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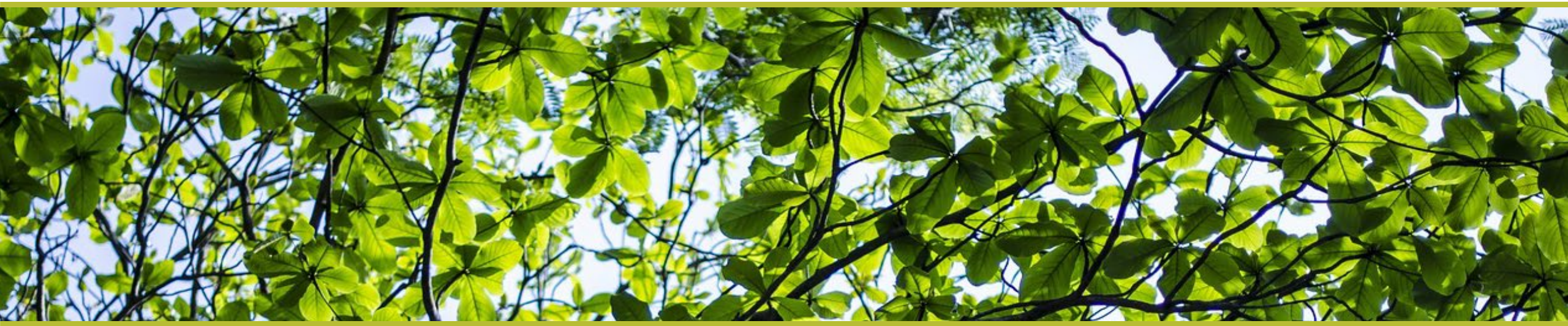
world of biodiversity



Terrestrial biodiversity research

Gabriela Rabeschini
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Kastner Lab Group

Leibniz Association

Senckenberg Biodiversity and Climate
Research Centre (BiK-F)

Evidence-based decisions, **measurable** goals and scientific co-design to support the transformation to nature-positive business practices

Business

Science

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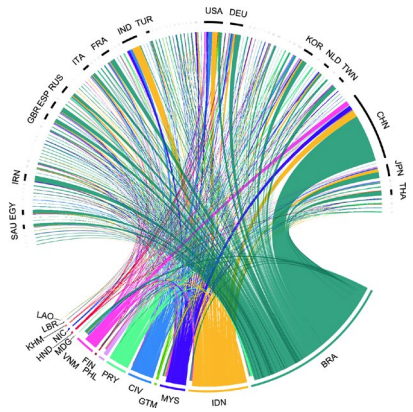
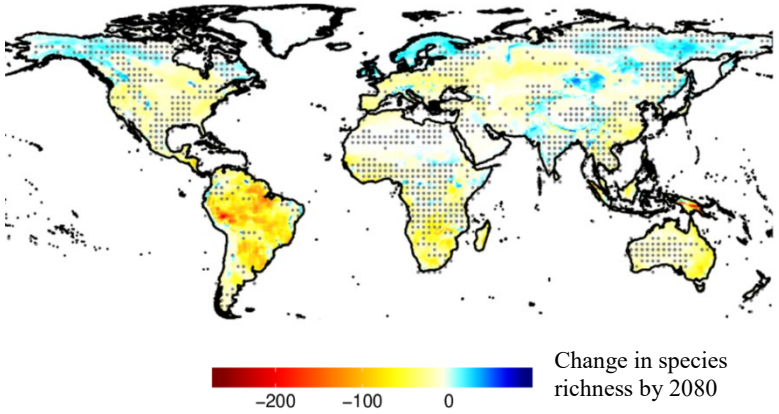
BioImpact: Assessing the biodiversity footprint of companies

Project: linking biodiversity research and the private sector

Aim: Develop and provide a service for assessing and evaluating biodiversity impacts of companies



Land-use change
(Production areas)



