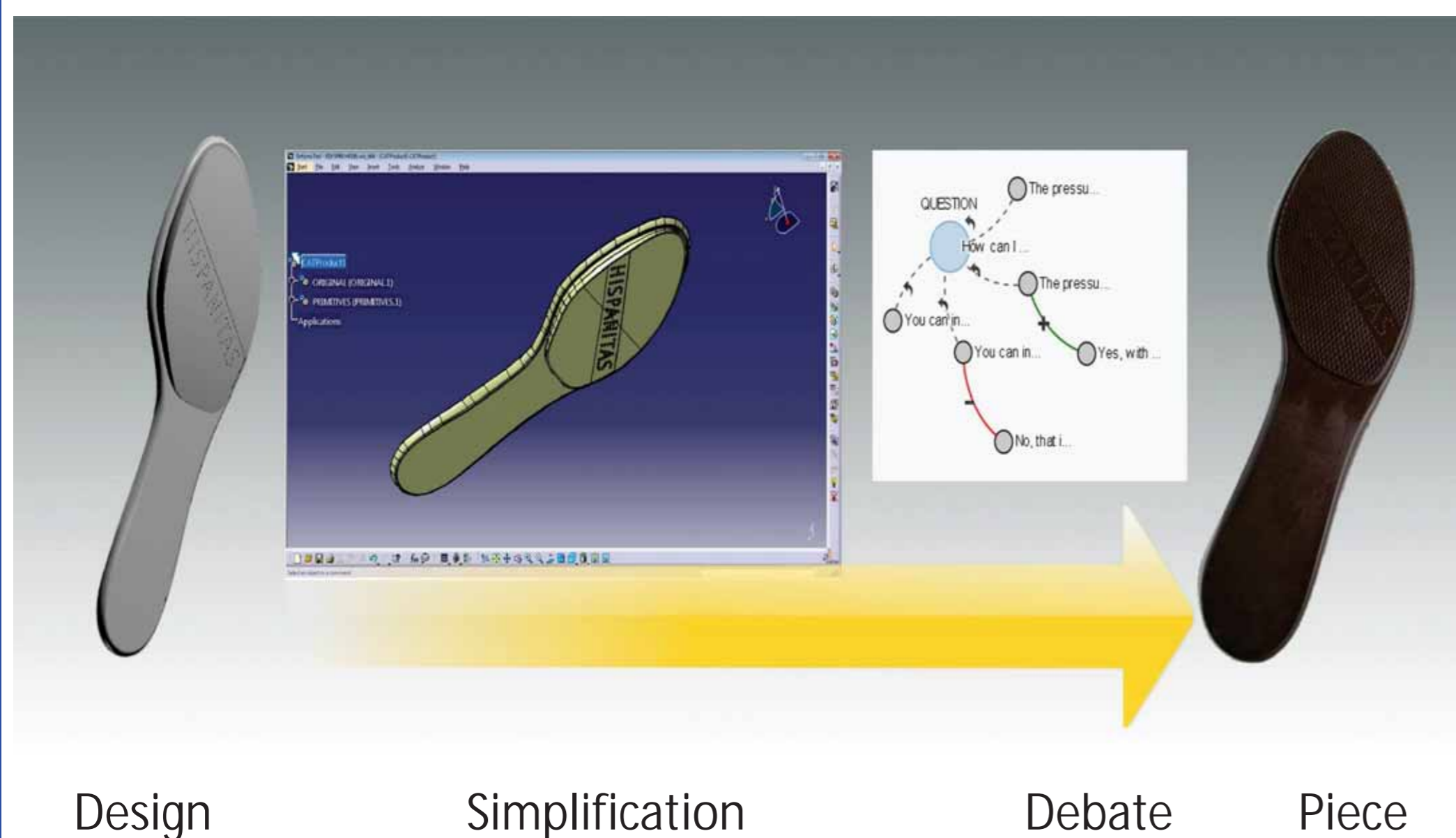


PROJECT INCENTIVE

- ❑ The production of plastic parts have moved from highly standardized moulds to more customized demand with small batch production.
- ❑ Injection companies are handling a strong pressure to deliver in short time high quality plastic pieces.
- ❑ The characterization of the process to make a mould depends strongly on the geometry of the mould and properties of the injected polymer.
- ❑ Des-MOLD is born to solve the important problems nowadays have the injection moulding companies, reducing time and cost of their products.



OBJECTIVES

- ❑ Development of:
 - Effective structural feature-based modelling software for moulding optimization.
 - A software module for virtual sensorization of moulds and structural features.
 - An integrated decision support modelling tool for moulding injection optimization and planning.
- ❑ Demonstrator, indicators of higher productivity (time/cost) and evaluation.

