

Towards a detailed global stock-flow materials database: The PANORAMA project

(Physical Accounts Of RAW MATERIAL stock and flow Information Service)

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1. The problem

- Existing data sets look either at products or materials
- MFA studies typically look at individual materials and use own, dedicated classifications for industries and products
- This implies no integrated view that portrays materials, products (and their compositions) and industries in one coherent picture
- This makes linkages to common economic statistics and models complicated

2. The vision

- Use a standard Supply-Use / Input Output framework from economic statistics as a starting point
- Use a standard classification of material types, products and economic sectors
- Use as much as possible existing data to fill this structure and ensure that mass & economic balances are fine, using e.g.
 - EXIOBASE 3.4 physical tables
 - Europroms, Prodcum, Comtrade
 - FAO, IEA, LCA databases like ecoinvent
 - MFA studies, Metal study group data, compositions
- If this is not possible in one go for all materials, deliver a proof of principle for e.g. 10 materials (e.g. materials investigated in PROSUM, and some major metals)

3. Collaborations

- Will build upon many previous FP7/H2020 projects, including DESIRE, PROSUM, MICA, SCREEN, ORAMA, etc.
- Will closely interact with and support the further development of DG JRC's RMIS
- Will seek international collaboration with initiatives in e.g. China, Japan and US (US EPA and USGS)

4. Project essentials

- Team: see author list above
- Duration: January 2019- December 2021
- Funding: Upscaling project, EIT KIC Raw materials

Figure 1: From scattered data sets on mining, materials, products and industries to a consistent, balanced total

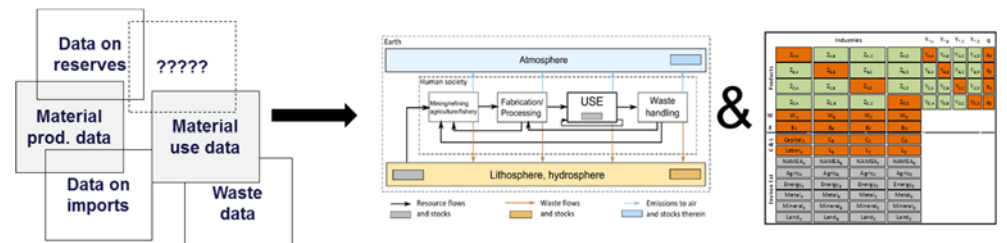
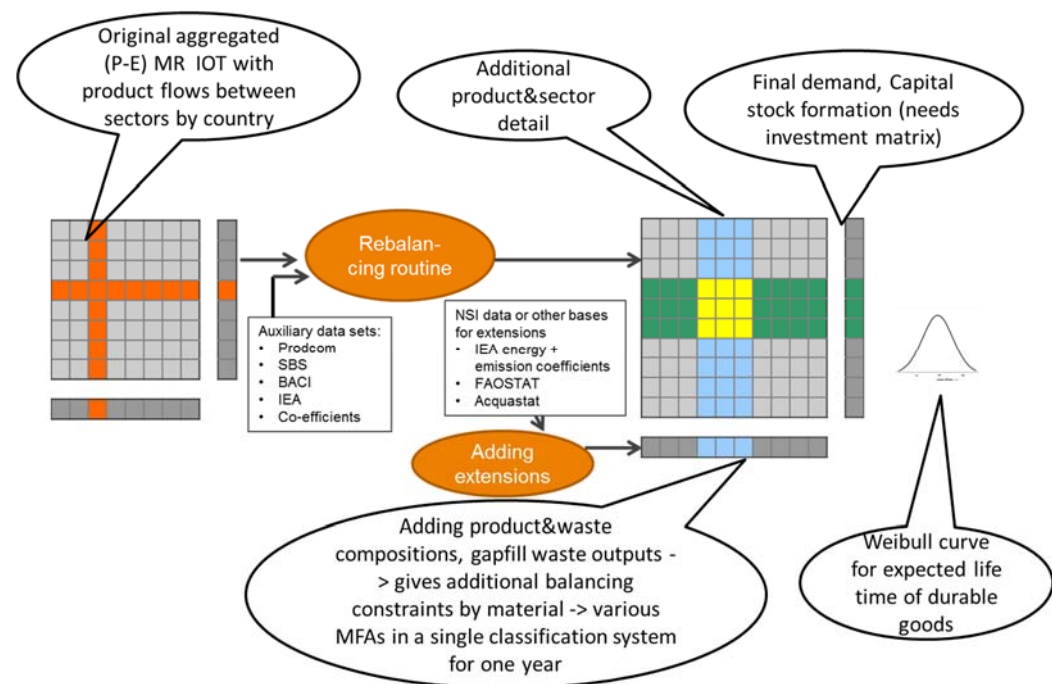


Figure 2: Approach envisaged in the project



Invitation: PANORAMA information workshop, Hotel Manhattan (1 minute to the North), Wed 14 November 14.00-15.30

- 14:00 Opening and presentation of team members
- 14.05 Introduction to PANORAMA
- 14.30 Discussion with the audience
 - Information needs of practitioners
 - Suggestions of technical approaches to the project
 - Suggestions for collaborations
- 15.30 Closure, moving back to the main EIP event

Plaza Hotel (RM Week venue) Manhattan hotel (Workshop)

