Digital Twins for Manufacturing

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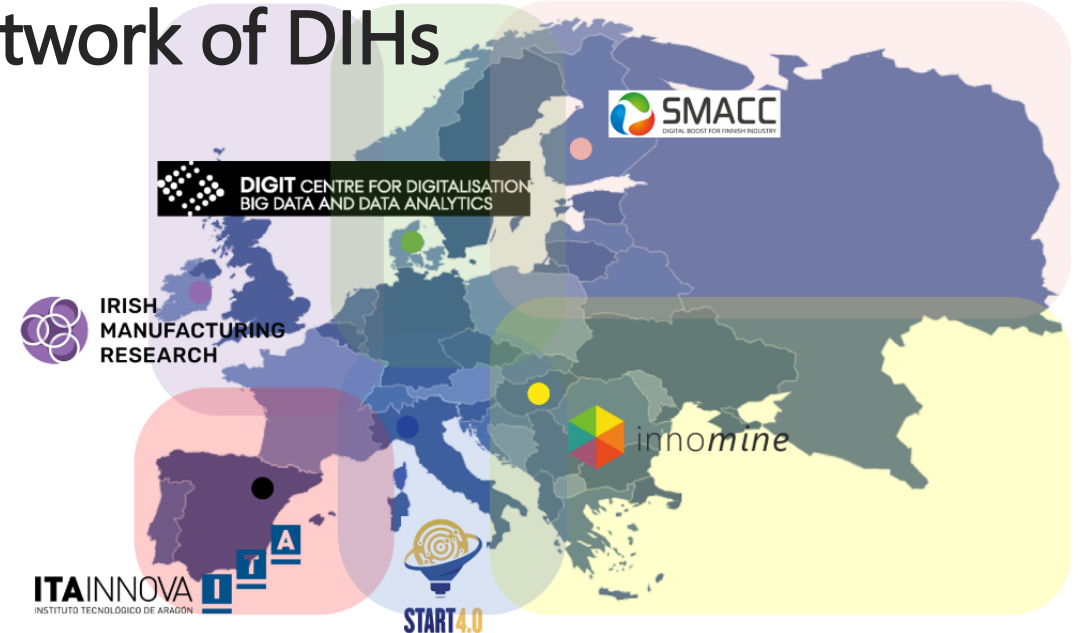✉ antonio.ortiz@pnoconsultants.com

The DIGITbrain consortium

Core technical and administrative partners

Experiment partners

Network of DIHs

Challenge

☐ DIGITbrain main challenge

  ☐ "…to enable customised industrial products and to facilitate cost-effective distributed and localised production for manufacturing SMEs…"

☐ How?

  ☐ "…by means of modelling, simulation, optimisation, analytics, and machine learning tools to augment the concept of digital twin with a memorising capacity…"
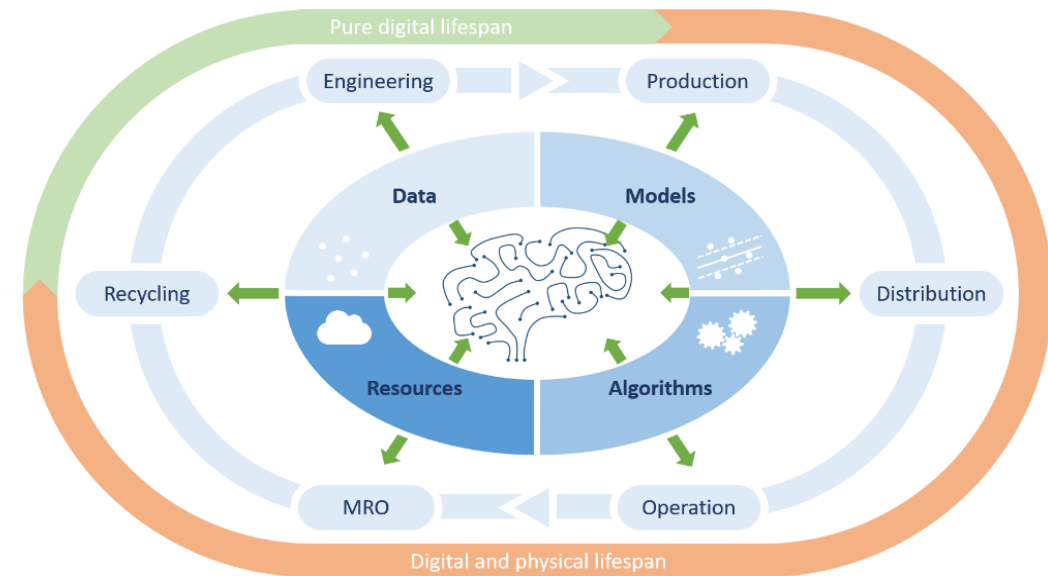
DIGITbrain in a nutshell

