

CIRCULAR ECONOMY & Czech Republic

SOŇA JONÁŠOVÁ - WWW.INCIEN.ORG

GOVERNMENT
-
PUBLIC SPHERE
-
NGO'S

MUNICIPALITIES

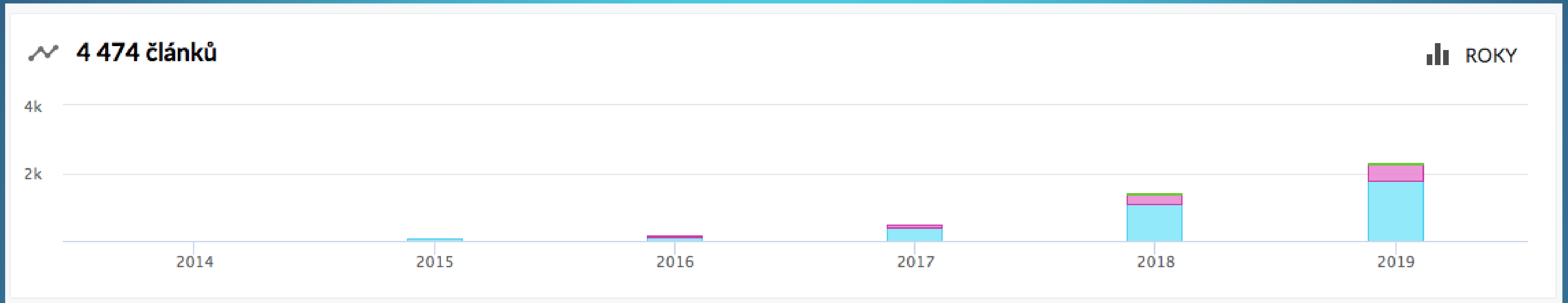


INSTITUT
CIRKULÁRNÍ
EKONOMIKY

BUSINESS

CITIZENS

CE awareness in Czech media



2014 – 13 articles

2015 – 78 articles

2016 – 165 articles

2017 – 497 articles

2018 – 1399 articles

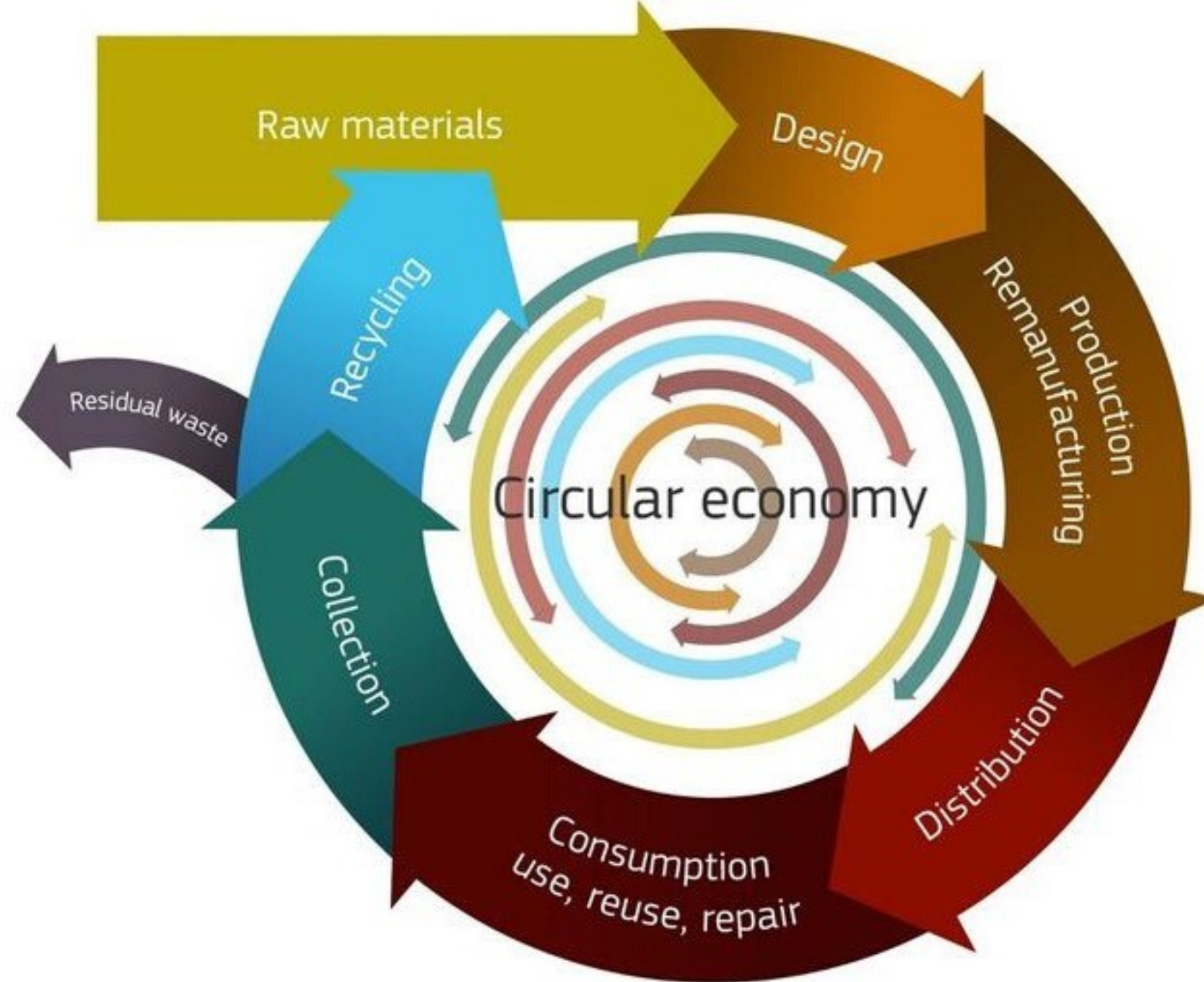
2019 – 2322 articles

“Oběhové hospodářství“:

2019 – 1137 articles

STRONG MOTIVATION AND VISION





Vs

Linear economy



CE GOALS

65 % Municipal Waste **(real)**
Recycling target (by 2035)

Phase out landfilling of all
recoverable waste (by 2024
- 2030 ???)

 **CÍLE**  **UDRŽITELNÉHO ROZVOJE**

1 KONEC CHUDOBY



2 KONEC HLADU



3 ZDRAVÍ A KVALITNÍ ŽIVOT



4 KVALITNÍ VZDĚLÁNÍ



5 ROVNOST MUŽŮ A ŽEN



6 PITNÁ VODA, KANALIZACE



7 DOSTUPNÉ A ČISTÉ ENERGIE



8 DŮSTOJNÁ PRÁCE A EKONOMICKÝ RŮST



9 PRŮMYSL, INOVACE A INFRASTRUKTURA



10 MĚNĚ NEROVNOSTÍ



11 UDRŽITELNÁ MĚSTA A OBCE



12 ODPOVĚDNÁ VÝROBA A SPOTŘEBA



13 KLIMATICKÁ OPATŘENÍ



14 ŽIVOT VE VODĚ



15 ŽIVOT NA SOUŠÍ



16 MÍR, SPRAVEDLNOST A SILNÉ INSTITUCE



17 PARTNERSTVÍ KE SPLNĚNÍ CÍLŮ




CÍLE
UDRŽITELNÉHO
ROZVOJE

CURRENT LEGISLATION AS A DRIVER

Legislative package on CIRCULAR ECONOMICS:

- Robust framework for waste management with clear objectives
- **Ecodesign** plan (2016-2019) (energy labels, material efficiency, spare parts availability)
- Consumer empowerment. Methods to determine the environmental impact of a product (PEF) or an organization (OEF).
- Definition of new directions of food waste management
- Strategies for handling critical raw materials
- New municipal **waste recycling targets of 55% in 2025** and 60% in 2030
- **Maximum landfill rate of 10% in 2035**

Directive of the EP and the Council on limiting the environmental impact of certain plastic products:

- **90 % collection rate for plastic drink bottles by 2029**
- SUP - single use plastic

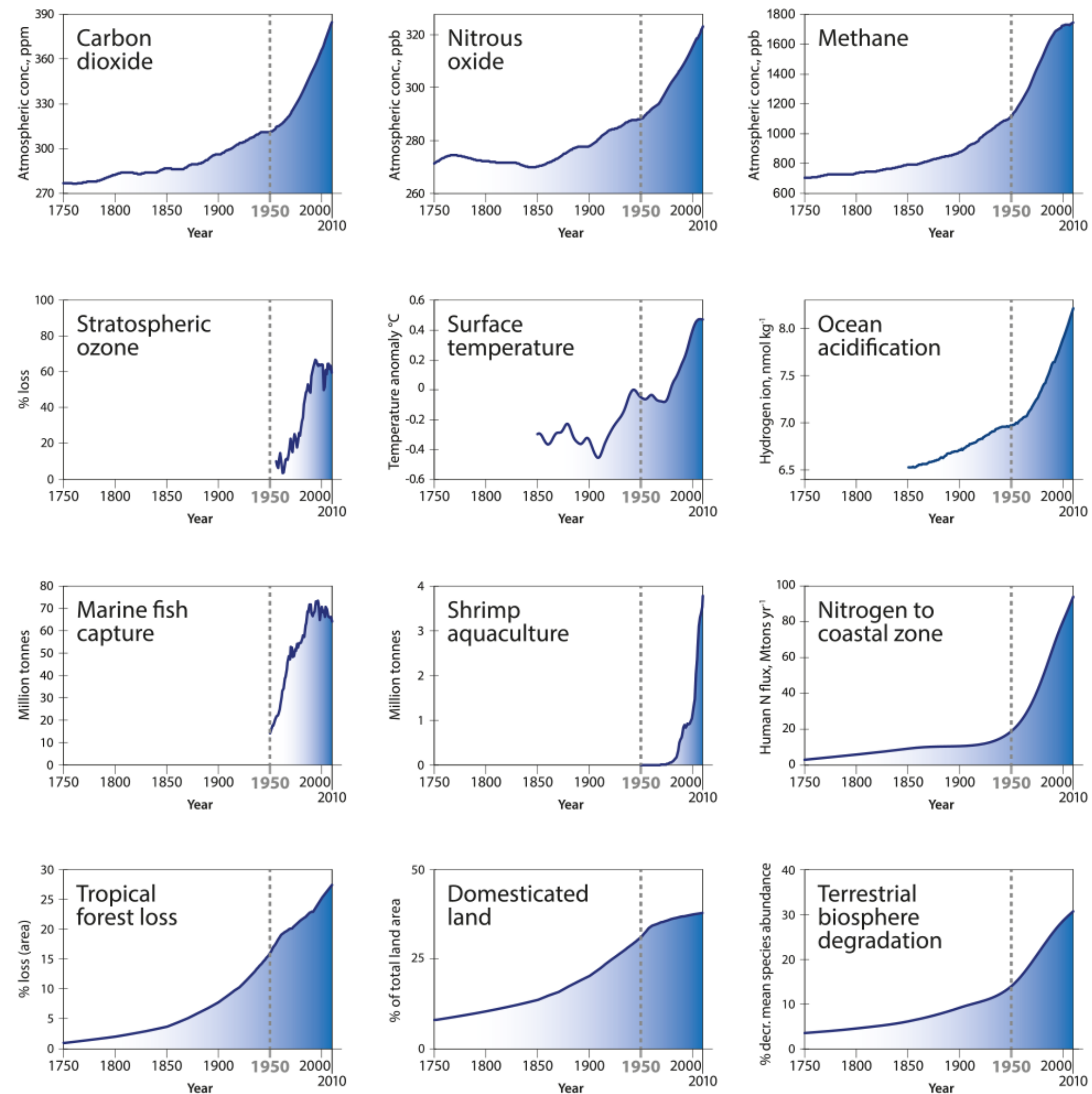
Innovation and investment:

