

Societal Impact of Social Sciences, Humanities & Arts Conference 2- 4 November, Stockholm

Parallel Session (K.11)

International Collaboration for Tackling Grand Challenges

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Societal Impact of Social Sciences, Humanities & Arts Conference 2- 4 November, Stockholm

International Collaboration for Tackling Grand Challenges

Ylva Hillbur

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International collaboration for tackling the global challenges

Introduction Ylva Hillbur 10/15 min Jojo Nem Singh 15/20 min Heidi van Rooyen 15/20 min General discussion and Q&A 20/30 min



Examples from the Swedish University of Agricultural Sciences

- 1. A global network strengthening capacity to contribute to sustainable development
- 2. The library making available SDG-relevant knowledge



Global Challenges University Alliance 2030

A university network with a common vision of contributing to sustainable, global development





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The Swedish Foundation for International Cooperation in Research and Higher Education













































10 years of collaboration

2015 SLU continues to fund the 11 partners

2019 **GCUA 2030** stronger focus on Agenda 2030

Objective: "To enhance the capacity of its partners to contribute to Agenda 2030 and the SDGs through international collaboration"

2021-2023

New funding

20 partners

2012-2015

Network formed (STINT)

5 partners

network



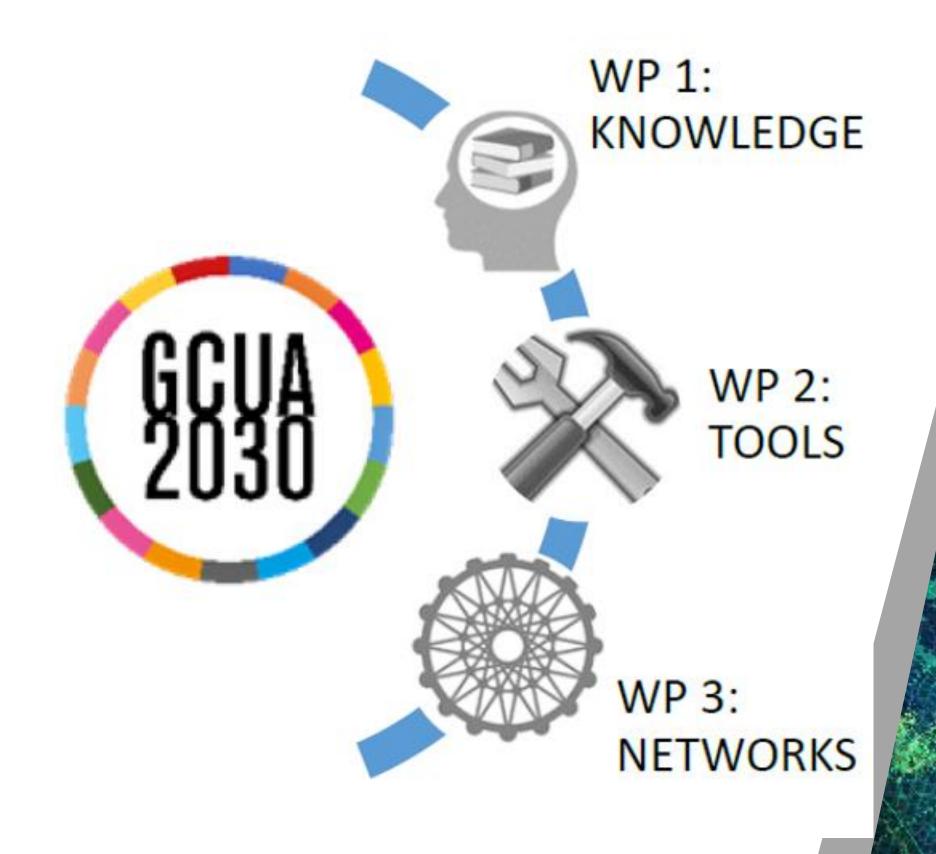


A global learning forum for PhD students

- the next generation of academic leaders

To equip PhD students from all partner universities with **knowledge**, **tools and networks** that will strengthen their capacity to:

- work across disciplines and cultures
- conduct translational research
- contribute to sustainable global development