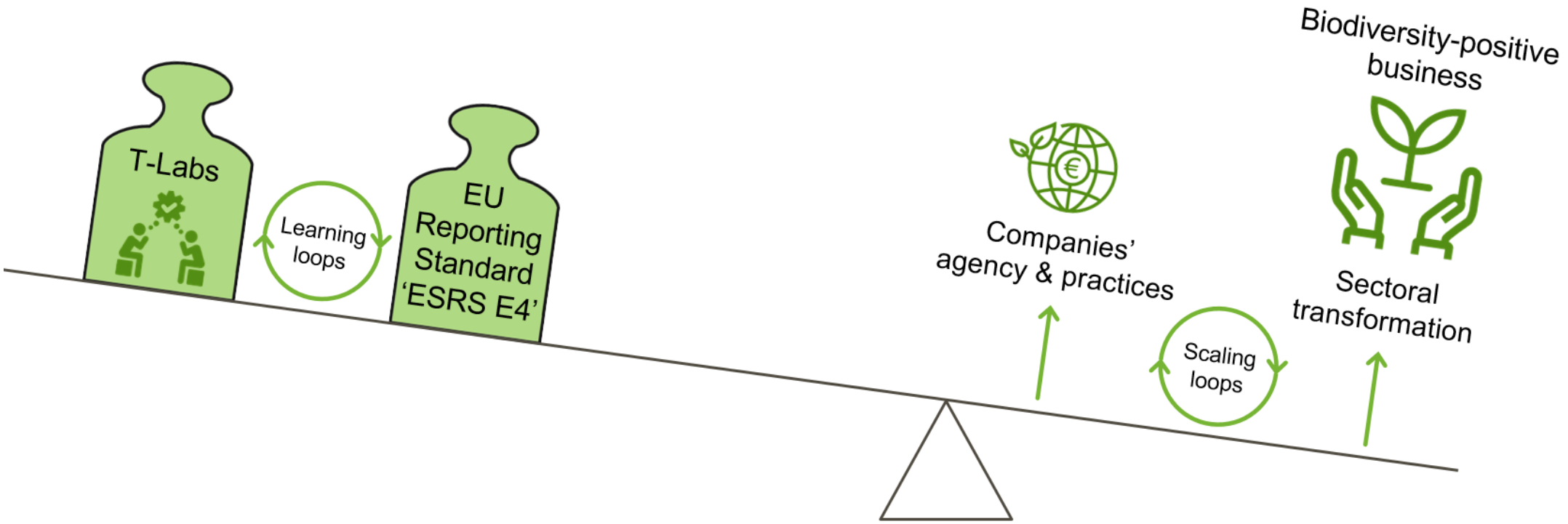
Climate change
(Emissions)

Invasive species
(International transport)

Schwarzmüller & Kastner 2022, Sustainability Science, Hof et al 2018, PNAS

Business for Biodiversity:

T-Labs as experimental spaces to foster social-ecological transformation



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Tracing impacts of agricultural production and consumption on ecosystems and biodiversity along international supply chains

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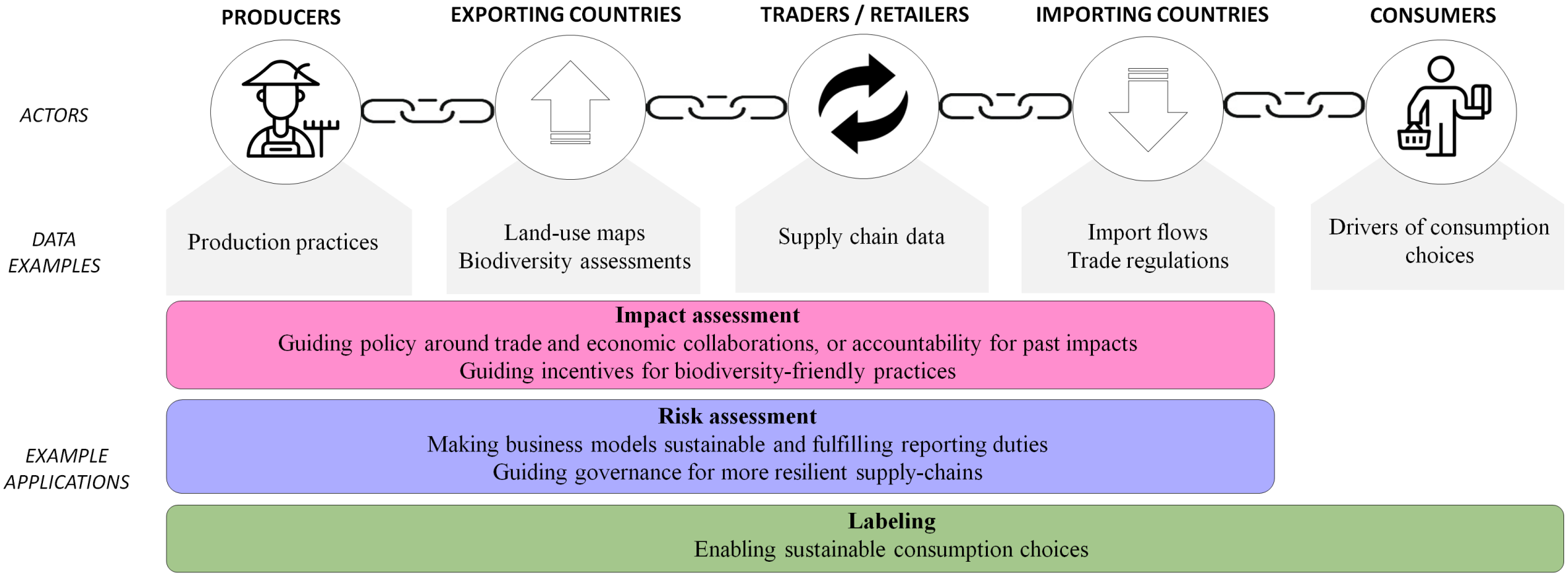
Assessing biodiversity impacts



