

FineFuture

APRIL 2022 #18

FINE FUTURE PRESENTED AT THE LIFE CYCLE ENGINEERING (LCE 2022)

Life Cycle thinking is currently a hot topic in academia and industry, each trying to refine the existing methodologies and apply them to different fields seeking more sustainable and circular communities. The international academy for production engineering, or as in the French acronym "CIRP", annually organizes a conference to bring together experts in the field to discuss and exchange knowledge and present their research and application results to a wide audience under the name Life Cycle Engineering conference. This year the event took place between the 4 and the 6 of April in Leuven, Belgium and was hosted by KU Leuven university.

This year, Hazem Eltohamy from Politecnico di Milano (PoliMi) presented the work being carried out at PoliMi by Prof. Lucia Rigamonti's research team within FineFuture. The work was published as a paper in Procedia CIRP 105 (2022) 422–427 under the name "Scoping the life cycle assessment of Fine Future flotation technology-towards more sustainable mining".

The presentation discussed the environmental part of the sustainability assessment being done by Polimi. The application of Life Cycle Assessment in two of the industrial case studies was discussed, and preliminary results were presented comparing current Business-as-Usual scenarios vs Future scenarios with FF flotation unit implemented on an industrial scale.

Hazem presented the work of the PoliMi team during the "Life Cycle Assessment" session at the conference. The audience well received their work. Currently, the authors are preparing a peer-reviewed paper about the final LCA results and further interpretation of one of the Case Studies in the project and another paper about the holistic sustainability assessment of the same case study, including the social and economic evaluation.

Funded under H2020-EU

Overall budget: € 6 195 022,50

EU contribution: € 6 195 022,50

Grant agreement ID 821265

Start date: 1 June 2019

End date: 31 May 2022

FINE FUTURE PARTNERS:

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 821265