2016 - 2020 € 10bn for CE transition by the European Commission (CE financing platform - synergy with EIB)

Financing from Horizon 2020, ESI funds, EU structural funds, national investments in CE

**WHY IS A CIRCULAR
ECONOMY A BIG TOPIC NOW?
- global perspective -**

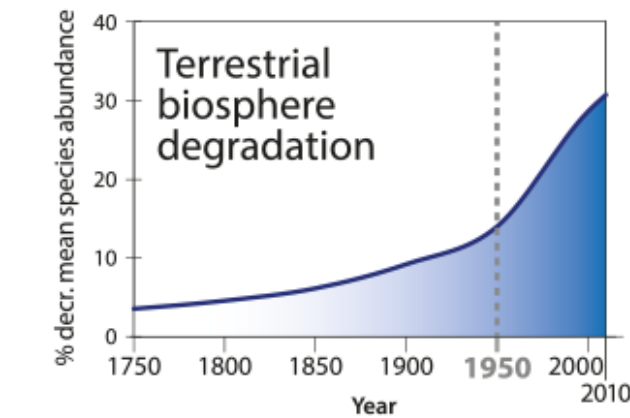
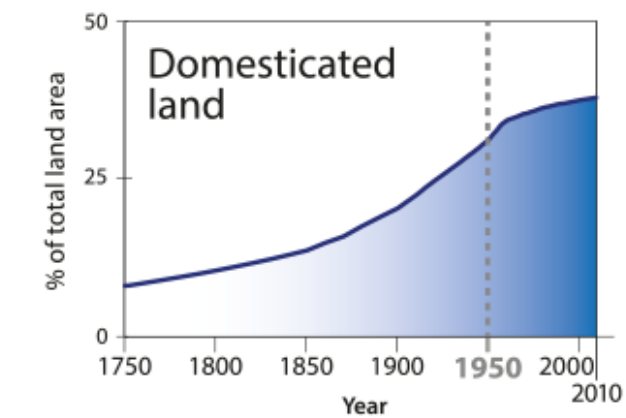
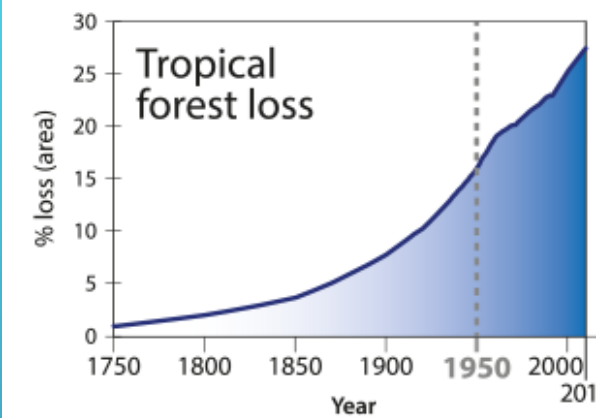
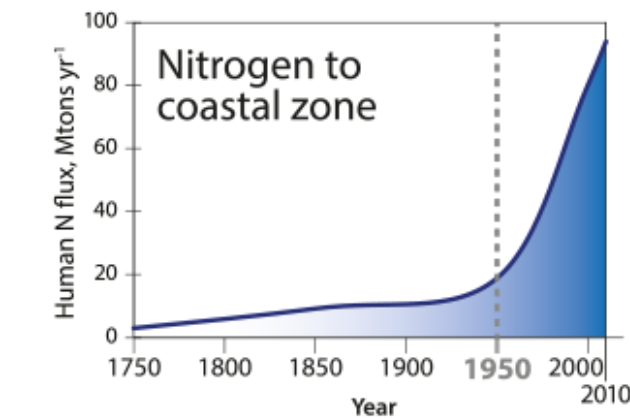
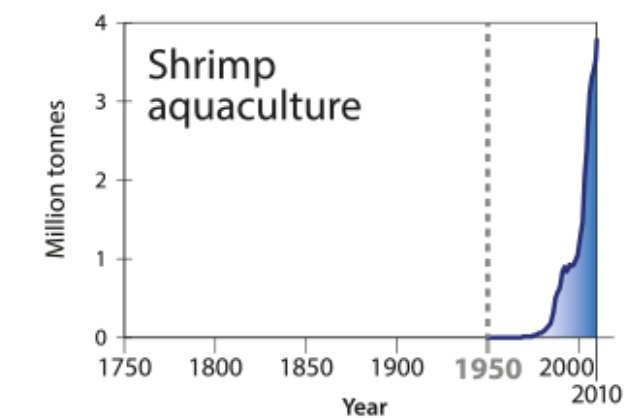
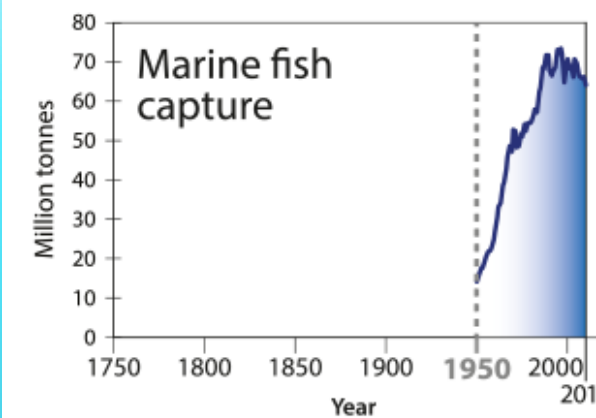
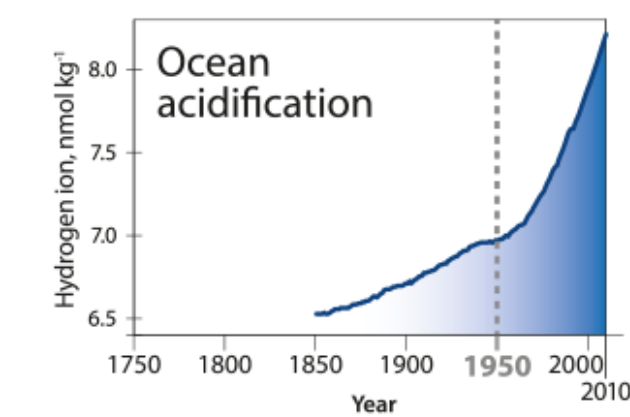
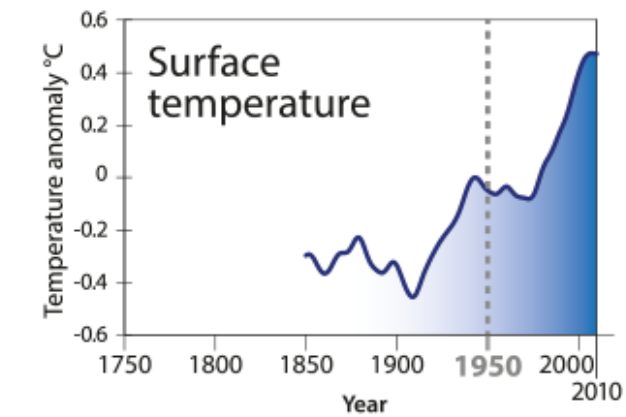
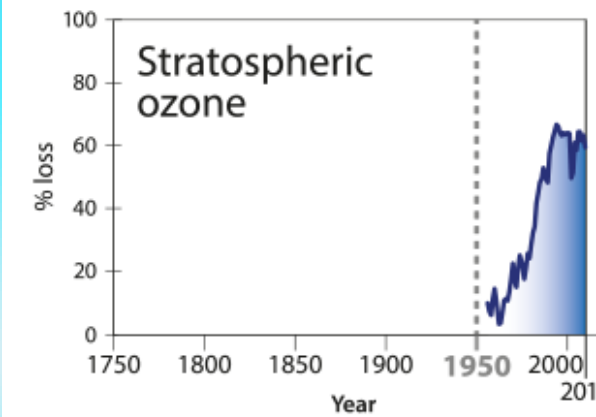
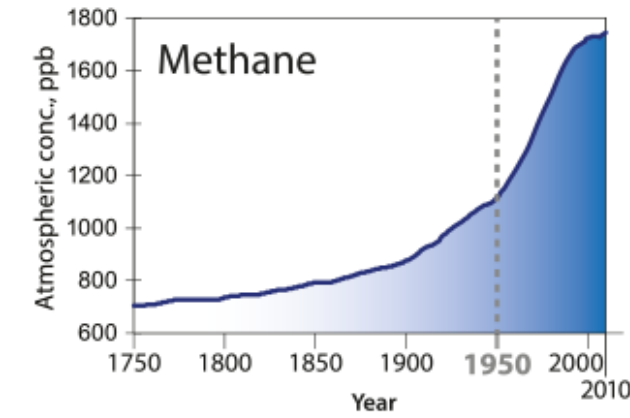
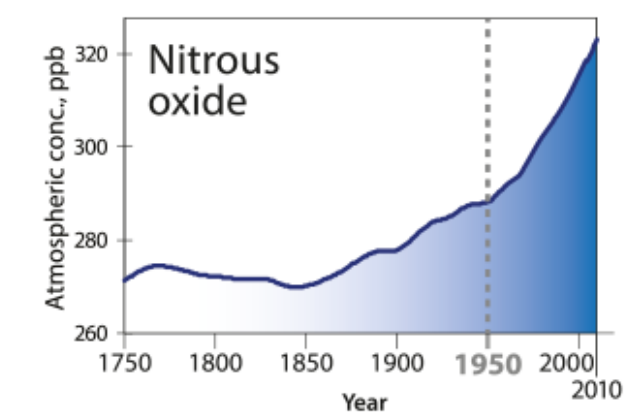
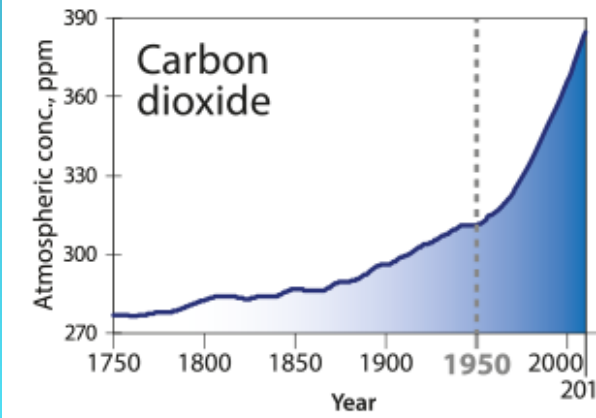
Earth system trends



