. Lissovolik suggested that we will intentionally weaponising interdependence through BRI is see this Greater Eurasian Partnership develop into someaccepted, then one must next explore Farrell and Newman's thing concrete in the next five years which will subsume inproposition that others may still be able to play a disruptive dividual initiatives like the EAEU and BRI.³⁹ This new organrole'. ³⁴Neither Farrell and Newman nor the conference par- isation might arrive in the form of BRICS+ or the Regional ticipants elaborated on what a 'disruptive role' means. This Comprehensive Economic Partnership (RCEP) – the world's sub-section therefore aims to develop the idea of 'disrup- largest regional trading bloc which China is in the process tive actors' and asks whether Russia has the power to play of forming – creating even stronger forms of interdependence between Russia, China and Central Asia. this role in Central Asia.

For the purposes of this paper, a disruptive actor is under- However, when various interviewees were pressed to prostood to be one who benefits from fear and opposition vide concrete examples of where Russia and China had within the network. Unlike China, Russia can meet its own cooperated on 'connectivity' and 'transit' in Central Asia, no domestic needs for oil and gas. Its interest in Central Asia one could point to a specific project. Even the recent news stems more from legacy and geographical proximity or, as story that China, Russia, India and the EAEU countries are Mariya Omelicheva and Ruoxi Du put it, security, status and planning to create a new monetary transfer system as an power'.³⁵ Russia aims to maintain its historical position of alternative to the Western-led SWIFT was met with sceptiinfluence and has its own initiatives in the region - such as cism by the two EAEU officials interviewed. Both said it was the Eurasian Economic Union - which might seem incom- highly unlikely such a financial system would be created, patible with BRI. In the long term, Russia may be able to chiefly because of disagreement over which country's syscapitalise on fears around BRI's lack of transparency and tem would be used and how this could hurt the security of attract the post-Soviet states further (back) into its own the other countries.⁴⁰ In other words, without using the exsphere of influence. As Farrell and Newman write, 'target- act phrase, the officials expressed concern over the possible ed states – or states that fear they will be targeted – may 'panopticon effects' of greater interdependence in financial attempt to isolate themselves from networks ... and even ... flows. As even the most optimistic Eurasian Development reshape their networks so as to minimize their vulnerabil- Bank official interviewed acknowledged, Sino-Russian relaities'.36 tions are constrained by historical tensions, and it is difficult to predict their direction once Putin steps down from However, at a time when it is already facing economic iso- leadership.⁴¹Should ties with the EU and US strengthen at lation from the US and EU, Russia is not in a strong place some point in the future, Russia may take a more active to disrupt the network China is building within Central Asia. role as a disruptor in China's growing web of influence in While most experts and officials in Russia interviewed held Central Asia, ending their current marriage of convenience.

that the view that the Sino-Russian partnership in Central Asia was a long-term strategic alliance, it is at a minimum Price, [online] 03 September. Available at: https://oilprice.com/Latest-Ener- a marriage of convenience. At the moment, Russia cannot gy-News/World-News/Eurasian-Union-Deal-With-Iran-To-Take-Effect-In-Octocompete with China on economic terms because it does not have the finance to offer pipelines or other projects on the same scale as China. To provide one recent example of the *leum Economist, 03 September. Available at: <https://www.petroleum-econo*disparity, both the Russian and Chinese governments welcomed Iranian foreign minister Mohammad Zarif and his

32 Jardine, B., 2019.

³³ Ibid.

³⁴ Farrell, H. and A. Newman, 2019, 57. 35 Omelicheva, M. and R. Du, 2018. Kazakhstan's Multi-Vectorism and Sino-Russian Relations. Insight Turkey. 20(4): 95. 36 Farrell, H. and A. Newman, 2019, 76.

³⁷ Slav, I., 2019. Eurasian Union deal with Iran to take effect in October. Oil ber.html> [Accessed 18 November 2019].

³⁸ Watkins, S., 2019. China and Iran flesh out strategic partnership. Petromist.com/articles/politics-economics/middle-east/2019/china-and-iran-fleshout-strategic-partnership> [Accessed 18 November 2019].

³⁹ Interview with Dr. Yaroslav Lissovolik, Program Director at the Valdai Discussion Club Moscow 13 November 2019

⁴⁰ Interview with Dr. Roman Petrosyan, Department of Integration Development, Eurasian Economic Commission, Moscow, 12 November 2019; interview with official from Analytical Support Section, Eurasian Economic Commission, 13 November 2019

⁴¹ Interview with official from Eurasian Development Bank, Saint Petersburg, 15 November 2019.

CONCLUSION

Expanding on comments made at the October 2019 Tufts University conference, this paper explored the evolving concept of 'weaponised interdependence' using the case study of BRI in Central Asia. Two questions were posed: (1) to what extent (if any) does BRI represent an attempt by China to weaponise interdependence in Central Asia and (2) if BRI is viewed as an attempt at weaponised interdependence, what is Russia's role within this network? While unable to definitively answer either of these questions due to its exploratory nature, the paper reconceptualised BRI through the language of weaponised interdependence: nodes (e.g. Khorgos), ties (e.g. Central Asia-China gas pipeline), chokepoint effects (e.g. China's debt exploitation for resources and military bases) and panopticon effects (e.g. investment in surveillance technology in Central Asian cities). Within this network, Russia may be seen as playing either the role of a disruptive actor (profiting off Central Asian states' distrust of China) or as a co-integrator (working alongside China through the 'Greater Eurasian Partnership') or both. Through this exploratory research, this paper aimed to contribute to weaponised interdependence by applying the concept to the Belt and Road Initiative and elaborating on the idea of a disruptive actor. In addition, the paper offered a potential new lens through which to understand Central Asia and the effects of globalisation and increased interdependence on the region.

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