



DMC: Eurostat guidelines and questionnaires

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Eurostat

*Global Webinar on Geospatial and
Other Data Sources for Environment
Statistics: Assessing the Impact of the
Economy on the Environment*

Economy-wide material flow accounts – EW-MFA

- Domestic material consumption (DMC) = **indicator**

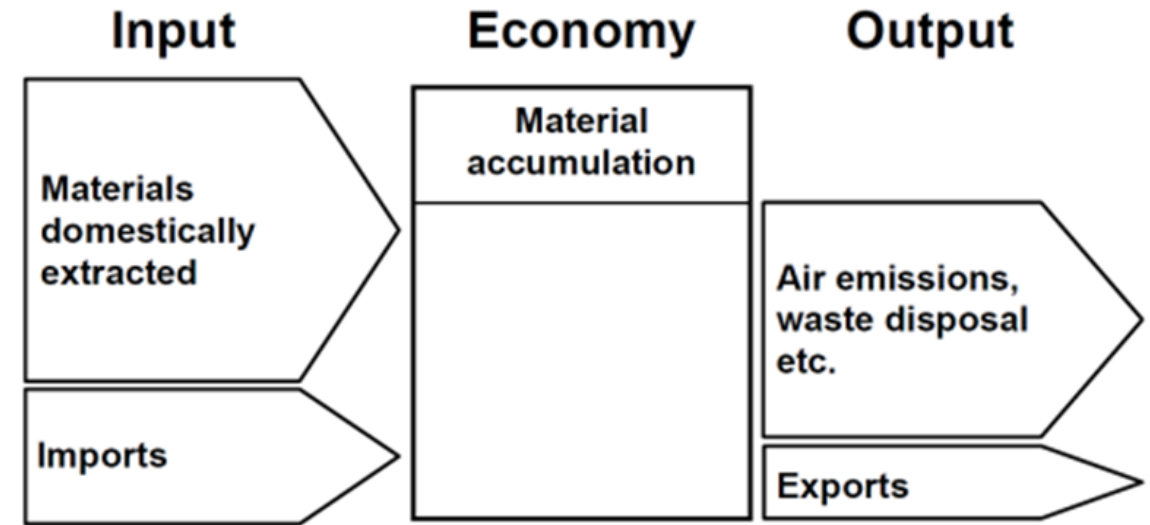
derived from ...

- Economy-wide material flow accounts (EW-MFA) = **accounting framework**

EW-MFA – definition

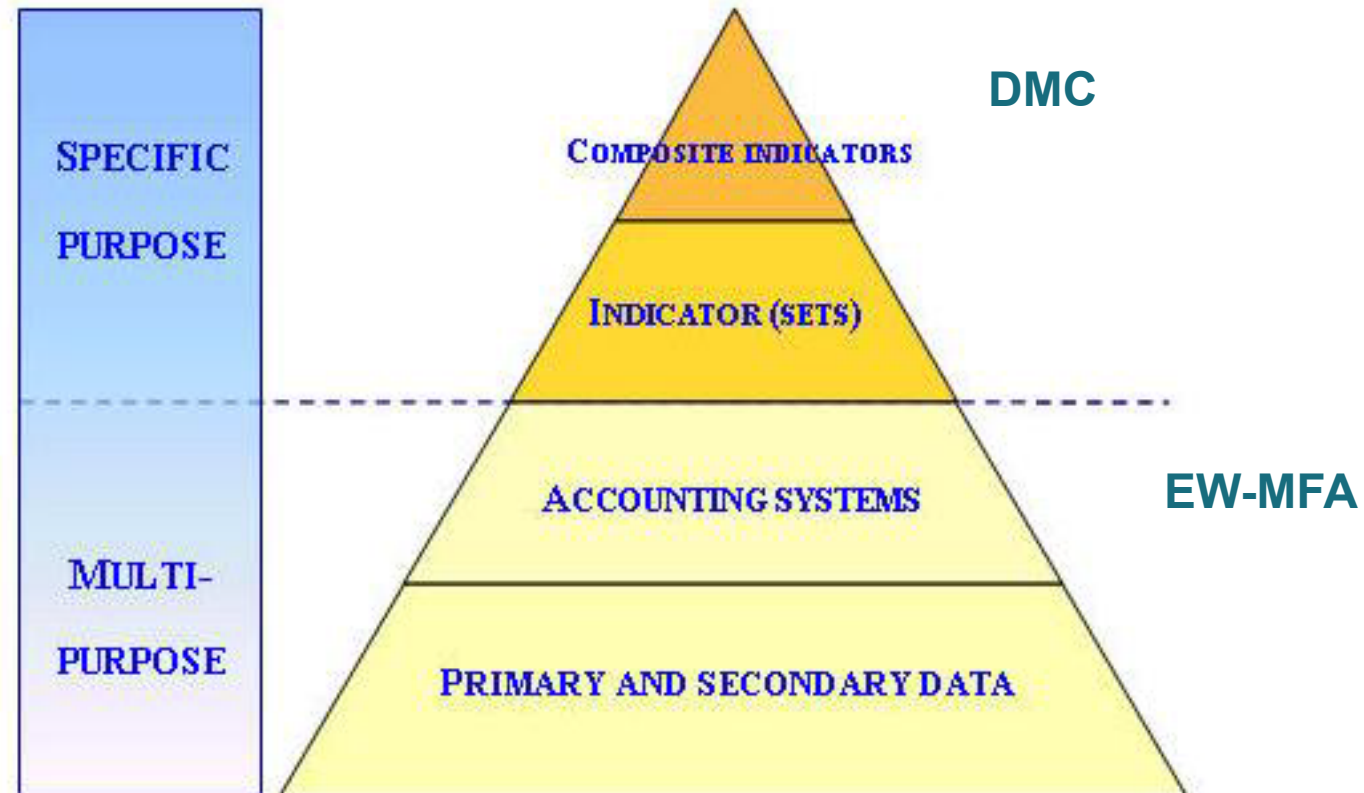
EW-MFA record ...