We are witnessing great acceleration in human activity since 1950...

...that also brings subsequent changes in the Earth System

Earth system trends

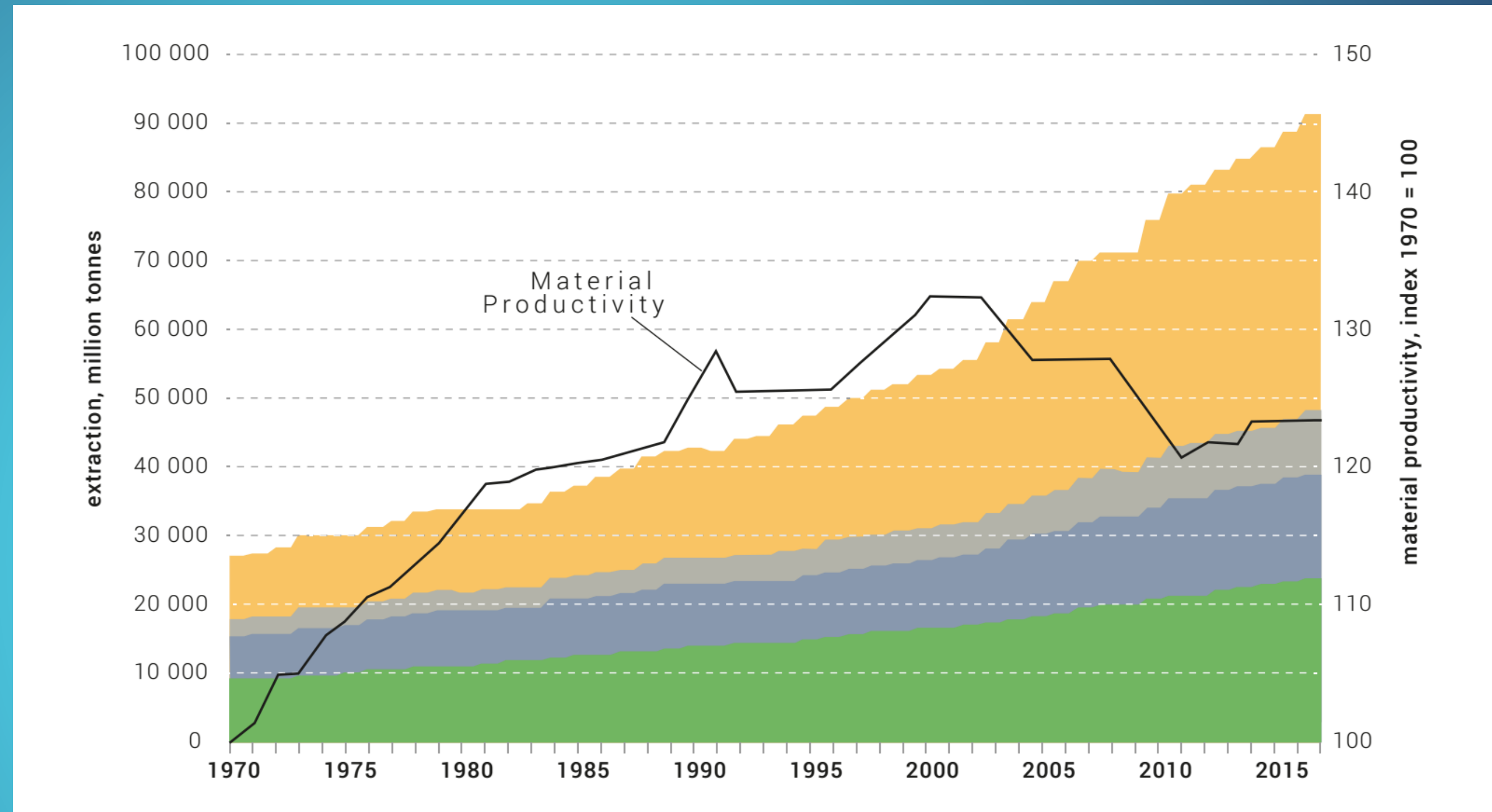


Resources: provide the foundation for the goods, services and infrastructure that make up our current socio-economic systems

- biomass (wood, crops, including food, fuel, feedstock and plant-based materials)
- fossil fuels (coal, gas and oil)
- metals (such as iron, aluminum and copper...)
- non-metallic minerals (including sand, gravel and limestone)



Relentless demand: Global resource use, Material demand per capita and Material productivity



- Global resource use has more than tripled since 1970
- Global material demand per capita grew from 7.4 tons in 1970 to 12.2 tons per capita in 2017
- Material productivity started to decline around 2000 and has stagnated in the recent years

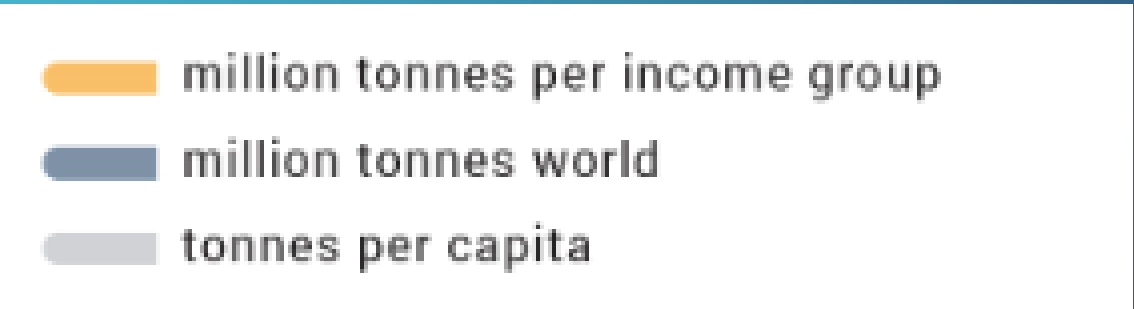


Unequal consumption: High-income countries consume 27 tons of materials per capita, low-income countries only 2 tons*



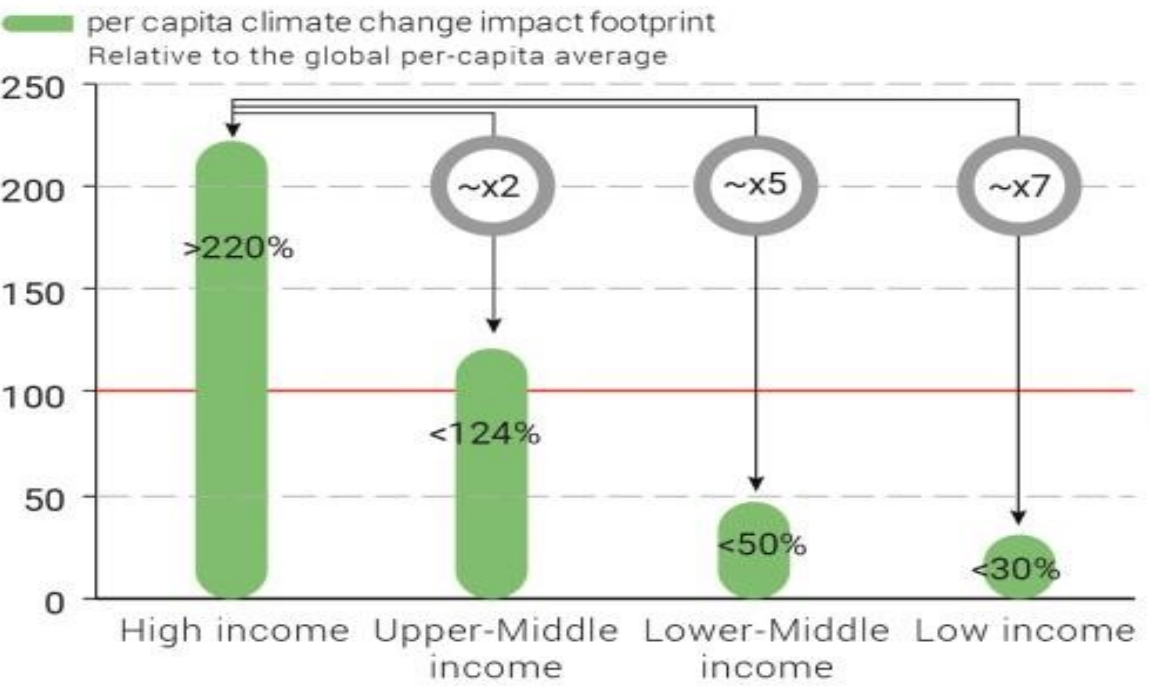
Indicators matter

- Measured in **Domestic Material Consumption (DMC)**, upper-middle income countries are the largest per-capita material consumers
- Measured in **Material Footprints (MF)**, high-income countries are by far the largest consumers per capita and are increasing their resource import dependence by 1.6 % per year
- **High-income countries are consuming more than 10 times more materials per person than low-income countries**