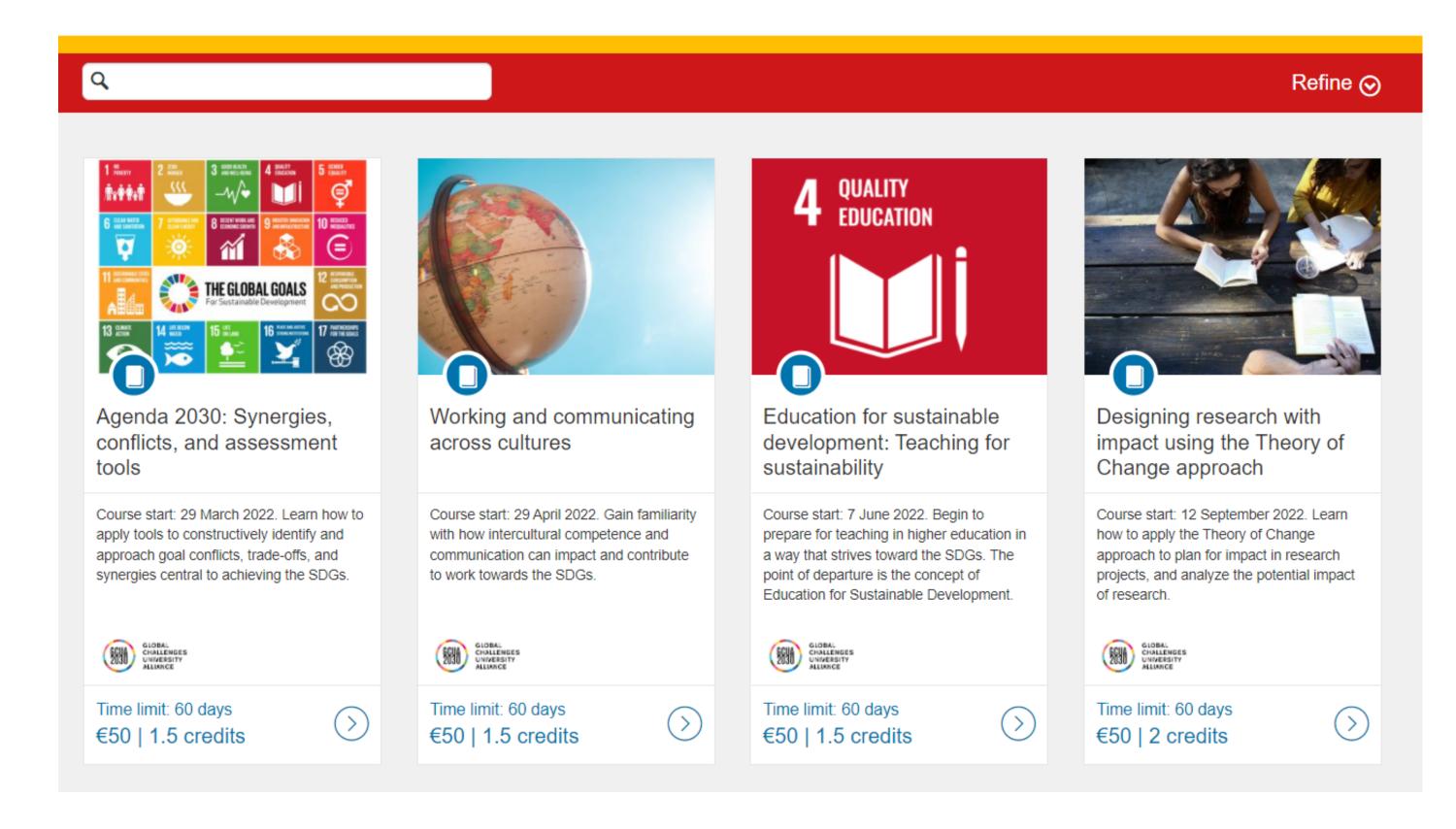




Online portfolio of learning and networking activities

- developed in consultation with PhD student ambassadors

- 4 courses
 - Credits/certificate
- Mentoring program
 - Pairing mentors/mentees across partner universities/disciplines
- Career workshops
 - Post doc planning
- Climate action challenge
 - Systems perspective
- Webinars, workshops





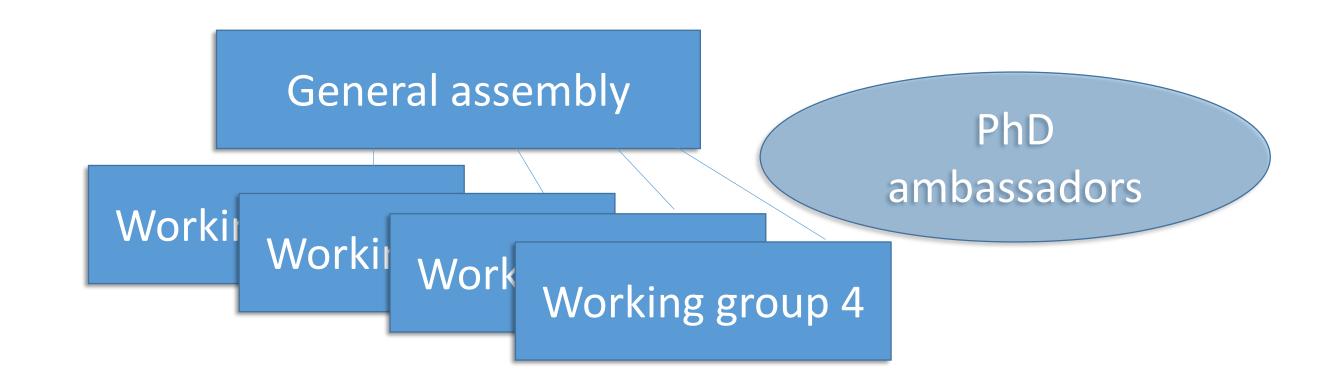
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Piloting digital internationalisation

- General assembly
 - Decision-making, strategic direction
- Working groups
 - Development of activities
- PhD student ambassadors
 - Advice to working groups, communication
- Physical meetings start and end
- Monitoring, evaluation and learning
 - ToC and framework under development
 - Activities, Output, Outcome, Impact



		2021			2022				2023				
	Activities	1	2	3	4	1	2	3	4	1	2	3	4
WP 1	Research-focused webinars/courses/workshops							100					
	Sustainability in a globalized world (MOOC)												12
WP 2	Sustainability in a globalized world (MOOC)			<u> </u>									
	How to conduct a systematic review												
	How to write a policy brief												
	From research to innovation												
WP 3	Mentorship program												
	Case study												
Mile-	General Assembly meetings ^a												
stones	Meeting with all project participants												
	Annual and final reports												
a Grey col	our = physical meeting, blue colour = virtual meeting	g		•			•			•			



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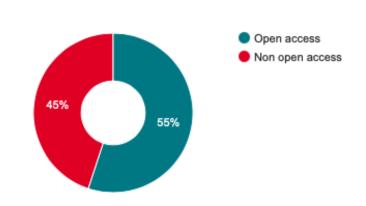
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MAKING AVAILABLE SDG RELEVANT KNOWLEDGE

Accessibility

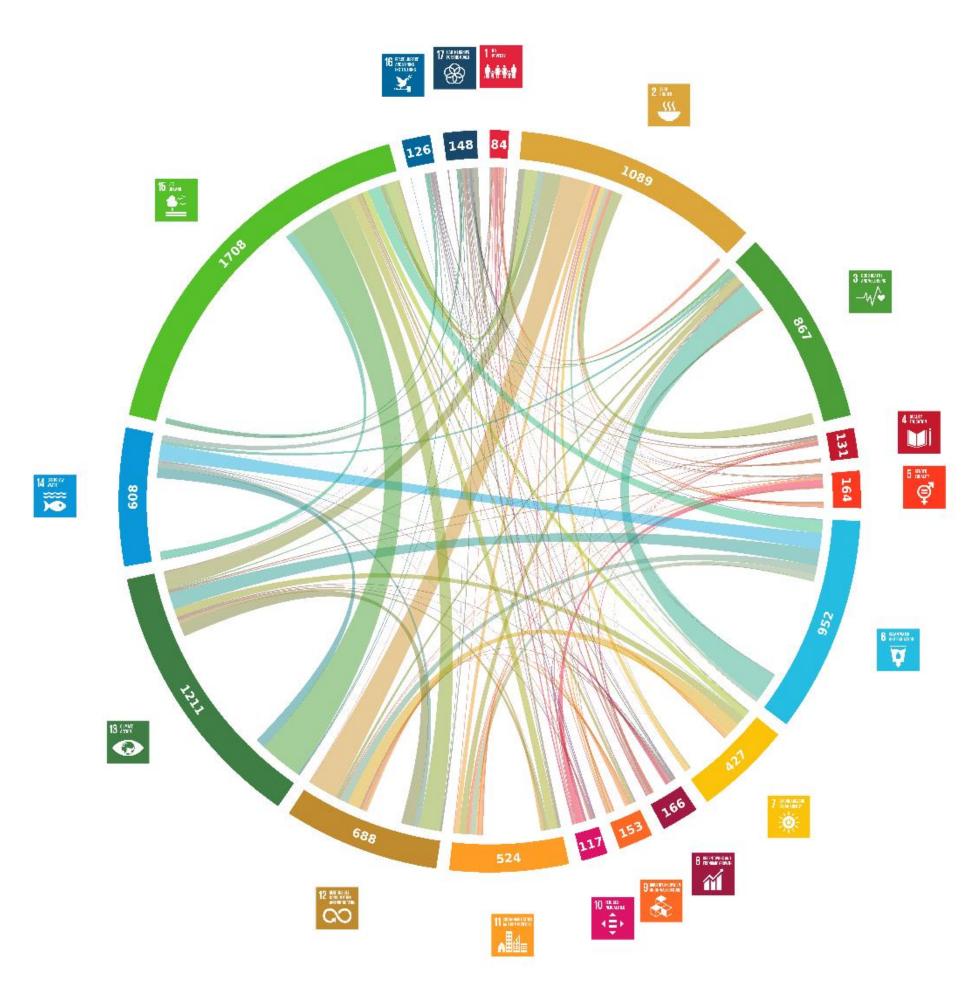
Through searching in reference databases we have found 1090 publications that relate to SDG2, and have authors from SLU. 622 of these are available with Open Access.



