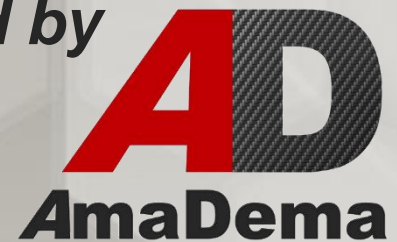




**Stronger now means...
...even Lighter**

**Vassilis Drakonakis, PhD
Managing Director**

powered by





OUR VISION

AmaDema aims for reliability. AmaDema is committed to achieve the highest level of quality in order to establish high-performing advanced material products in niche applications worldwide, and maximizing its own as well as its customers profits.

OUR MISSION

Respecting and adding value to people's everyday life through high-tech innovation, research, and development





AmaDema GOALS

- Develop and manufacture novel smart textiles for advanced composite applications
- Develop and manufacture novel and tailor-made advanced composite materials
- Establish an Industrial Research and Development Hub in South East Europe for Design and Processing of Advanced Textiles for Composite Materials
- Put Cyprus on the world map of composite material innovative products



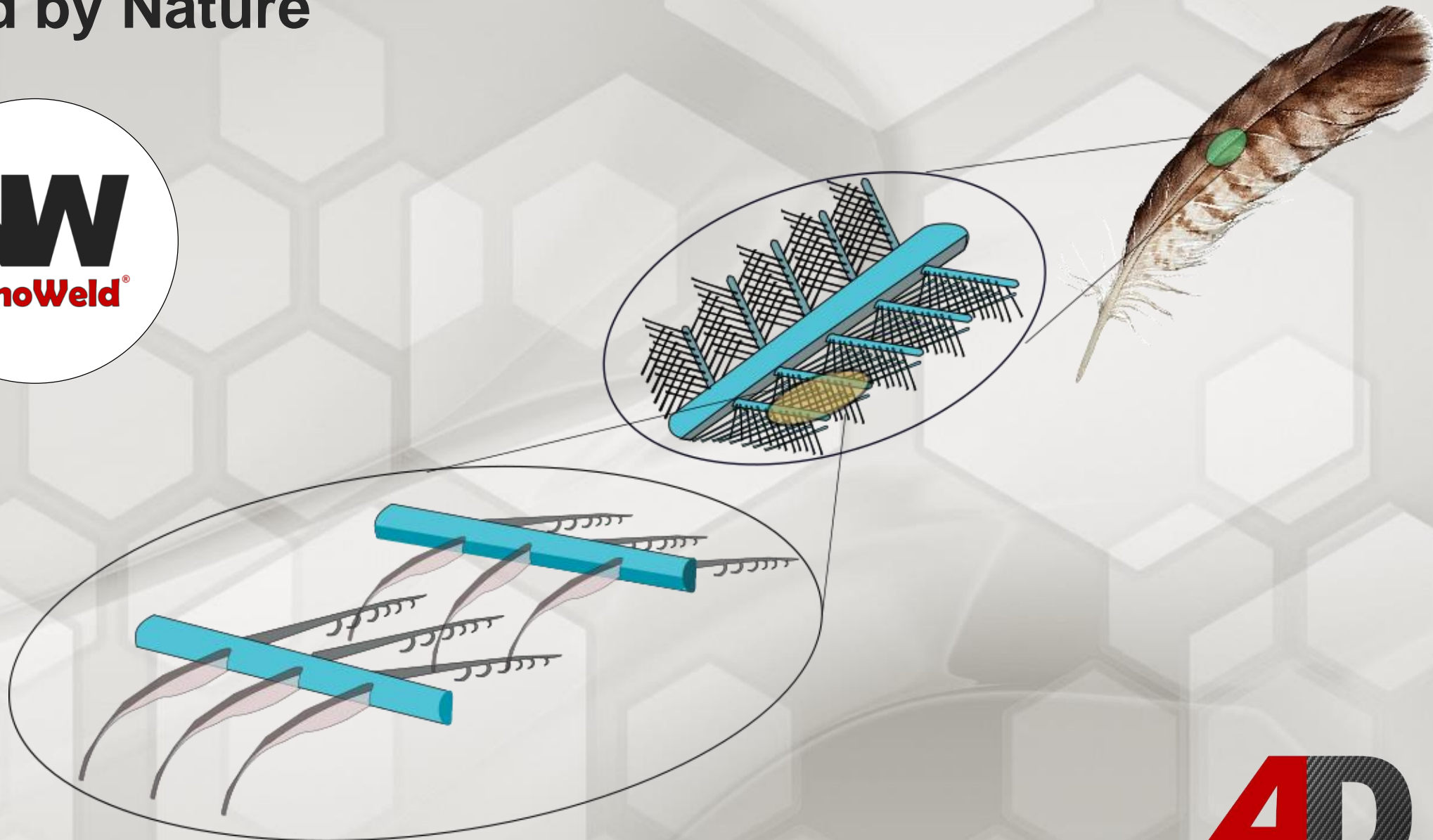
AmaDema has:

- ❑ A Superior Certified & Awarded Technology for Advanced Fiber Reinforced Composites
- ❑ Secured Intellectual Property (Patent & Trademark registered)
- ❑ Technology Flexibility; It can be implemented to:
 - ❑ any type of fabric (Knitting: UD, woven, etc. and/or Material: carbon, aramid, glass, etc.), and
 - ❑ any existing fabric or prepreg production line
- ❑ Capability of Computer Aided Design and Structural Analysis
- ❑ A multi disciplinary Team (4 PhD Engineers, 2 Master Engineers, and 3 Financial and Marketing People)

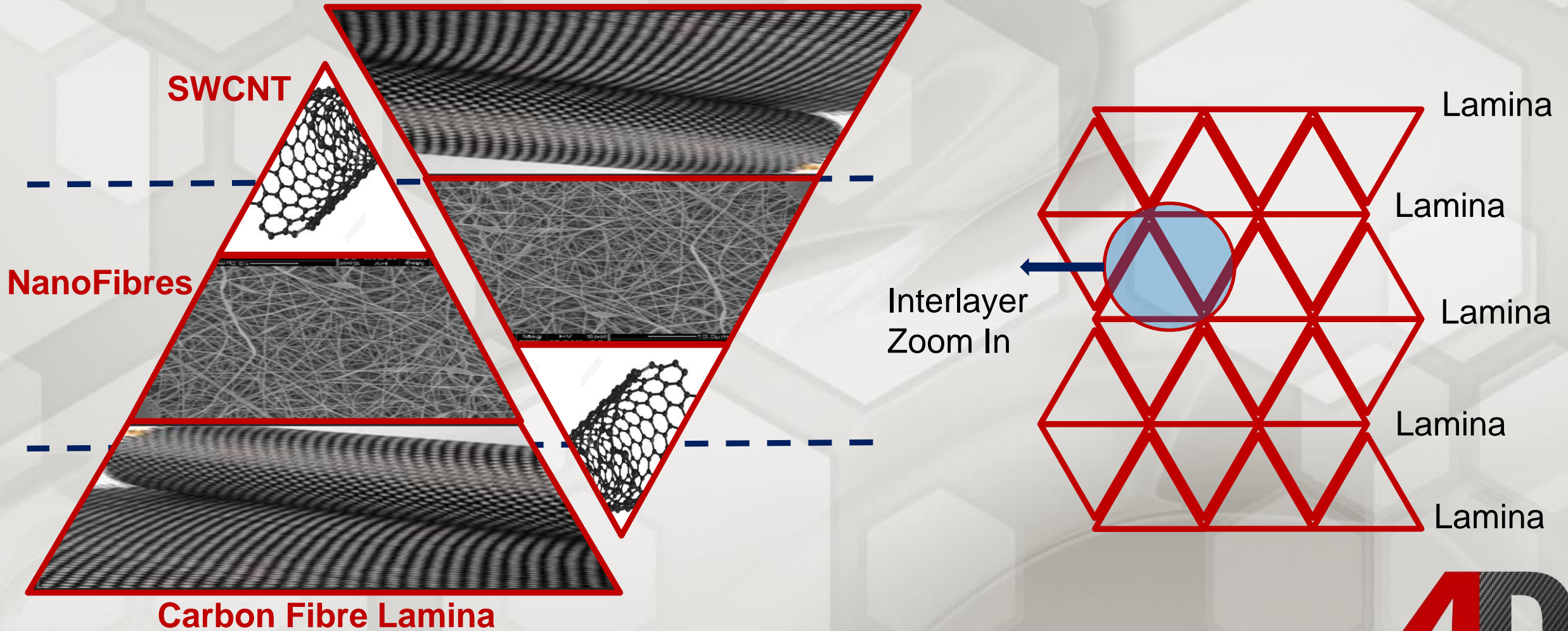
NanoWeld® - AmaDema's Spearhead Product



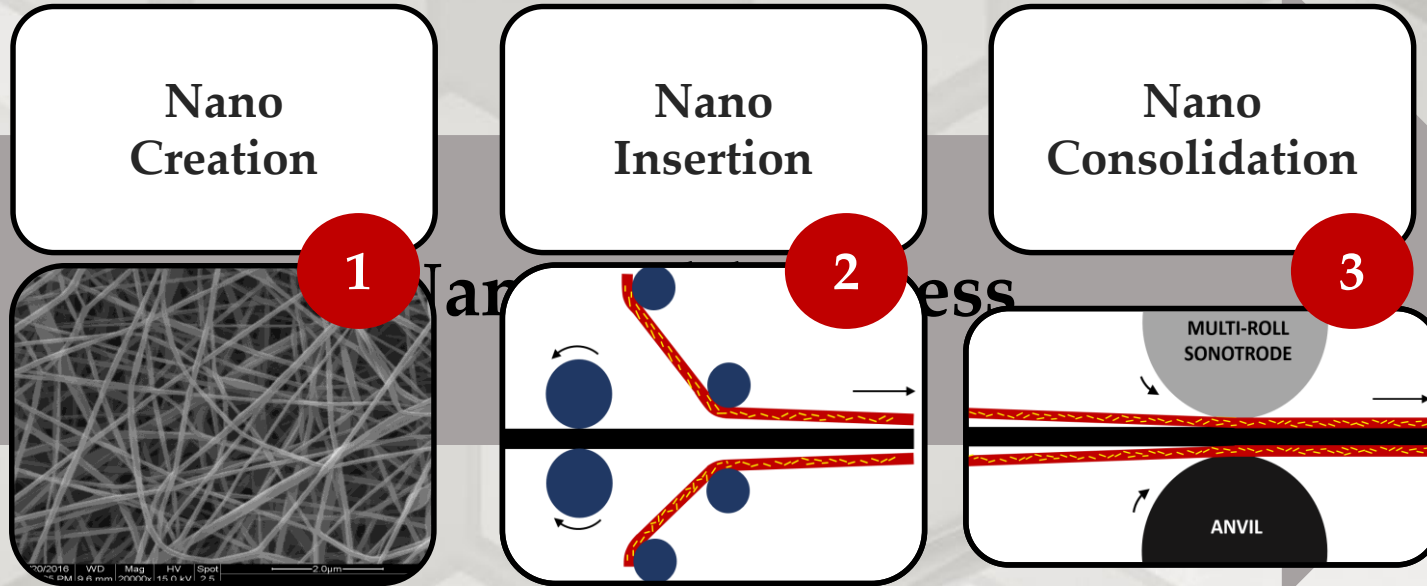
Inspired by Nature



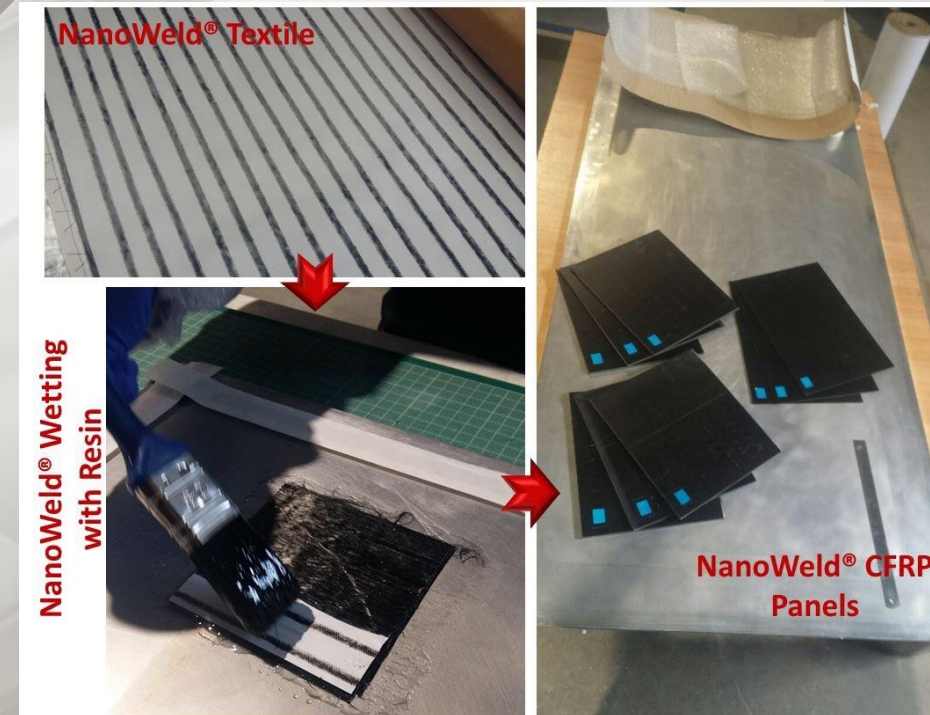
NanoWeld® Technology within the composite multilayer structure