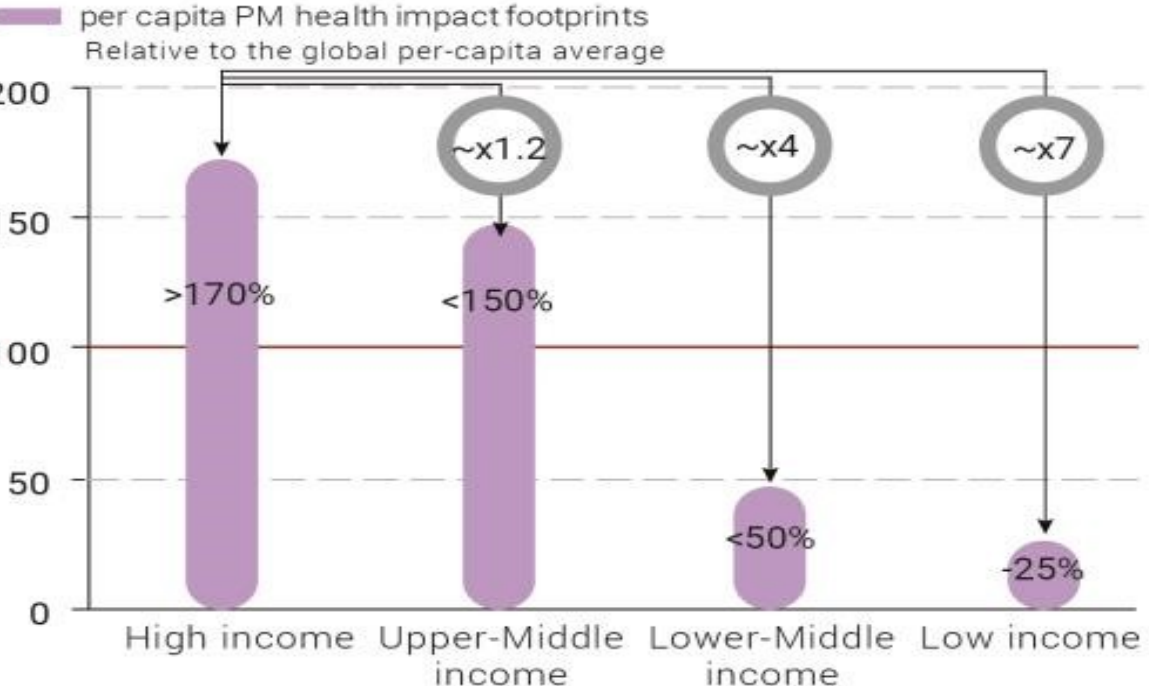


Resource extraction and processing cause >90% of water stress and global biodiversity loss, and >50% of GHG emissions

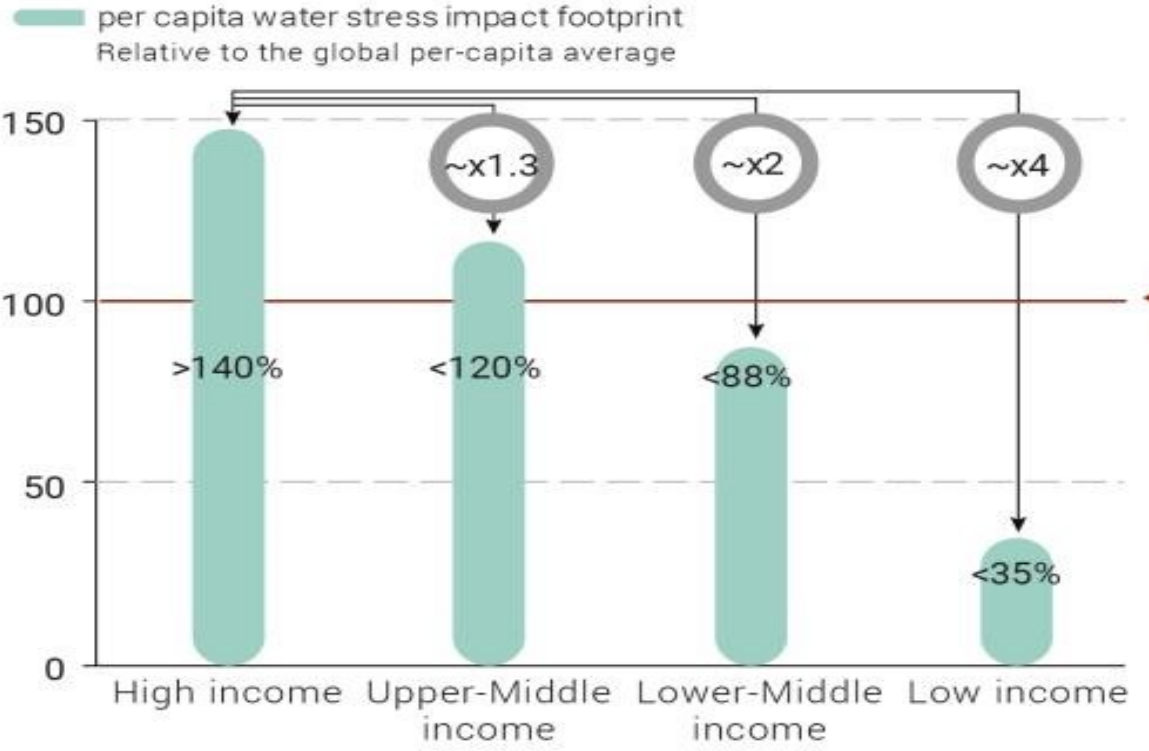
A. Climate change impact footprints of different income-level country groups in comparison



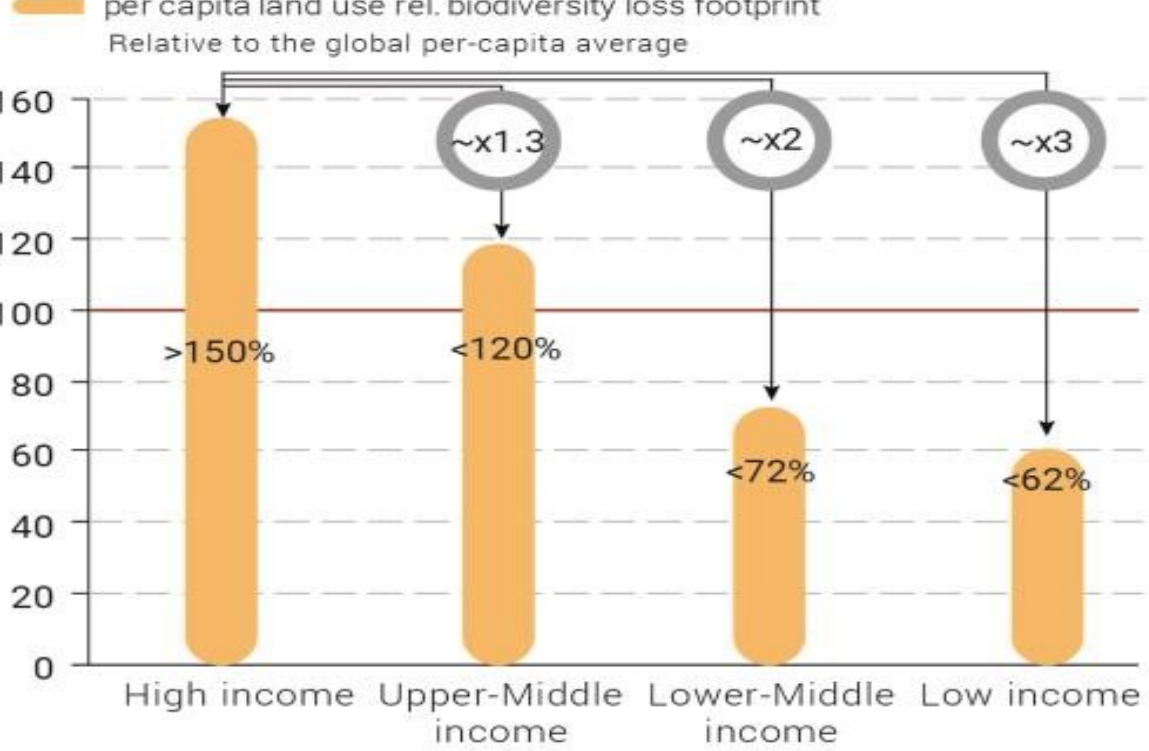
B. Particulate matter health impact footprints of different income-level country groups in comparison



