Mouldoff
nautic system

THE POWER OF
INTEGRATION
FOR TOP RESULTS

PRODUCTION WITHOUT MOULDS
CUSTOM DESIGN
SPEED AND FLEXIBILITY

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UCINA
CONFINDUSTRIA NAUTICA

Surf Crest

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THE AIM IS TO OFFER TO THE MARKET AN INTEGRATED HIGH TECHNOLOGICAL SOLUTION, AS A RESULT OF AN INNOVATIVE COMBINATION OF **DESIGN, MATERIALS AND ROBOTICS.**

Surf Crest, a company involved in the research and study of plastic materials for new applications, has found in Kaneka the perfect partnership for the development of the project MouldOff.

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Design

Materials
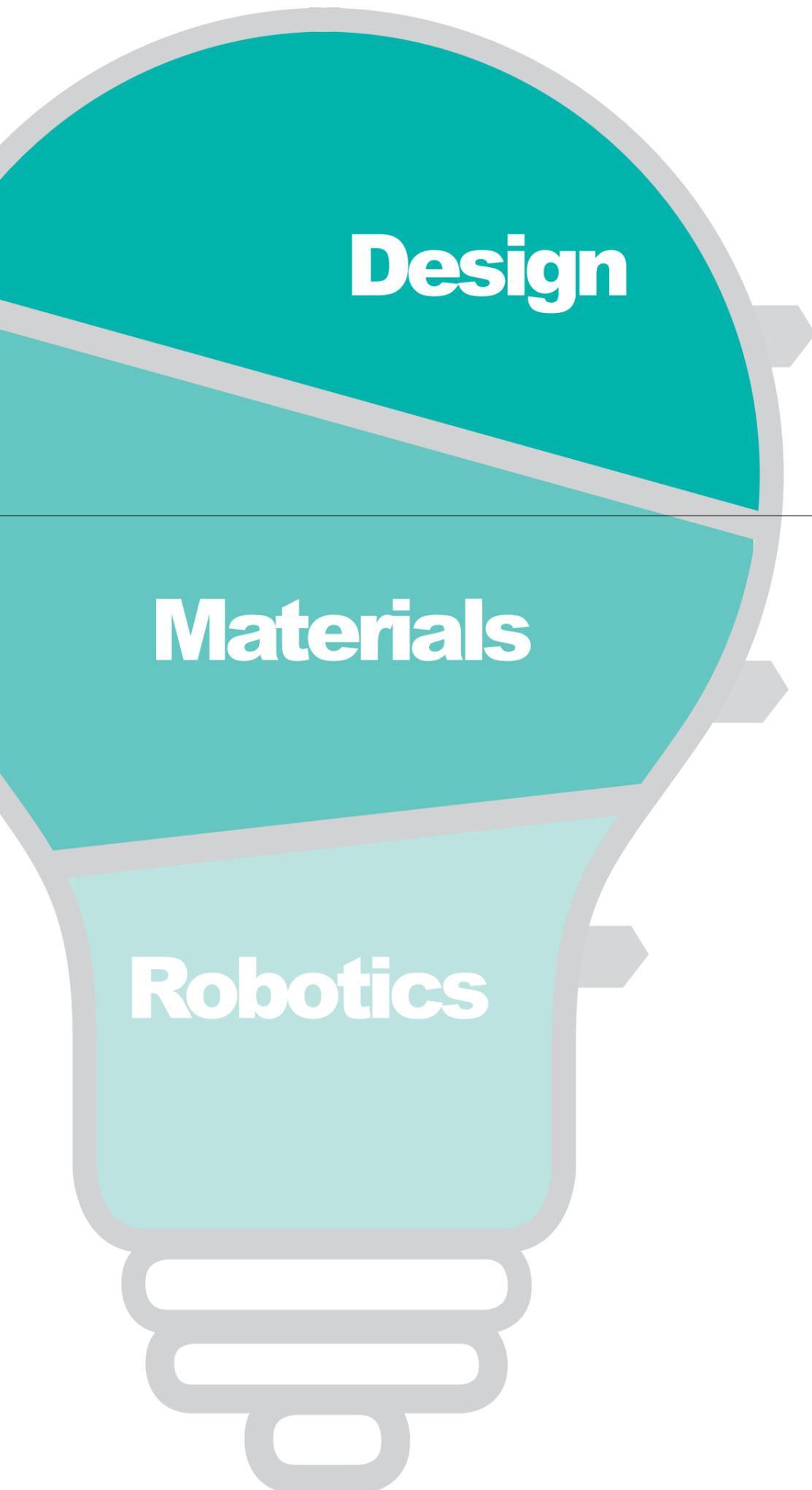
Robotics

This solution shakes up completely the traditional method: THE PRODUCTION OF A BOAT WITHOUT THE USE OF A MOULD.

For the first time in the shipbuilding industry, robotics takes part with a key role in the production process, with also the introduction of new material, called KELVET. MouldOff works with eco-friendly and harmless production process.

The model can be easily changed by the designer, according to the customer's needs, without the additional costs due to the modification of the mould.

When experience and tradition embrace innovation: **Vincenzo Catarsi**, famous designer of memorable boats like "Calafuria", is one of the partners of this project, contributing with the design of the model of the first prototype built with this technology.

KELVET®

Kelvet is a material with excellent mechanical properties: thanks to its **low weight** and its **aesthetic value**, Kelvet enables designers to engineer with extreme precision in many fields of application. Its production process prevents over engineering, saving energy and **increasing the performances**, compared to conventional materials such as wood, steel and fiberglass.

Once the project and the 3D model of a hull or any other part of the boat have been defined, it won't be necessary to produce the mould. Instead, a robotic system will be **carving** directly the shape from a block of row material. Later, a second robot will carry out the **surface treatments**. All the stages are managed with offline programming by one integrated software.

Coating

Kelvet

Eperan PP

Surf Crest

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