

We **A** [AUTOMATION] **R** [RESEARCH] **E** [ENVIRONMENT] Sanitaryware

Dpd

Digital product development

New modelling frontiers



SACMI

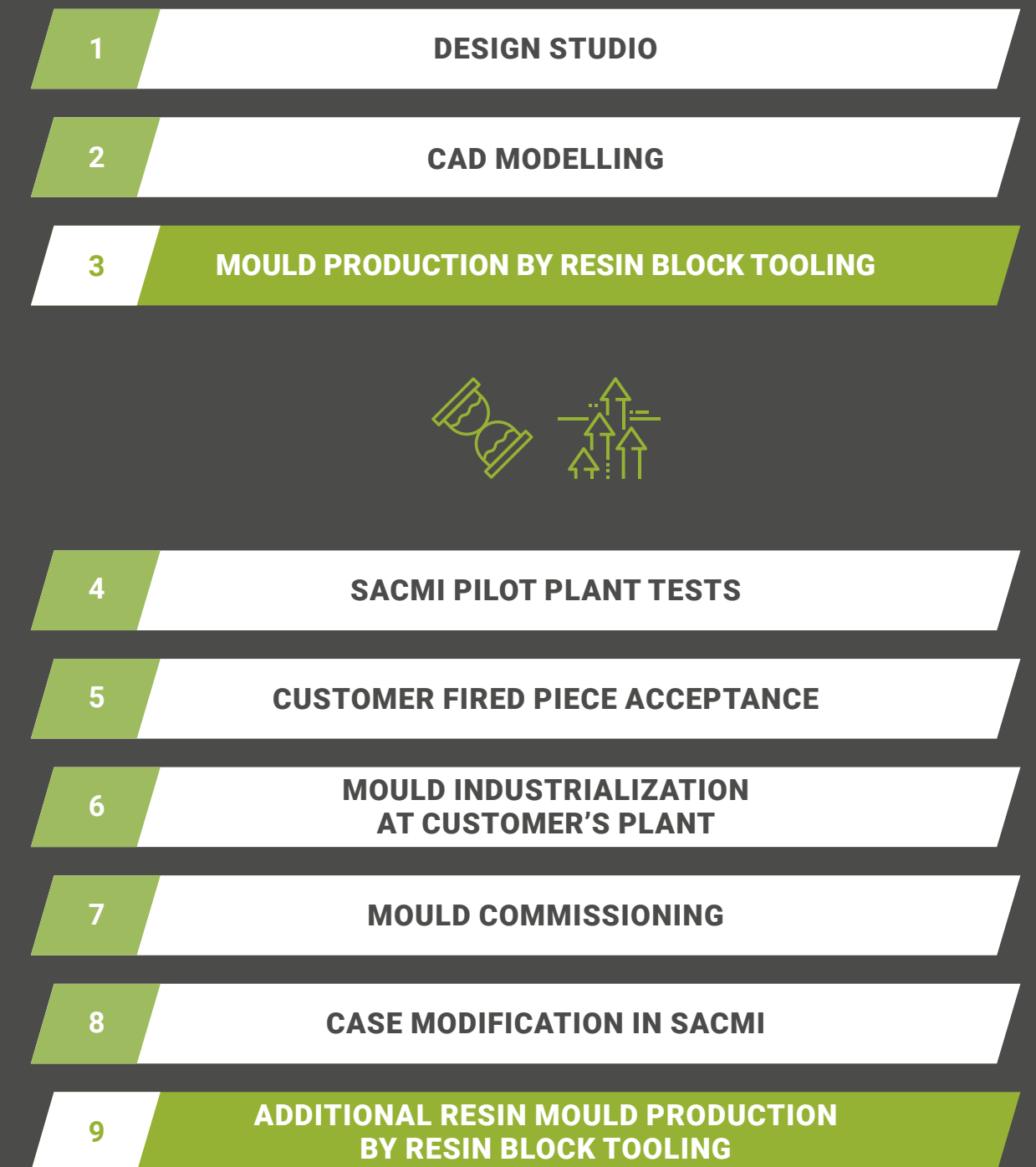
