

NDTONAIR

Training network in non-destructive testing and structural health monitoring of aircraft structures

Background

Twenty-first century industries continually adopt new materials and design methods to face challenging technological and sociological targets. This ensures improved in-service performance, increased sustainability and greater safety.

The Application of Non-Destructive Testing (NDT) and Structural Health Monitoring (SHM) techniques is necessary to prevent failures that could cause economic losses and, above all, hazards for people.

SHM techniques evolve by studying and developing innovative solutions to cope with new materials, and by exploiting the continuous progress in digital devices. Research in NDT is therefore a key ingredient for the safe and sustainable future of many sectors of EU industry including power generation, oil and gas, aerospace, defence and high value manufacturing.

Objectives

The training programme will provide researchers with extensive and varied training in:

- fundamentals skills for NDT and SHM by participating in short-courses and seminars organised by NDTonAIR

- NDT and SHM techniques for aerospace through research training at host institutions and participation in internal and external conferences
- technology transfer and entrepreneurship with short courses and seminars organised by the consortium.

Benefits

The NDTonAIR consortium involves universities, research organisations and major European companies working on new NDT and SHM techniques for aerospace, both of which are key technologies. The goal is to train a new generation of scientists and engineers in theoretical and experimental skills, enable them to develop their research and entrepreneurial activities in both academia and industry, and encourage them to play an active role in promoting the importance of quality inspection and structural monitoring in aerospace components.



Project partners

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