

RecalV

Rapid Reconfiguration of Flexible Production Systems

To develop and demonstrate the next generation of versatile production systems based on reconfigurable modular production resources.



- Economic production of smaller lot sizes and higher number of variants
- Reduction of the set-up, changeover times and costs
- Reduction of average energy consumption
- Support for standardisation of communication protocols, data structures and tool connectivity

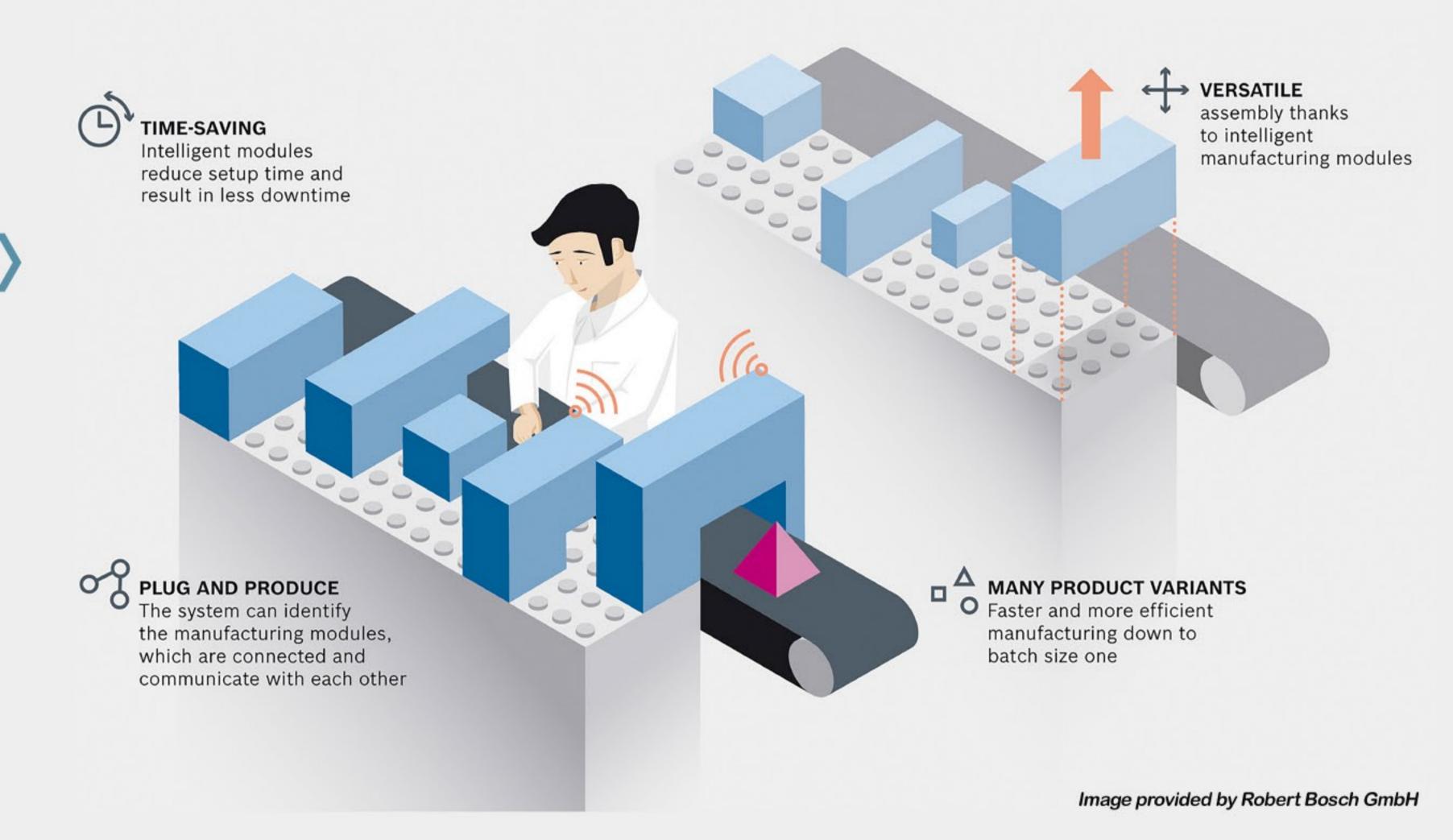
The ReCaM Approach



The approach is grounded on the development of techniques for the design, reconfiguration and management phases of production systems.

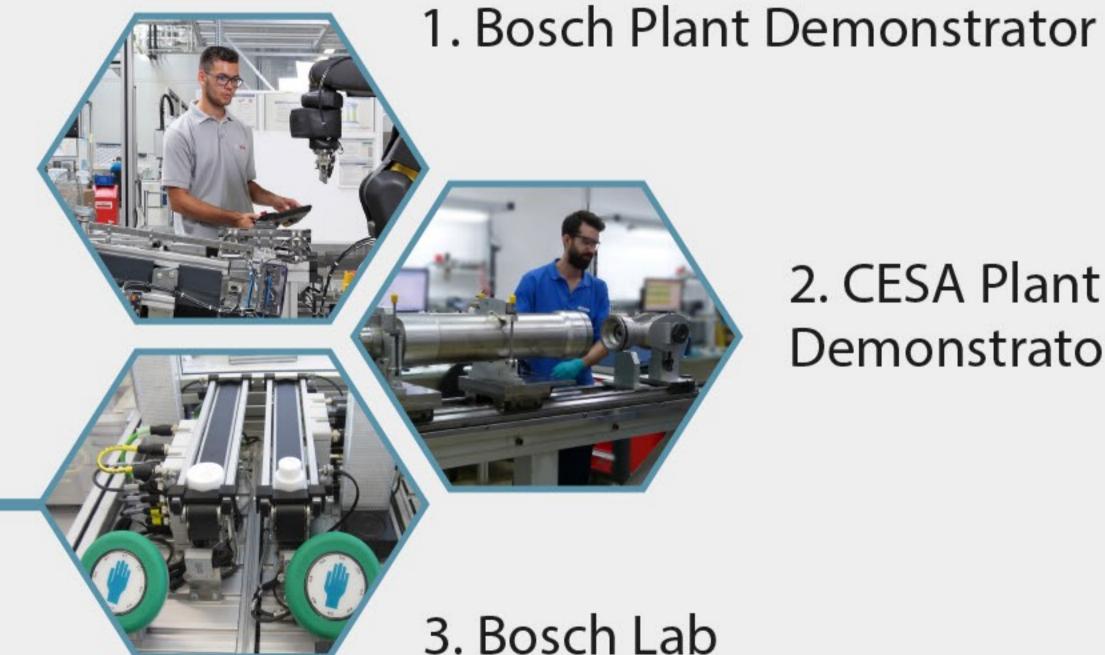
- Capability-based system reconfiguration
- Automatic adaptation of resource capabilities
- Auto-programming of mechatronic objects (MOs)
- Rapid reconfiguration of the system according to product requirements
- Engineering methods for the integrated reconfiguration and production planning

ReCaM RESEARCH PROJECT Developing a new manufacturing system



Demonstration **Environments**

The ReCaM solutions will be implemented and demonstrated on two industrial environments and one lab demonstrator.



2. CESA Plant Demonstrator

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