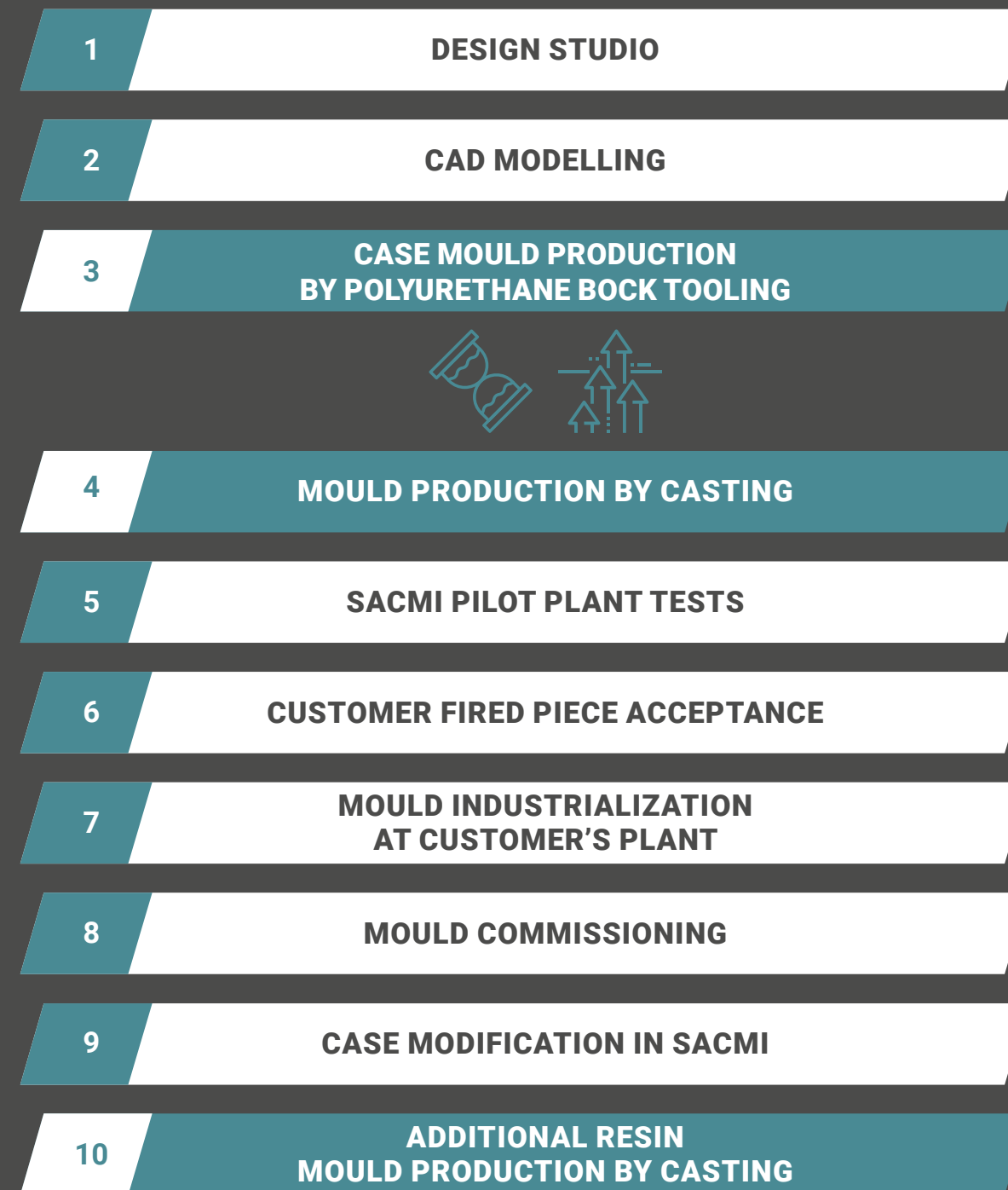
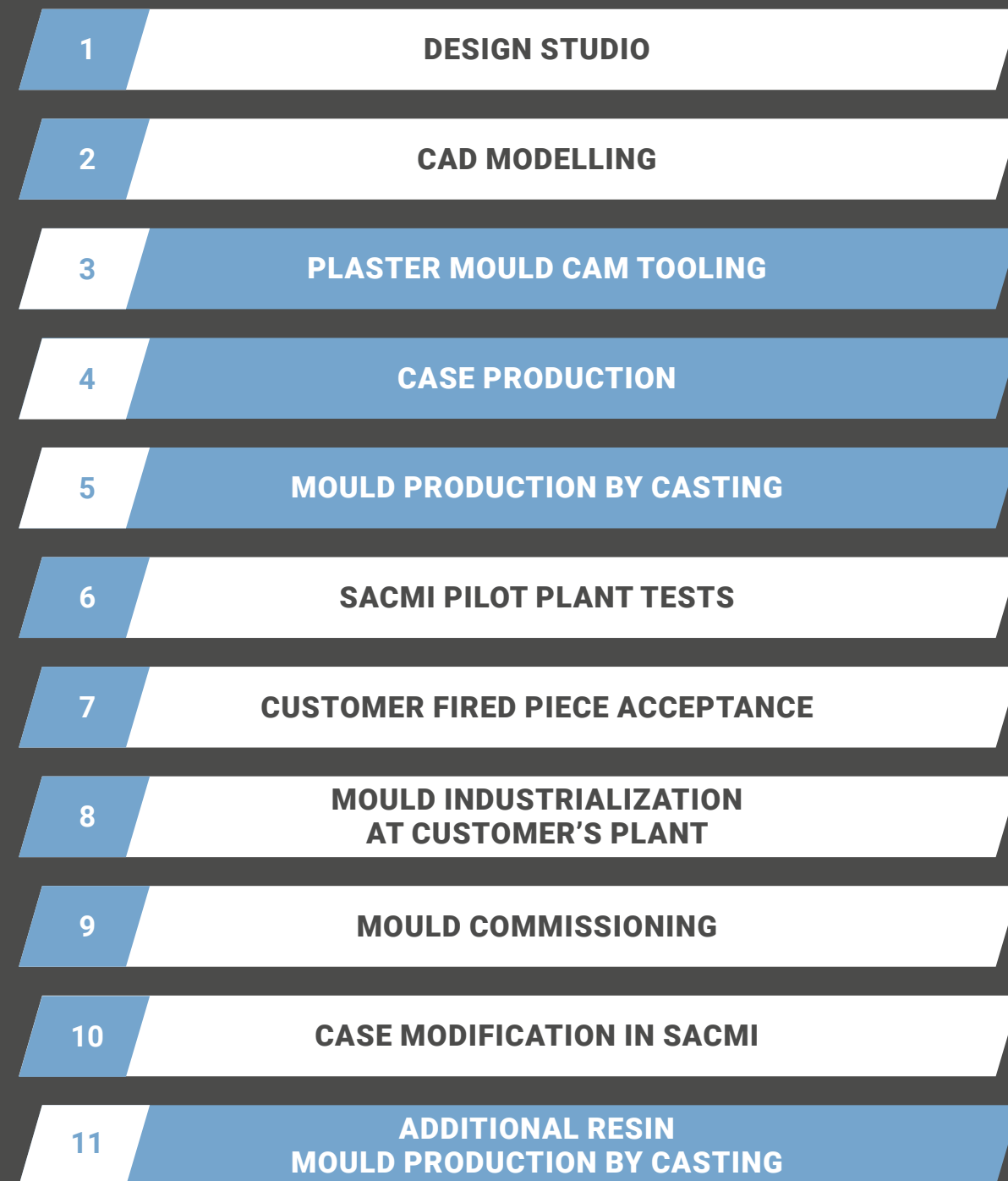
ENDLESS INNOVATION SINCE 1919