C. Water stress impact footprints of different income-level country groups in comparison

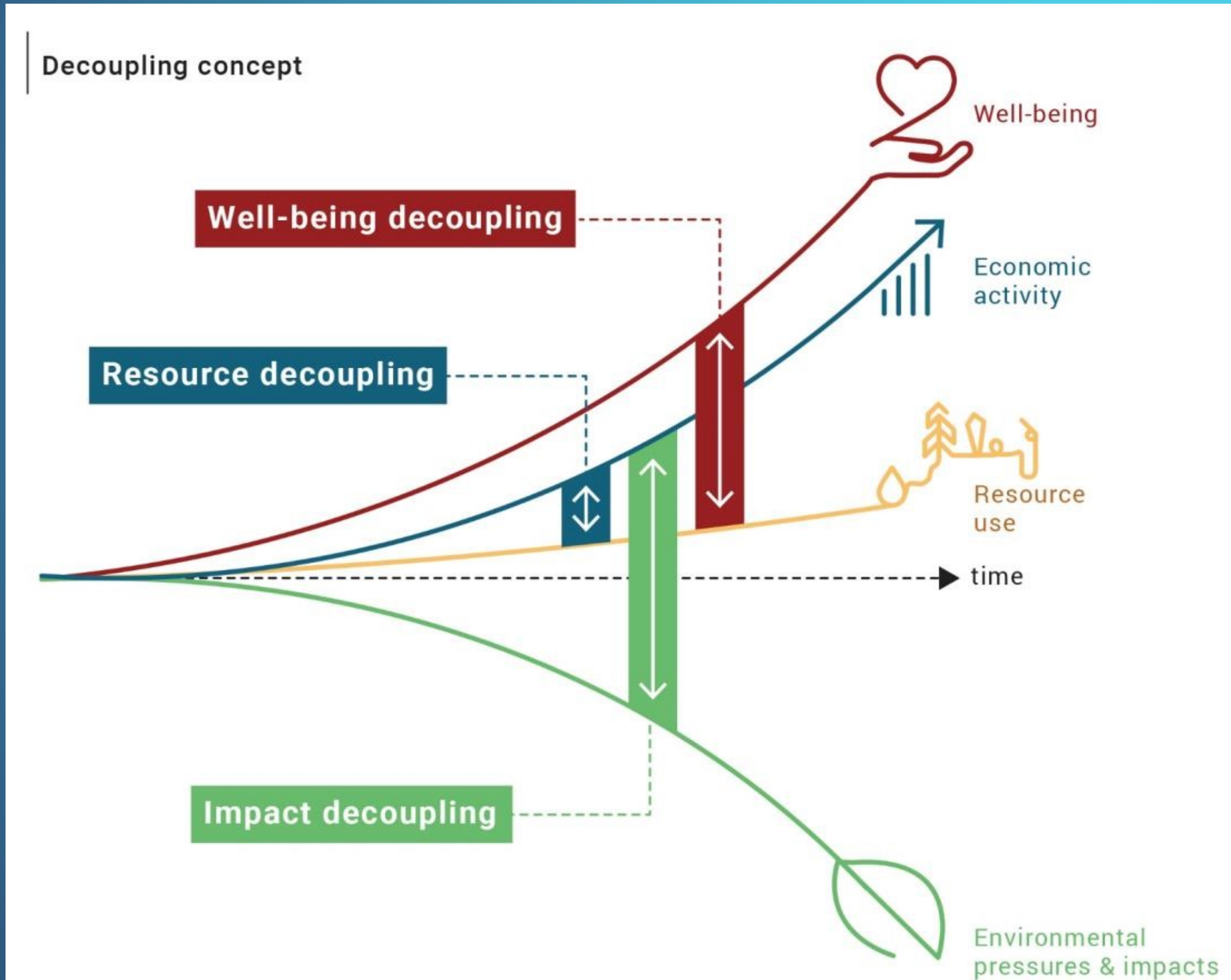


D. Land use related biodiversity loss footprints of different income-level country groups in comparison



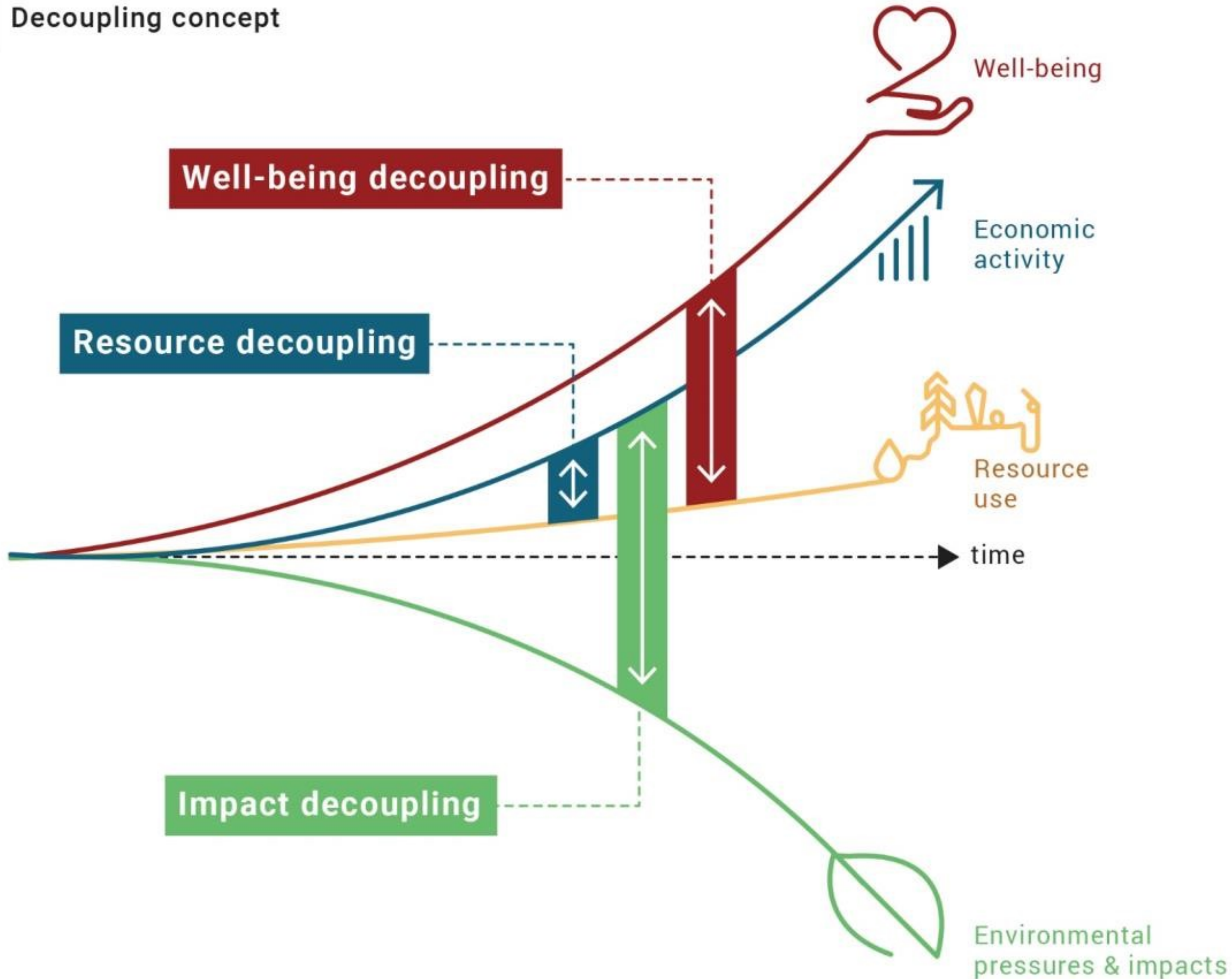
- Environmental impacts of resource use have grown more slowly than the economy since 1970, but their absolute growth trend is still exceeding the planetary boundaries.
- GRO focuses on impacts of extraction and processing – the use of materials causes additional impacts (specifically in climate change and health)

Unequal impacts: Impacts of material consumption are 3 to 6 times greater in high-income countries than in low-income countries



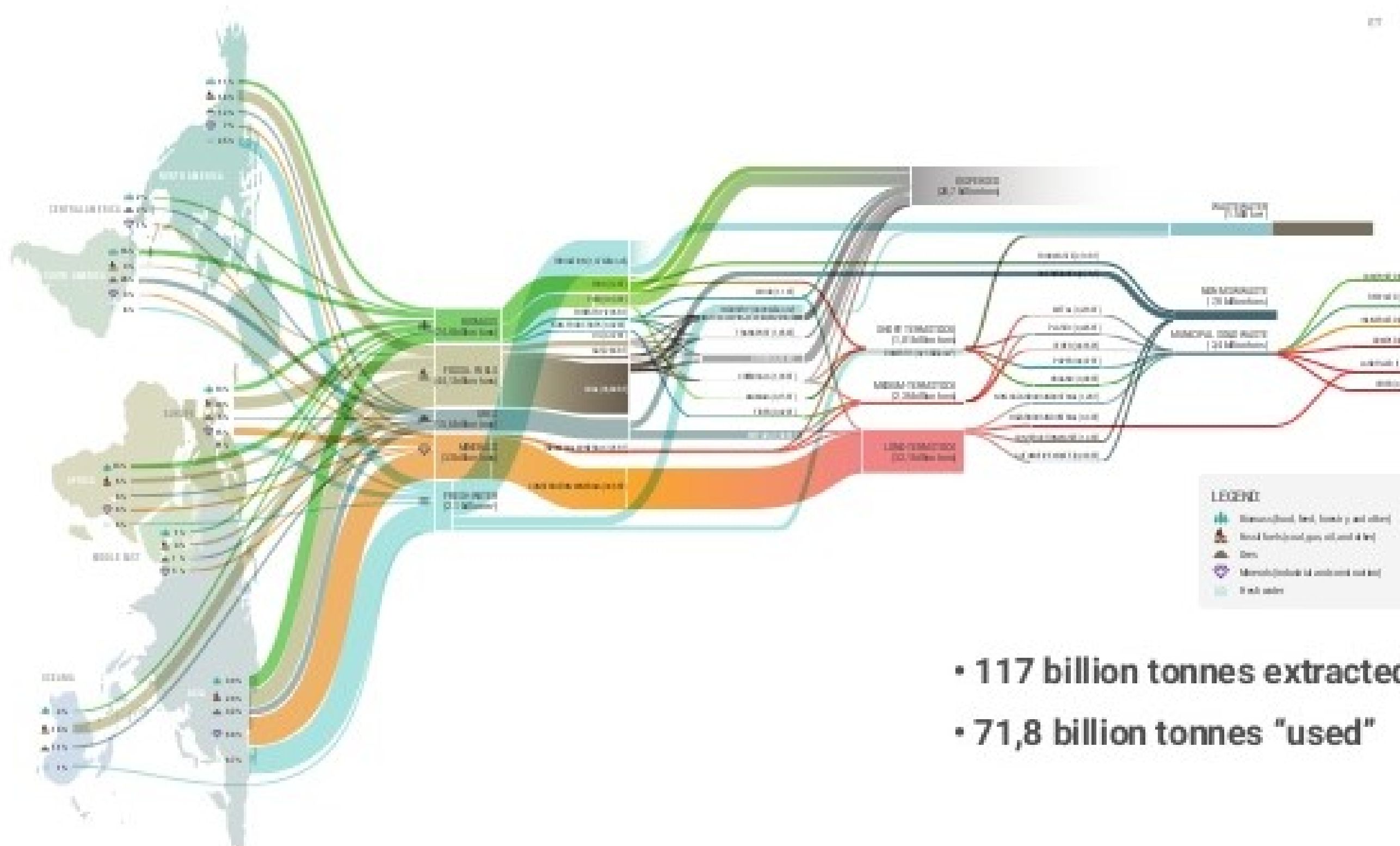
- Newly industrialised countries are building new infrastructure
- High-income countries outsource large shares of the production related impacts to middle- and low-income regions through trade.
- High-income countries continue to outsource resource-intensive production. This reliance has been increasing at 1.6 per cent per year since the year 2000.

