

Life MATHER WORKSHOP

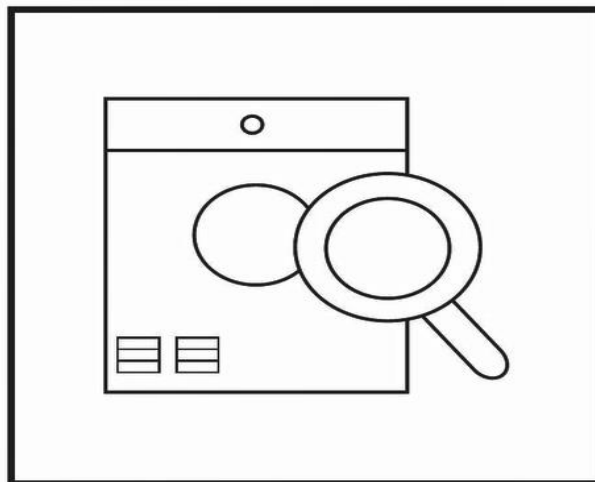
ICT Applications for Monitoring
Electrical & Electronic Appliances
Environmental Friendly & Sustainable Life Cycle

LIFE MATHER PLATFORM – How it works

Melina Psycha, Filopoimin Lykokanellos, Christos Michalopoulos, Antonis Kokossis

NATIONAL TECHNICAL UNIVERSITY OF ATHENS

Life MATHER recap



MATHER



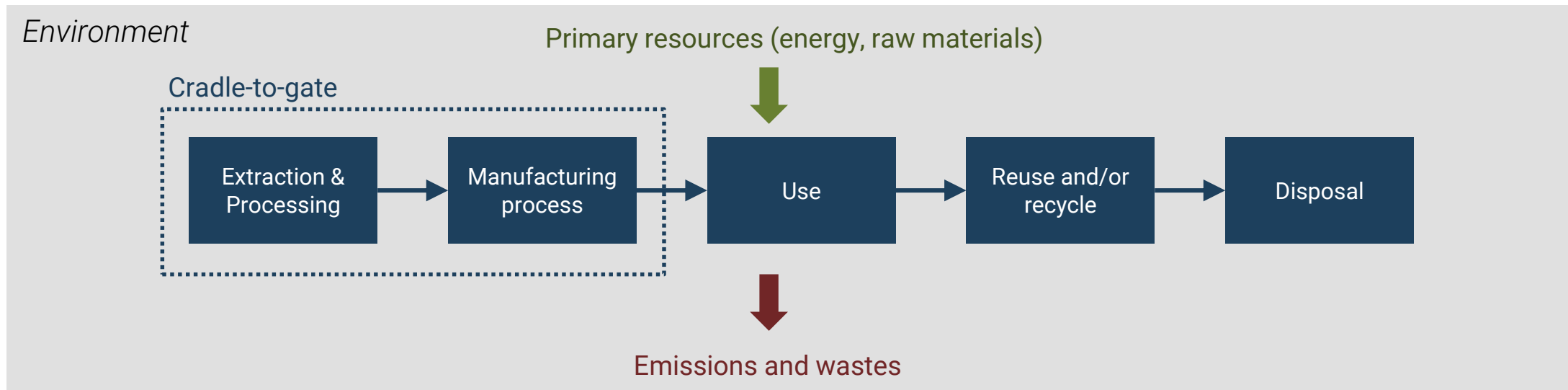
LIFE 16 ENV/IT/0002111 - LIFE MATHER

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MATHER Platform – LCA methodology

According to ISO standards (14041,14042)

1. *System boundaries: Cradle-to-gate; Functional unit: 1 appliance*
2. *Inventory analysis: Manufacturing data, BoM/FMD*
3. *Impact assessment: LCA indicators, midpoint and endpoint categories (ReCiPe method)*
4. *Interpretation: User*



MATHER Platform – Structure

LCA Performance

Process ⓘ

Select an option

Section A: Product selection

Manufacturing Data ⓘ

Input Flow ⓘ

Select an option

Output Flow ⓘ

Select an option

Section B: Manufacturing data

Completed ⓘ

Completed ⓘ

BoM / FMD Data ⓘ

Item ⓘ

Select an option

Component ⓘ

Select an option

Material ⓘ

Select an option

BoM

Substance ⓘ

Select an option

FMD

Section C: BoM / FMD data

Completed ⓘ

Completed ⓘ

Completed ⓘ

Completed ⓘ

Calculate ⚙️

Clear all 🗑️

Ecoinvent v2.2

ReCiPe Midpoint
& Endpoint

MATHER Platform – LCA performance



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LIFE 14/ENV/GR/000858



<http://www.matherproject.eu/>



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MATHER Platform – Future challenges

Information expansion

- More and updated databases (national, international, customized)
- Increase in the number of products



Automation

- ✓ Data are uploaded directly – no user interference
- Matching input data with database



Upgrade

- More functions (e.g. chemicals substitution)
- Add to the *Interpretation* phase





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ReWeee

LIFE 14/ENV/GR/000858



Contact information:

Melina Psycha
melpsycha@mail.ntua.gr

Paola Basta
paola_basta@whirlpool.com

Antonis Kokossis
akokossis@mail.ntua.gr



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