



Controlling the invisible

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The need: inline quality and process control

Key markets



3 major drivers:

- **Light weight revolution** for lower CO₂ emissions
- Reduction of the **cost of poor quality** (~5% of revenues – source: **AFNOR**)
- Smart sensors for the **Factory 4.0**

➔ Increased need for **innovative Non-Destructive Testing** systems for **in-line** deployment

- Penetrating ➔ no machine vision, no visual inspection
- Contact less ➔ no ultrasounds
- Harmless ➔ no X rays
- Rapid ➔ no tomography

Internal dimension control and defect detection
by Teratronics cutting-edge technology

Our high-end Non-Destructive Testing (NDT) solution

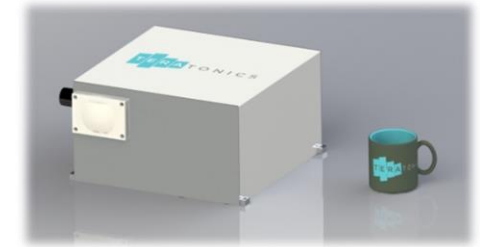
- Teratonics uses ultrashort Terahertz pulses to reveal the invisible **inside composites, plastics, assemblies, and coatings**

- Our solution is **contact-less** and **harmless**

- Our patented pulsed approach is **10 million times faster** than the state of the art

- This enables inline imaging with depth resolution / 3D information and highest Probability of Defect Detection

- Our solution can **control dimensions** and **detect defects for lower poor-quality costs**

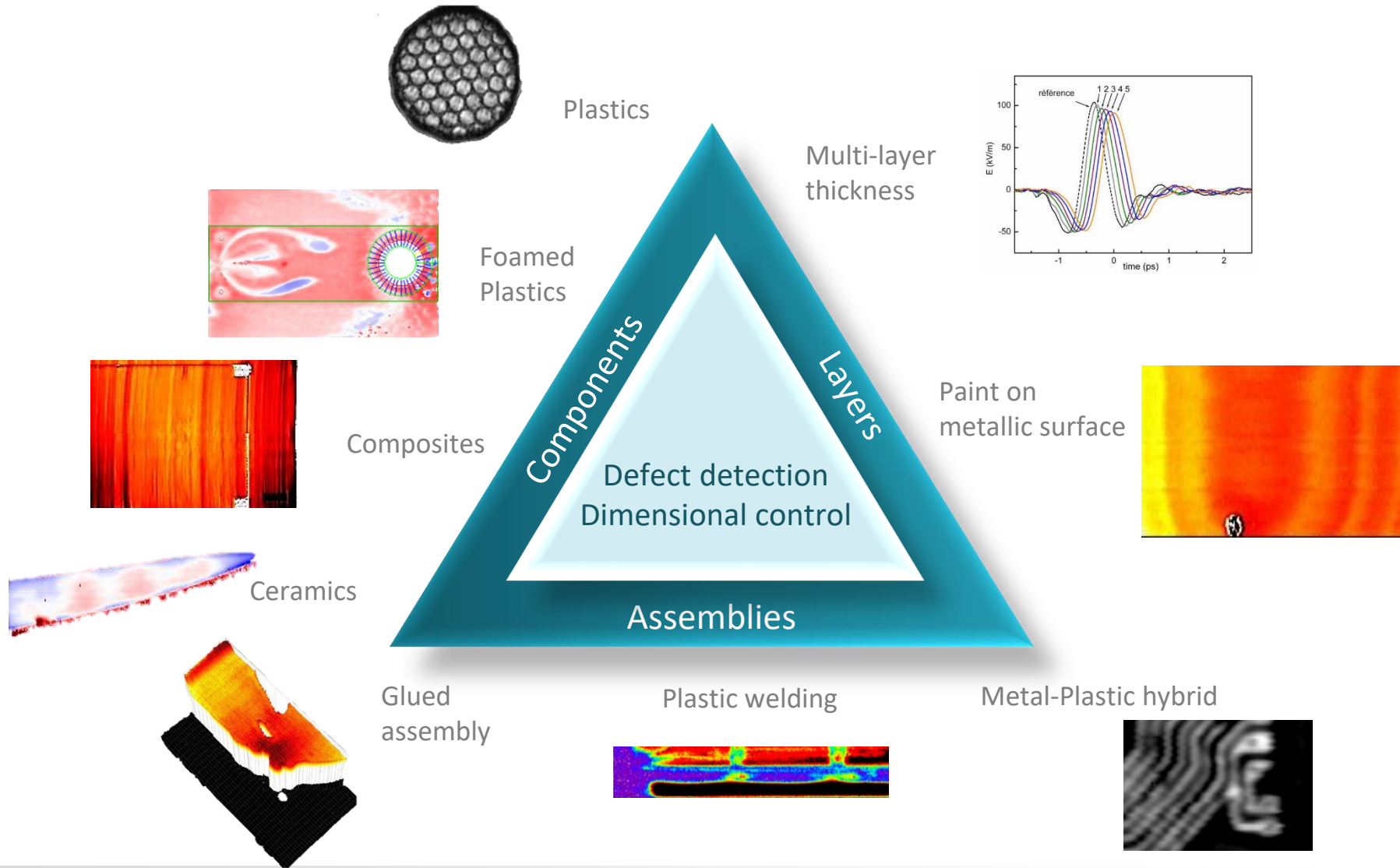


Sensor head
for pulsed THz emission and detection



First product line
*stand alone mobile rack system solution
integrating THz head and control unit.
Supervision and alarm lights not shown*

Teratronics's main results for product control / inspection



Towards an industry 4.0 leader



management team



Our ambition: to be the European leader in terahertz non-destructive testing solutions by 2023



bpifrance

