LCA trainings for technology developers: opportunities, challenges and initiating data collection

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PEPs CHEMICAL ENGINEERING

LIÈGE université

Content

CONTEXT

OPPORTUNITIES

CHALLENGES

ORGANISATION AND TIMING

Context

- Interdisciplinary projects: industrial manufacturing, materials, social science, environmental science…

- Dynamic learning cycle between LCA practitioners and technology developers. Information passing back and forth

- LCA training to:
  - Promote environmental awareness among the partners
  - Facilitate communication and comprehension: *why do you need this data?*
  - Starting point for data collection

Aim: sharing previous experiences & brainstorming of best approaches to do these trainings

Context

Have you ever done an LCA training
for technology developers?

Go to **www.menti.com** and use the code **6257 7535**

https://www.mentimeter.com/app/presentation/alphtzr7cx2vqjkr2s1vzmp4yz1rtcny

Challenges

- ▶ Not an exact science: results differ depending on
  - ▶ Data base
  - ▶ Software
  - ▶ Literature
    - ▶ Boundaries, methods, FU

Reliability issues

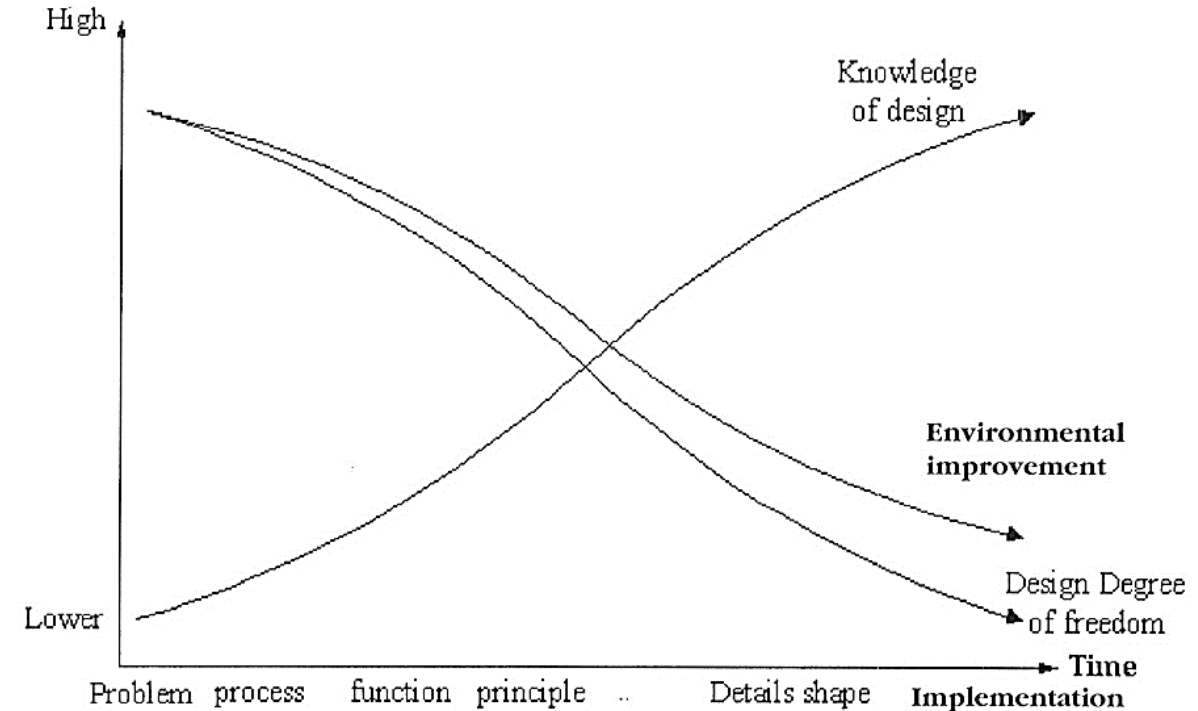- ▶ Rejection to provide some data
  - ▶ Explain energy and mass balances

Discussion:
Other challenges that you have found
How to deal with these challenges

Opportunities

▶ Explaining environmental-conscious design process paradox

▶ Transparency to understand and compare other PV LCA results

▶ In line with new regulations: new rules on environmental impact of photovoltaics coming

Discussion:
What other opportunities do you find?
How to make partners more engaged?

Organization and timing

- Beginning of the project → Use the training to start data collection

- Present preliminary results based on data bases or literature e.g IEA PVPS LCI report 2020

- Other ideas…

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