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ecoinvent v3.5 & beyond

SETAC Symposium

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Agroscope   EMPA   EPFL   ETH   PSI

ecoinvent v3.5

- ecoinvent v3.5 was released the 23rd of August 2018

- We did updates or addition of new data in the following sectors:
    - ⬇ waste treatment
    - ⬇ aluminium
    - ⬇ pulp and containerboard
    - ⬇ hard coal
    - ⬇ fish capture and aquaculture
    - ⬇ electricity update
    - ⬇ improved supply chains

Waste treatment and disposal mixes

- Version 3.5 adds new technologies: unsanitary landfill, open burning and open dumping

- It adds 500 country specific disposal mixes for common municipal waste fractions: waste glass, waste paper, waste plastics...

- Covers 37 European countries, as well as the emerging economies Brazil, Colombia, Peru, India and South Africa.

Aluminium sector

- Most recent available data, provided by IAI.

- The update covers the whole supply chain: from electricity production to primary and secondary aluminium production.

- Some technologies have gained in regional resolution, improving the connectivity of the supply chain.

Pulp Production and Containerboard

- Latest primary data on sulphate pulp production collected by the European Pulp Industry Sector Association.

- This allows a higher level of granularity in the sulphate pulp supply chains, distinguishing bleached and unbleached kraft pulp by type of pulpwood.

- European corrugated board supply chain: latest data from the Federation of Corrugated Board Manufacturers.

Hard coal sector

- v3.5 covers more than 95% of the global hard coal supply chains.

- New data on coal mining in India and South Africa will include different types of mines.

- Key emissions from coal mines were updated and consistently implemented for all geographies.

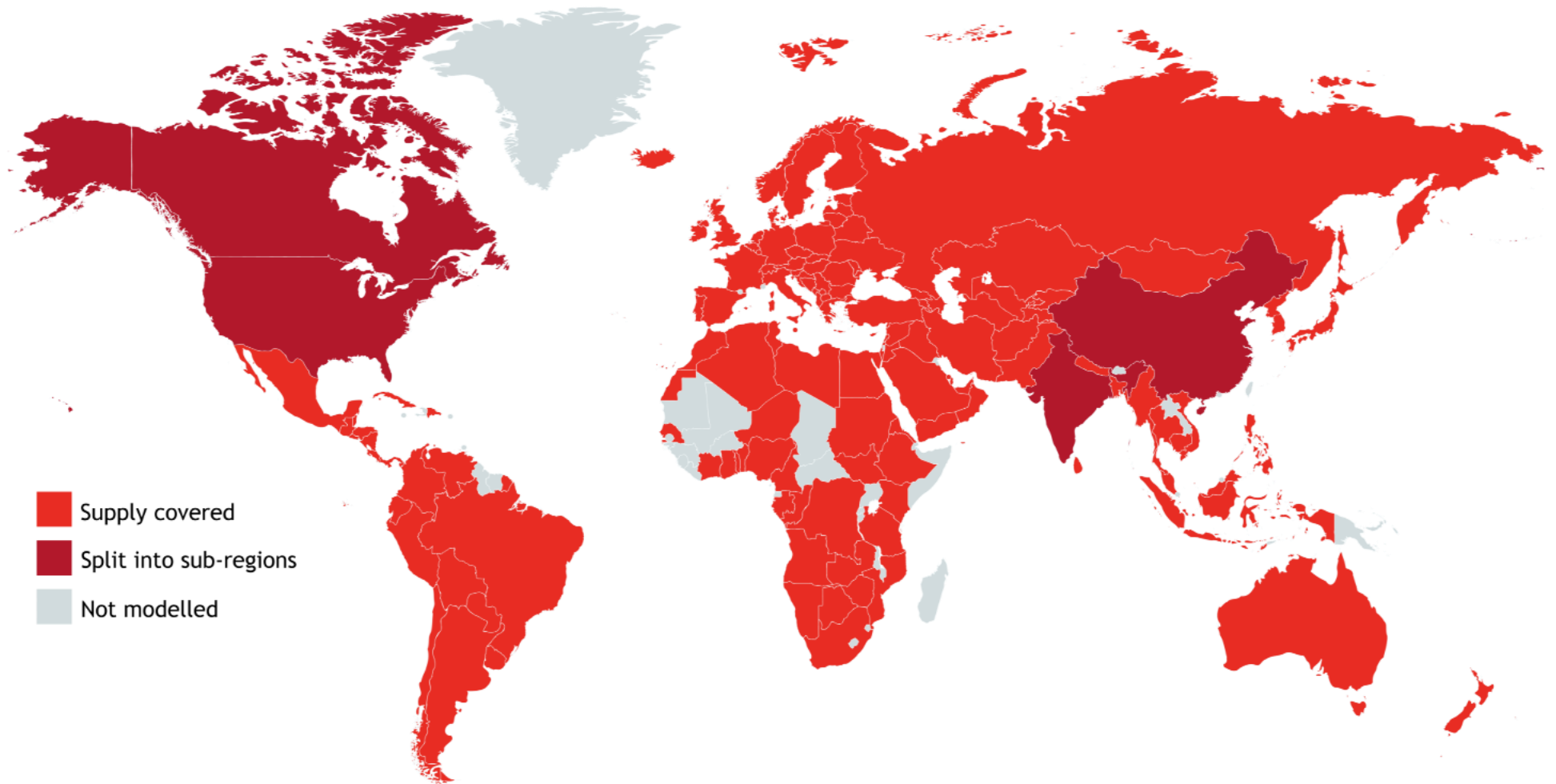- Global trade and regional supply: new import and market datasets.

Fish capture and aquaculture

- Datasets related to anchovy, hake and tuna capture as well as trout and tilapia aquaculture, primarily in Latin America.

- Processing into fish meal and oil as well as fish processing activities such as canning or freezing are also included.

- Needed infrastructures (vessels, nets, plants) were added as well.

Electricity: additions and update

Legend:
- Supply covered
- Split into sub-regions
- Not modelled

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Improved supply chain representation

- New regional markets added in rail and road freight transport.

- New regional markets added for chemicals and wastes (other than the waste update).

- Infrastructures and services linked to their consumers in the same region.

Next version: v3.6

- The v3.6 release is scheduled for summer 2019.

- This version integrates SRI data and updates the following sectors:
  - ⬇ agriculture and animal husbandry
  - ⬇ building materials
  - ⬇ electricity
  - ⬇ freight transport
  - ⬇ metals
  - ⬇ informal recycling of e-waste
  - ⬇ refinery
  - ⬇ textile
  - ⬇ tourism
  - ⬇ water supply

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Thank you for your attention!

Questions?

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