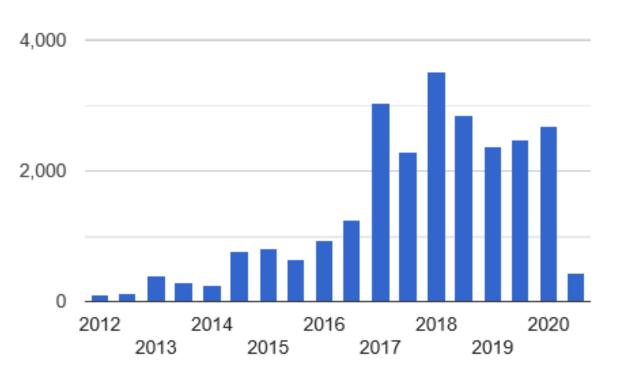
SDG2 - Zero hunger

SLU Publications

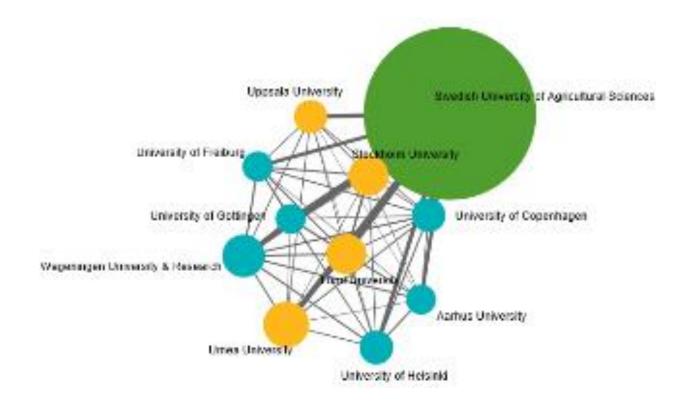
YEAR	PUBLICATION
2021	Bajzelj, Bojana; Laguzzi, Federica; Röös, Elin The role of fats in the transition to sustainable diets doi:10.1016/S2542-5196(21)00194-7 Download full text
2021	Kalt, Gerald; Mayer, Andreas; Haberl, Helmut; Kaufmann, Lisa; Lauk, Christian; Matej, Sarah; Röös, Elin; Theurl, Michaela C.; Erb, Karl-Heinz Exploring the option space for land system futures at regional to global scales: The diagnostic agro-food, land use and greenhouse gas emission model BioBaM-GHG 2.0 doi:10.1016/j.ecolmodel.2021.109729 Download full text
2021	Fischer, Klara Why Africa's New Green Revolution



Altmetric – proxy for societal impact



Collaboration



https://www.slu.se/en/collaboration/international/slu-global/agenda-2030/SLU-publications/



MAKING AVAILABLE SDG RELEVANT KNOWLEDGE

Accessibility

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Search profiles built on detailed analysis of targets

Automated search of WoS

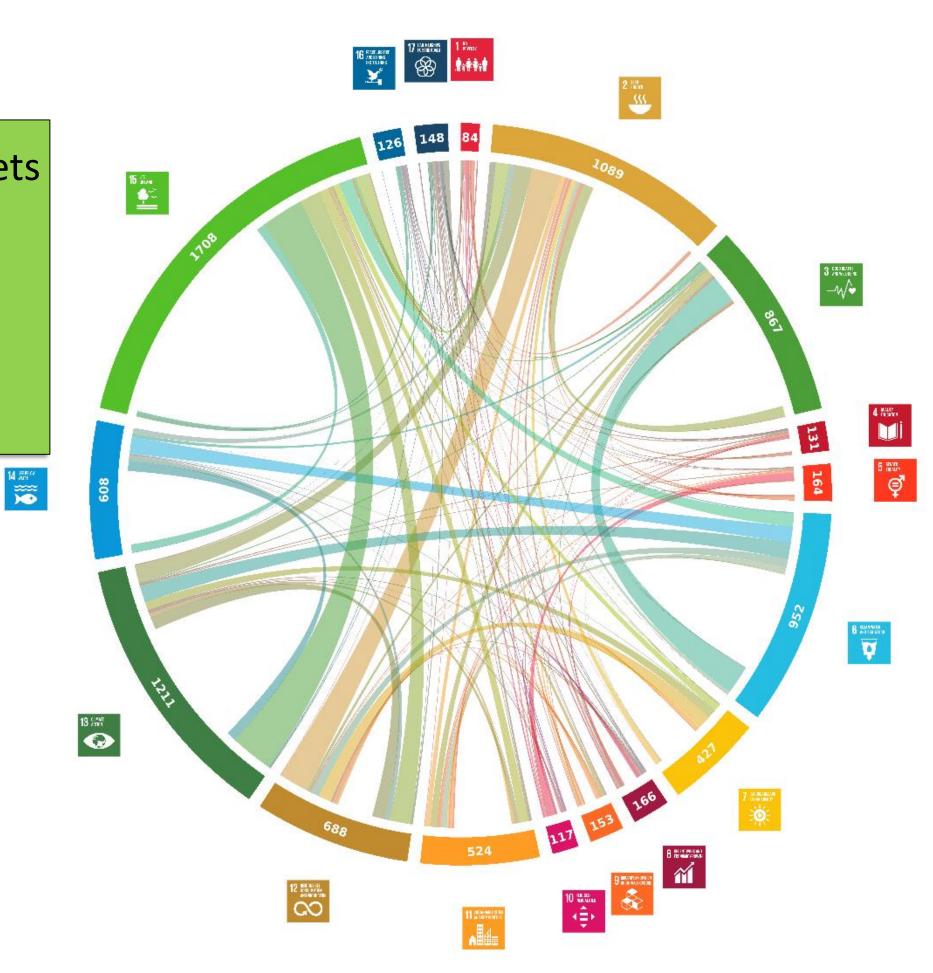
+ self reporting by scientists (reports, data etc)

