



ERC Information Day “Horizon Europe”

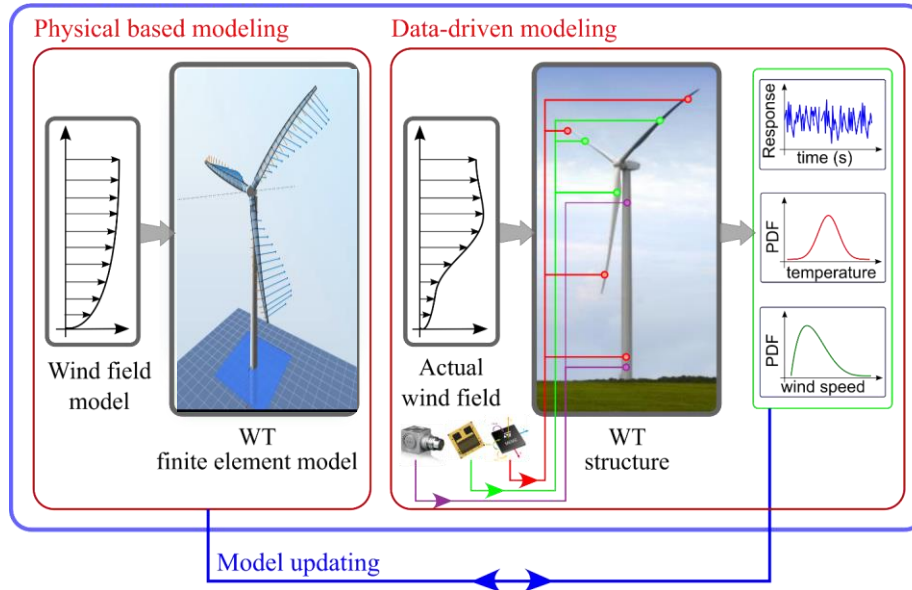
Roundtable session (incl. Q&A) with ERC grantees



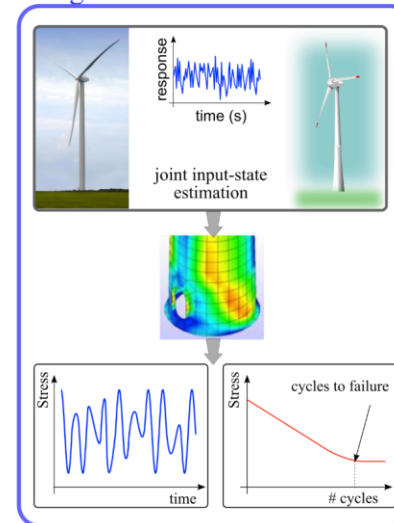
Smart Monitoring, Inspection and Life-Cycle Assessment of Wind Turbines - WINDMIL



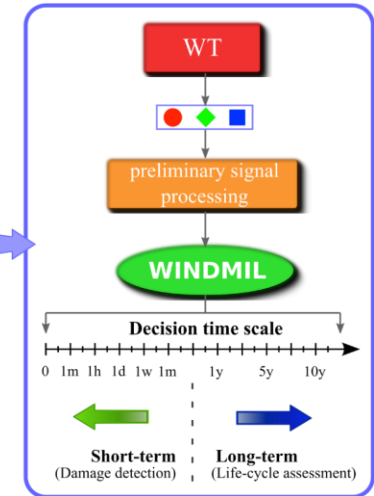
1. WT simulation models



2. Fatigue Estimation



3. Smart monitoring, inspection & maintenance



Prof. Dr. Eleni Chatzi, ETH Zürich
<https://chatzi.ibk.ethz.ch/erc-stg-windmil.html>

► Project objectives

► Science

- Data-driven & Self-Aware Energy Infrastructures
- Quantifying the Value of Information – from Big to Smart data

► Sustainability

- Maximizing Return on Investment for Wind Infrastructure
- Promoting a Sustainable Shift to Renewables



WINDMIL
SMART MONITORING, INSPECTION & LIFE
CYCLE ASSESSMENT OF WIND TURBINES



Smart Monitoring, Inspection and Life-Cycle Assessment of Wind Turbines - WINDMIL

► Project team

Track 1: Forward Engineering

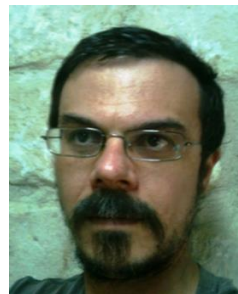


Dr. I. Abdallah
Postdoc

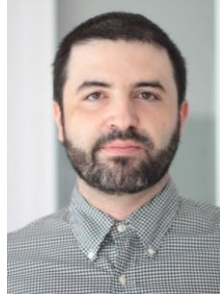


Dr. K. Tatsis
PhD Candidate

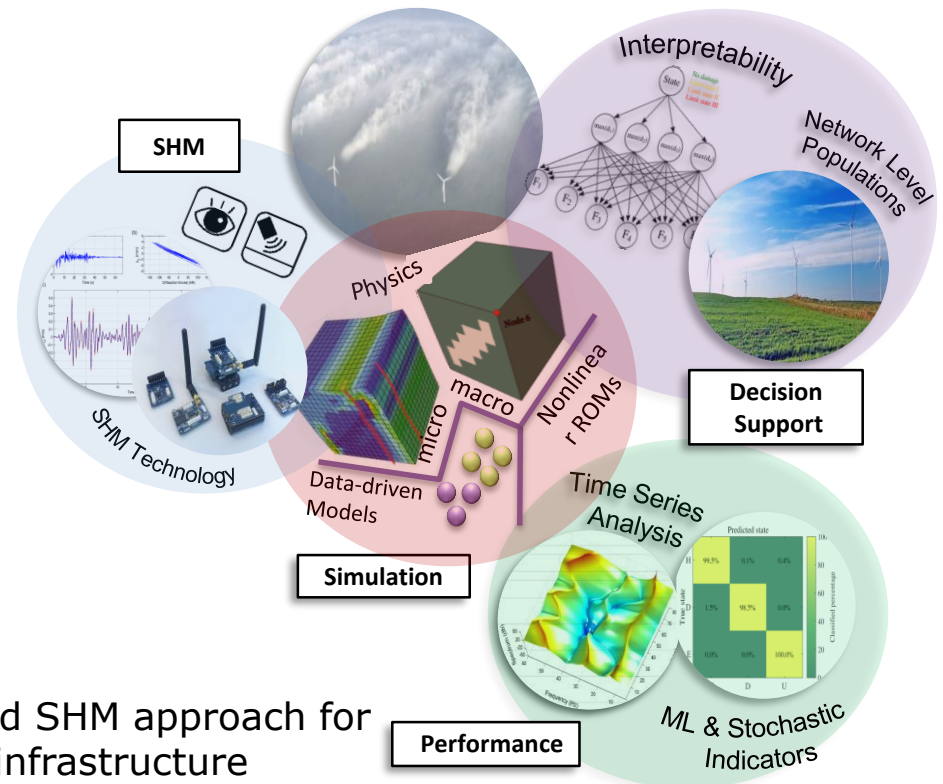
Track 2: Inverse Engineering



Dr. V. Dertimanis
Senior Scientist



Dr. Ch. Mylonas
PhD Candidate



► Outputs

- An end-to-end SHM approach for wind energy infrastructure
- 2 doctoral students nominated for a distinction
- 60+ publications
- 4 follow-up research projects, 1 ERC PoC Grant
- Preparation of a Spinoff

