

ZORRO – Zero downtime in cyber-physical systems

ZORRO is a research project funded by NWO and carried out by a multidisciplinary consortium consisting of University of Twente, Vrije Universiteit, Saxion, TNO-ESI and industrial partners ASML, Canon Production Printers, ITEC, Philips, and ThermoFisher Scientific.

Diagnostics is a key technique to reduce downtime in complex systems: by **identifying the root causes** of (potential or actual) system failures, appropriate **corrective and preventive measures** can be taken. Recent technological advances in sensor technology, data analytics and the Internet-of-things have put forward **Intelligent Diagnostics**, replacing the traditional human-based diagnosis: by equipping systems with appropriate sensors, AI algorithms can detect anomalies and relate these to potential root causes more precisely and faster.

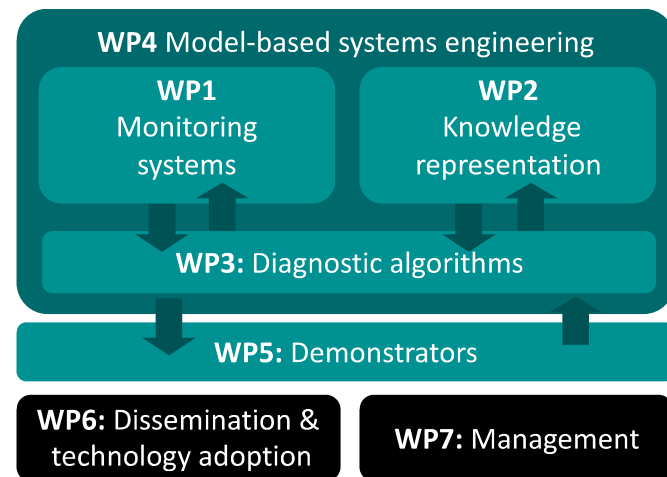
WP1 - Reliable and resource-efficient monitoring systems

WP2 - Incorporating formalized knowledge in the diagnostic workflow.

WP3 - Accurate system-level diagnostic algorithms.

WP4 - Tight integration in the system's engineering life cycle.

WP5 - TRL5-6 Public and industrial demonstration



Five industrial use-cases



Partners:

UNIVERSITY
OF TWENTE.

SAXION
University
of Applied
Sciences

VU
VRIJE UNIVERSITEIT
AMSTERDAM

ESI
Powered by industrial
academy and TNO

NWO

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ASML

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