

# The Cloud Manufacturing Solution

Matchmaking Webinar June,



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**CloudiFacturing.eu**



# h o w e a r e – l o u d i l a c t u r i n g ( ) r o j e c t

- H2020 Project funded under GAN 768892
- Develops CFG Solution / CFG Digital Marketplace which will facilitate the access to cloud / HPC-based modelling and simulation for SMEs
- Consortium of 33 initial partners, 5 DIHs
- 2 Open Calls, & 3 waves of experiments implementing 21 application experiments
- Project duration: Oct 2017 - March 2021
- cloudSME is Work Package Leader for Impact & Commercialisation & Post Operator of the Digital Marketplace
- Project Coordinator: Fraunhofer IGD

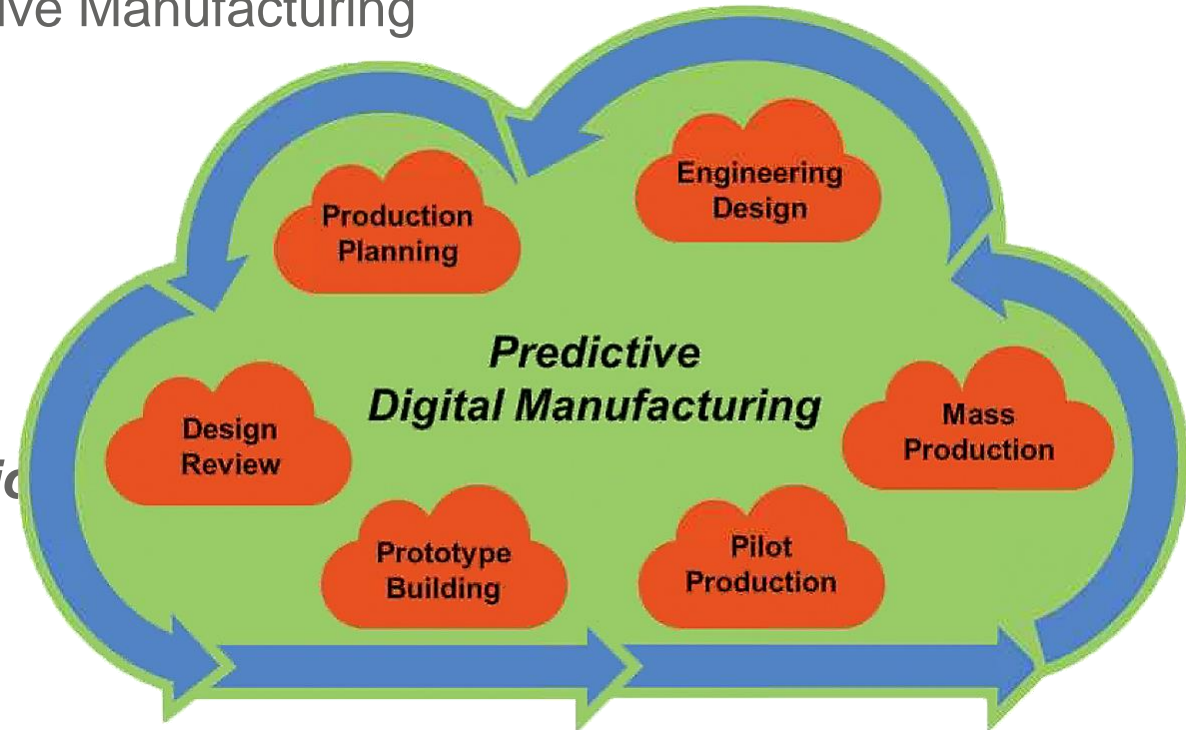
# The Mission and Vision of Cloudification of Production Engineering for Predictive Manufacturing (CloudiFacturing)

