DIGITBRAIN

What types of experiments do we support?

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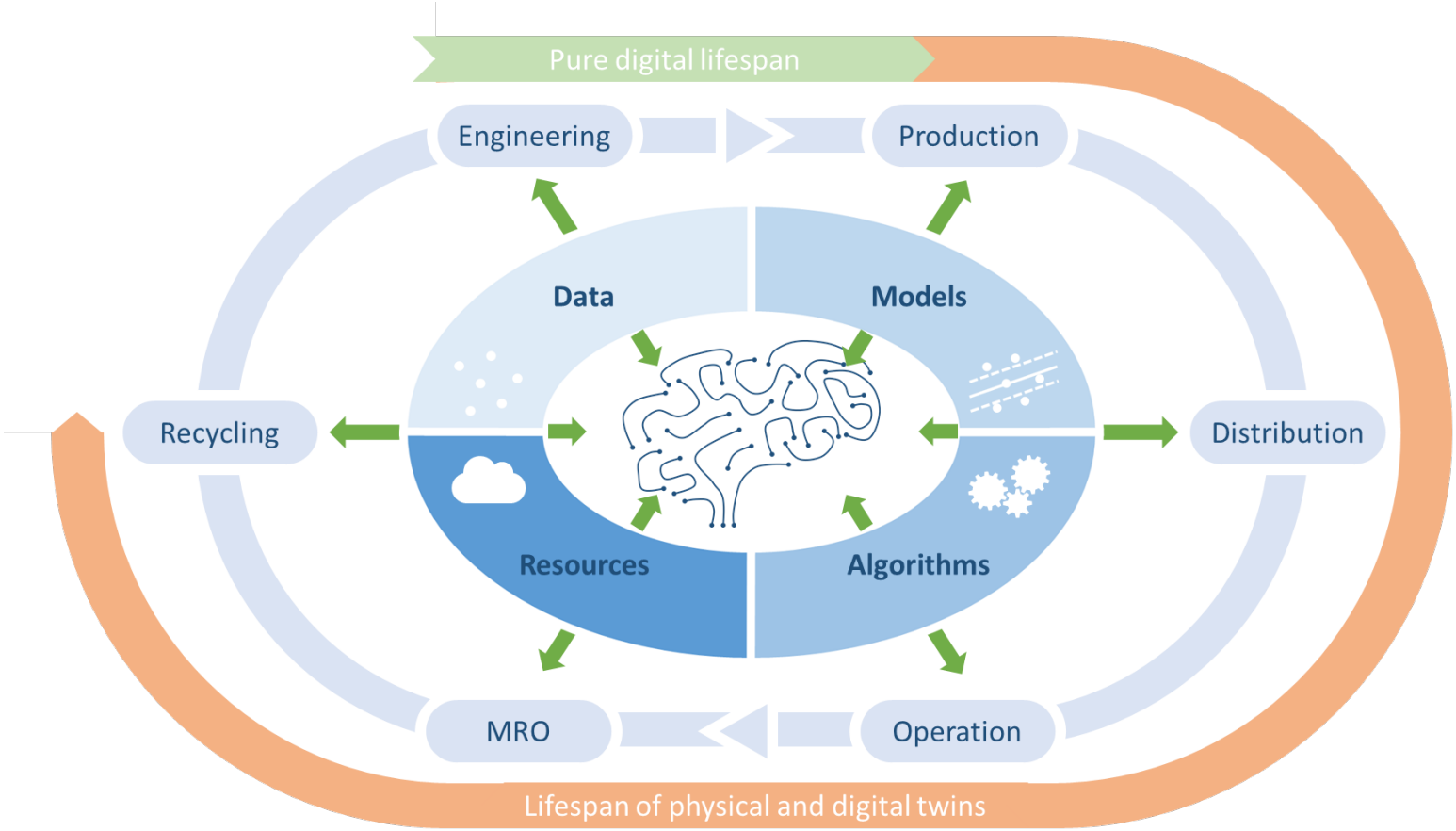
DIGITbrain has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952071

Concept of the Digital Product Brain



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Focus: Digital Twins and Industrial Products

- **Industrial Products:** Mechatronic systems (or components) that are operated by manufacturing companies to support the production of other products.
- **Digital Twin:** Represented by static and dynamic models that can evaluate historical and actual data to assess the condition and to simulate the behaviour of the industrial product.
- **Digital Product Brain:** Guides the behaviour and performance of the industrial product by coalescing its physical and digital dimensions and by memorising the occurred (physical and digital) events over a significant part of its lifecycle.

