

Circwaste Final Seminar

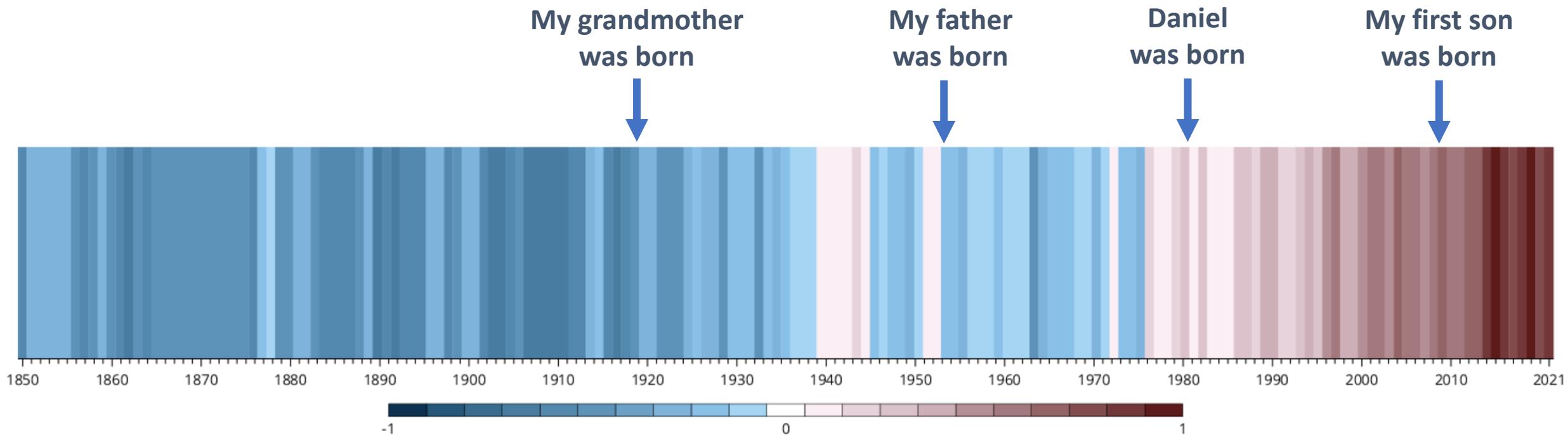
Helsinki, October 2023



Daniel Montalvo
Head of Group – Clean and Circular Economy

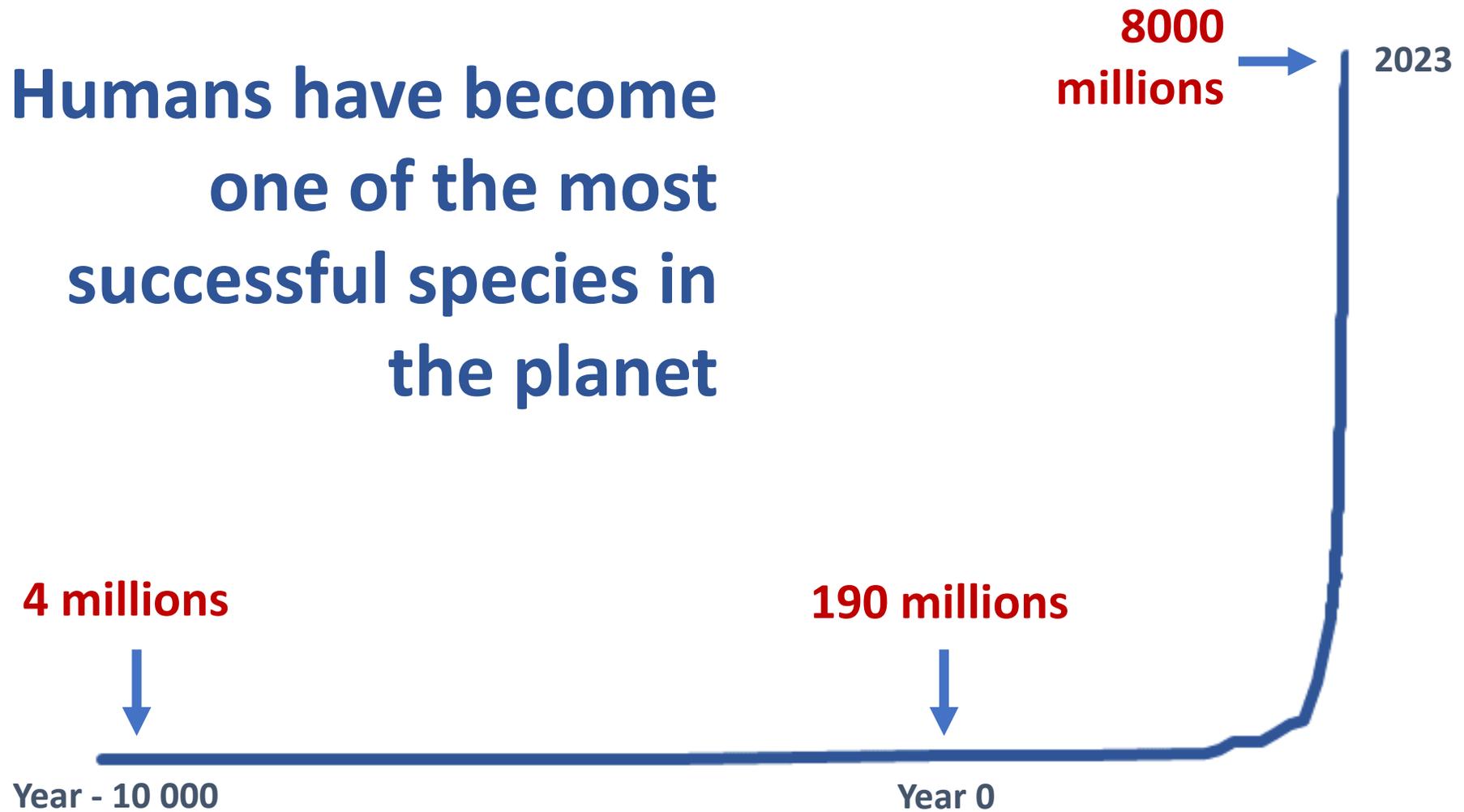
European Environment Agency





Source: Modified by EEA from (Hawkins, 2022) and based on HadCRUT5 data (Met Office Hadley Centre, 2022).