NanoWeld[®] Description

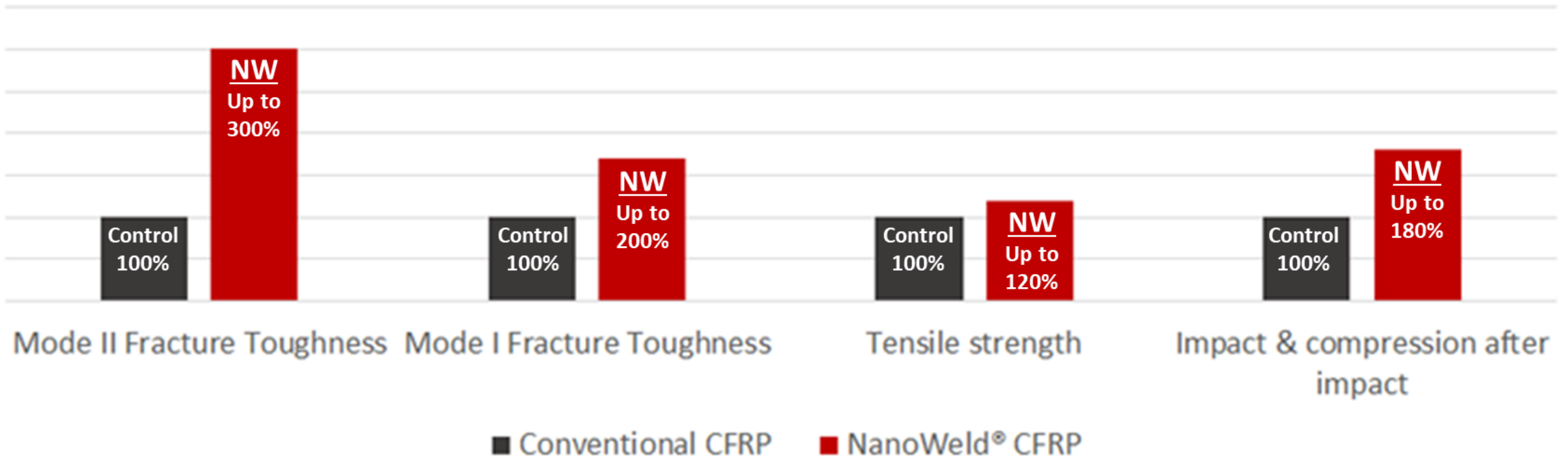


NanoWeld[®] Process / Technology

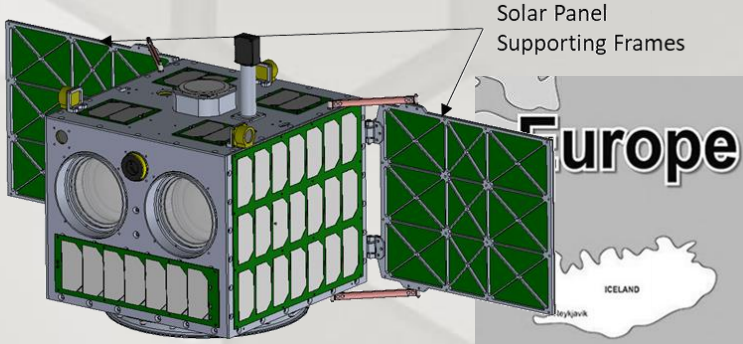


NanoWeld® CFRPs Potential

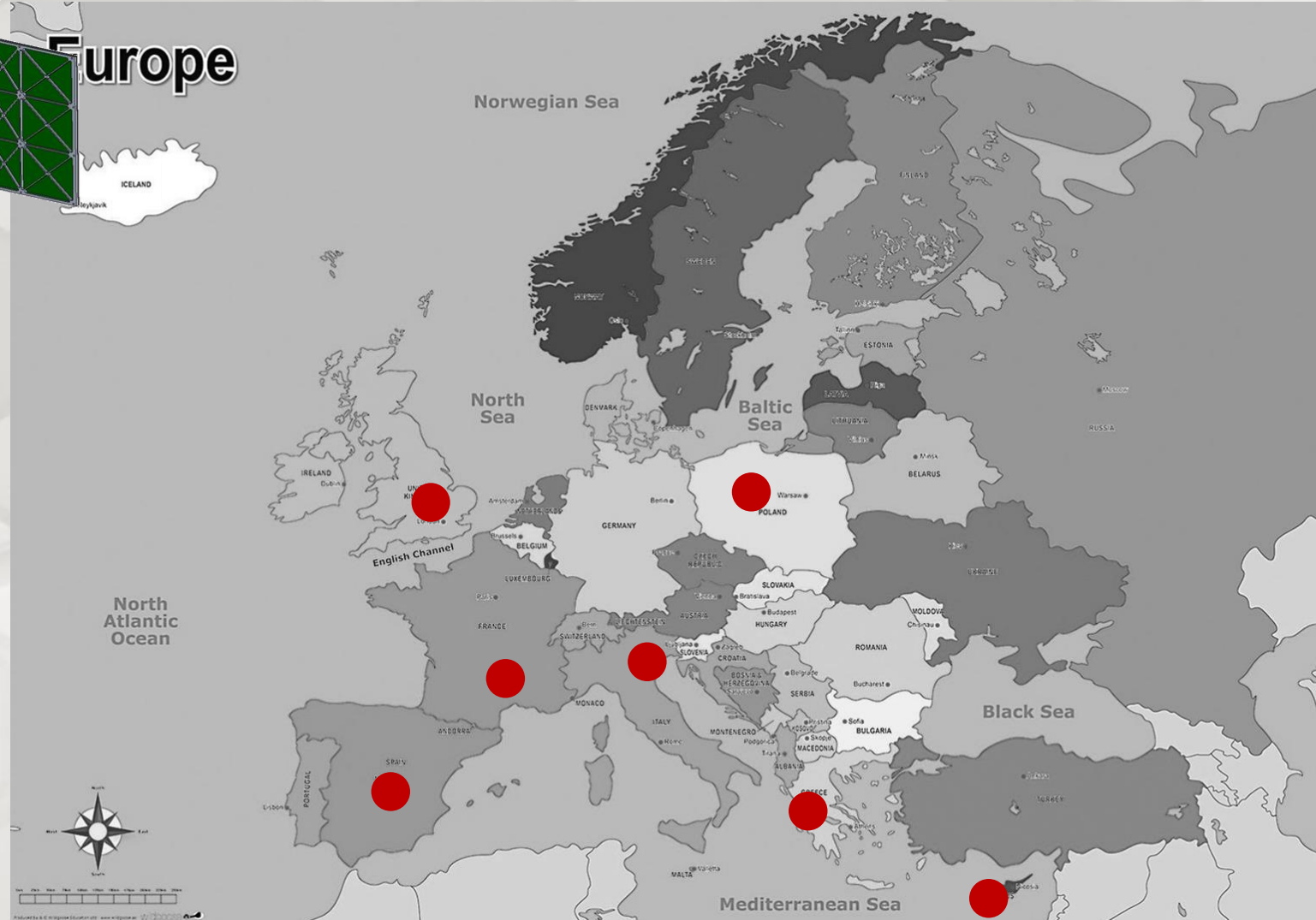
NanoWeld® CFRP Vs Conventional CFRP



NanoWeld® Demand



Letter of Intent
our mutual inter
+ last m

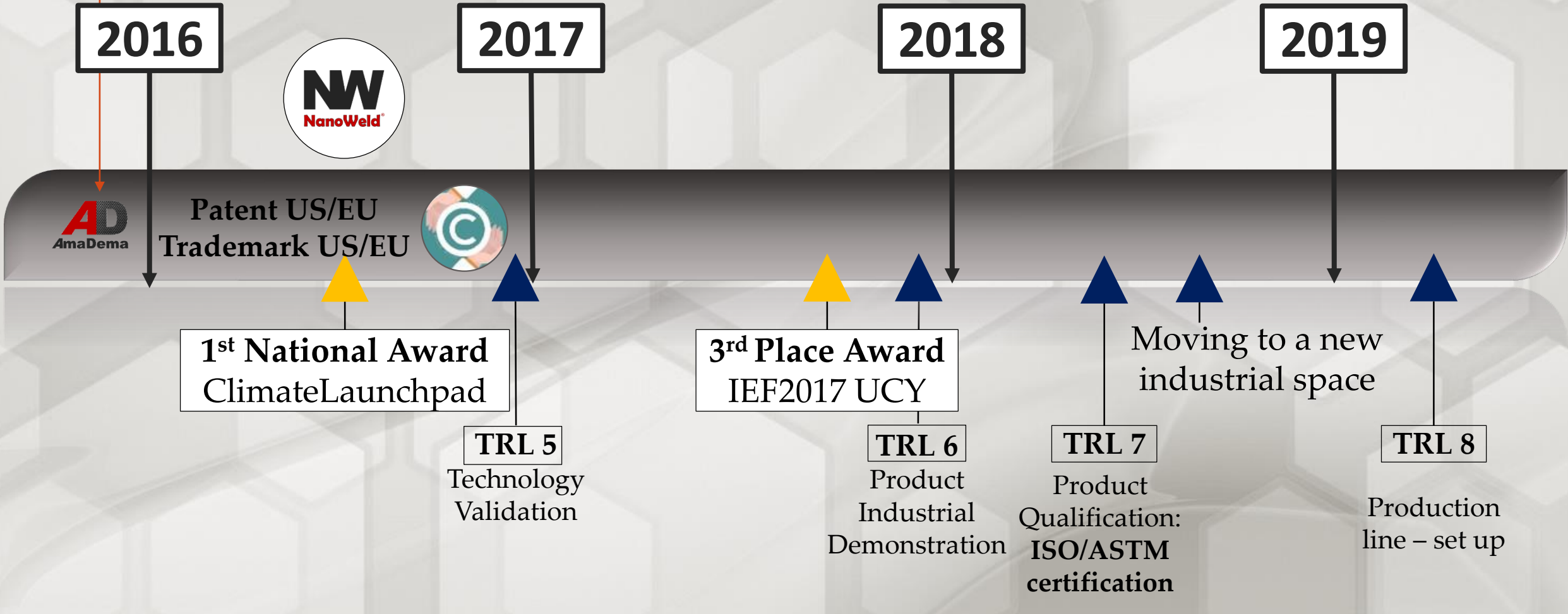


AD
AmaDema

- Income increase rate: ~300%
- Secured equity-free funding (grants) and contracts of more than € 1,300,000.00



**AmaDema
Launch
Nov 2015**



NanoWeld® 4 years progress

AmaDema Office and Lab Facility



AmaDema moved to its new premises (Offices & Industrial Space) in the Industrial area of Kaimakli, Nicosia, Cyprus in June 2018