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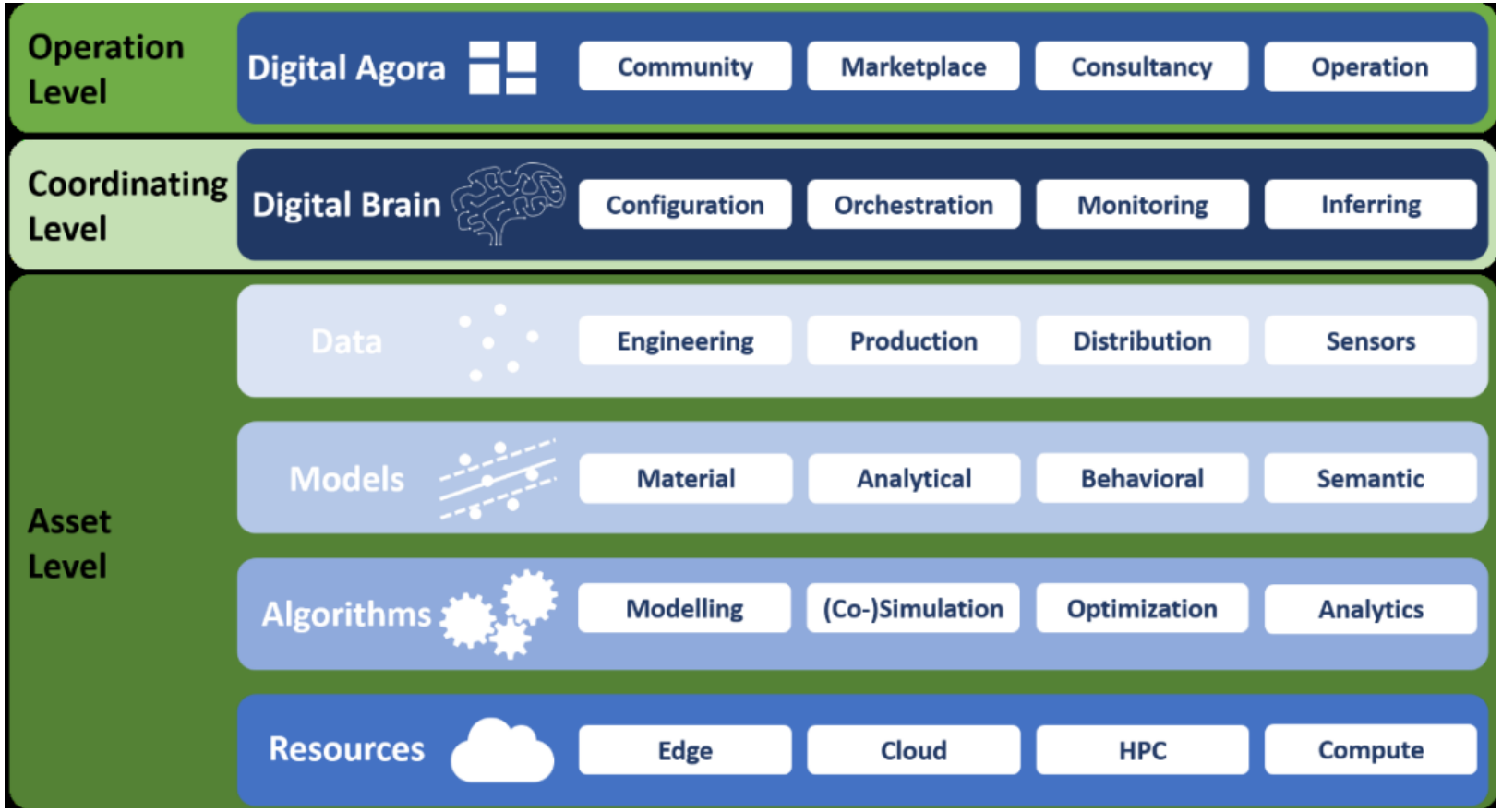
The high-level DIGITbrain concept