**Humans have become
one of the most
successful species in
the planet**

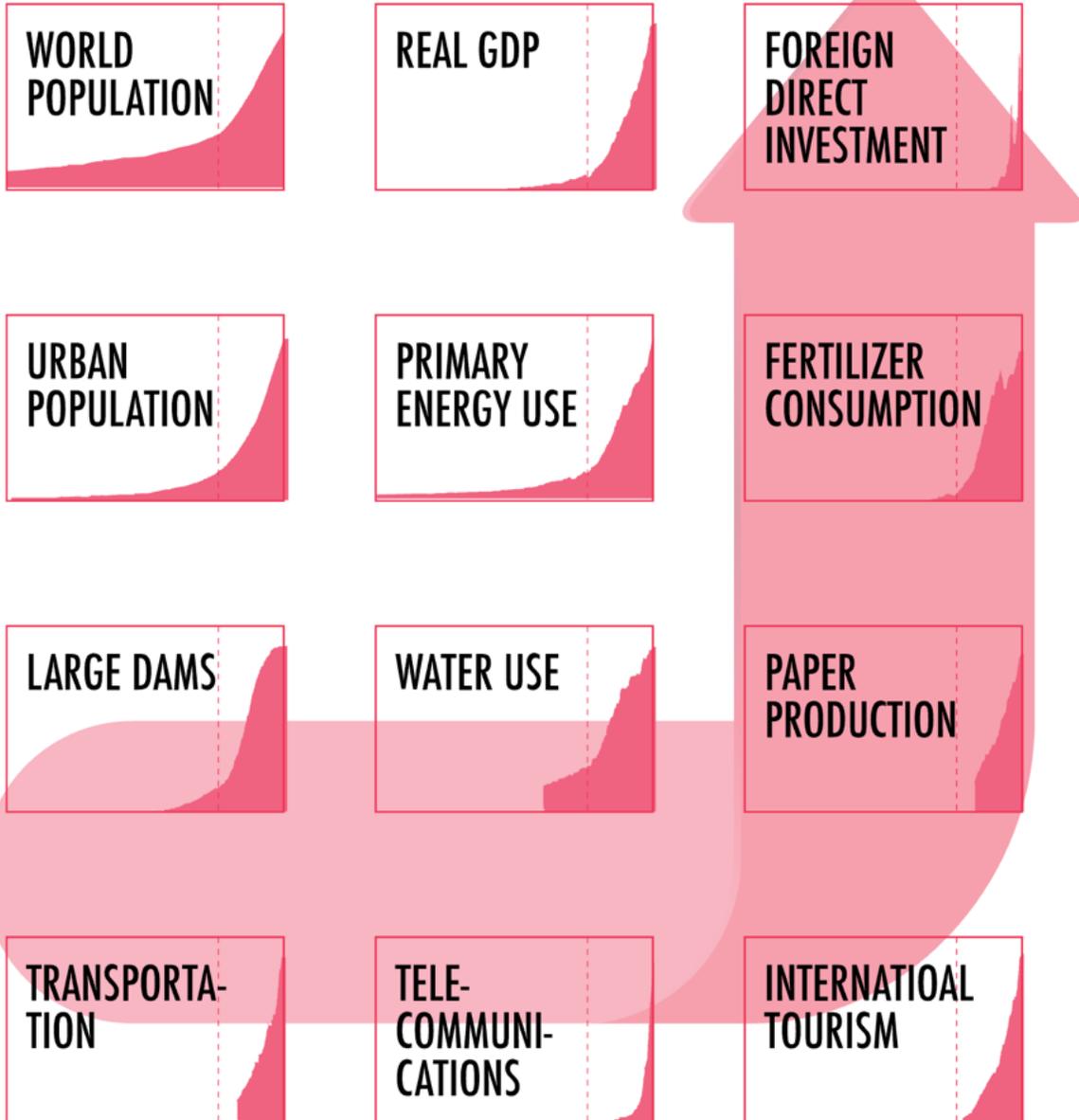


Source: World population, Our World
in Data

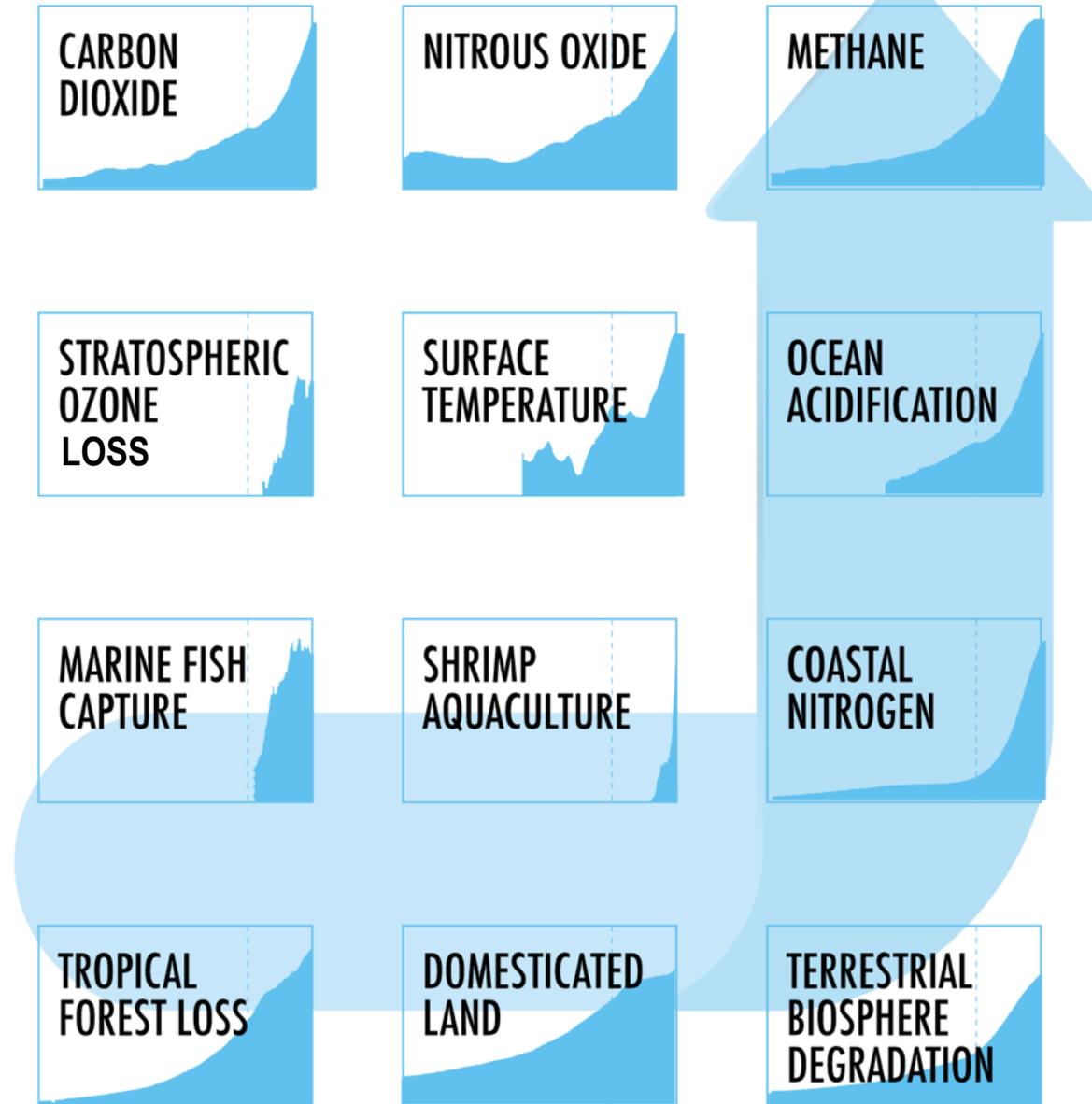


**European
Environment
Agency**