Curated lists, to check relevance

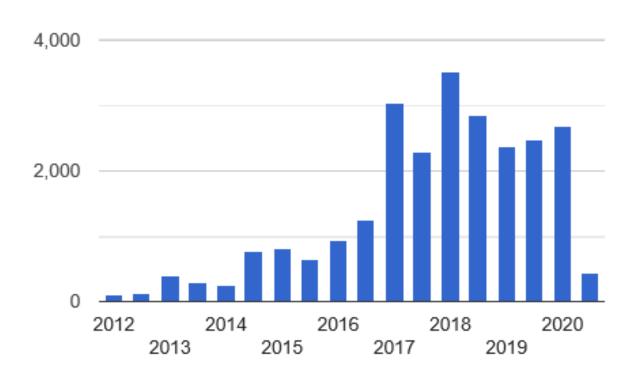
SDG2 - Zero hunger

SLU Publications

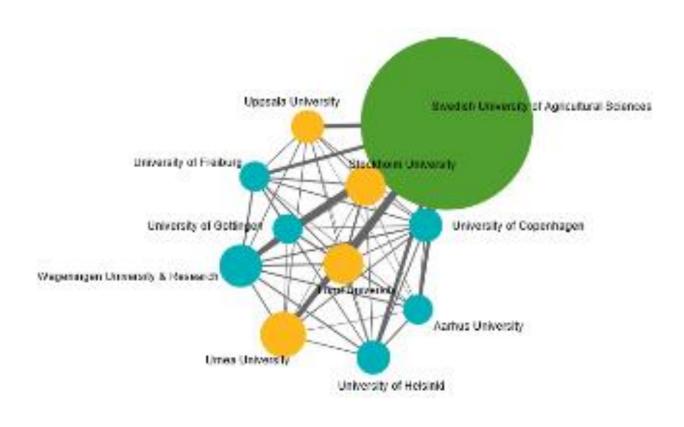
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MAKING AVAILABLE SDG RELEVA

food waste animal welfare sweden sustainable agriculture land use climate change livestock food agriculture nutrition food security

food safety wheat management genetic diversity ethiopia sustainability environment ecosystem services agroecology

biological control_{risk} assessment

DGE

Search function:

Publications related to several SDGs



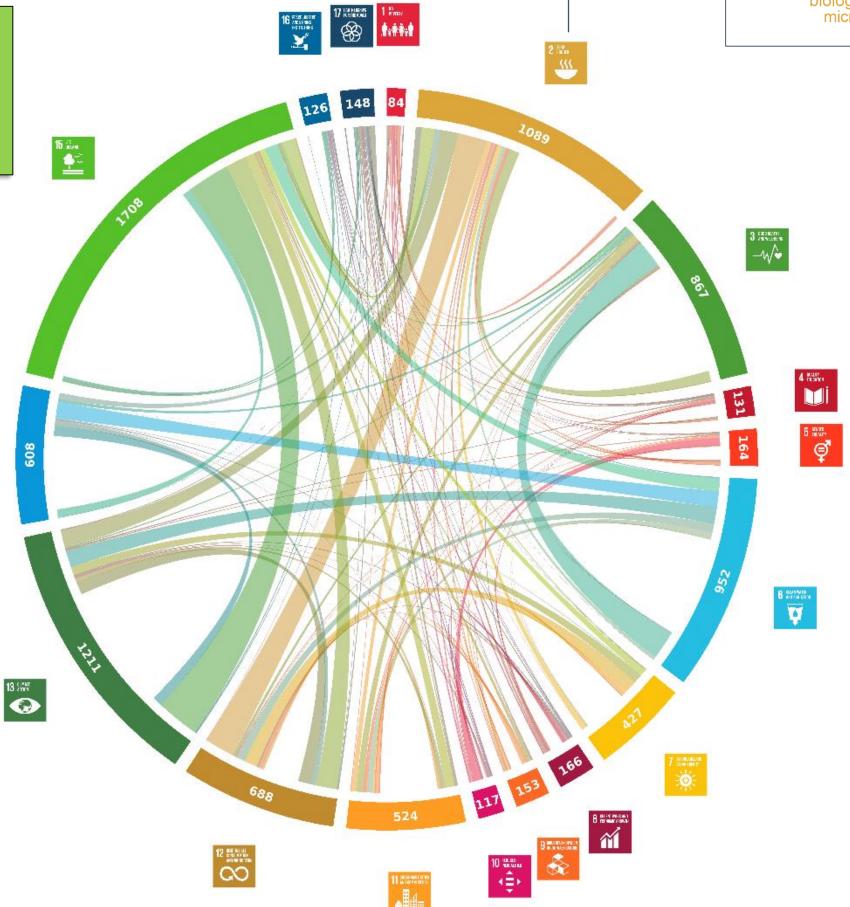
14 ART

perca fluviatilis freshwater

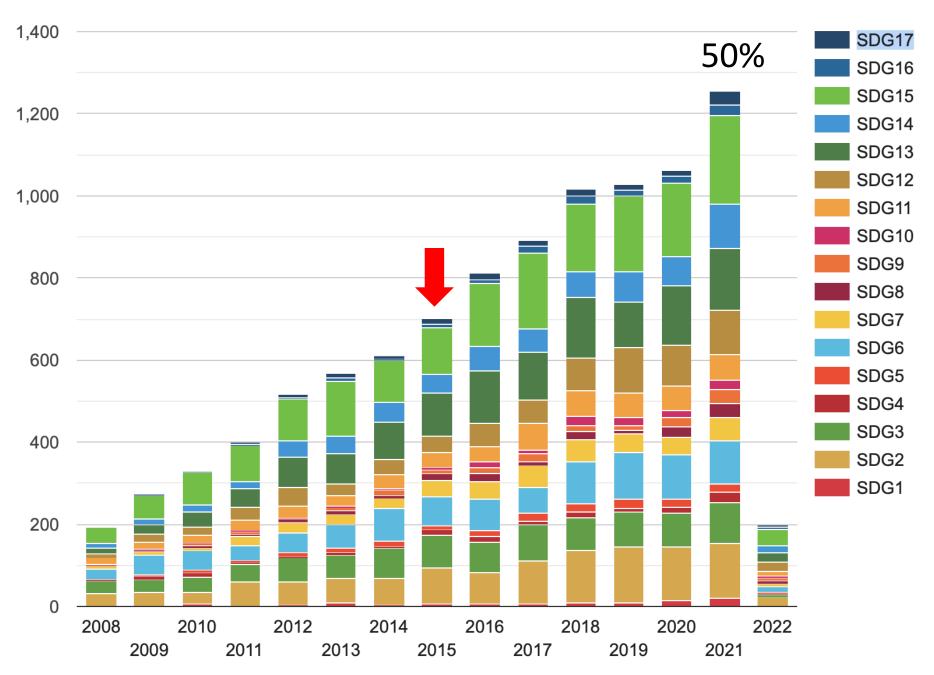
perch lakes nitrogen competition
ecosystem-based management
temperatureherring phosphorus
cod climate change
reproduction fish fisheries kattegat