INNOVATION

- ❑ Construct an intelligent knowledge-based system that uses as a main source, past empirical experiences and simulation data to optimize:
 - At the design time, the geometries of the pieces and moulds according to the desired features.
 - At production time to monitored the expected process control variables.

PROJECT RESULTS

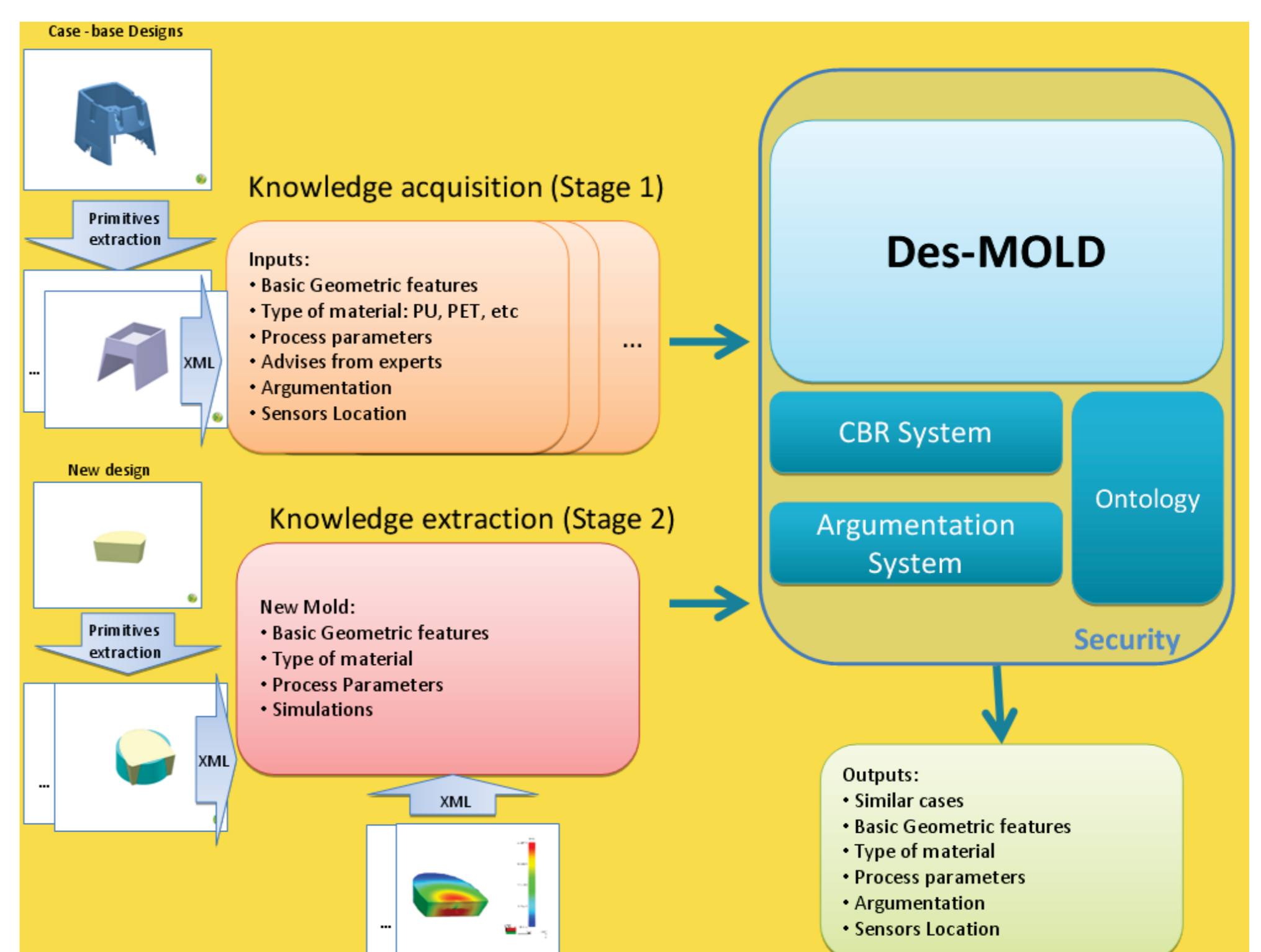
- ❑ Prototypes from the developed technology are constructed and validated on 2 different industries (*Shoe and automotive industry*).
- ❑ Reduction in time for injection moulding production between 11% and 50%, depending on the piece produced.
- ❑ Reduction in costs between 9% and 19%, depending on the piece produce.
- ❑ Reduction in plastic waste material.

CONSORTIUM

Coordination by:



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WITH THE SUPPORT OF:



"The research leading to these results has received funding from the European Union's Seventh Framework Programme managed by REA-Research Executive Agency <http://ec.europa.eu/research/rea> (FP7/2007-2013) under grant agreement n° 314581".