Socio-economic trends



Earth system trends





IPCC: Climate
change



IPBES: Biodiversity
loss



IRP: natural
resources

Urgency – this decade is key

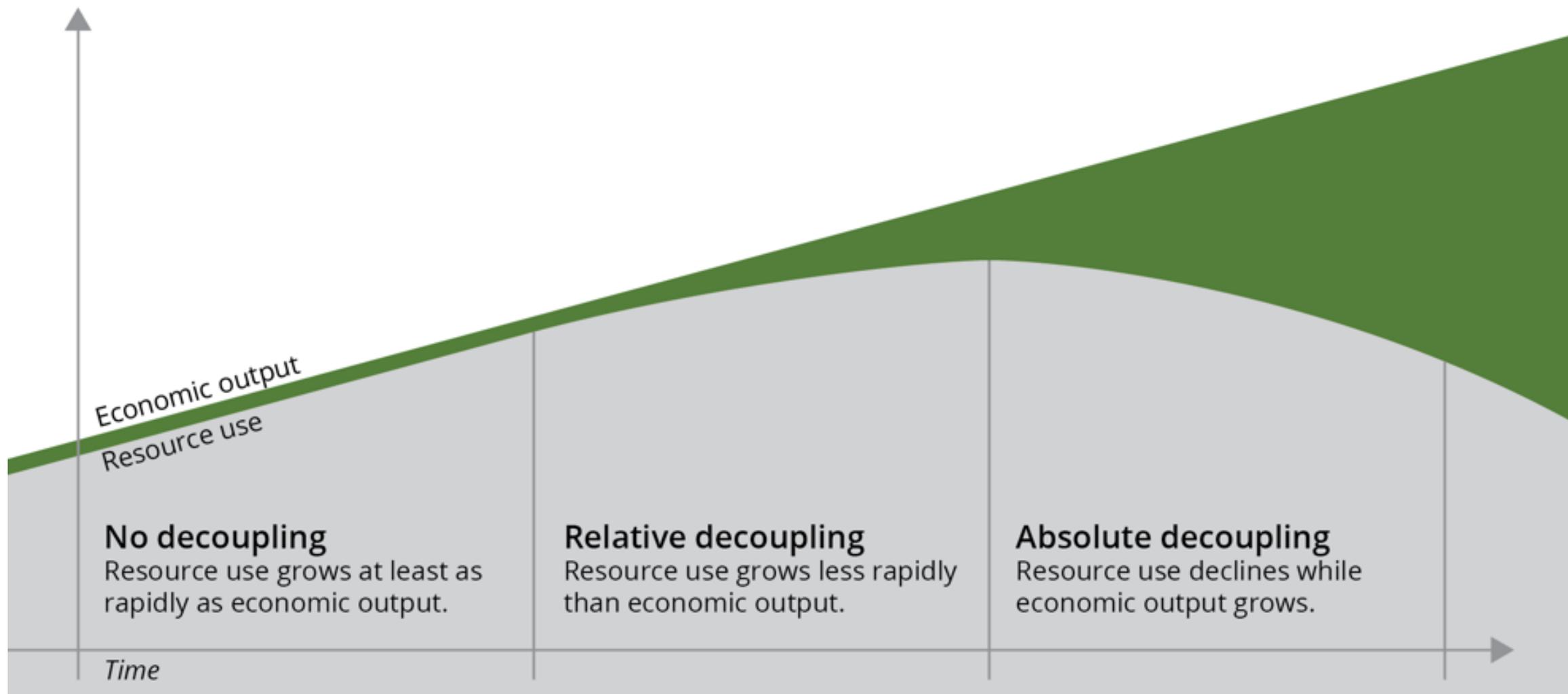
Irreversible changes

Tipping points

Interconnected crisis