Dattic sea

eutrophication predation fisheries management biodiversity management sprat aquaculture gadus morhua stock assessment atlantic salmon conservation



Number of SDG-relevant publications







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International Collaboration for Tackling Grand Challenges

Jojo Nem Singh

Assistant Professor in International Development, ISS Erasmus University Rotterdam, the Netherlands

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Building International Collaboration within an ERC Project

Jewellord (Jojo) T. Nem Singh

Principal Investigator, GRIP-ARM (ERC STG No. 950056)

AESIS Conference | 04 November 2022







International Institute of Social Studies

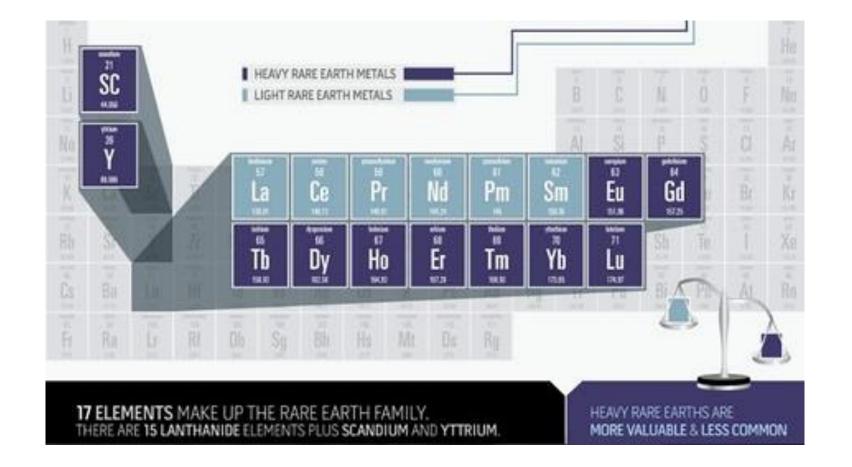
Project Overview

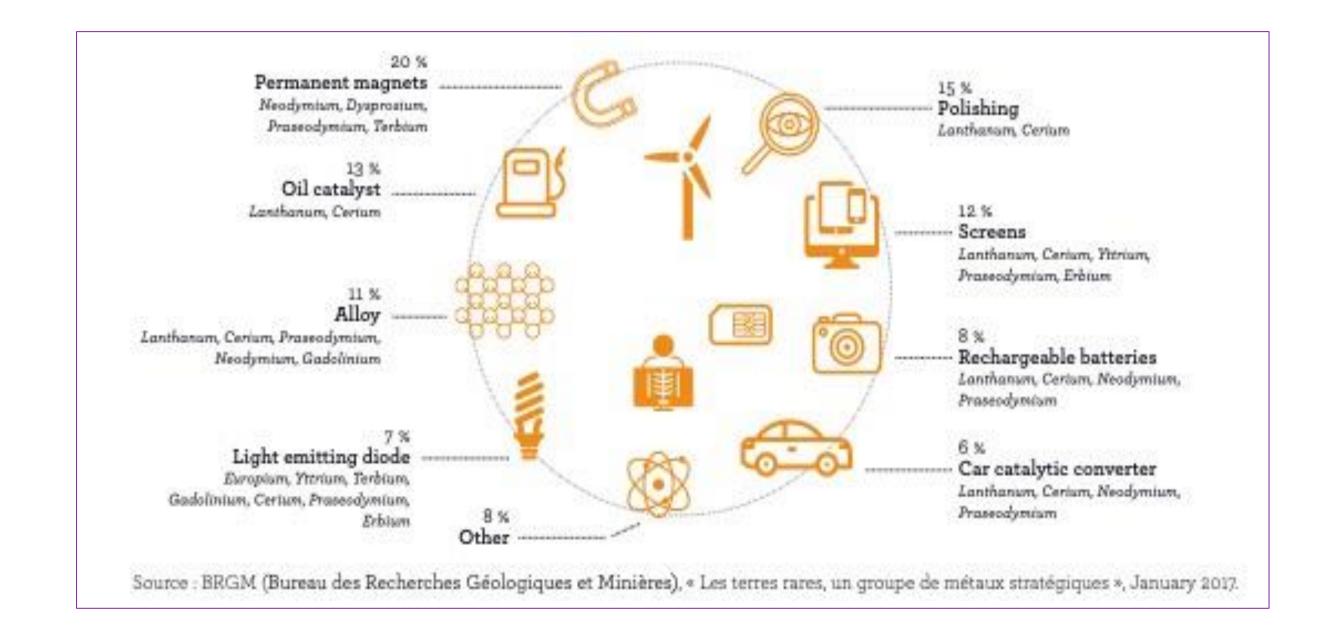
Green Industrial Policy in the Age of Rare Metals



What are Rare Earths Elements?

- Rare earth elements (REEs) family of rare metals consisting of 17 elements with similar chemical properties.
- 'Vitamins of the Modern Economy' mining in small scale BUT requires separation and processing.



