A 15 PROBLEMS LIST WITH REDUNDANCY AND STANDARD REJECTION

A 3 PROBLEMS PERSPECTIVE WHERE 2 ARE ALREADY IN TREATMENT BY NEIGHBOURING SCIENCES

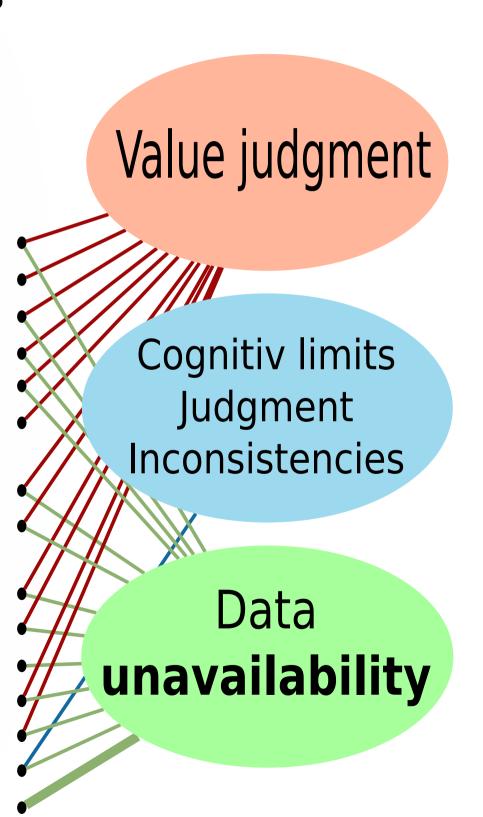
ONE REMAINING PRIORITY

John REAP 2008.

« A survey of unresolved problems in life cycle assessment ».

Table 1 LCA problems by phase

Phase	Problem
Goal and scope definition	Functional unit definition ^a Boundary selection ^a
	Social and economic impacts ^a
	Alternative scenario considerations
Life cycle inventory analysis	Allocation
	Negligible contribution ('cutoff') criteria
	Local technical uniqueness
Life cycle impact assessment	Impact category and methodology selection
	Spatial variation
	Local environmental uniqueness
	Dynamics of the environment
	Time horizons
Life cycle interpretation	Weighting and valuation ^a
	Uncertainty in the decision process
All	Data availability and quality



Recognition and acceptance of value judgment

A major democratic opportunity

Use of MCDA softwares

A need for implementation

Data availability



CONCLUSION: LCA NEEDS UPGRADING SCIENCE NEEDS OPENING

_CA.1.1

Approach:
By goal and methodology

LCA = MCDA

LCA.2.0 LCA.3.0

Approach:

For operationalisation of a corrected methodology

Agent Based Modelling

LCA

Technical solutions about semantic web, MCDA and jugement are already available and developing, but separatly. So the major evolution to bring is the way scientific communities produce and share knowledge. It is the political orientations toward open data and knowledge availability.

a One might reasonably consider these problems to be pivotal decisions.