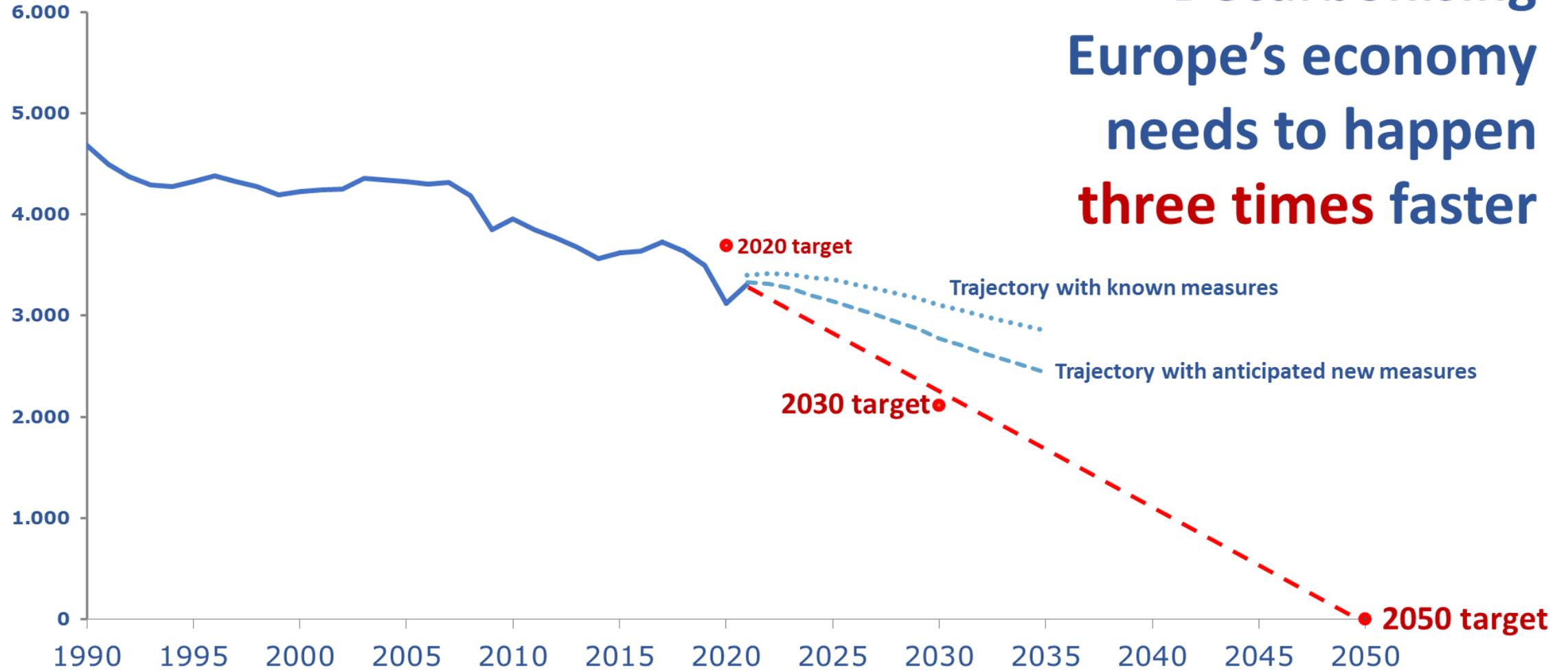


European
Environment
Agency



Decarbonising Europe's economy needs to happen **three times faster**

Million CO2 equivalents

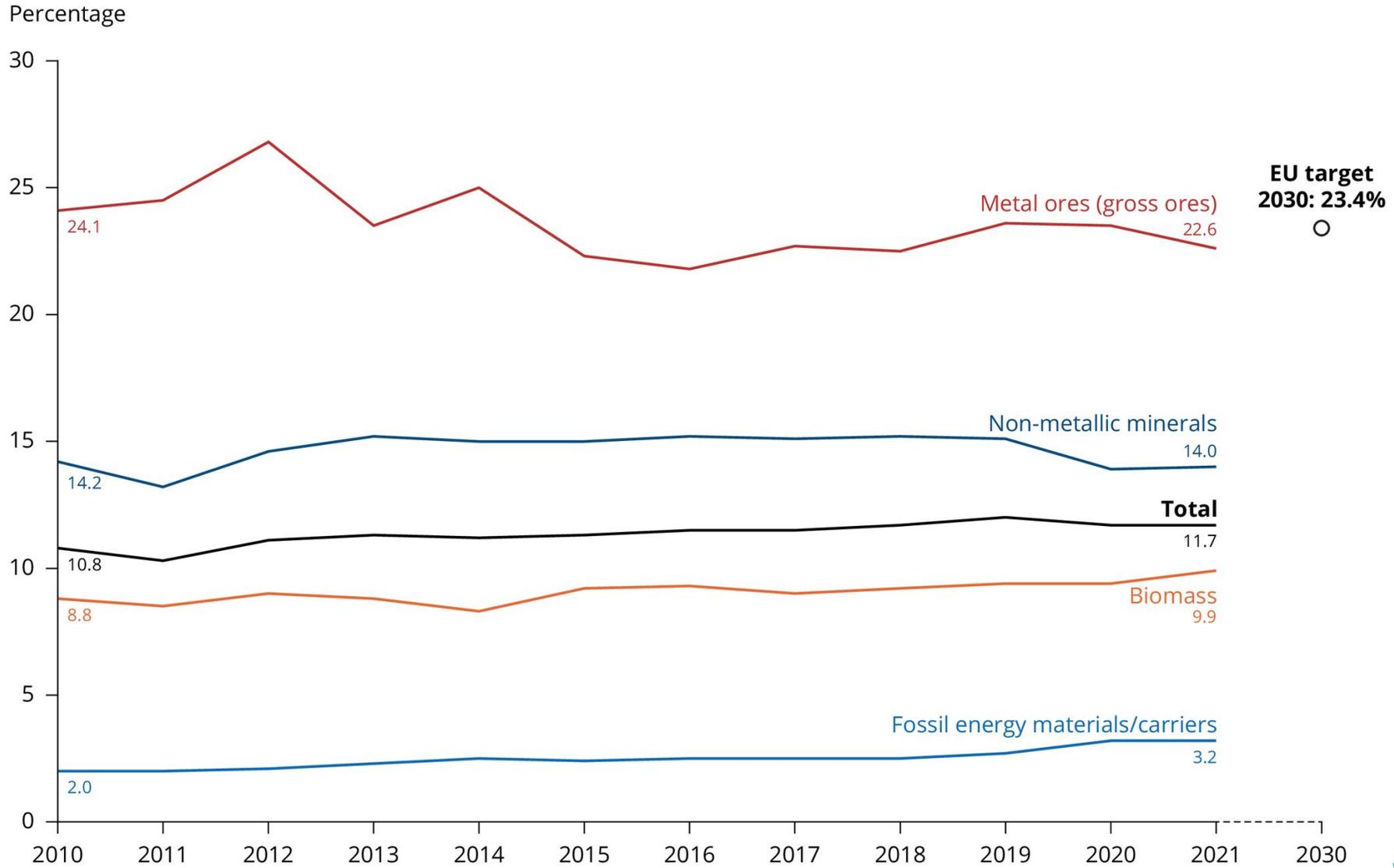


Source: EEA, GHG Inventory