Decoupling concept



The decoupling of natural resource use and environmental impacts from economic activity and human well-being is an essential element in the transition to a sustainable future.

The global material flow where 92 % of all materials goes to waste



- 117 billion tonnes extracted
- 71,8 billion tonnes "used"

**WHY IS A CIRCULAR
ECONOMY A BIG TOPIC NOW?
- Czech perspective -**

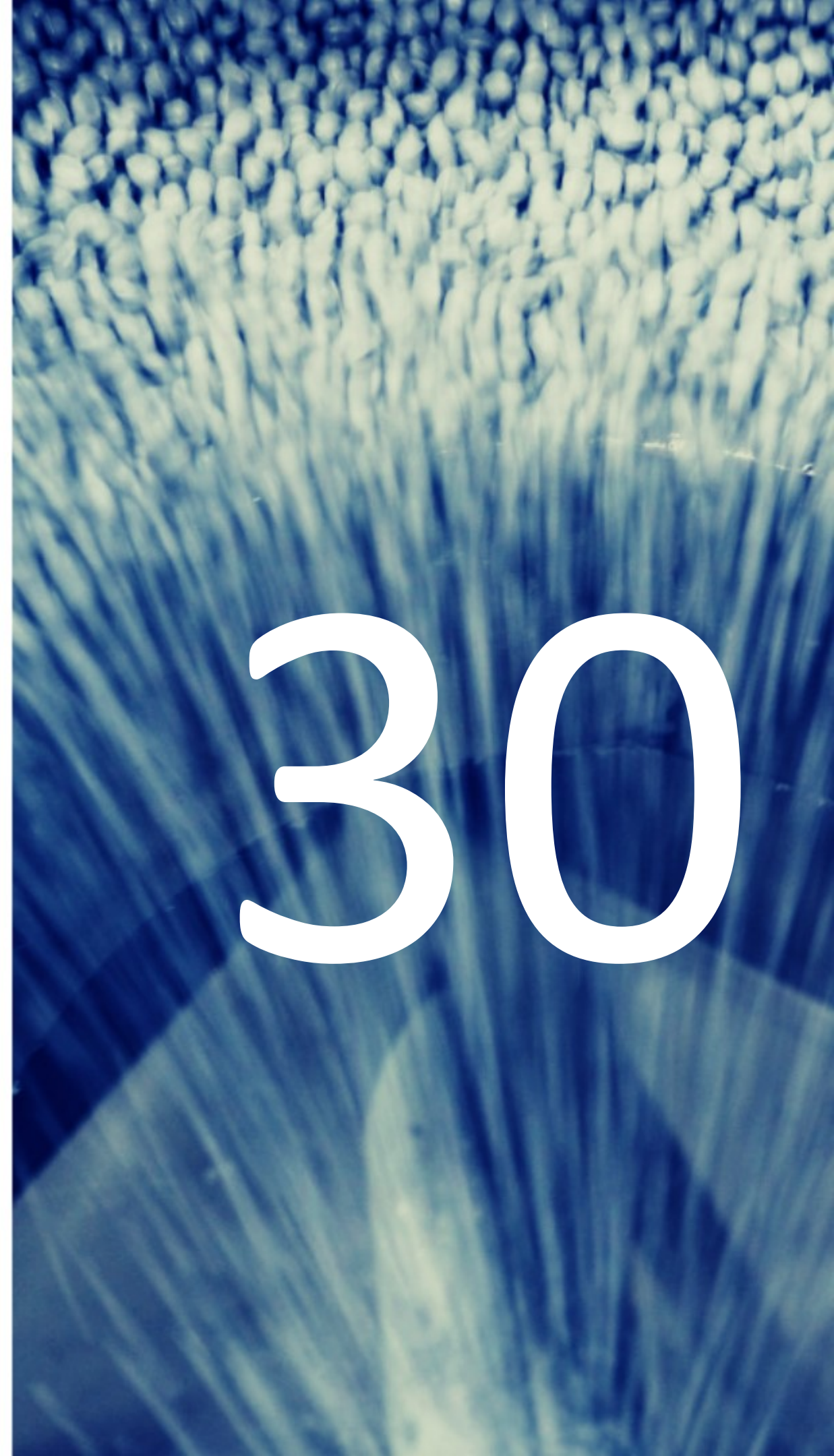
Key priorities



10

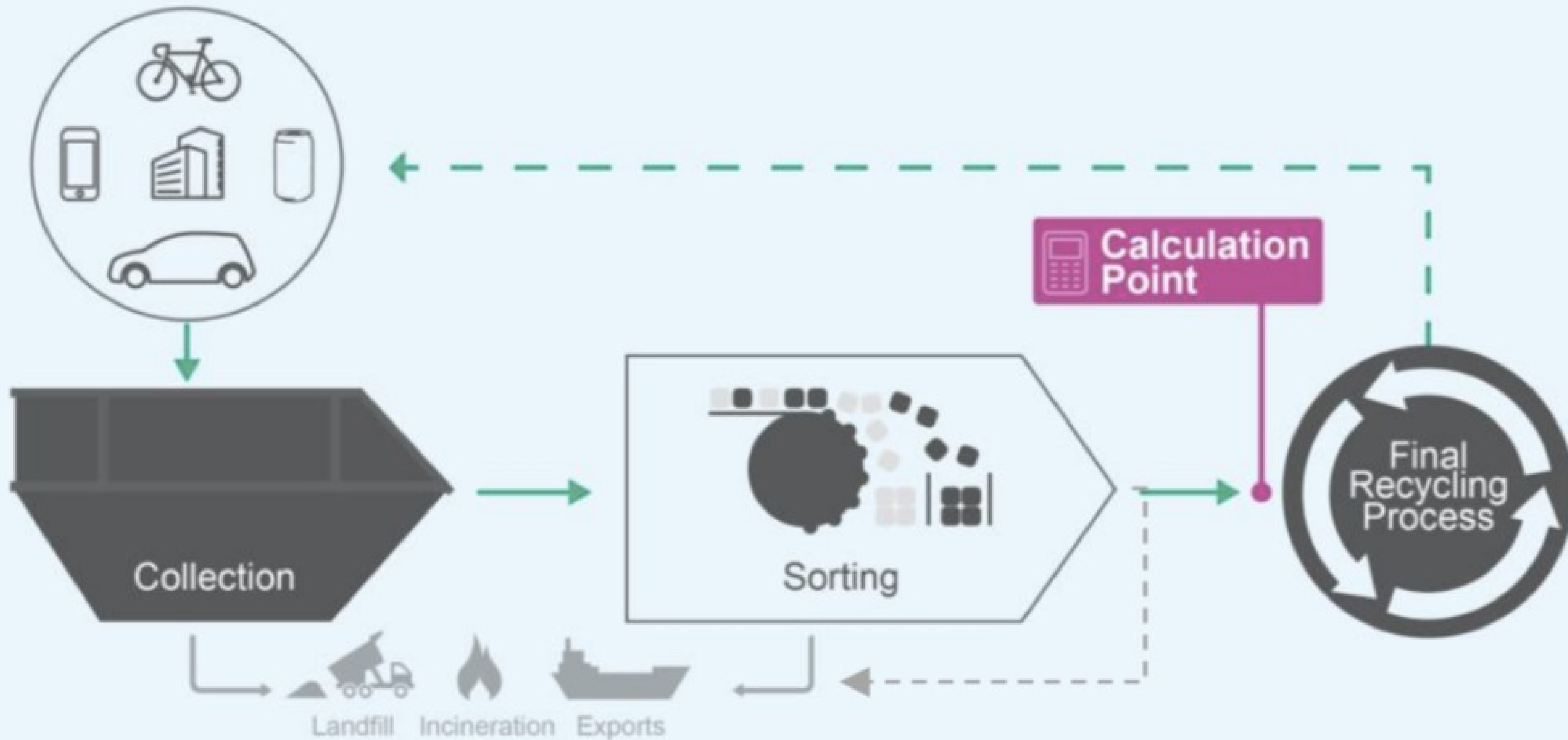


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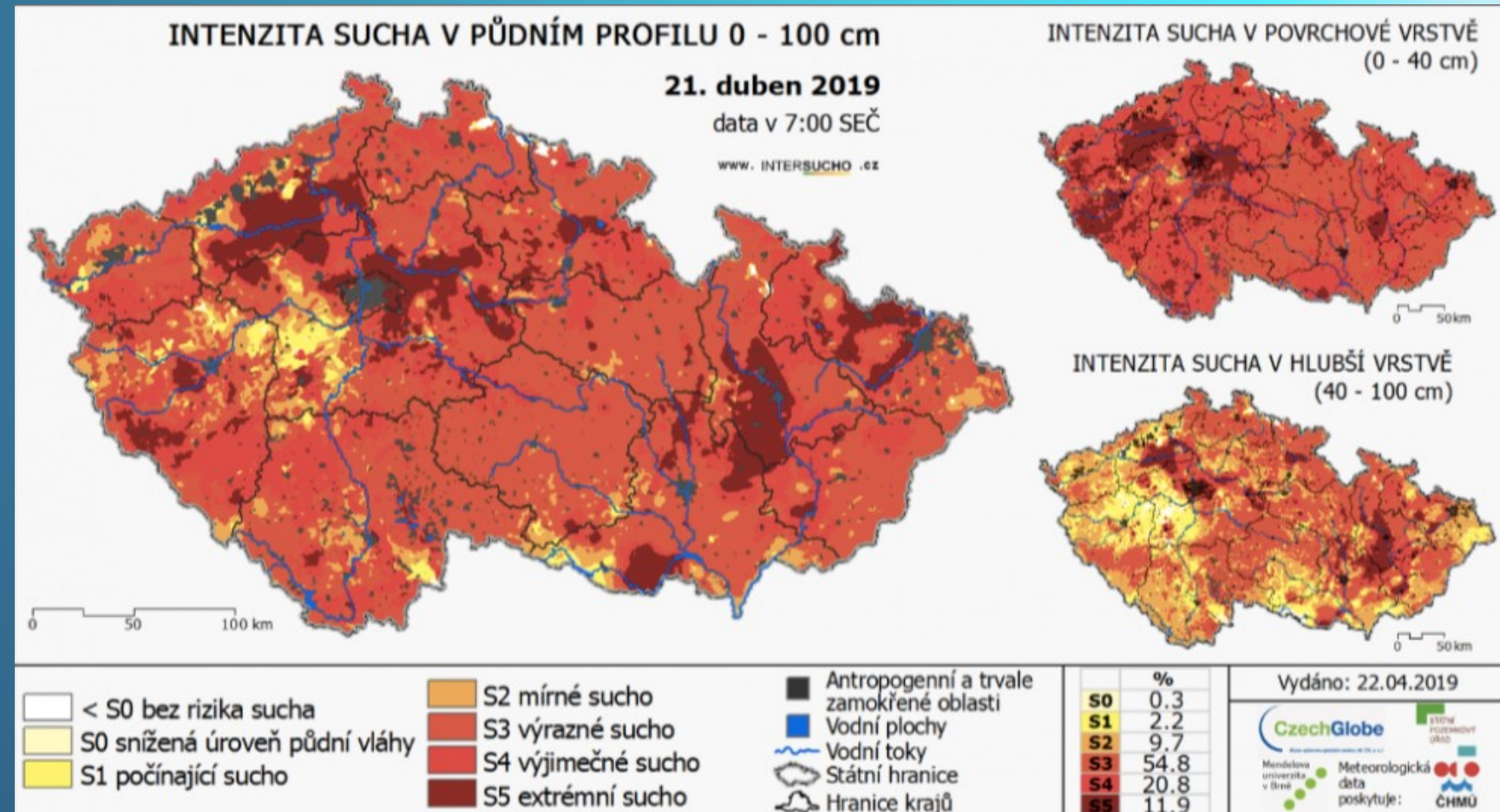


30

Biggest challenges for Czech republic



Biggest challenges for Czech republic



Skládka Úholičky
Úholičky 215
Velké Přílepy 252 64
Česká republika

13.4 km
Directions

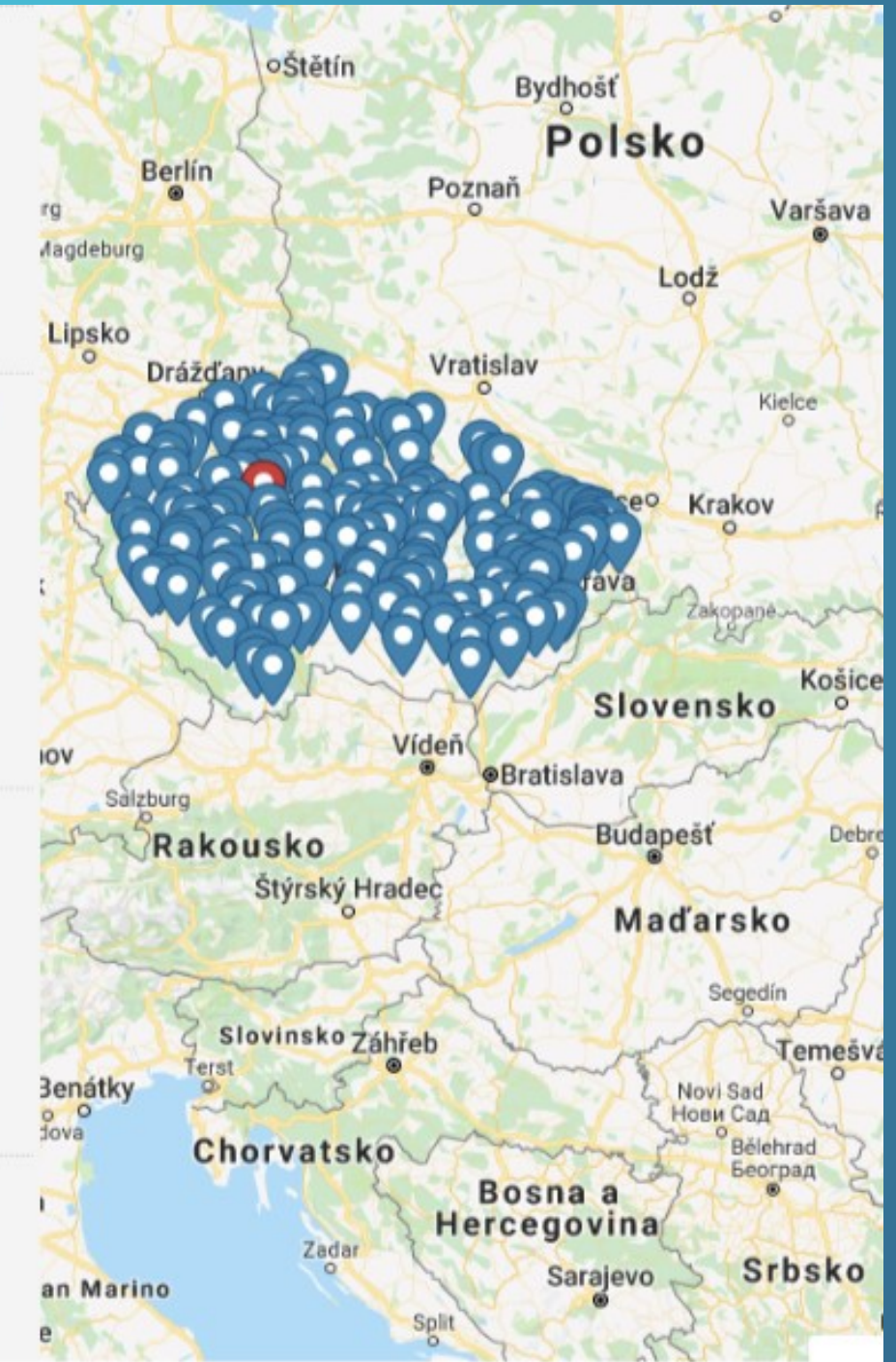
AVE CZ – Skládka odpadů
Jílové – Radlík
Radlík
Jílové u Prahy 254 01
Česká republika

19.4 km
Directions

Buštěhrad
Kladno - Vrapice
Kladno 272 03
Česká republika

20.9 km
Directions

Pískovna Borek