- the material flows into the economy* i.e. from other economies or from environment
- material accumulation in the economy, and
- material flows out of the economy i.e. to other economies or to the environment.



* as defined and delineated in national accounts

Pyramid of statistical information



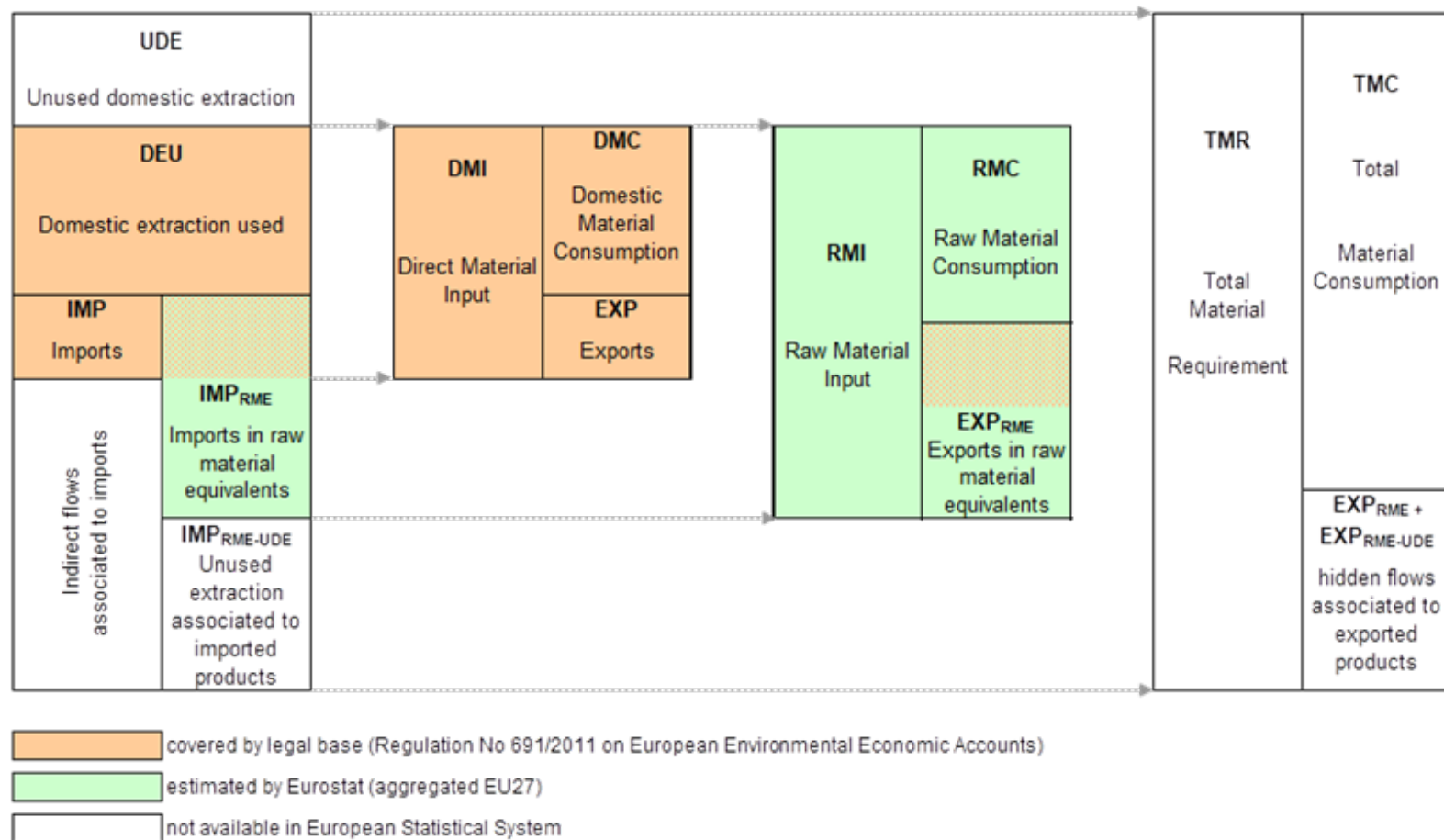
EW-MFA – derived indicators

- Input indicators:

- Direct Material Input (DMI)
 - Raw Material Input (RMI)

- Consumption indicators:

- Direct Material Consumption (DMC)
 - Raw Material Consumption (RMC)



EW-MFA guidelines

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Economy-wide material flow accounts and derived indicators
A methodological guide

Economy Wide Material Flow Accounts
Compilation Guidelines
2009 Edition

eurostat

Economy-wide Material Flow Accounts (EW-MFA)

Compilation Guide 2012

26 July 2012

Economy-wide material flow accounts

HANDBOOK

2018 edition



MANUALS AND GUIDELINES

eurostat 

• download:

<https://ec.europa.eu/eurostat/web/environment/methodology>

EW-MFA Handbook 2018 – ToC

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EW-MFA data collections

- voluntary: 2007, 2009, 2011, 2012
- mandatory (legal base): 2013, 2014, 2015 ... 2020, 2021, 2023

Eurostat EW-MFA questionnaire

- Table A: domestic extraction
 - Table B: physical imports
 - Table D: physical exports
 - Table F: domestic processed output
 - Table G: balancing items
 - Table H: indicators
 - Table I: MFA in raw material equivalents
- download:
<https://ec.europa.eu/eurostat/web/environment/methodology>

Eurostat EW-MFA questionnaire

Compilation tools (integrated in questionnaire) for:

- "grazed biomass"
- "crop residues"
- "sand and gravel"
- "clay"
- "limestone"
- Balancing items

Eurostat EW-MFA questionnaire

Annexes to questionnaire:

























- I. Correspondences between EW-MFA classification for biomass and various Eurostat statistics, such as agricultural crop statistics, forestry statistics, fishery statistics
- II. Correspondences between EW-MFA classification for metal ores, non-metallic minerals and fossil energy materials with codes of Eurostat's energy statistics/balances, PRODCOM and CPA
- III. Correspondences between EW-MFA classification for non-metallic minerals and CPA, PRODCOM, BGS and USGS
- IV. Correspondence between Combined Nomenclature 2021 (CN) and EW-MFA classification for imports and exports
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Dissemination

- Online database

The screenshot displays the Eurostat website interface. At the top, the Eurostat logo is on the left, and 'Log in' and 'EN English' are on the right. A search bar is also present. Below the header is a navigation menu with 'Home', 'Data', 'News', 'Publications', 'About us', 'Contact us', and 'Help'. The main content area is titled 'Home > Data > Database'. On the left, there is a 'DATA' sidebar with various links like 'Information', 'Statistical themes', 'Stats finder A-Z', etc. On the right, there is a 'NEW DATA NAVIGATION TREE' section with a 'NEW' badge and a link to explore the new data navigation tree. Below this is a 'DATABASE' section with a tree structure. The tree has two main branches: 'Data navigation tree' and 'Tables by themes'. Both branches list the same categories: General and regional statistics, Economy and finance, Population and social conditions, Industry, trade and services, Agriculture, forestry and fisheries, International trade, Transport, Environment and energy, and Science, technology, digital society. A green arrow points to the 'Environment and energy' category in the 'Data navigation tree' branch.

Dissemination

- Environment and energy
 - Environment (env)
 - Emissions of greenhouse gases and air pollutants (env_air)
 - Material flows and resource productivity (env_mrp)
 - Material flow accounts (env_ac_mfa)  
 - Material flow accounts - domestic processed output (env_ac_mfadpo)  
 - Material flow accounts - balancing items (env_ac_mfabi)  
 - Material flow accounts - main indicators (env_ac_mfain)  
 - Material flow accounts in raw material equivalents - modelling estimates (env_ac_rme)  
 - Material flow accounts in raw material equivalents by final uses of products - modelling estimates (env_ac_rmefd)  
 - Resource productivity (env_ac_rp)  
 - Material import dependency (env_ac_mid)  
 - Circular material use rate (env_ac_cur)  
 - Circular material use rate by material type (env_ac_curm)  
 - Material flows for circular economy - Sankey diagram data (env_ac_sd)  
 - Trade in recyclable raw materials by partner (env_trdrmm)  

Thank you



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