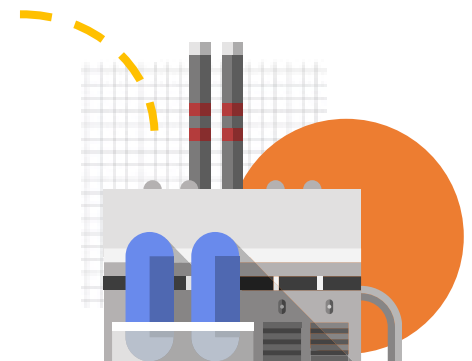# BETTER FACTORY

Grow your manufacturing business

What is Better Factory?

Better Factory is an initiative funded under the European Commission Horizon 2020 programme. We invite European **Manufacturing SMEs, Artists, and Technology suppliers** to engage in a set of one-year collaborative experiments to redesign manufacturers product portfolio and manufacturing processes.
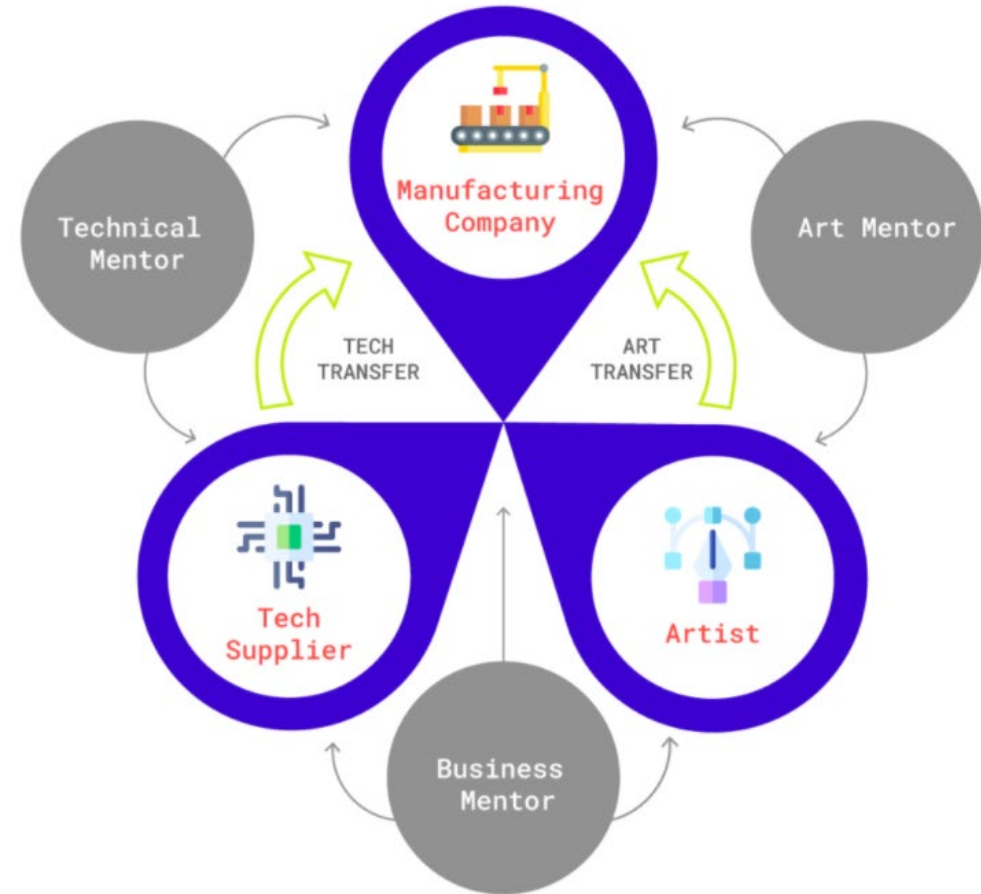
o The project will enable Manufacturing SMEs and Mid-Caps to **improve manufacturing** processes and **enter new markets** with customisable products or service portfolios.

o Artists with an industrial background to **create new business models** for themselves and reach new prospective clients.

o Technology Suppliers to reach out to **new potential customers and test technologies** in real-life situations with low financial risk.

16 Knowledge Transfer Experiments (KTE)

BETTER FACTORY

- Consortium of three actors:
  - SME, Artist and Tech supplier

- Funded through BetterFactory

- Organized Open calls and Match making

- Technology, artist and business mentoring

- Supported by RAMP market platform, RAMP IoT platform and digital eneblers (APPS)

- Results:
  - Artistic: challenge driven, opportunity driven
  - Technical: digital solutions
  - Testing of platform and tools developed in BetterFactory project

How will we do it?

