UNWIND3D
develop your idea

KNEE AND ELBOW PADS
CASE STUDY - THERMOPLASTIC COMPOSITE

PROBLEMS

Current production of composite pads protectors involves:

High selling price

Very labour intensive manufacturing process

High material waste

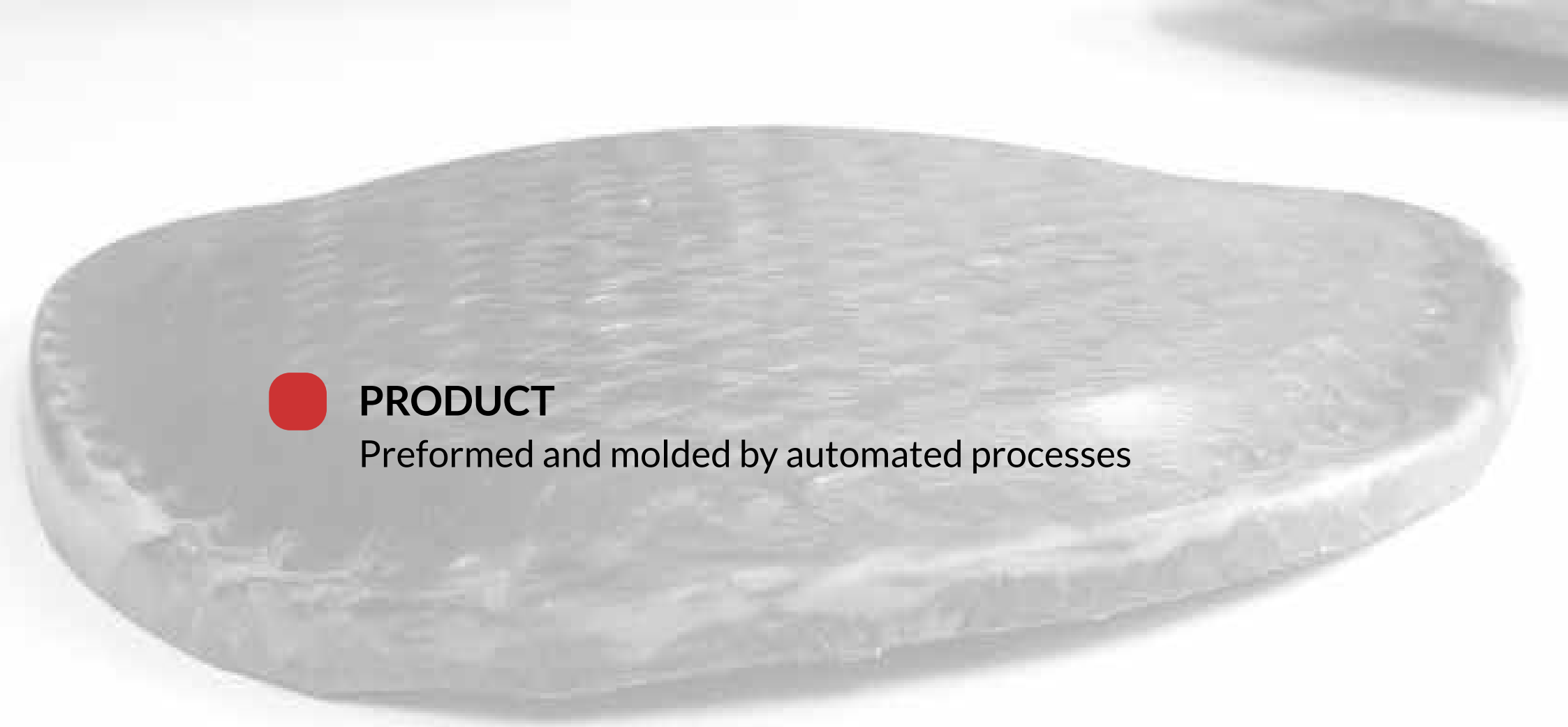
SOLUTION

The combination in using cutting edge technologies with innovative materials in order to:

AUTOMATE PRODUCTION

BE SUSTAINABLE DECREASING MATERIAL AND ENERGY WASTE

DECREASE MANUFACTURING COAST

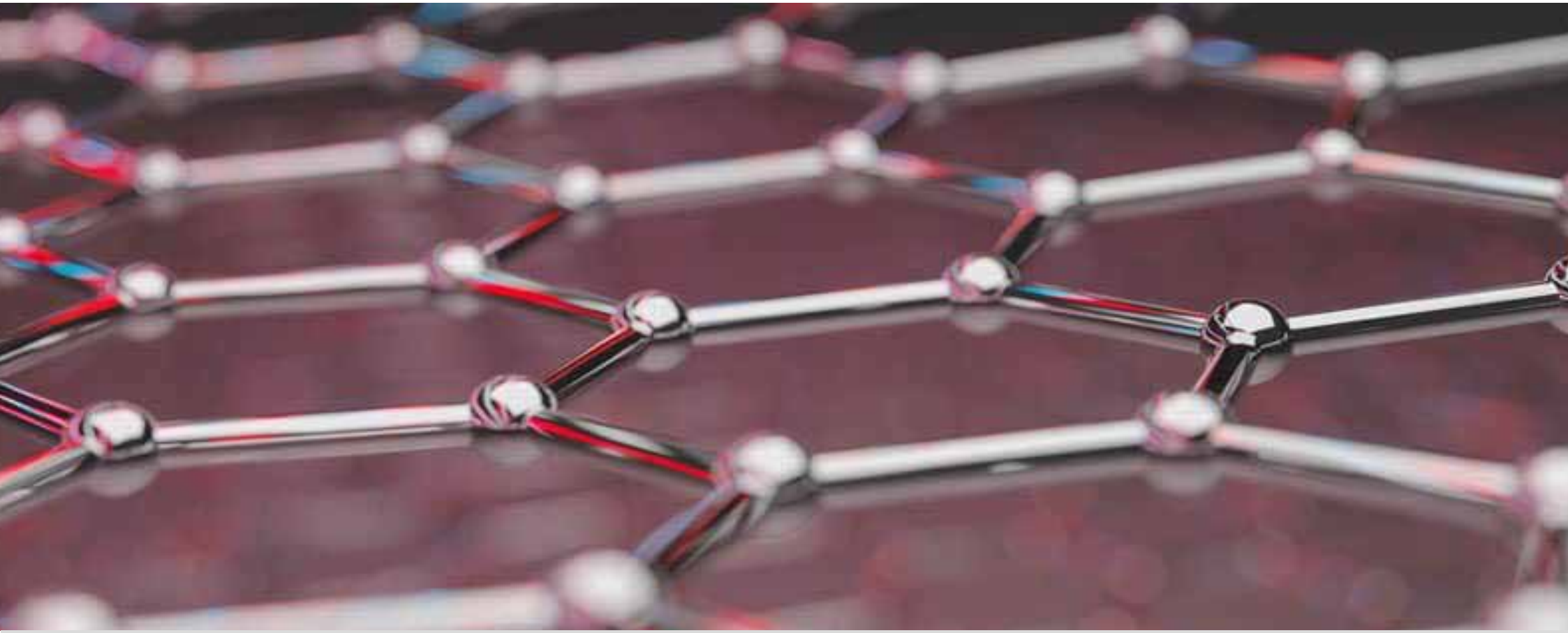


PRODUCT

Preformed and molded by automated processes

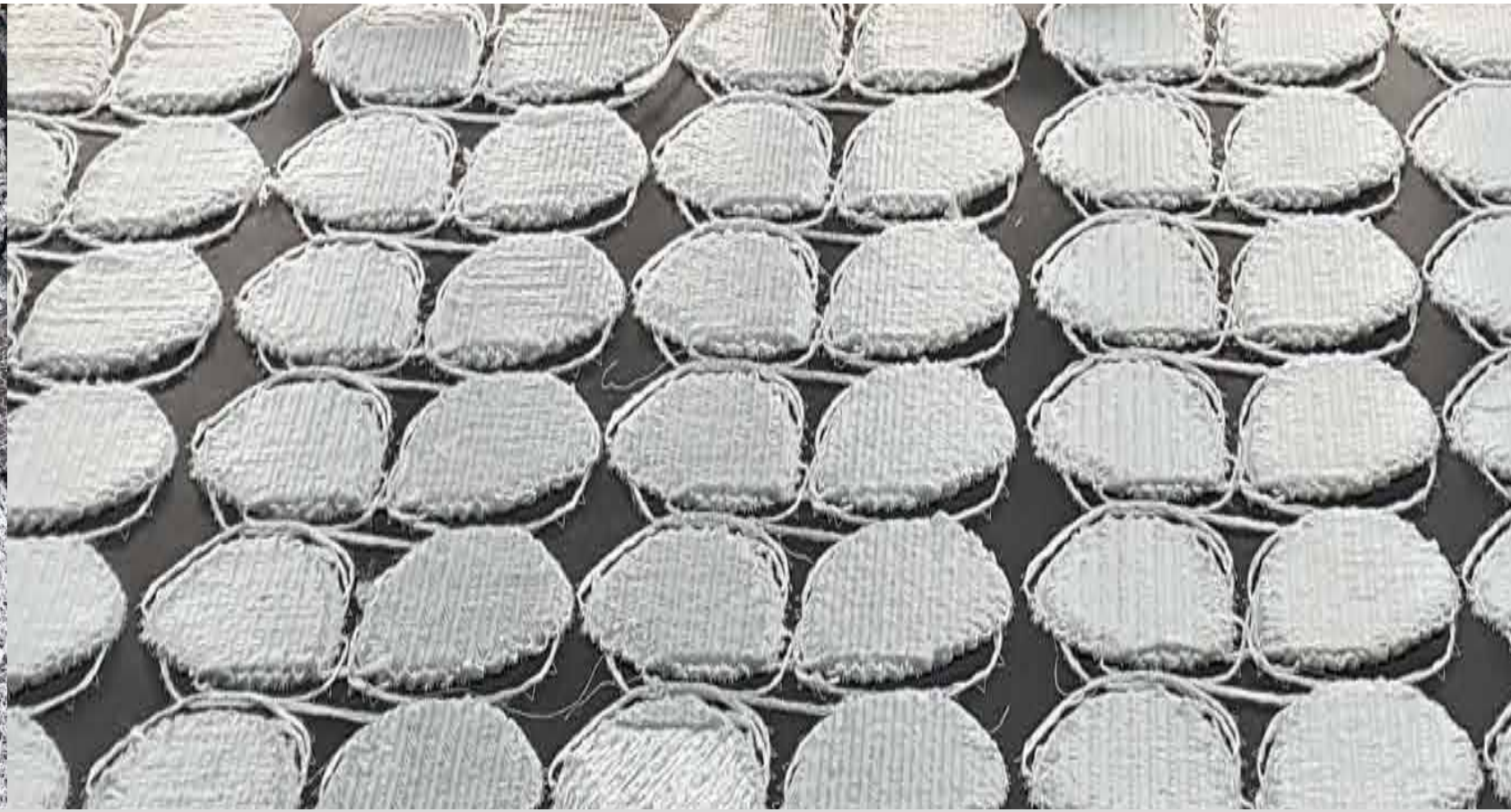
STEP 1

Use of thermoplastic fibre reinforced carbon/glass/natural fibres. 3k, 12k, 24k, 48k.



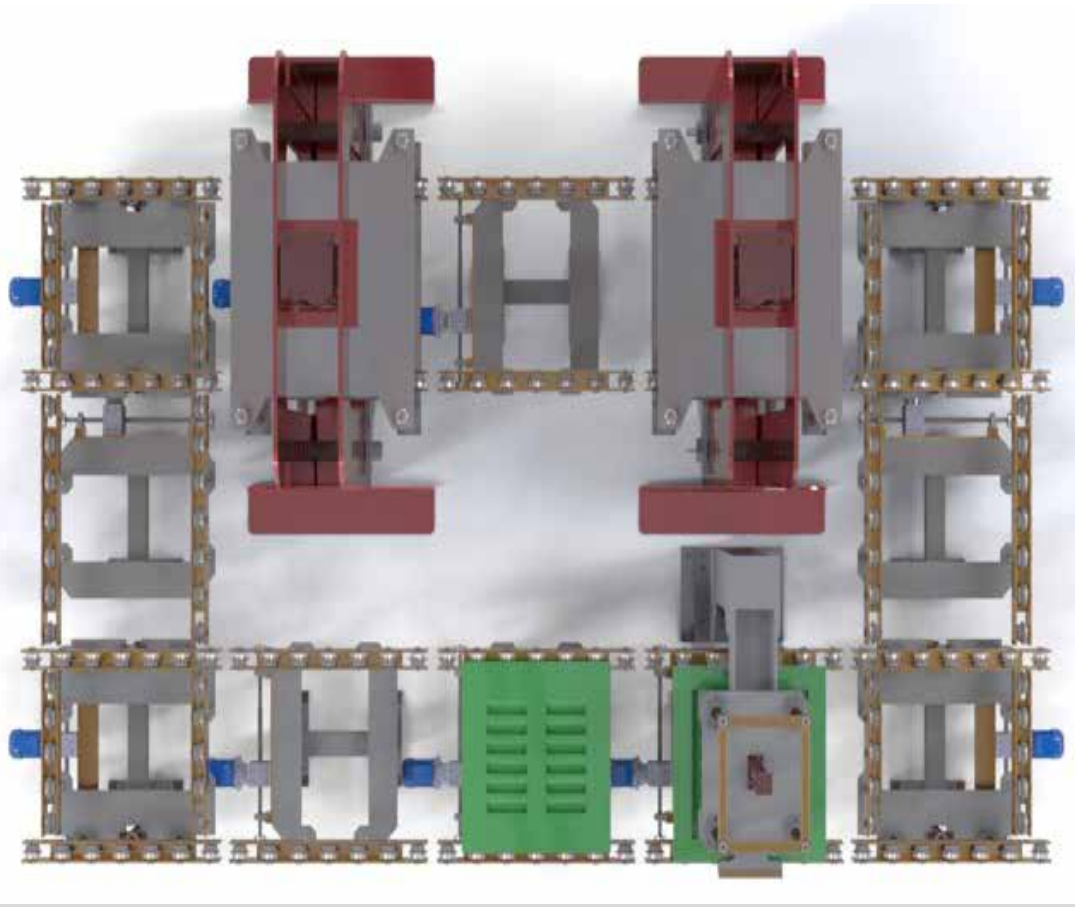
STEP 2

Use of automated and tailored placement technology for high volume preforms production



STEP 3

Use of dedicated fast, cost and energy efficient molding solutions for high volume production



RESULTS

After several physical testing, thanks to Unwind3D expertise the following results have been demonstrated:

30%

DECREASE IN PRODUCTION COSTS

400%

DECREASE IN MATERIAL WASTE

100%

REUSABLE AND RECYCLABLE

CONTACT US

To stay ahead of innovation

UNWIND3D
Matteo Moretti

E: info@unwind3d.com

W: www.unwind3d.com