European
Environment
Agency

Circular material use rate, 2010-2021

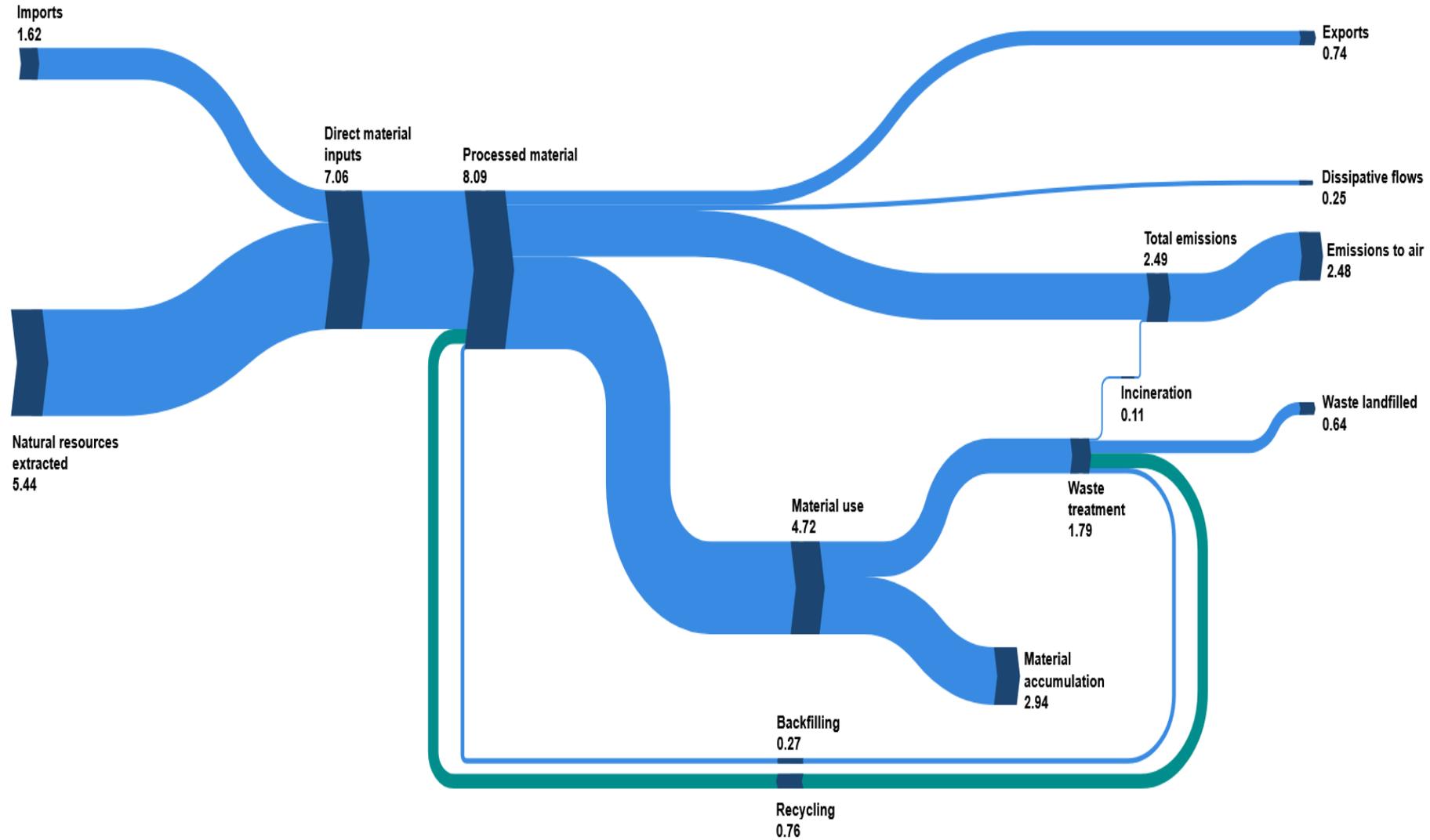


Source: Eurostat, modified by EEA



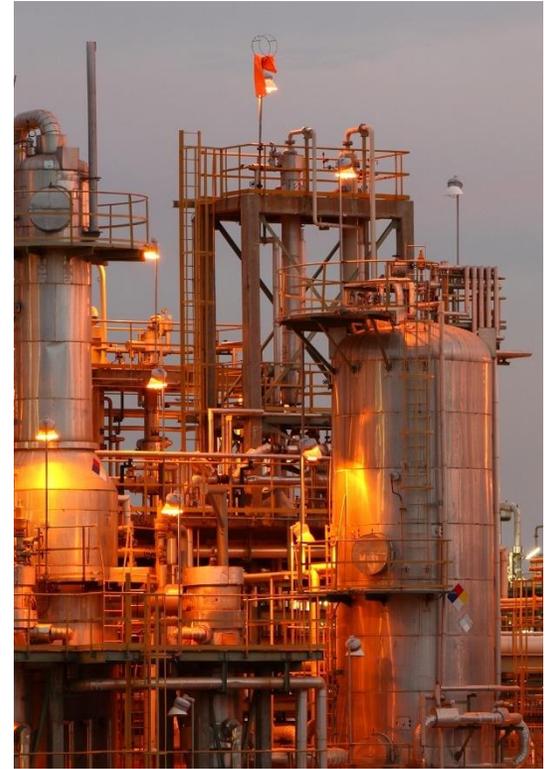
European Environment Agency

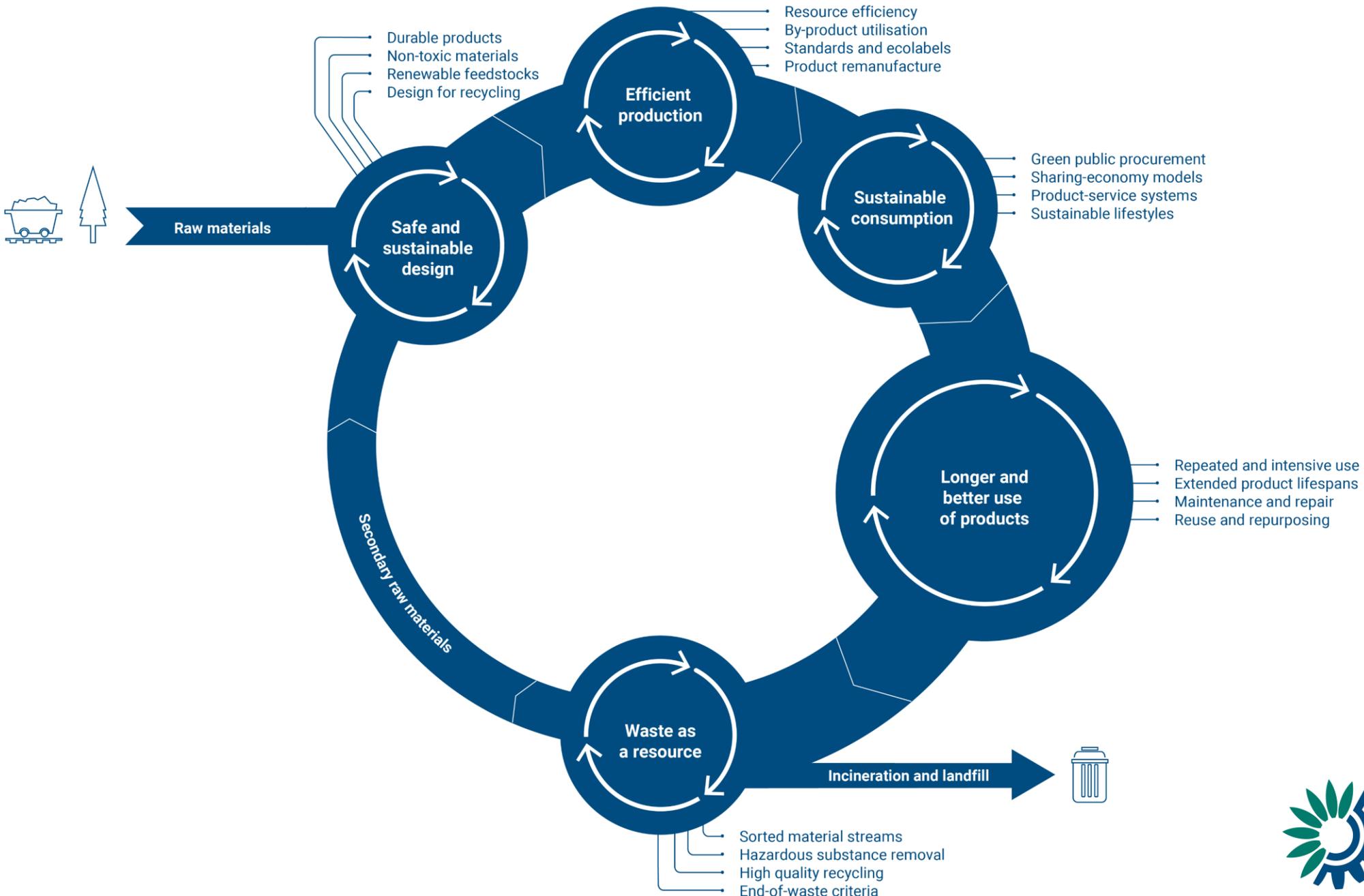