Engineering office

- PC work-stations with engineering software
- Project Management and Collaborative Tools

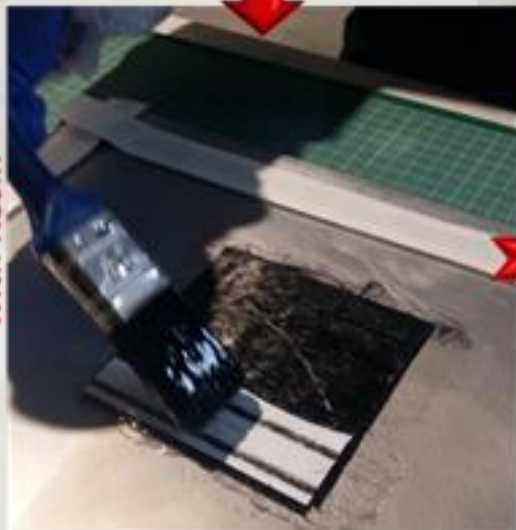
Engineering Equipment

- R2R Ultrasonic Welding machine | Thremocompression
- Electrospinning unit.
- Tools for measurement of physical properties (dimensions, weight).
- Mechanical testing equipment accessible through academic partners (CUT).
- 3D Printing
- Screen Printing
- Hot plates with magnetic stirrer.
- Weight Scale of high accuracy.
- Sonication machine for materials activation.

NanoWeld® Fabrication



NanoWeld® Wetting
with Resin



Processing Equipment

- Lamination stations. Lamination stations Utilities and tools for Composites Processing.
- Resin infusion KIT: It includes all the necessary equipment and consumables to process CFRP textiles with resin infusion.
- Resin Hand lay-up KIT: It includes all the necessary equipment and consumables to process CFRP fabrics with resin hand lay-up.
- Molding material: Wood, Metal, Glass, Foam, Candle and other materials used for molding creation for particular-custom made CFRP products.
- Manual hydraulic Presser machine with customize heating elements used for low cost & high quality manufacturing of CFRP simple parts (Thermosets or Thermoplastics) under increased heat & pressure.

Vassilis Drakonakis, PhD Managing Director

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