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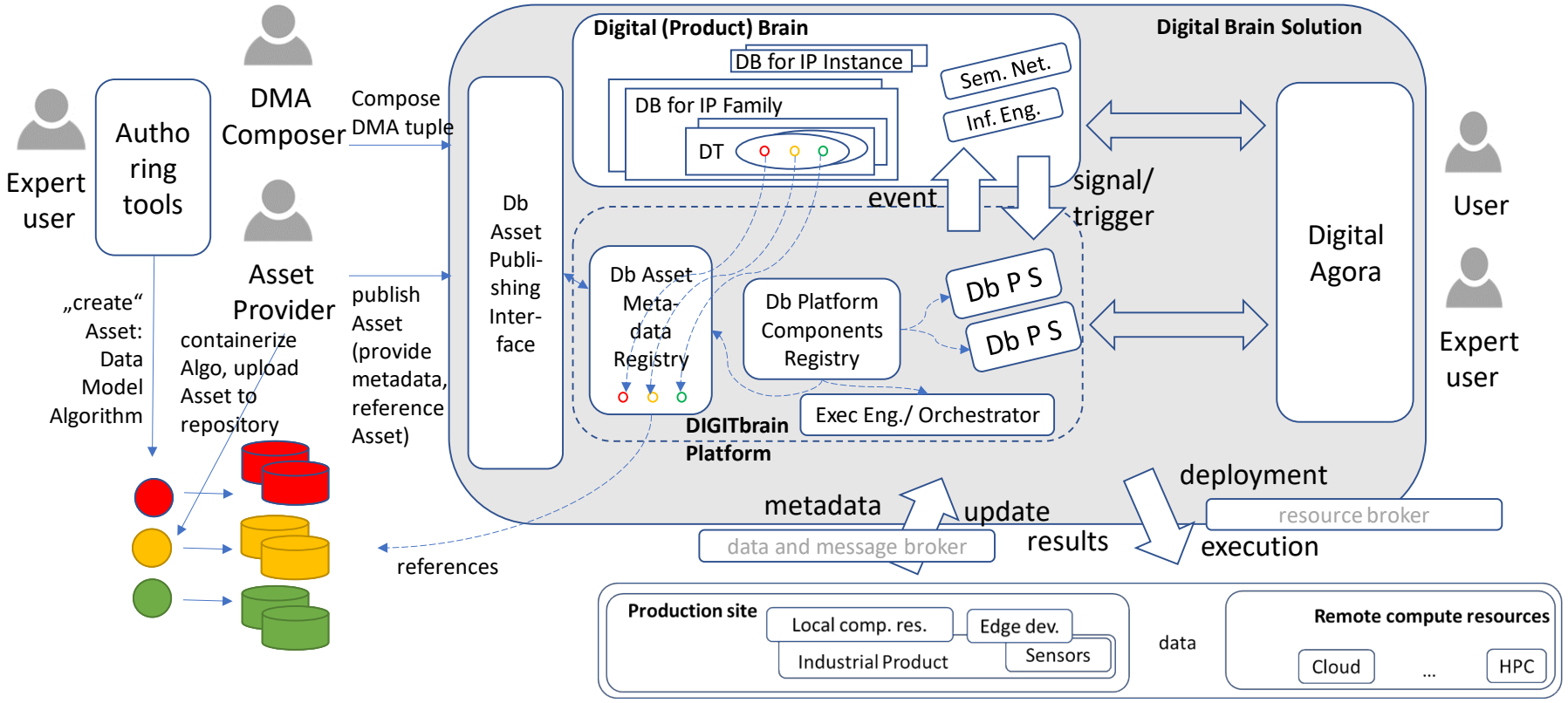
The DIGITbrain platform



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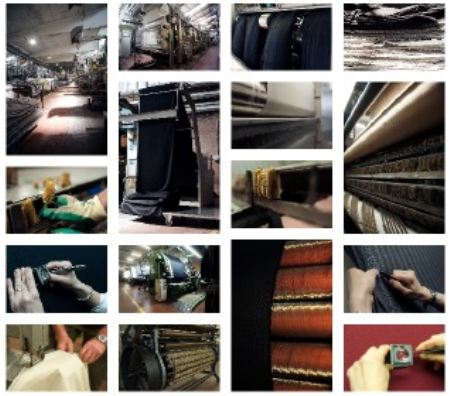
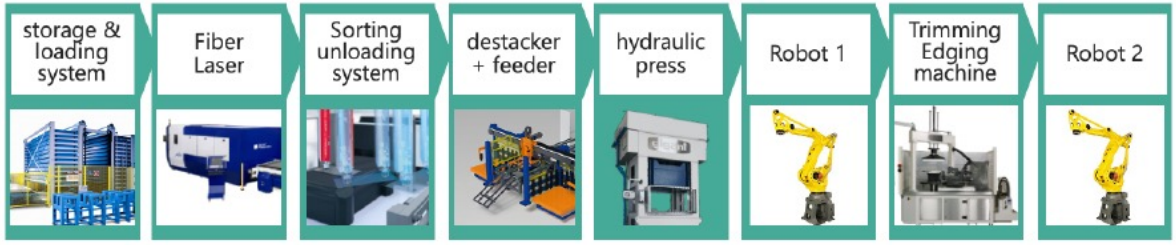
Experiments of the First Wave

1. Digital Style - Digital twin for fabric production optimization
2. Digital Brain for Injection Moulding
3. Digitization and optimization of snow guards manufacturing
4. Digital Twin for Additive Manufacturing (AM)
5. Digital Brain for Laser-Cutting and Forming of Aluminium
6. DIGITbrain in Agricultural Robots
7. Data-Driven Modelling Of Powder Bed Fusion Technology





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