Borek 74
Dřísy 277 14
Česká republika



Biggest challenges for Czech republic



České Budějovice: Nepříjemný kouř z požáru sklá...
regiony.cz



Hasiči bojovali s požárem skládky v Budějoc...
budejckadrba.cz



Hasiči bojovali s požárem skládky v Budějoc...
budejckadrba.cz



U Čáslavi hoří skládka, požár likvidují de...
forum24.cz



Hasiči bojovali s požárem skládky v Budějoc...
budejckadrba.cz



V Boru u Skutče hasiči pokřtili novinku - Jičf...
jicinsky.denik.cz



Lišov: Rozsáhlý požár skládky v Lišov...
regiony.cz



V Kladně hořela černá skládka pneumatik | Týden...
tyden.cz



FOTO: Hasiči vyjžděli k likvidaci požáru skládky v ...
olomouckadrba.cz



HZS Ústeckého kraje - Požár skládk...
hzscr.cz



Noční požár skládky likvidovali hasiči hodiny –...
novinky.cz



Skládka Celio smí u třídící linky skladovat jen s...
idnes.cz



Hasiči bojovali s požárem skládky v Bud...
m.budejckadrba.cz



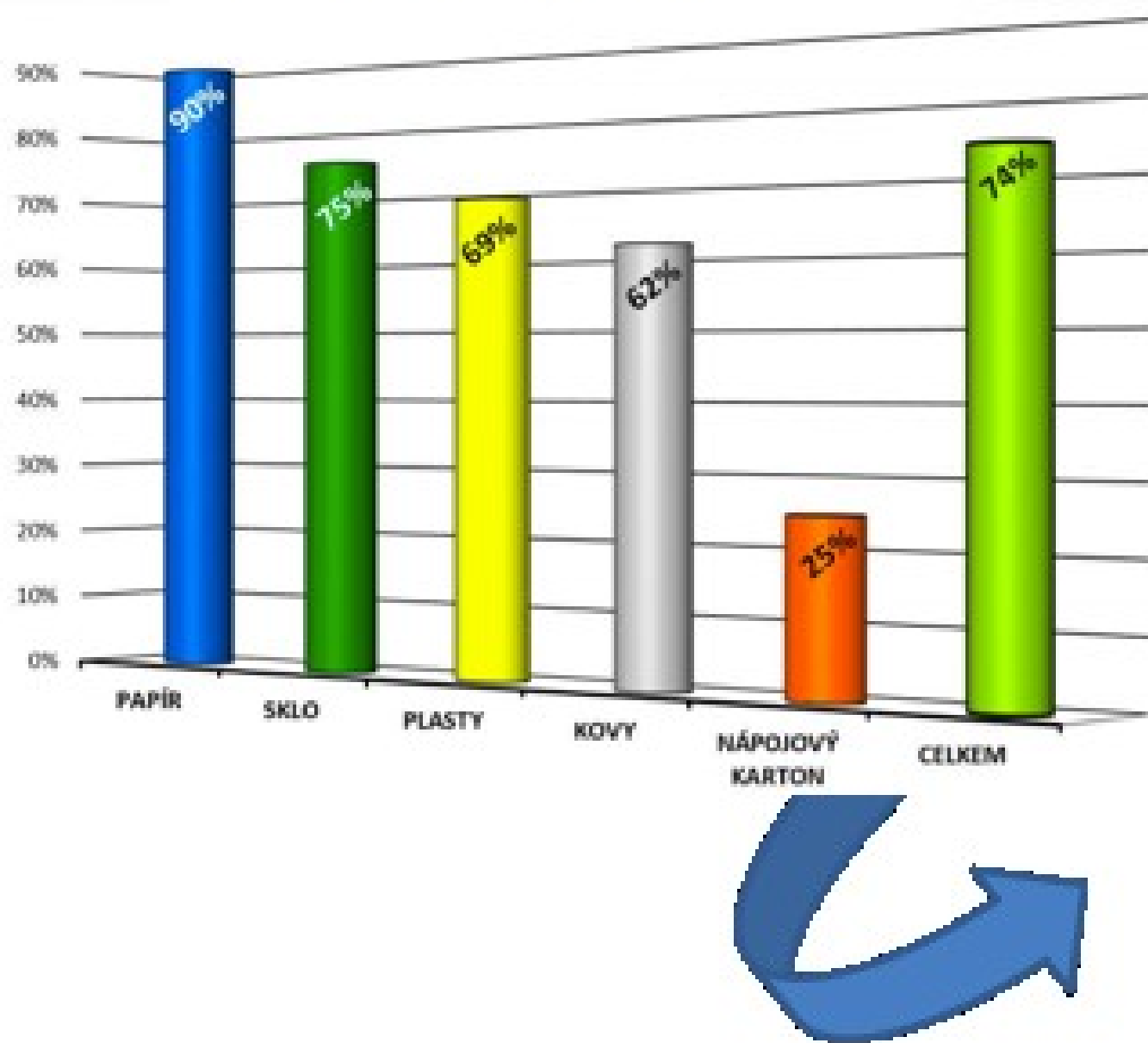
Původně požár skládky odpadu hasič...
klubnovinaruzlin.cz



