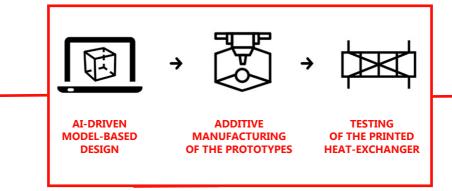


## 3D PRINTED HEAT-EXCHANGERS FOR COFFEE-MACHINES



**3D Coffee** is an experiment aimed at validating an innovative heat-exchanger for a more sustainable, high-quality and personalizable coffee preparation.



**Sustainabiliy and quality** are the two concepts guiding 3d Coffee project and its results: a 3d printed heat exchanger for both electric and non- electric coffee machines with thermodynamic characteristics to guarantee the preparation of coffee in a more sustainable, performing, economical and quality way.

## GOALS



Validation of both the digital tween and the **AI-driven Model-based Design** used to optimize the conformal topology of the heat-exchanger.



**3D printing** of the heat exchanger and optimization of the Additive Manufacturing process through a **set of test-bench prototypes.** 



Measuring of the highly-efficient heat exchanger's performance enabling a **more energy-efficient and sustainable coffee preparation**.

## ()

PARTNERS

## A



**Additive Appliances** is a startup company developing innovative solutions for the next generation of household appliances, including coffee brewers and personal care products.

**Kilometro Rosso** is among the major Innovation Districts in Europe which promotes Additive Manufacturing through Lisa Tech the Living Space for Additive Technologies, a laboratory for companies and professionals who need AM production competencies and services.





This project has indirectly received funding from the European Union's Horizon 2020 research and innovation programme, via an Open Call issued and executed under **project DIH-WORLD** (grant agreement No 952176).

info@kilometrorosso.com www.kilometrorosso.com