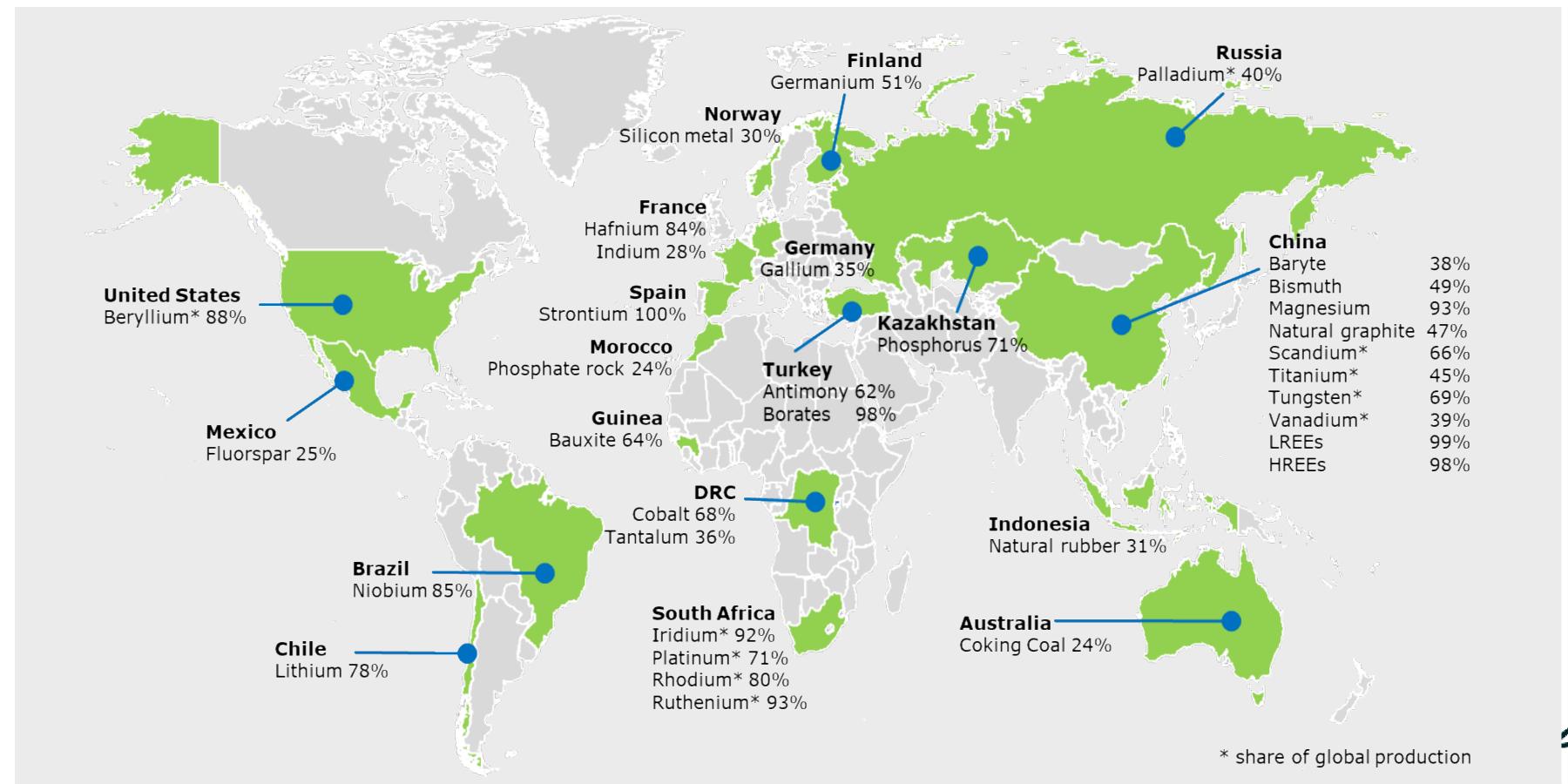




Why study 'critical minerals'?

- Strategic dependence on minerals from China can lead to geopolitical vulnerabilities
- Primary mining is confined in only few countries

 industrial competitiveness can be threatened in the context of deglobalization
- Mineral producer states will play a larger role in reshaping consumer countries' industrial policy





Our Main Questions

How do state capacity, business power, and organizational structure of domestic markets shape the design of industrial policies in resource-rich countries?

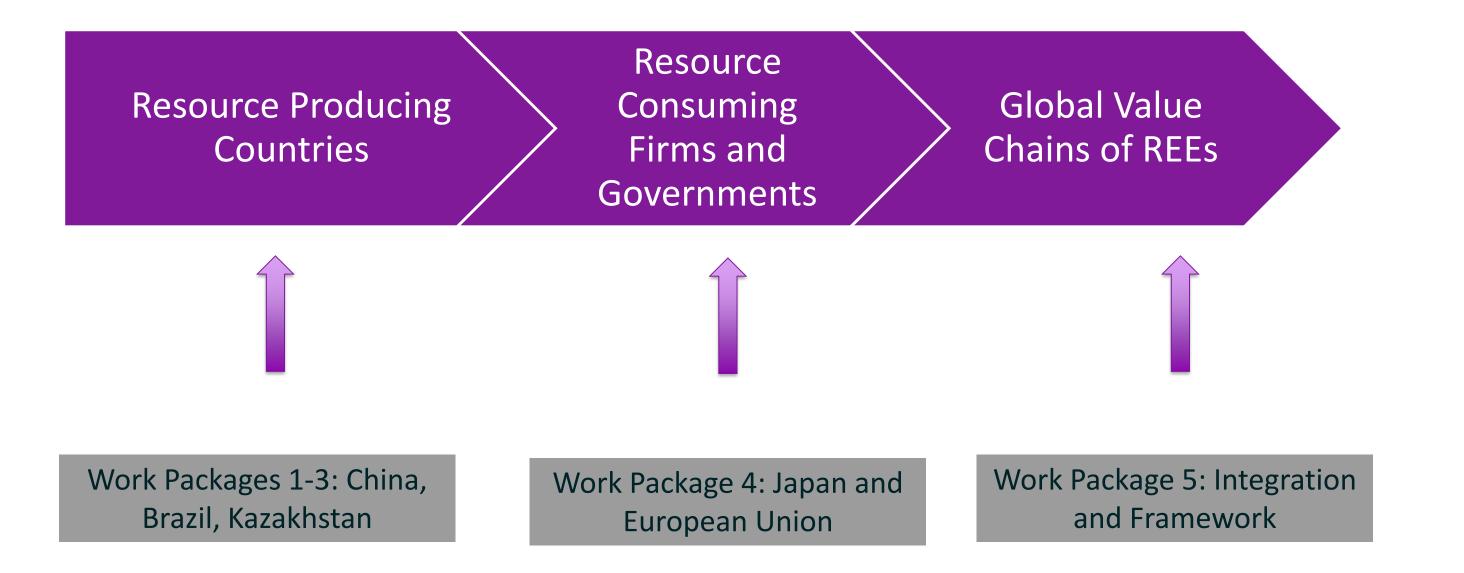
How do some countries successfully generate linkages between resource extraction and manufacturing, and what accounts for their failure?

How effective are the responses of resource-consuming countries and manufacturing firms in securing a stable supply chain whilst reducing the socio-environmental costs of extraction?