The mission of **CloudiFacturing** is to optimize

- *production processes and producibility* using
- *Cloud/HPC-based modelling and simulation* leveraging
- *online factory data and advanced data analytics*

thus contributing to the

- *competitiveness and resource efficiency* of manufacturing SMEs, ultimately fostering the vision of
- *factories 4.0 and their circular economy.*



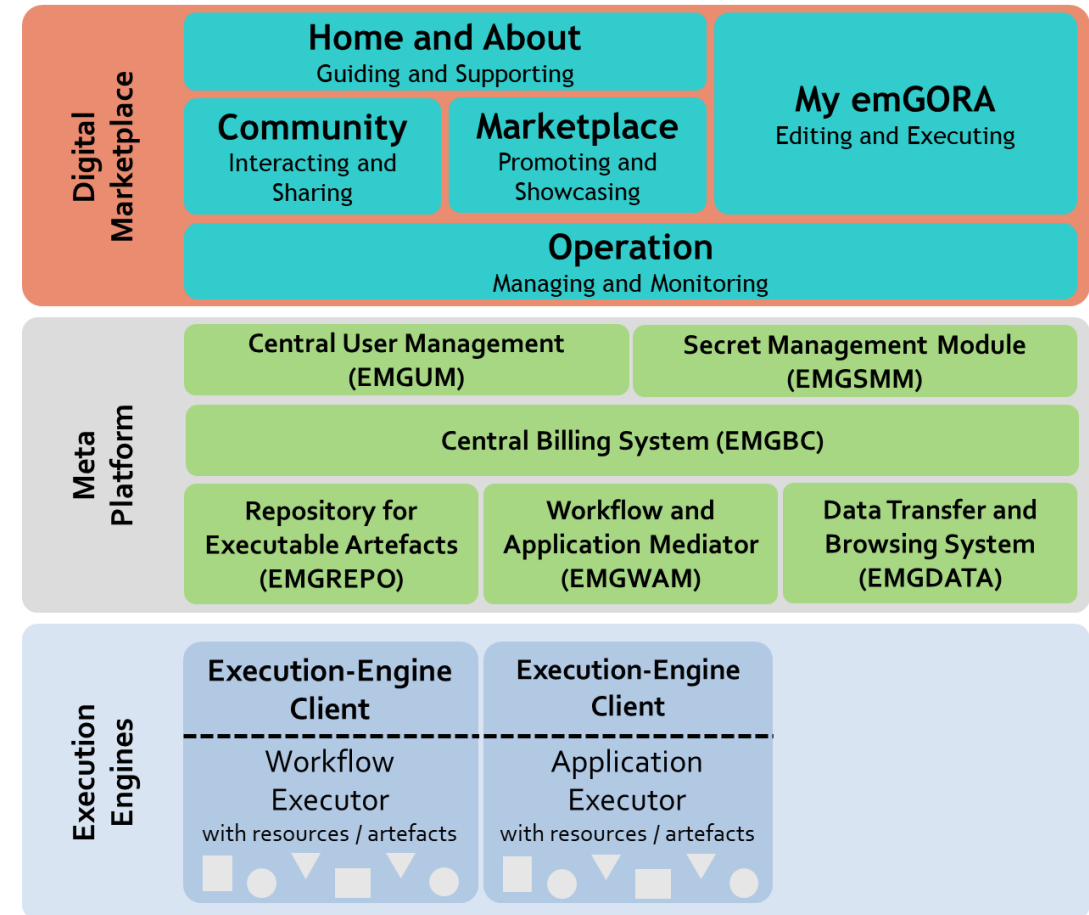
# The CloudiFacturing Digital Marketplace

The Digital Marketplace is the default entry point to the CFG Solution

- It is inspired by the concept of “agora”, aiming to gather assemblies and markets within the same space

It aims to:

- facilitate the access to cloud / HPC-based modelling and simulation for SMEs,
- offer simulation and visual analytics software for big factory data running on flexible Cloud and HPC resources as well as cloudified Computer-aided tools (CAx),
- empower technology providers to offer their solutions,
- provide training and consultancy services to facilitate the adoption of the advanced technology,
- connect people and facilitate collaboration,
- promote the technology across Europe focusing on manufacturing SMEs,
- be the central channel to commercialise the results of the project.