Resin mould by CASTING

Resin mould by CASTING

DIGITAL

Resin mould by TOOLING





First Fired Pieces ready in SACMI

Mould ready to be delivered

2-part moulds simple

Resin mould by casting

13-18 weeks

18-25 weeks

Resin mould by casting - digital

11-16 weeks

16-23 weeks

Resin mould by tooling

7-11 weeks

11-18 weeks

2-part moulds complex

Resin mould by casting

13-18 weeks

20-27 weeks

Resin mould by casting - digital

11-16 weeks

18-25 weeks

Resin mould by tooling

7-11 weeks

13-20 weeks

4/5-part moulds complex

Resin mould by casting

18-22 weeks

25-31 weeks

Resin mould by casting - digital

16-20 weeks

23-29 weeks

Resin mould by tooling

9-13 weeks

20-25 weeks

6/7-part moulds complex

Resin mould by casting

18-22 weeks

27-34 weeks

Resin mould by casting - digital

16-20 weeks

25-32 weeks

Resin mould by tooling

9-13 weeks

22-27 weeks

Resin mould by CASTING

IMPROVEMENT ON PAST DEVELOPMENT FLOW THROUGH :

- Total re-organisation of the production chain through large investments in Industry 4.0
- Digitalization of the entire process with application of the latest technologies in the field of reverse engineering, CAD engineering, CAM 5 axis application
- Case-mould produced from the plaster mould created by CAD/CAM
- Time and cost savings to obtain the first fired piece and complete development

Resin mould by CASTING

DIGITAL

New case-mould production flow for direct milling of polyurethane blocks, starting from a CAD design and subsequent production of mould for casting. The advantages of this new flow include:

- Greater precision implementing the modelling plans thanks to the accurate transfer from CAD design to case-mould
- Fully digital process
- Digitalization of the case-mould modification process
- Reduction of overall development times