BETTER FACTORY

Providing tools: RAMP & APPS

Better Factory will provide **two cutting-edge tools** developed and tested during the lifetime of the project:
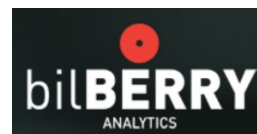
RAMP

A **one-stop-shop** where Manufacturing SMEs and Mid-caps will be able to buy services from Technology Suppliers, Artists, Competence Centres, training providers and financial brokers.

APPS

Advanced Production Planning and Scheduling Deployed on a free and open IoT platform at 10% of the cost in 50% less time. APPS will automatically reconfigure the collaborative robots.

Who are we?

BetterFactory project in September 2023

- Two years in and one more year to go

- First round of 7 KTE completed with many good results

- Second round of 9 KTEs is running, finishing 6/2024 – many promising KTEs

- Second version of RAMP platform is being tested in KTEs

- **11 out of 12 APPS are** being tested in one or more KTEs

- Training and dissemination

Meet our KTEs

Supervised manufacturing of real-time traceability in ham production

Digital Solutions for Better Scales Factory

Exploring Product Customisation and Robotic Fabrication in a Small Factory

Manufacturer

Manufacturer

Manufacturer

Artist

Technology Provider

Artist

Technology Provider

Artist

Technology Provider

Meet our KTEs

Better CNC Factory

Manufacturer

FICTION FACTORY

Jesse Howard

Artist

Iaac

Technology Provider

Modular Cobot for production of Stone Paper Innovative Products

Manufacturer

Europack Bulgaria
Dress to Impress

ISAAC Monté

Artist

OVISO ROBOTICS

Technology Provider

Optimization of Digital Craftmanship in 3D Printing

Manufacturer

THE NEW RAW

GARETH NEAL

Artist

ARTIFIC INTELLIGENCE AI

Technology Provider

Welded Metal Door Design, Fabrication, and Innovation

Manufacturer

ZOVOS EKO

TOMAS LIBERTINY

Artist

ROSSUM integration

Technology Provider

StonePaper 3D printer

FoundObjects
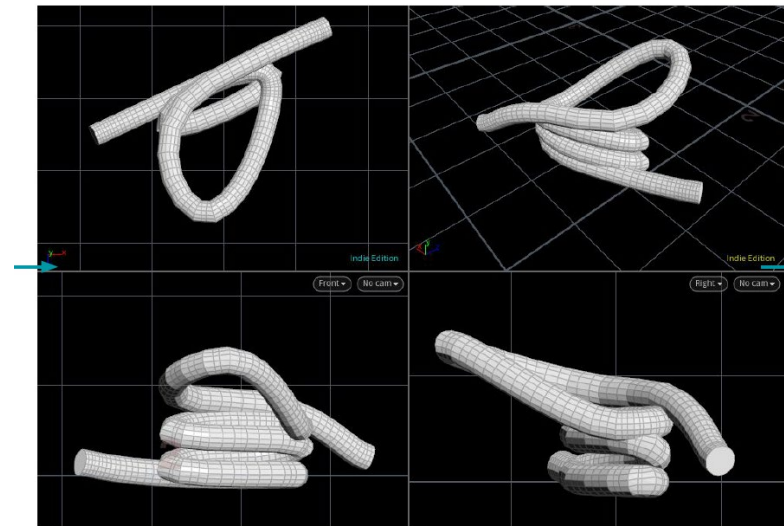
LOOP

Development on the loop algorithm.

Stone Paper
Wine growth
tubes

Reused powder coating
finishes for outdoor
electrical cabinets

Cladding
System

KNOTTY outdoor
printed furniture

7 projects → 16 outcomes

KTE	Outcome 1	Outcome 2	Outcome 3	Outcome 4
FOLD	Stone Paper Robotic cell	Stone Paper Plant growth tubes	Stone Paper lamp	Stone Paper printer
ODC3D	Temperature control solution for printing	LOOP Algorithm	KNOTTY series	
RWC	Welded steel door design			
DSBSF	Computer controlled scale assembly process & connected scale	AR Worker Break Rooms tool		
SMARTHAM	Intelligent Ham Forecasting System	Neural Taste Mapping Algorithm		
MINIROBOFAB	Recycled powder coating finishes	Powder induced installation elements		
BCF	FoundObjects	Cladding System		

16 KTE project outcomes

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◊ 3 KTEs found a way to collaborate amongst the three partners
◊ 2 KTEs had separate routes for art and tech
◊ 2 KTEs had a failed tech project

