



International Conference on Engineering Design2023 Conference, Bordeaux, France
Industrial Day - Workshop proposal
July 28 2023 **Draft program**

TITLE: Sustainable innovation: Make reuse and repair a core industrial process?

DURATION: 3h (including 30 minutes break)

CHAIRS: Dr. Flore VALLET (IRT SystemX, CentraleSupélec, FR), Dr. François CLUZEL (CentraleSupélec, FR), Dr. Benjamin TYL (APESA, FR)

PARTICIPANTS: 40 peoples maximum

DESCRIPTION

The European economy is surprisingly wasteful and continues to operate a take-make-dispose system. Today, reuse and repair are crucial activities to move toward environmental, economic and social transitions. Recently, the Commission’s Circular Economy Action Plan has emphasized the need to develop more sustainable products, promoting a “right to repair” (European commission, 2020), while France has developed a repair index for various electronic products.

Nevertheless, if reuse and repair activities are developing through local initiatives, through reuse and repair workshops which often originate from the social economy, it seems that more conventional companies still experience difficulties to integrate this new paradigm.

Through the presentation of good practices, conferences, and collective debates, the goal of this workshop is to discuss how to better support designers and companies – in integrating reuse and repair in industrial processes, with a special emphasis on the circularity challenges for reducing electric and electronic waste

We propose a three-step workshop:

1. Presentation of the main issues of reuse and repair in industrial processes (30 min)
2. Inspirational talks to present good practices from companies; social and solidarity organizations (1h)
3. Collective workshop (3 to 4 groups) to challenge the strengths and weaknesses to integrate reuse and repair activities in current industrial processes (1h). Examples of questions to be addressed by teams, in interaction with the guest speakers:
 - What business models for reuse and repair activities?
 - What are the scaling issues?
 - What challenges for designing a refurbished computer?
 - ...

GUEST SPEAKERS

- Emmaüs Connect: dedicated to support remanufacturing process of computers, to provide products at a solidarity price and digital education for fragile citizens.
- DOSATRON: Manufacturer of proportional dosing pumps
- Ecosystem: French eco-organism for WEEE ERP’s
- ...