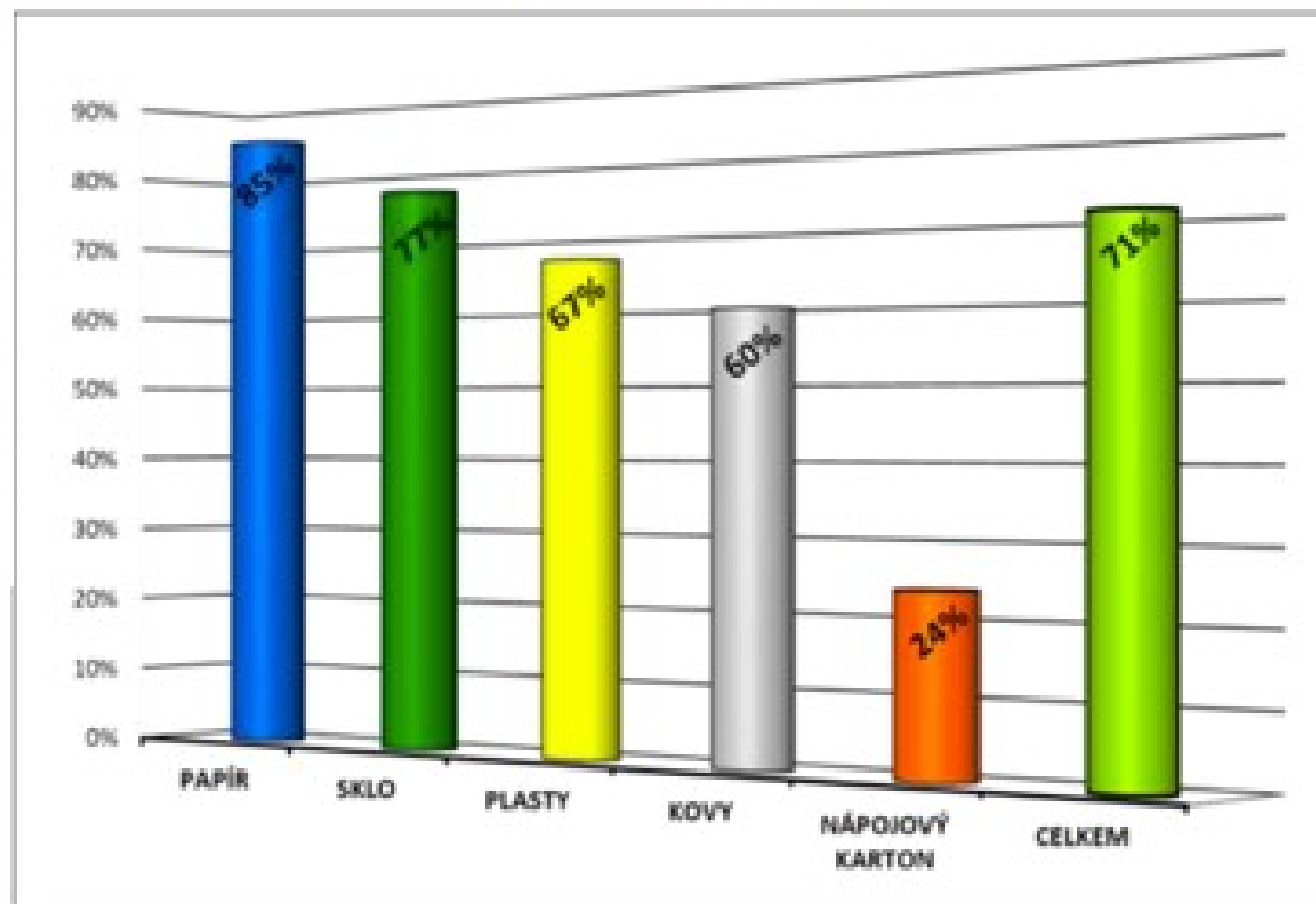
Orlický deník | Požár skládky v Českých Libchav...
orlicky.denik.cz

t recycling yet)

DOSAŽENÁ MÍRA RECYKLACE OBALŮ V ROCE 2017



DOSAŽENÁ MÍRA RECYKLACE OBALŮ V ROCE 2018



"As can be seen in the chart, paper is the most recycled packaging in the Czech Republic, followed by glass, plastics, metals and beverage cartons. contributed to the protection of the environment in the Czech Republic. "



11/3







BUT THERE ARE SOME

GOOD CASE

PRACTICES

7 PRINCIPLES OF CIRCULAR ECONOMY



Prioritise
Regenerative
Resources



Preserve and
Extend What's
Already Made



Use Waste as a
Resource



Design for the
Future



Collaborate to
Create Joint
Value



Rethink the
Business Model



Incorporate
Digital
Technology



NAFIGATE
COSMETICS

COCONUT
PEELING MILK



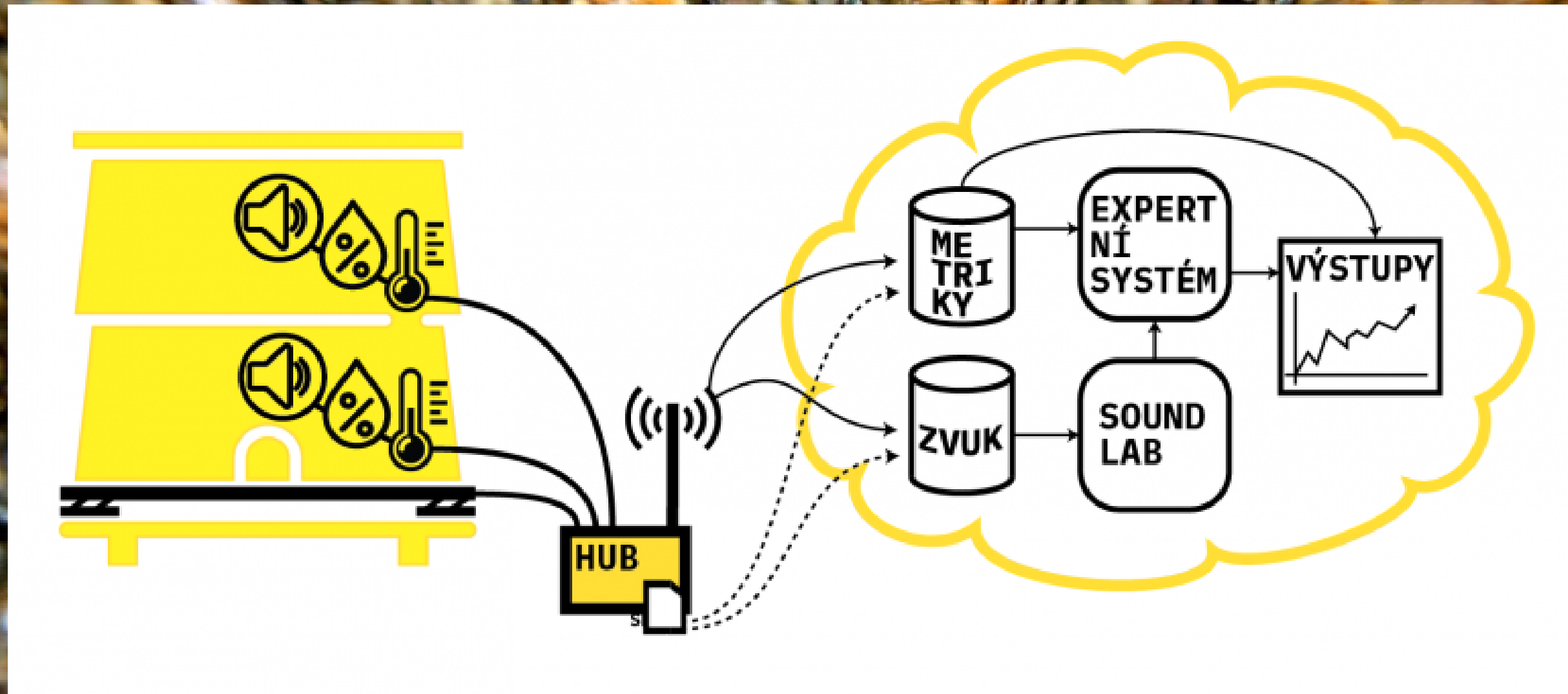
ŠETRNÁ
KOSMETIKA
Peelingové sprchové mléko

250 ml











POLLUTION
EDUCATION
SOLUTION
WHAT'S
MISSING?



WHERE TO GET MORE INSPIRATION ?

- www.zajimej.se
- www.inciencn.org
- hub.cirkularnicesko.cz





Let's stay in touch

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www.incien.org



Resources

Page 11 – 16 / Data from WBCSD Annual meeting held in Lisbon, Portugal, provided by Mr. Petr Kalaš, CBCSD

Link: https://events.wbcds.org/cm19/wp-content/uploads/2019/10/Circular_economy_as_corporate_strategy-WBCSD_CM2019.pdf