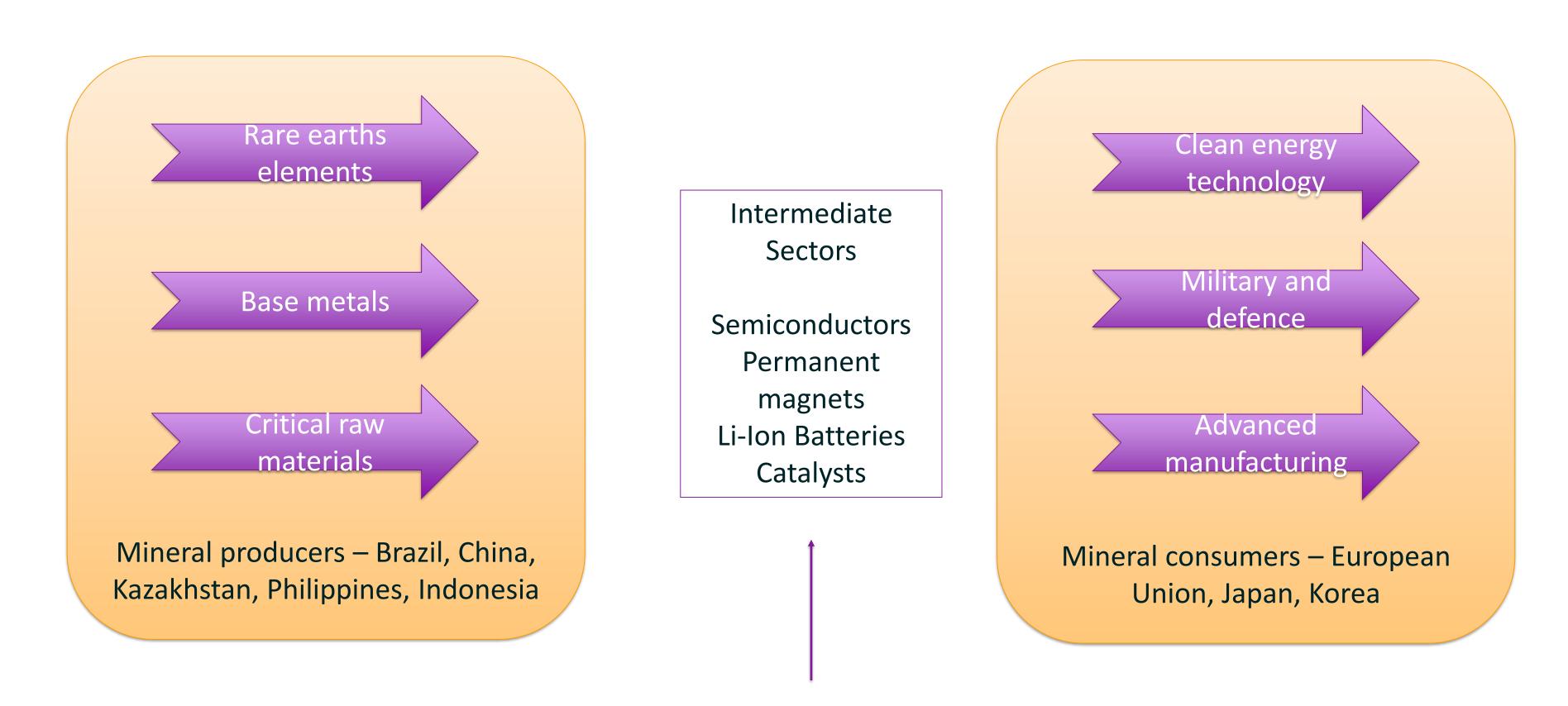
A Global Value Chains Approach to Mining-based Development

- I. Centralised industrial policies + grand strategy linked to BRI (China);
- II. Hybrid industrial policies + public-private sector participation (Brazil);
- III. Mixture of public-private participation of MNEs (Kazakhstan).