# Key Partners



# Barcodes – key to success for Cloud Manufacturing

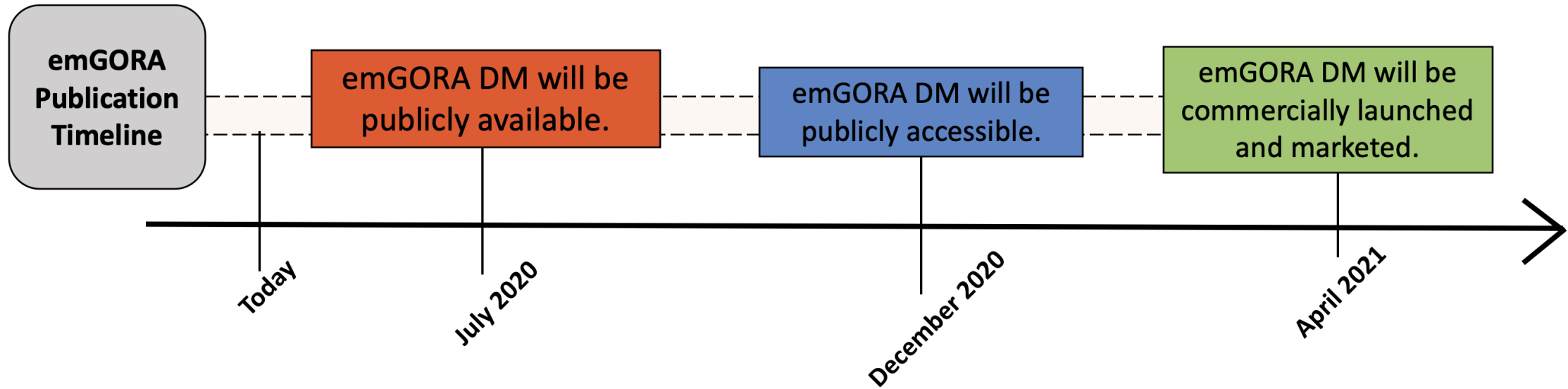
## DIHs as local guides (Multiplier network)

## CURRENT NETWORK OF DIHs

1. Training of local “CFG solution experts” in the envisaged DIH network
2. Enable DIHs across Europe to offer the CFG solution benefits to their networks
3. Within CFG Project: planned “DIH Roadshow” of events in direct collaboration with each DIH to showcase the benefits of CFG.
4. Offer the concept of promotional expertise roadshows and collaboration options other I4MS DIHs to enlarge the supportive community.



# Marketing & publication timeline



# Multiple channels for collaboration

- Extension of the CFG solution through other I4MS projects jumping on:
  - **DIGITbrain** and **Change2Twin** (Digital Twins for Manufacturing), **PULSATE** (Laser-based Manufacturing), **CaxMan** (Computer-Aided Technologies for Additive Manufacturing)
- DIH collaboration to foster sustainability of the CFG DM through
  - Joint events (roadshow)
  - DIH promotion of CFG innovative solution to their network of SMEs
  - Provision of training courses and marketing options for DIHs („CFG Experts“)
  - Visibility of collaborating DIHs on the CFG Marketplace
  - Content co-creation partnership

Your collaboration options!



# Summary

- CFG Project to develop a Digital Marketplace which will facilitate the access to cloud / HPC-based modelling and simulation for SMEs
- Publication of the CFG Digital Marketplace: April 2021
- Sustainability shall and will be further ensured by future collaborations with DIHs and other innovation projects
- Concentrated efforts to enlarge the CFG Network to provide access of ICT-enabled solutions to European stakeholders

## Questions?



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