Simulation Platform for Non Destructive Evaluation of Structures and Materials

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Materials characterization and Non destructive testing play a major role for quality and safety issues. Complex industrial cases require new codes (process optimization, qualifications...)

Integration in a unique platform of models for **material characterization** and **flaw detection**

- Simulation of **complex industrial cases** by integrating different **numerical models**
- Virtual prototyping by coupling **NDE tools** with **design** and **life cycle** software tools

**Improved safety and quality of products & processes thanks to simulation**
SIMPOSIUM realization: FoF added value

- Framework for public-private collaboration
  - Good balance between industries, academic and SME partners contributions

- Industry driven projects
  - Opportunity to undertake innovations in R&D activities, when private sector funding for R&D is limited
  - Unique objective to deliver products directly adapted to industrial needs with shorter time to market, shorter time to production

- European framework
  - Sharing different know-how on a defined common objective leading to a real improvement of the knowledge
SIMPOSIUM: a structure to maximize the impact

• **Consortium**
  - The majority of the partners have worked together before
  - Key role of the industrials in research priorities, specifications and validations

• **Training and dissemination**
  - Realisation of tutorial adapted to training
  - One full work-package for dissemination (conference, workshop...)
  - Diversity of the end-users ensures the coverage of the industrial needs

• **Exploitation and commercialization**
  - Strong validation of the models
  - One full work-package for the preparation of the further results commercialization
  - Set-up of an Intellectual Property Right team for the resolution of disagreements between participants, assistance in the drafting of use plans for foreground.
  - Distribution of the simulation platform ensured by one partner of the project