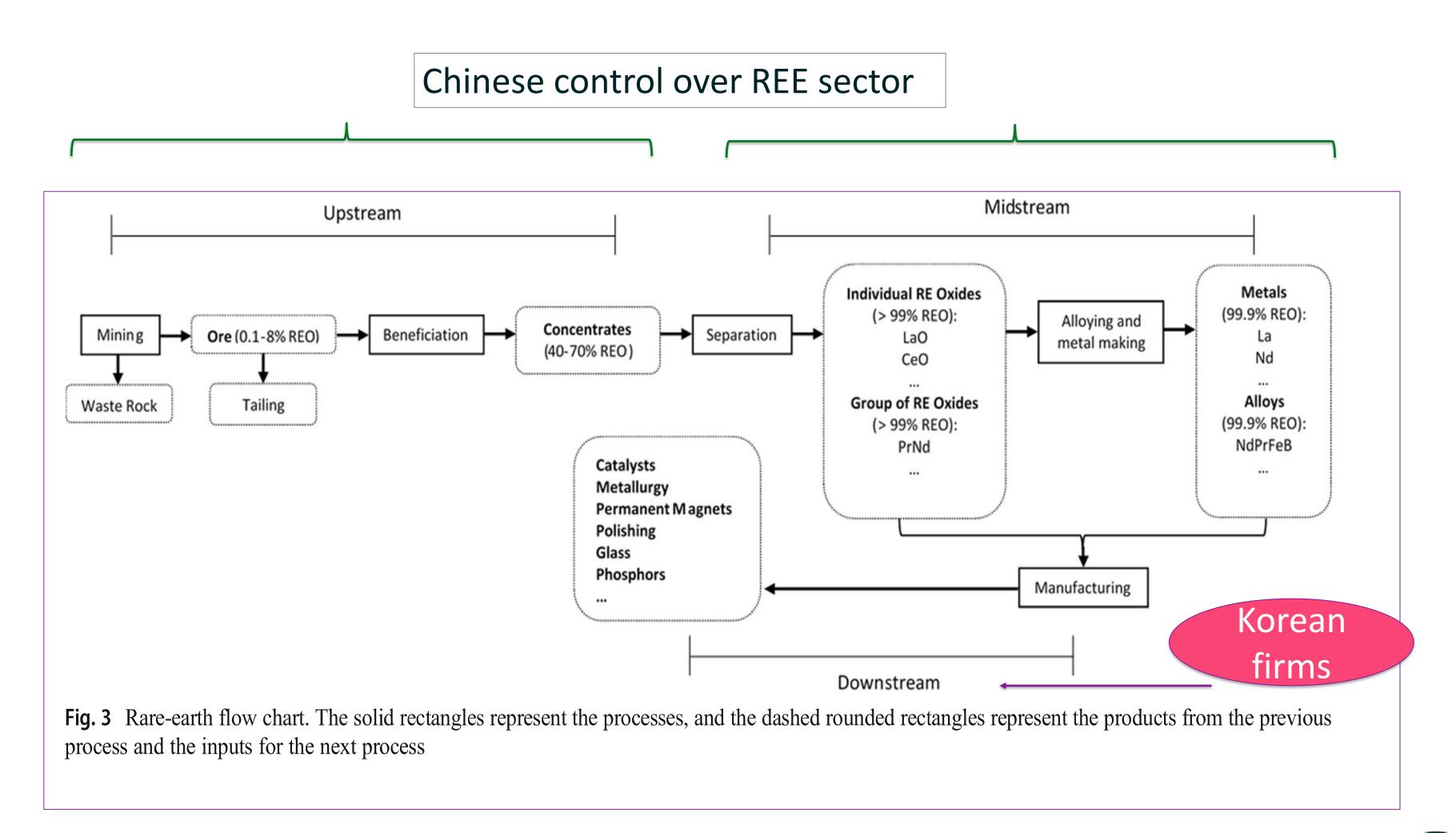
Our Work Focus in the Value Chains



Japan, Korea, China, USA, selected EU countries

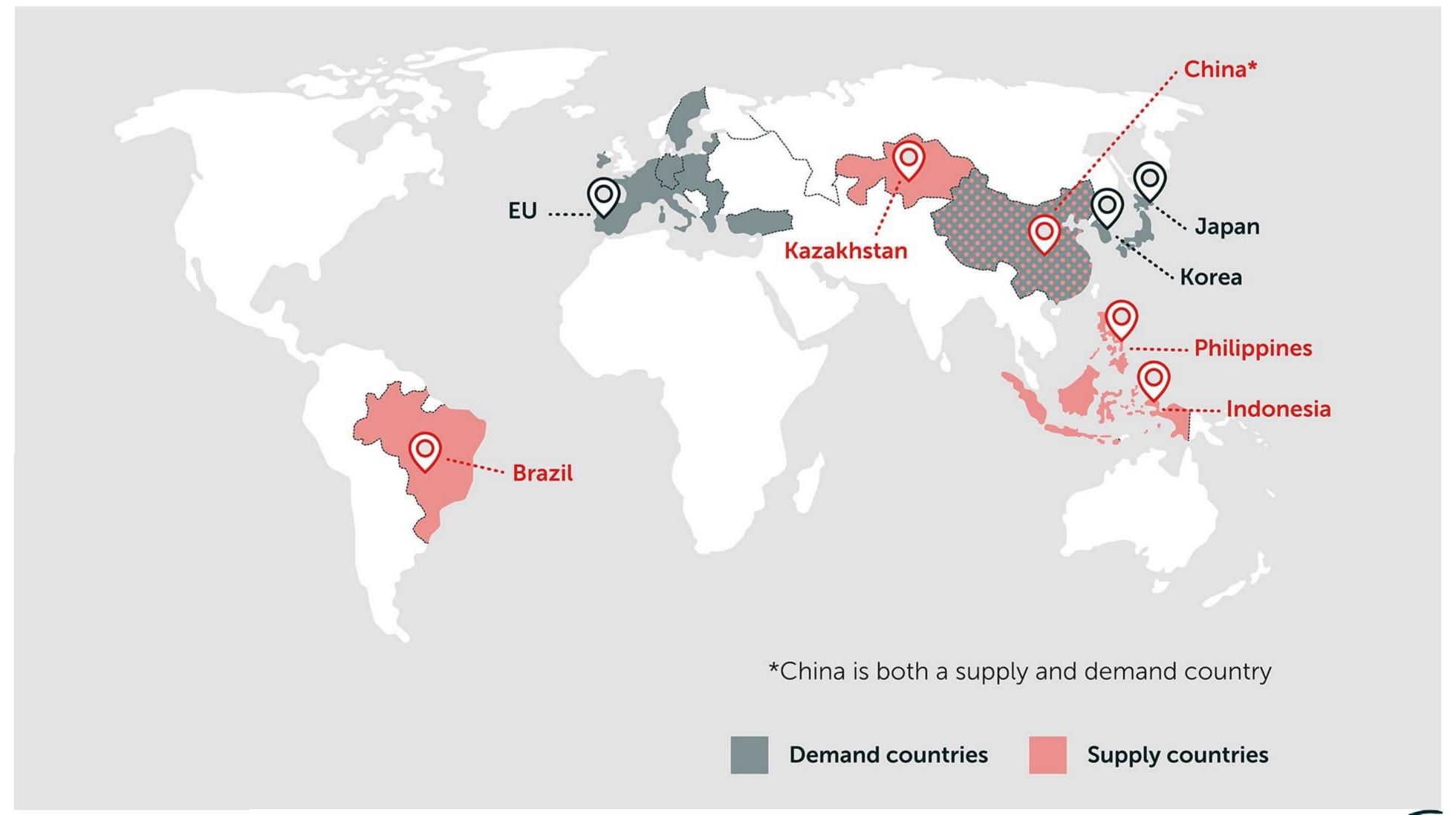


Supply Chain of Rare Earths Elements





Our Fieldwork Sites





Project Collaboration

- We draw strength by bringing together our combined expertise in Asian Studies and Development Studies
- Embedding our research team in a global network of academics and practitioners



International Institute of Social Studies



Research Strategy

- Build an International Advisory Board at proposal stage to ensure delivery of data collection Tsinghua University, Tokyo University, IIAS, but also Embassy of Brazil and UNRISD Geneva.
- Expand the research network in Year 1 Wilson Centre, UNDP, Embassy of Kazakhstan + top research universities in Asia (Seoul National University, Ateneo de Manila, University of São Paolo)
- Year 2: Focus on building network with private sector industry associations, major companies in mining and downstream sectors, EU Battery Alliance



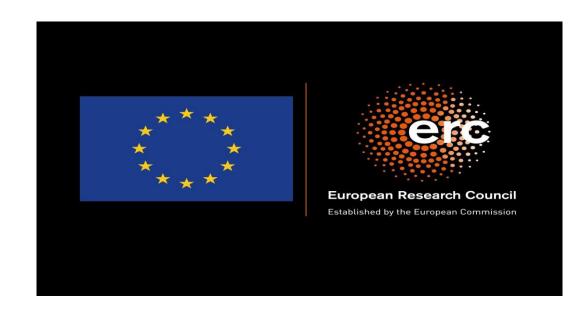
Maximizing the ERC Grant

- 100% scientific project but important to engage with policy-makers
- National workshops at the end of project cycle
- Speaker Series focussed on four key pillars critical minerals governance, industrial policy, environment and sustainability, China and geopolitics
- We are setting up a *Policy Paper Series* aimed at decision-makers
- ullet Publication cycle of papers and blogs ullet academic and non-academic audiences



Thank you!

- Visit my webpage: https://nemsingh.com/
- University website: https://www.iss.nl/en/people/jojo-nem-singh
- Project website: https://www.iss.nl/en/research/research-
 projects/transregional-comparison-growth-strategies-rare-earth-mining
- Follow me on twitter: @JNemSingh @GRIP_ARM







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Heidi van Rooyen

Group Executive: Impact Centre & Acting DCEO Research, Human Sciences
Research Council, South Africa

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Panel discussion and Q&A

Ylva Hillbut (Chair)

Jojo Nem Singh

Heidi van Rooyen

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