Extend the Digital Twin concept with memorizing capacity to cover the whole product lifetime

- Accelerate adaptation of manufacturing and products to changing conditions
- Facilitate flexible manufacturing to strengthen competitiveness
- Enable personalized manufacturing in an affordable way

Democratize technology access for manufacturing SMEs

DIGITbrain objectives

1. **To implement the Digital Brain concept**
   - ☐ To configure and orchestrate data, models, algorithms, and resources

2. **To develop MaaS business model**
   - ☐ To be implemented by the DIHs

3. **To augment the capabilities of the** Cloudi Facturing **Marketplace**
   - ☐ Integrating Digital Brain concept and MaaS business model

4. **To conduct three waves of experiments**
   - ☐ To validate the project results: 1 internal, and 2 Open Calls

5. **To evangelise the manufacturing community**
   - ☐ On the benefits and impact of MaaS – DIHs involvement
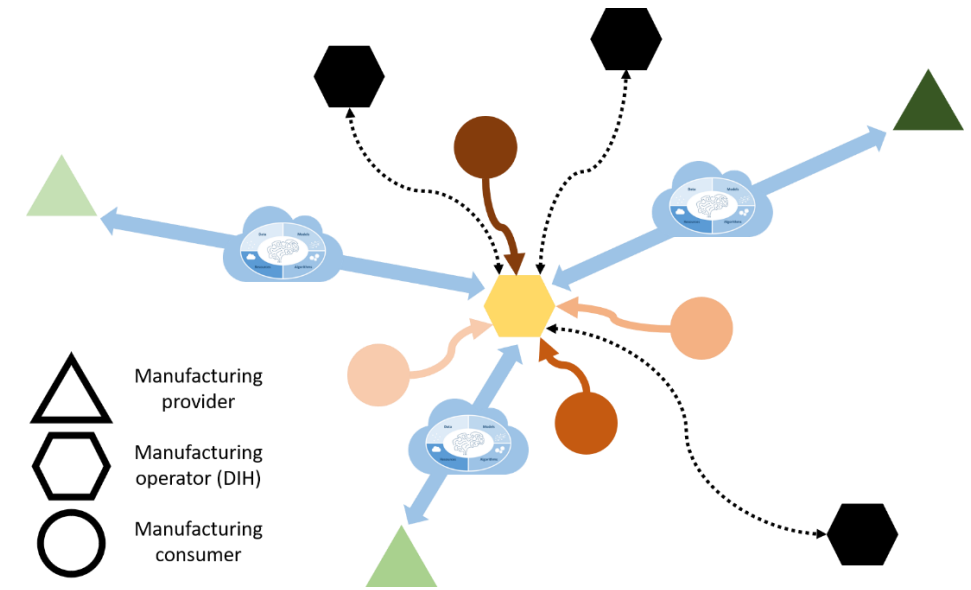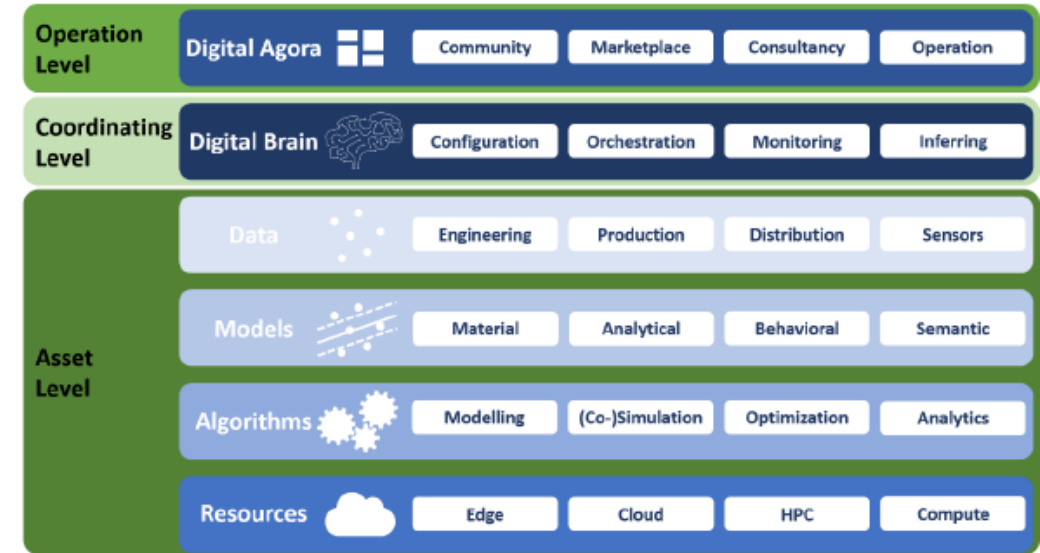
DIGITbrain timeline