Resin mould by TOOLING

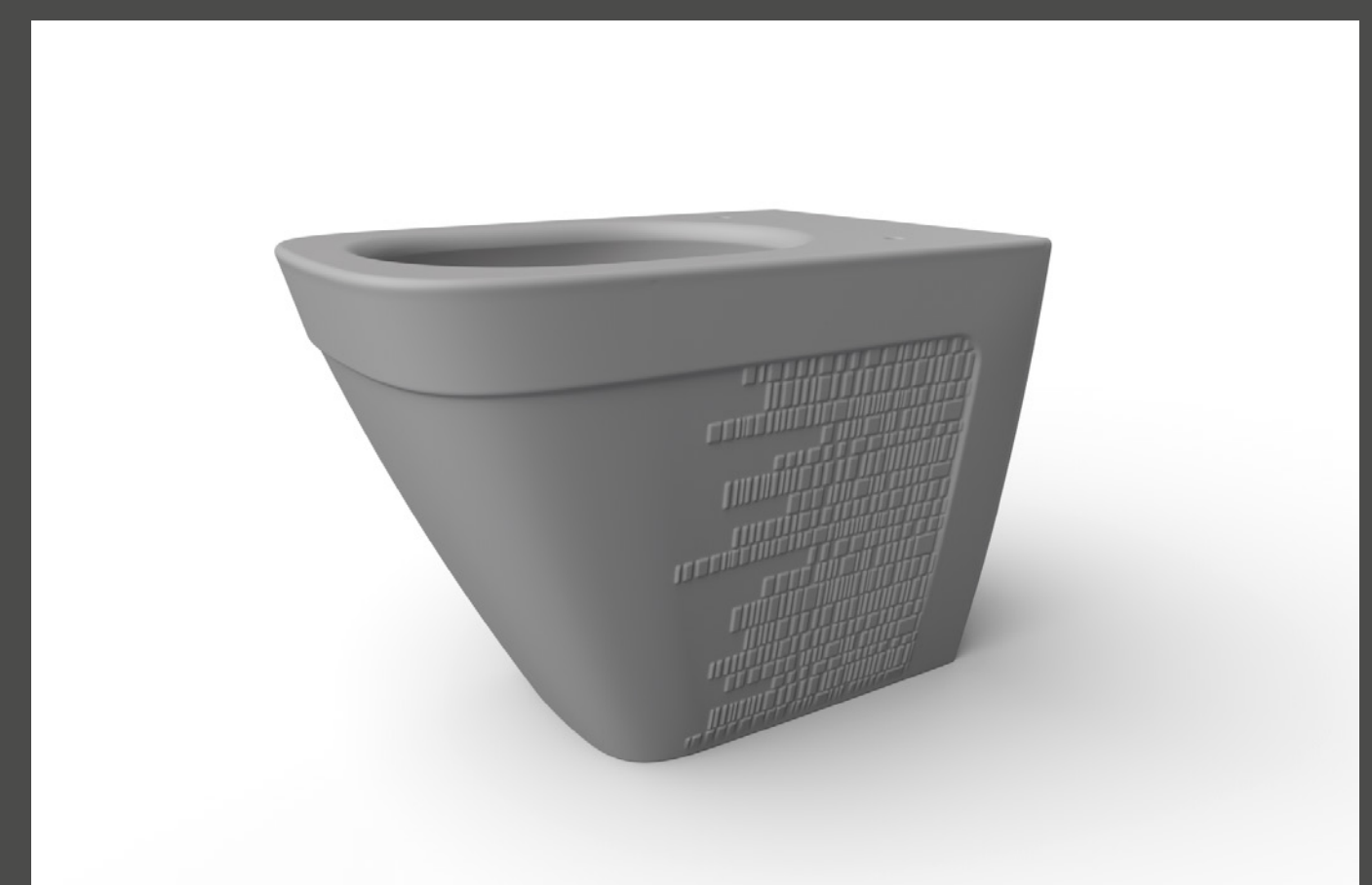
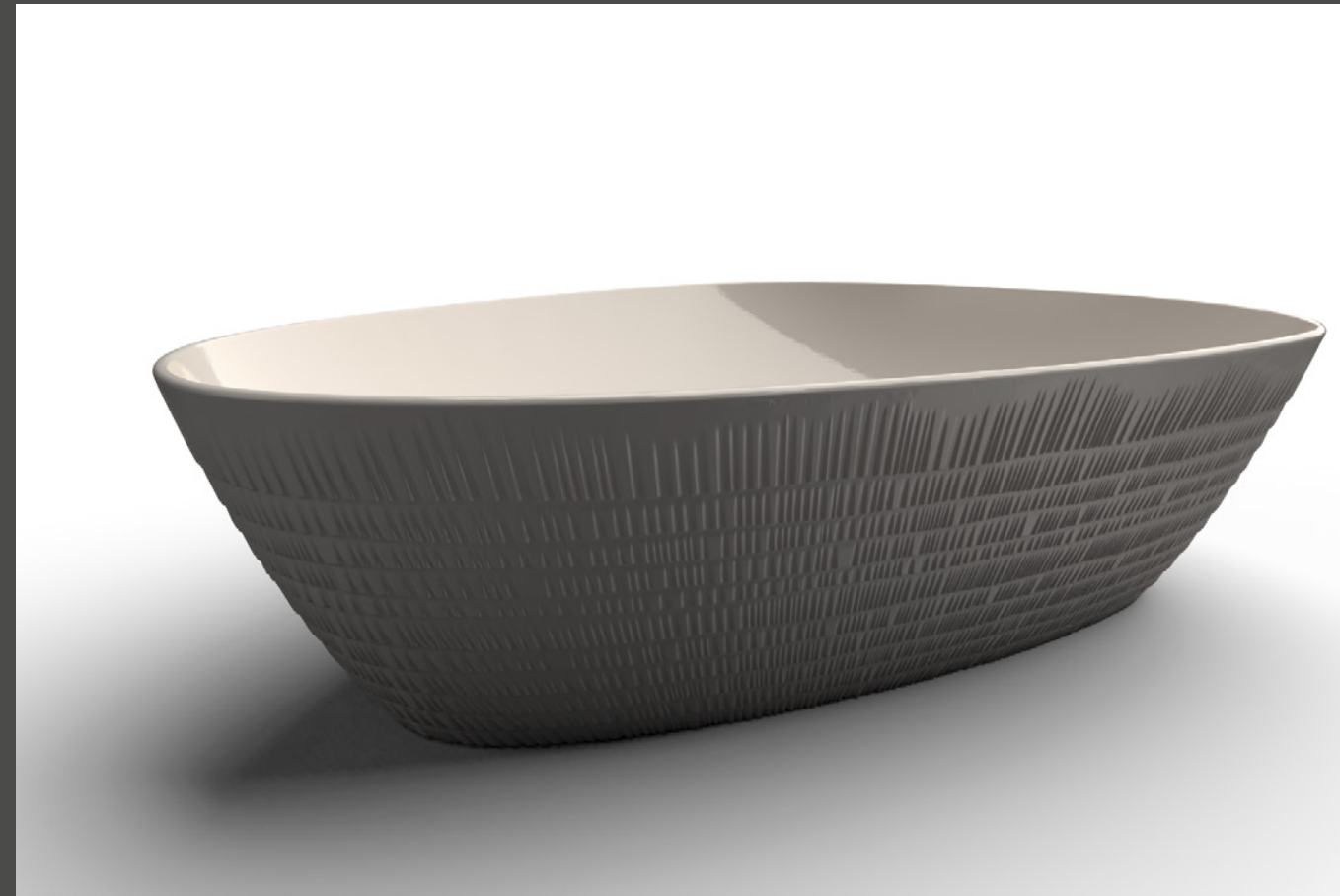
