

Optimised Design for INspection (ODIN)



The Optimised Design for INspection (ODIN) EU COST action brings together the top European experts across the key areas of damage detection, energy harvesting, wireless communication and optimisation to support the development of an integrated framework for optimised self-sensing structures capable of diagnosis and prognosis, together with demonstrators and educational activities, including training programs, which will ultimately lead to cleaner and safer skies.

This Action will maximise the full benefit of in-service, continuous monitoring of critical aerospace structures by integrating ultrasonic wave-based non-destructive evaluation (NDE), energy harvesting and wireless sensor technologies at the design conception phase.

This will improve maintenance strategies, increase asset availability, bridge the gap between research and industry, enable increased the use of advanced materials, reduce operating costs and ultimately deliver safer and greener air transport solutions.

Optimisation (sensor/structure), computational modelling, advanced signal processing, and advanced design approaches will be integrated to produce a novel framework, design tools and guidelines for the delivery of the first generation of self-sensing aircraft capable of delivering accurate structural prognosis.

Benefits of joining the action:

Open to:

- ✈ all disciplines,
- ✈ all novel and original ideas (innovative),
- ✈ all partners (public and private, big and small),
- ✈ all career stages (young and senior investigators),
- ✈ all countries (small and big, leader and follower countries), and
- ✈ to non-COST countries (fostering international cooperation).

COST actions foster the development of international networks and participation in cutting edge research.

If you would like to join the network please contact us through our Action's website link below

www.odin-cost.com

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