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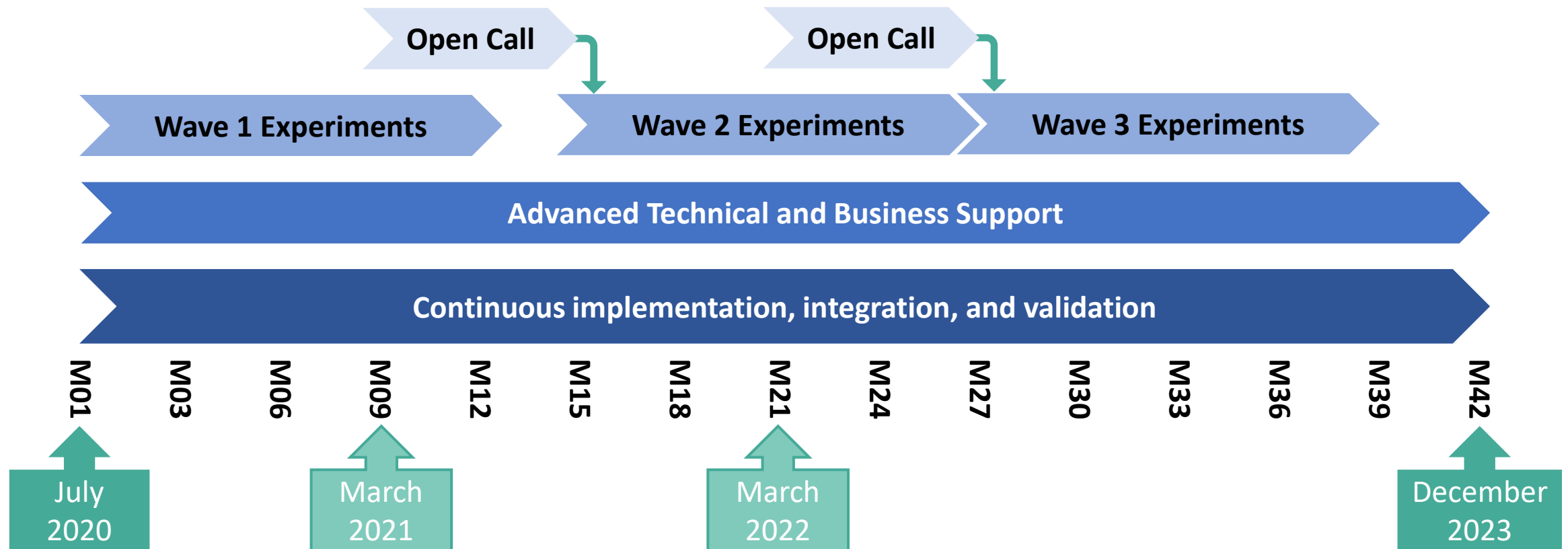
Thank you for your attention!

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