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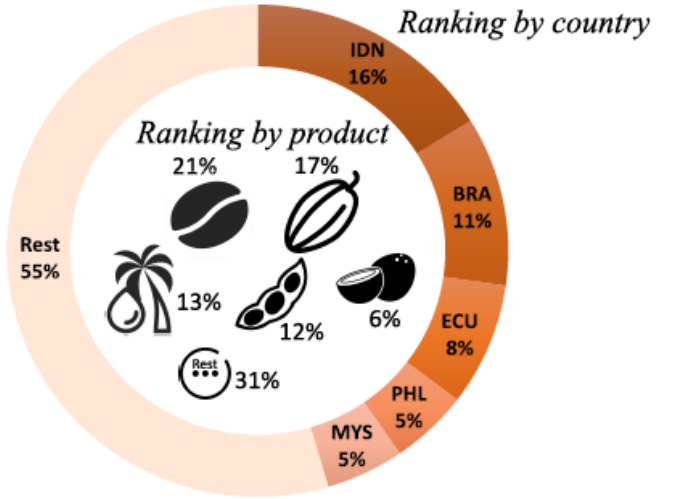
Ex.:

Biodiversity impacts of consumption in Germany



Global loss of vertebrate species

National level assessments can identify countries/regions or products of interest that could be targeted by policy interventions. They can also guide supply-chain initiatives in order to minimize impacts. The values here are very general and should be reassessed for specific producer countries and products.

Data from Kastner et al. (*One Earth 2021*)

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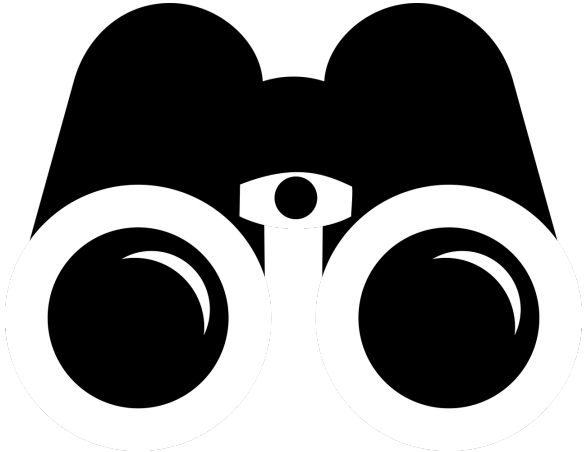
Outlook

- Shifting of burdens and benefits and power relations
- Options for action in different scales / actors perspectives
- Trade-offs between different impacts
- Feedbacks between impacts and dependencies



https://www.senckenberg.de/en/institutes/sbik-f/movement-ecology/impacts-of-the-consumption-of-agricultural-and-forestry-products/