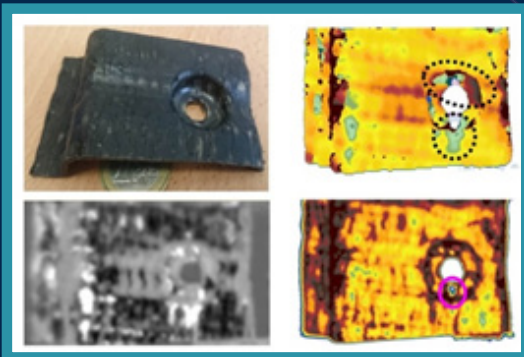


Award Winning Technology - 1<sup>er</sup> Prix de la Valorisation 2012 de l'Université Paris-Sud

**T**eratonics S.A.S. offers new solutions for contactless non-destructive testing and for biomedical imaging based on its patented technology STRIPP. Fast and mobile, the instrument STRIPP reveals invisible defects; it simultaneously controls the dimensions, without the need of radiation protection for the user. This groundbreaking technology in terms of speed and stability allows exploiting the unique potential of ultrashort pulses of terahertz (THz) frequencies in industrial environments, also on large scaled objects.

#### DEFECT DETECTION IN COMPOSITES



#### Examples of industrial applications:

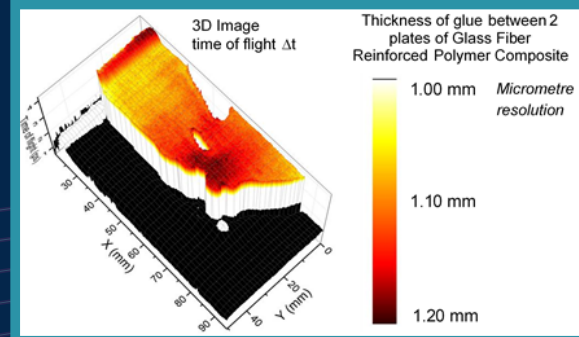
- > Characterisation of **multilayer coatings**, paintings (varnish on vehicles, TBC on turbines, refractory ceramics, thin conducting films as graphene, etc.)
- > **Process monitoring** (drying, polymerisation...)
- > Analysis and defect detection in **composites** (delamination, cracks, inclusions, impurities...)
- > Control of **assemblies** (adhesive bonds, plastic or ceramics welds, plastic-metal hybrids)
- > Analysis of structures and objects covered by dielectrics (cables, optical fibres, corrosion under paint, ceramics under foam, etc.)

#### Teratonics offers:

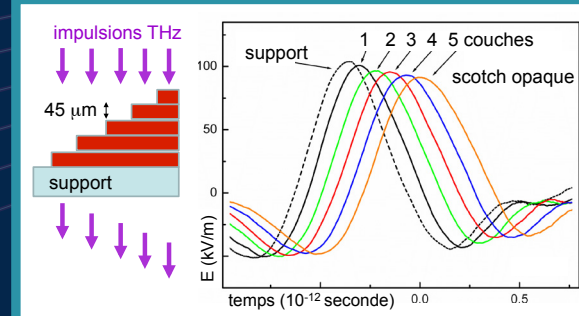
- > **Instruments** for product and process control as well as for inspection **with automated evaluation**
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Prix d'Instrumentation 2013 de la Division de Chimie Physique

#### IMAGING OF BURIED OR HIDDEN OBJECTS



#### CONTACTLESS TESTING OF LAYERS



TeraTonics S.A.S.

15 avenue Jean Perrin,

91400 Orsay Cedex, France

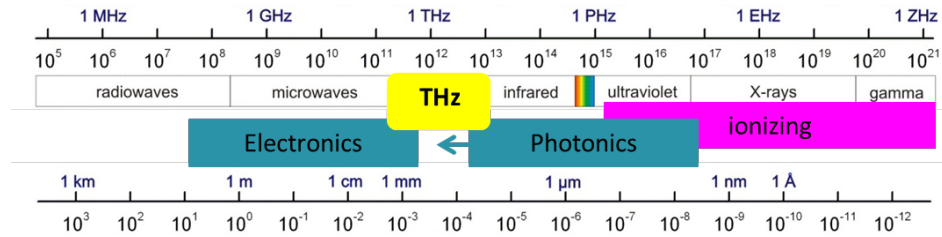
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*with Multitude of information in time and spectral domain enabling:*

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- > Precise defect localisation and characterisation
- > High contrast on polymers buried in polymers
- > High sensitivity to polymorphism, polymerization
- > High detectability of water and humidity, polar solvent traces
- > Coupling of Imaging and Spectroscopy

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