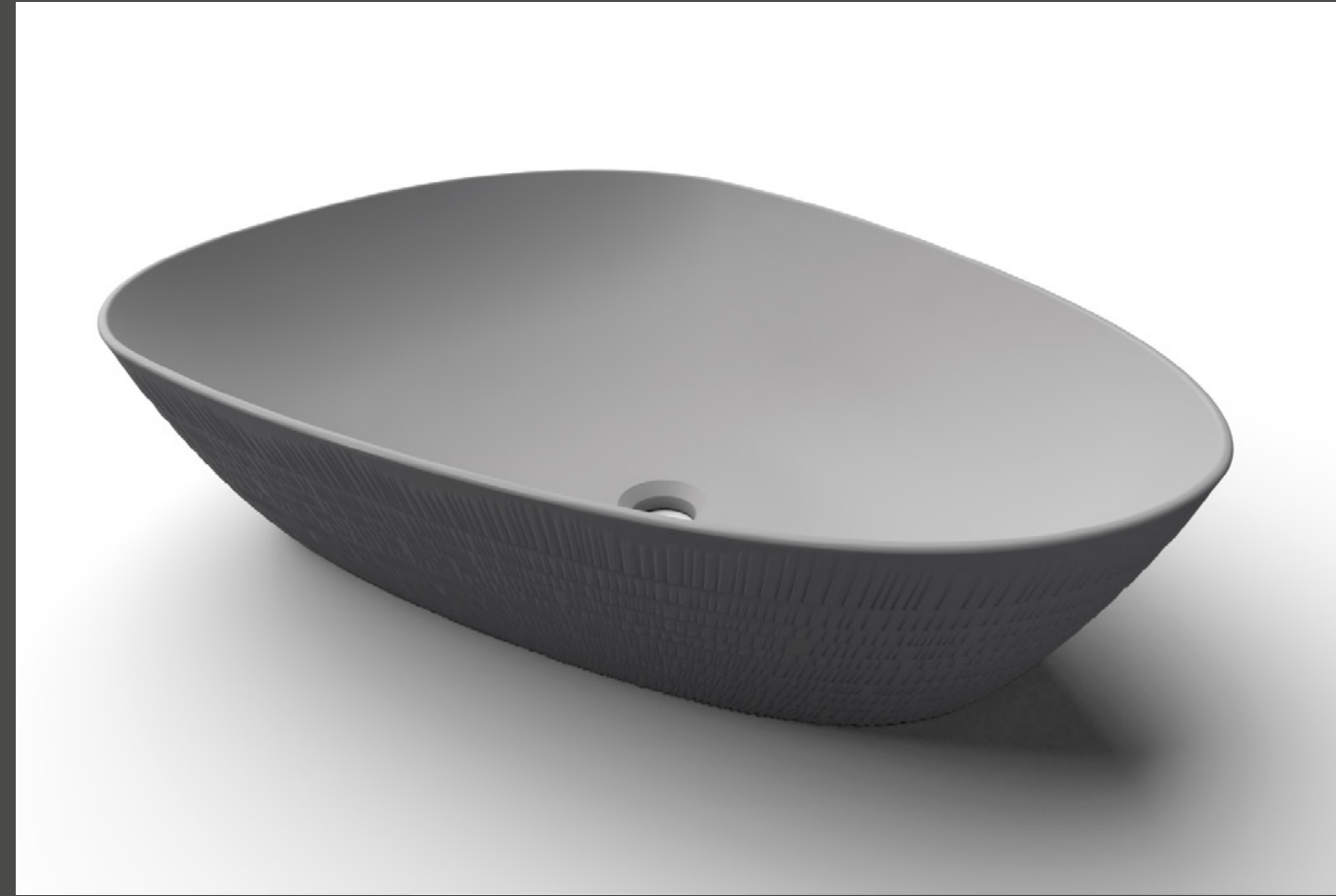
IMPROVEMENT ON PAST DEVELOPMENT FLOW THROUGH :

