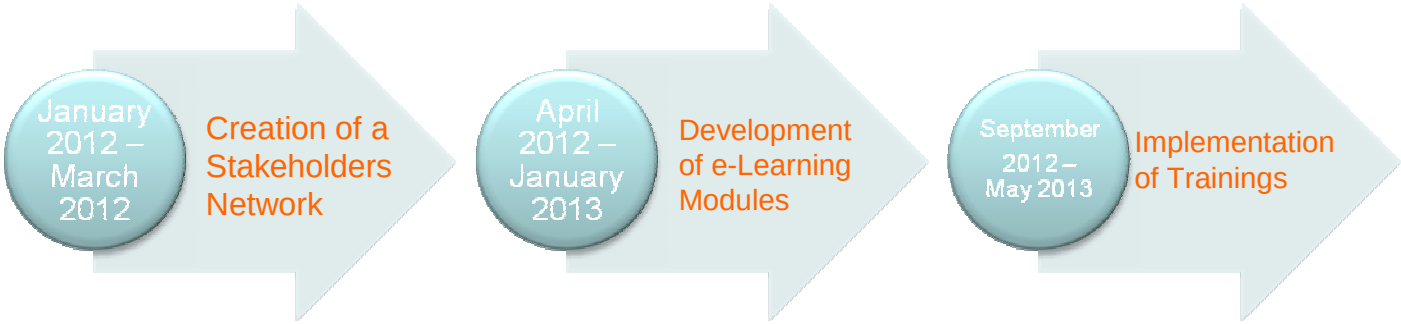
Factsheet

TANOCOMP in a Nutshell

The European project TANOCOMP will…

- support the European transfer of innovation by developing e-learning training modules in the processing of nanocomposites in plastics
- create a stakeholders network whose members can support the development of training content and participate in free pilot testing
- raise the awareness on the benefits of nanotechnology and nanocomposite preparation for several application areas



Project Implementation

Technological Breakthroughs

TANOCOMP – Innovative Carbon Nanotubes

- High-purity and low-cost production of multi-wall carbon nanotubes (MWCNTs)
- Efficient protocols for the chemical modification of CNTs and their dispersion in polymers toward the synthesis of lightweight nano composite with enhanced mechanical performance and electrical or thermal properties
- Easy production upscale of nanocomposites with existing processing techniques like injection moulding or extrusion

Injection Moulding and Extrusion Processes

- Improved control of the following parameters:
  - Temperature
  - Screw Profile
  - Rotation Speed (rpm)
  - Throughput

E-Learning as a modern and flexible vocational training option

- Participation is possible from almost everywhere
- Mandatory attendance is minimized
- Just in time learning
- Modules are adapted to your needs

How can I profit from TANOCOMP?

- Access to information on cutting edge technologies
- Improvement of products‘ properties
- Empowering employees through Lifelong Learning Opportunity
- Gaining access to valuable network of contacts at European level

Improved properties of plastic materials

- Improvement of mechanical properties
- Scratch resistance
- Reduction of weight
- Highly conductive
- Strength improvement
- Wear resistance
- Fire resistance

SHOWCASE_Electronics

Electronic Parts

Application of TANOCOMP Methodology

Use of pristine or functionalized multi walled carbon nanotubes for the dispersion in epoxy resins and/or polymer matrices

Effect

Enhanced electrical and thermal conductivity

Contact

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