Art + Industry
Tech + Industry
Art + Tech + Industry

BETTER FACTORY

Powered by
RAMP
Robotics and Automation MarketPlace

Home   About   Insights   **Experiments**   APPS   Trainings   Contact

FOLD

ODC 3D

WRC

DSBSF

MiniRoboFab

SMARTHam

BCF

OCCE

3DARTDESIGN

REFINE

SHOES IN CIRCLE

SMARTENVELOPE

SMARTVIEW

Grow your manufacturing business

To engage in collaborative experiments to redesing manufacturers current products 200K

https://betterfactory.eu/knowledge-transfer-experiments/
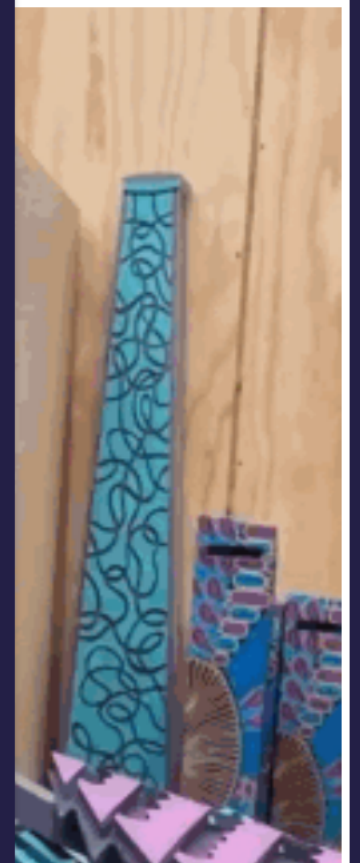
RAMP

Sign in / Register

RAMP

Accelerating productivity of Small and Medium sized Enterprises (SMEs)

RAMP: Empowering European SMEs in Manufacturing and Robotics

RAMP brings together data insights, ready-made software and tools, and a community of manufacturers and service providers in a true one-stop shop, built to accelerate European SMEs in manufacturing and robotics.

Data Visualization

Watch your business grow by gaining stronger awareness of its processes. Get an improved overview of your factory's data and address possible issues within the production line procedures!

Go to dashboard

## Marketplace of technology providers

RAMP is a meeting point for professionals that are looking to connect and discover specialized partners and state-of-the-art solutions that will level up their businesses! Navigate through numerous technology providers that offer a variety of tools and services and up your business game in no time!

Discover technologies

Community of Manufacturing SMEs

Do you ever think that automations would make a huge difference to your manufacturing processes, but you have no idea where to start? Make it possible by connecting with fellow Small Manufacturing Enterprises (SMEs) that will share their experience and explore all the next steps for automating your business!

Discover the RAMP community
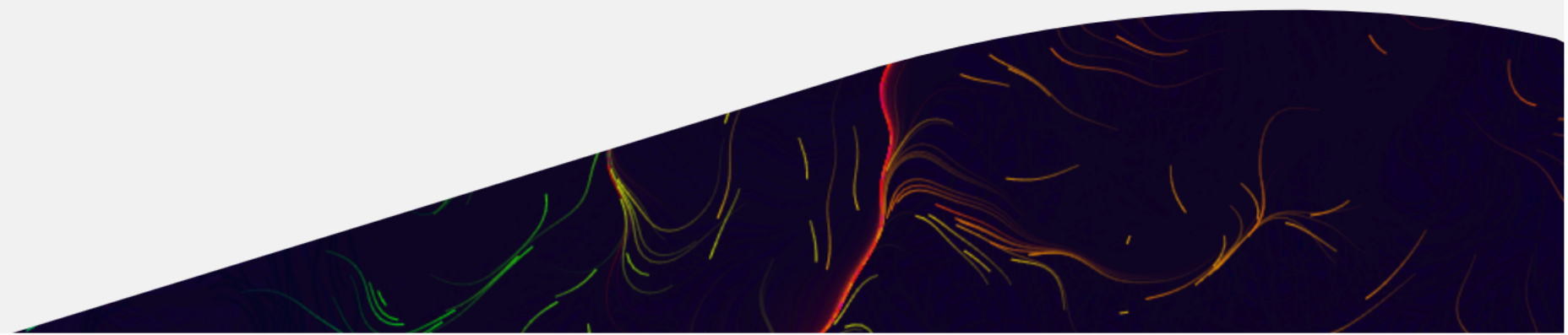
APPS tools developed and tested

Cognitive HRI

- Fatigue Monitoring System
- Intervention Manager
- Pose Recognition and Correction

Logistics

- Real-Time Locating System
- Material Flow
- Agent Optimization
- Temporal Heatmap of Human Occupancy
- Person Detection & Tracking
- Logistics Library

Resource optimization

- Grafana Dashboard
- Business Process Optimization
- Process Optimization

Re-configuration

- Manufacturing Process Management System
- Advanced Plant Model

Challenge for last year of project

Making results sustainable

- Creative Innovation method for SME+Artis+Tech supplier (KTE)
- RAMP market place and IoT
- APPS tools
- Results from KTEs

Thank you!