Material flows in Europe, 2021

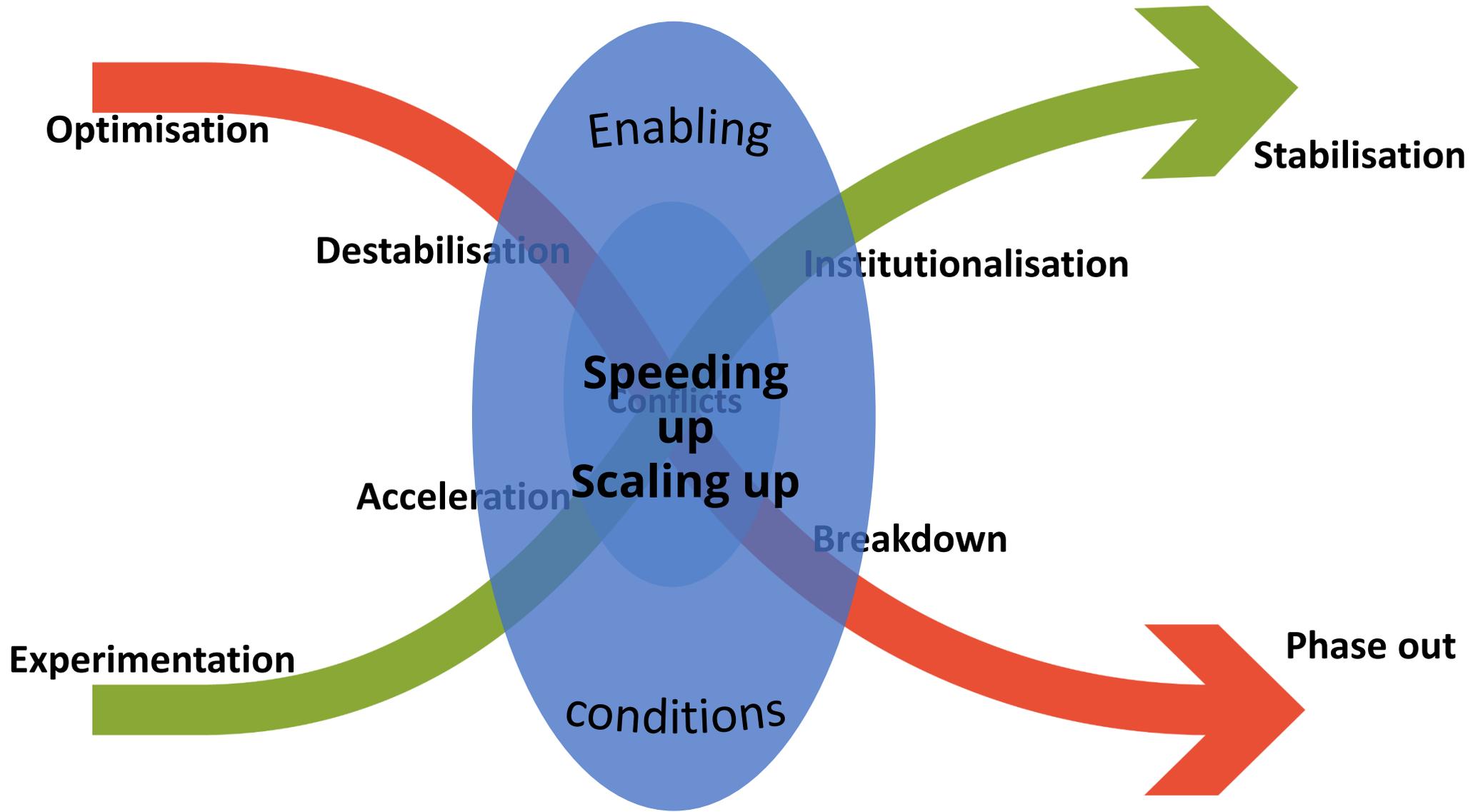


Source: Eurostat

No quick fixes for sustainability transitions: Rethinking energy, food, mobility and industrial systems



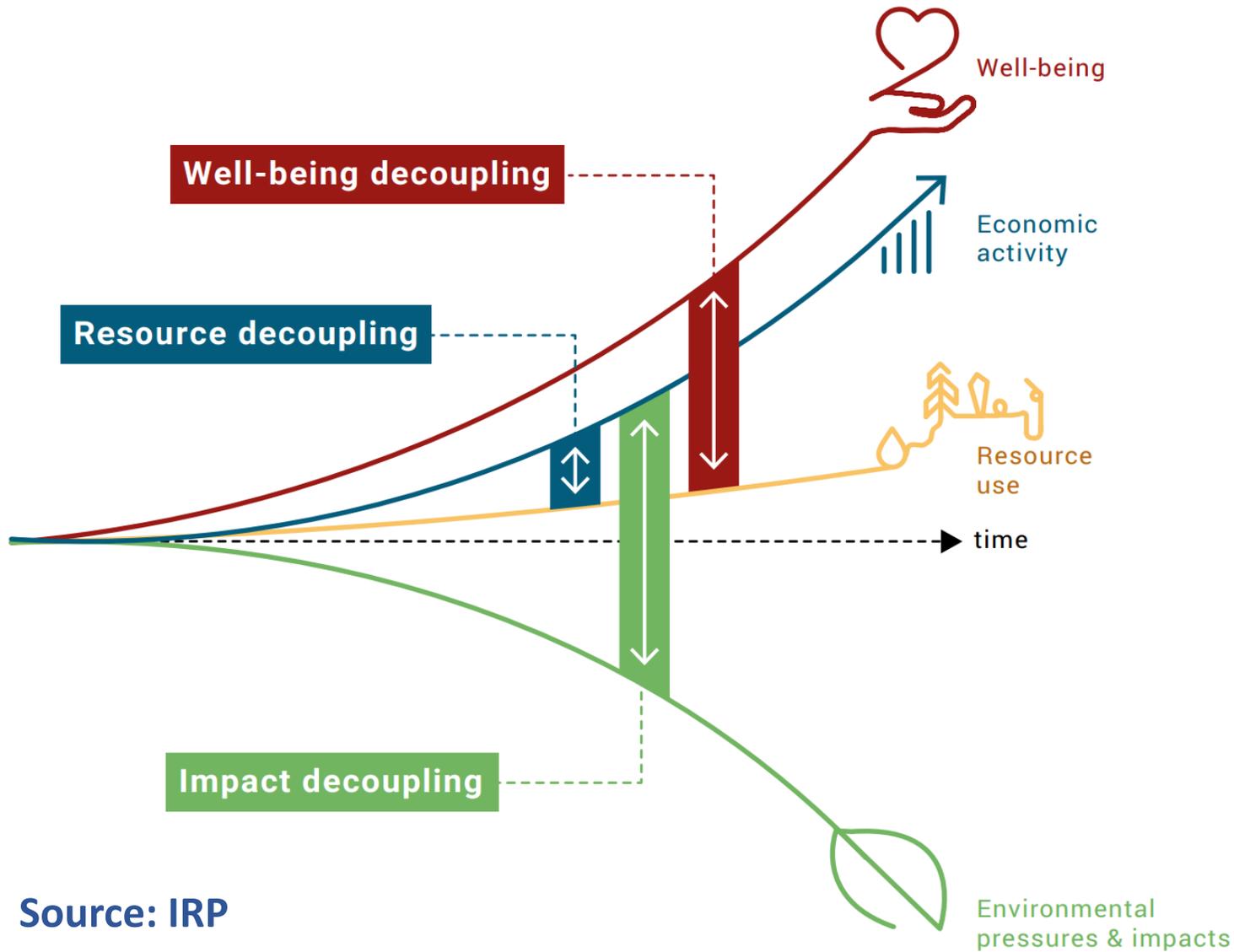




Source: Loorbach et al



European
Environment
Agency



Source: IRP

The transformations of our way of living need to give way to an even deeper decoupling

1

We no longer can approach environment policy with incremental changes based on technology

2

Solutions will imply a rethinking of business models, consumption patterns and governance

3

An ecological transition will only happen if it is just, both within our countries and at global scale



**European
Environment
Agency**