- Savings in development costs for the production of the first two moulds
- Time savings of up to 35-50% to obtain fired piece
- Time savings of up to 15-35% for complete development
- Case-mould only at the end of the industrialization process (if requested or necessary)

Resin mould by ArTooling

SACMI has developed a new concept for decorating the surfaces of sanitaryware items by transferring the decoration directly onto the porous resin mould giving the ceramic piece a structured surface.

This new workflow is called ARTOOLING and can be used to create high resolution structures for a vast range of patterns, from abstract designs to natural stone effects.



SACMI resin moulds development

2-part resin mould



1980

7-part resin mould



1996

2-part CAM-tooled resin mould



2013

ArTooling moulds



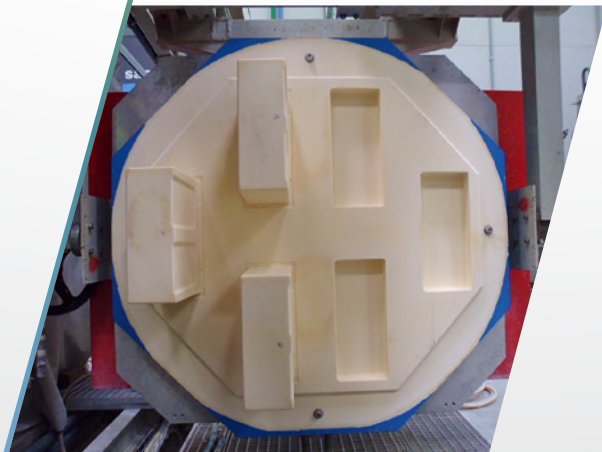
2022

1993



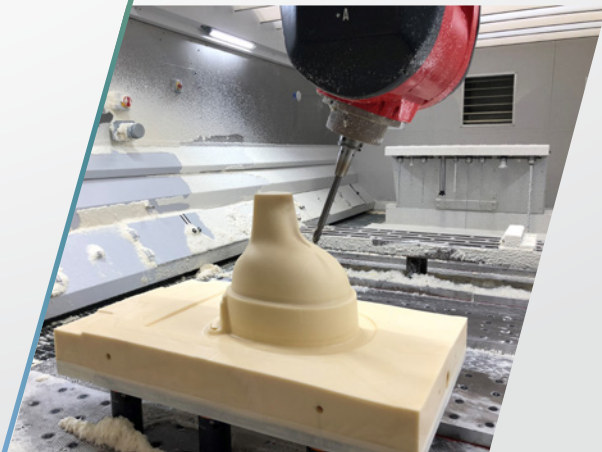
4-part resin mould

2000



Largest multi-cavity resin mould

2020



7-part CAM-tooled resin mould



Since 2022 all
moulds can be
made by Tooling

