

GUIDELINE FOR COLLECTION, TREATMENT AND QUALITY DOCUMENTATION OF LCA DATA

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CASCADE



Background and purpose

- Background:
 - A guideline for has been compiled for
 - Collection
 - Treatment
 - Quality documentationof LCA data.
 - The guideline has been compiled within the European thematic network CASCADE.
- Purpose:
 - To support the development, implementation and maintenance of data collection systems within LCAs, and hence improve the quality and comparability of LCA data.

CASCADE-facts

- CASCADE = Co-operation and Standards for life Cycle Assessment Data in Europe
- CASCADE is a thematic network, and consequentially excludes all new development, but is focused on:
 - reworking
 - integration
 - merging
of knowledge.
- The work is performed by information and knowledge transfer between and within the different competence groups in the network:
 - LCA
 - information modeling
 - training

CASCADE-facts

Partners:

- ENEA - I
- 2.-0 LCA - DK
- CAESAR - UK
- CPM- Chalmers - S
- Ecobilan - I
- EA of UK - UK
- FERRODAY - UK
- Posc/CAESAR - NO
- PRé Consultants - NL
- Rolls - Royce - UK
- ANPA - I
- ISML - I
- IFEU – D

Project runtime: 2002-2004

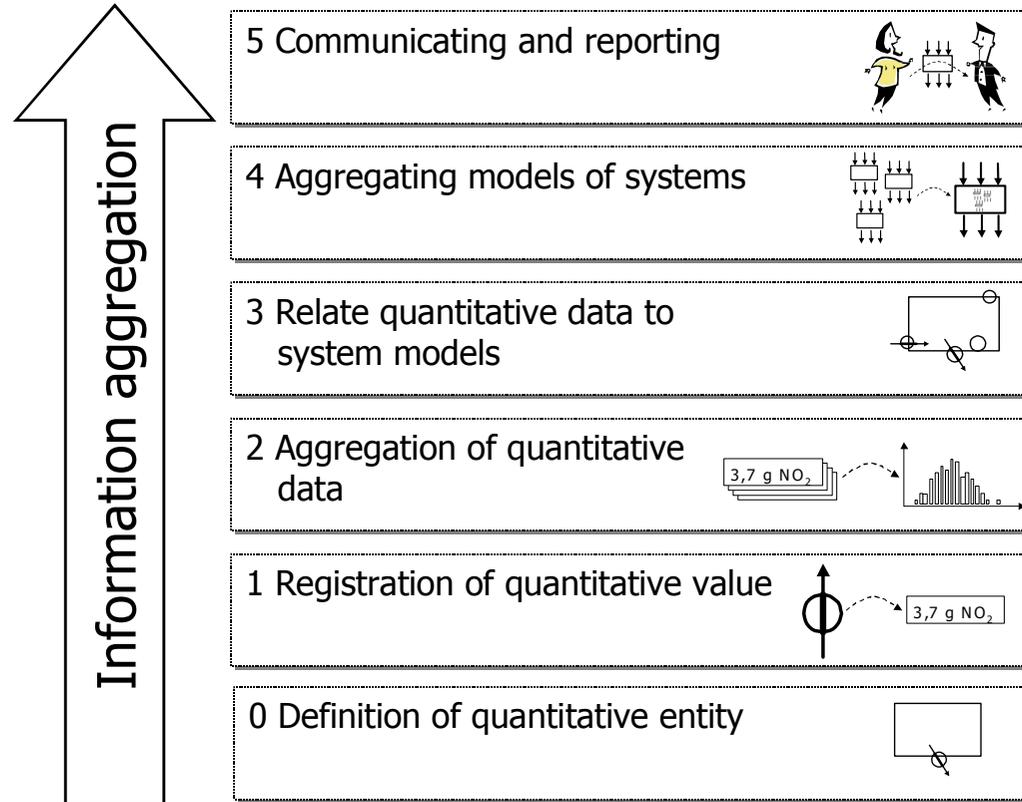
CASCADE aims

- The aims of the CASCADE network is to:
 - further standardise LCA data documentation formats, so that they can be more readily integrated with industrial information systems, such as CAD (Computer Aided Design) and PDM (Product Data Management) systems
 - compile state-of-the-art knowledge into practically useful training material, guidelines and tools.

The CASCADE LCA data quality guideline

- The guideline encompass full LCA:
ISO 14040, ISO 14041, ISO 14042, ISO 14043
- Structure based on the PHASETS-model*
- To facilitate the use of the guideline, each section is divided into:
 - Definitions
 - Actions
 - Documentation requirements
 - Validation
 - Communication

*the PHASETS-model



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Guideline outline

- 4.1 Establishing data collection systems
- 4.2 Collecting individual data values
- 4.3 Forming a probability distribution
- 4.4 Describing a process
- 4.5 Aggregating models of processes

- 4.6 Describing environmental mechanisms
- 4.7 Describing a value system

CONCLUSIONS

The guideline:

- **disseminates** knowledge generated within the community of environmental sciences.
- **provides** a good description of issues during collection, treatment and quality documentation of LCA data.
- **demonstrates** the value that general frameworks and models can provide to the area of LCA.