

ESI WEBINAR DAY 2020 INTELLIGENT DIAGNOSTICS

15:30 – 17:00 (17:30)

Webinar 3

October 6, 2020

An initiative of industry, academia and TNO



INTELLIGENT DIAGNOSTICS - PROGRAM

Moderator

Harm Munk, ESI

15:30	Welcome, introduction	Harm Munk, ESI (moderator)
15:35	The industrial perspective	Peter Kruizinga, Canon Production Printing
15:40	Diagnostics landscape	Harm Munk, ESI
16:00	The value of intelligent diagnostics	Steve P. King, Cranfield University, IVHM
16:30	Work processes, organisation, and tools for asset condition monitoring and energy management	Kim Alexander Jørgensen, Lundin Energy Norway
17:00	Webinar café	Informal discussion

ESI'S VIEW ON INTELLIGENT DIAGNOSTICS

Sketching the Diagnostics landscape

Harm Munk

ESI webinar day, October 6, 2020

An initiative of industry, academia and TNO

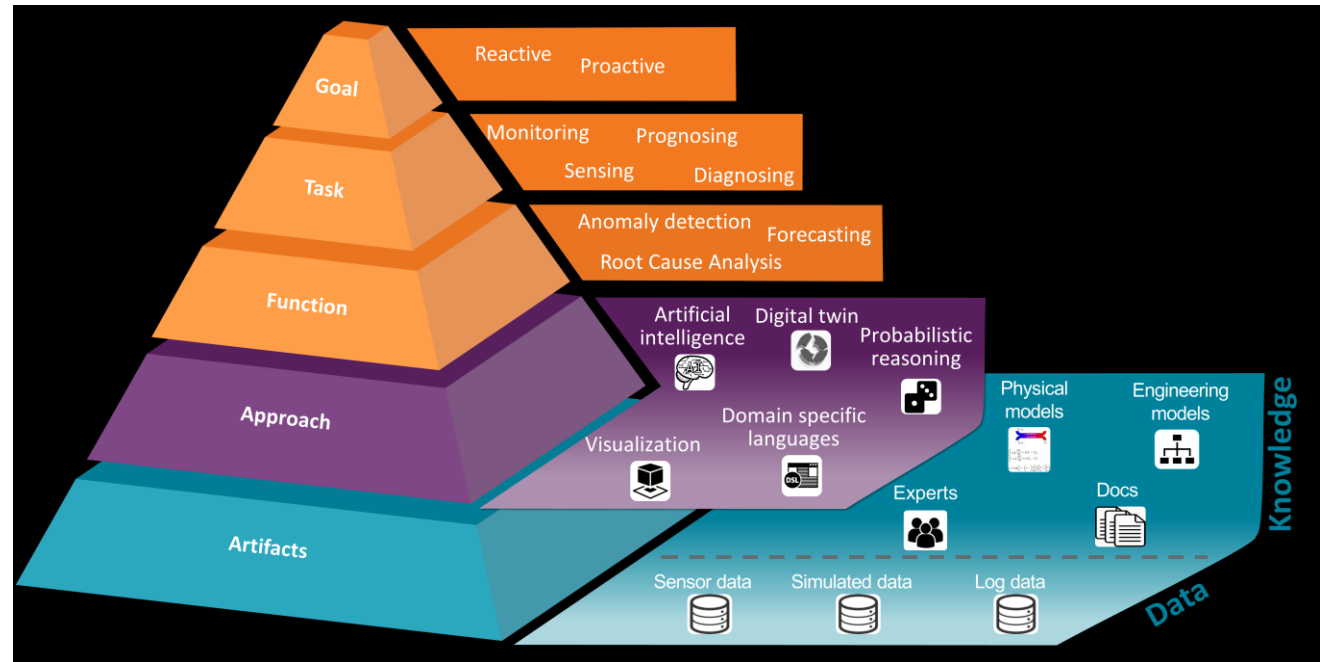


INTRODUCTION

- (Intelligent) diagnostics in perspective
- Sketching the diagnostics landscape

Keywords

- Integration
- Maintenance
- Availability
- Performance



DIAGNOSIS IN PERSPECTIVE



Definition



Lifecycle

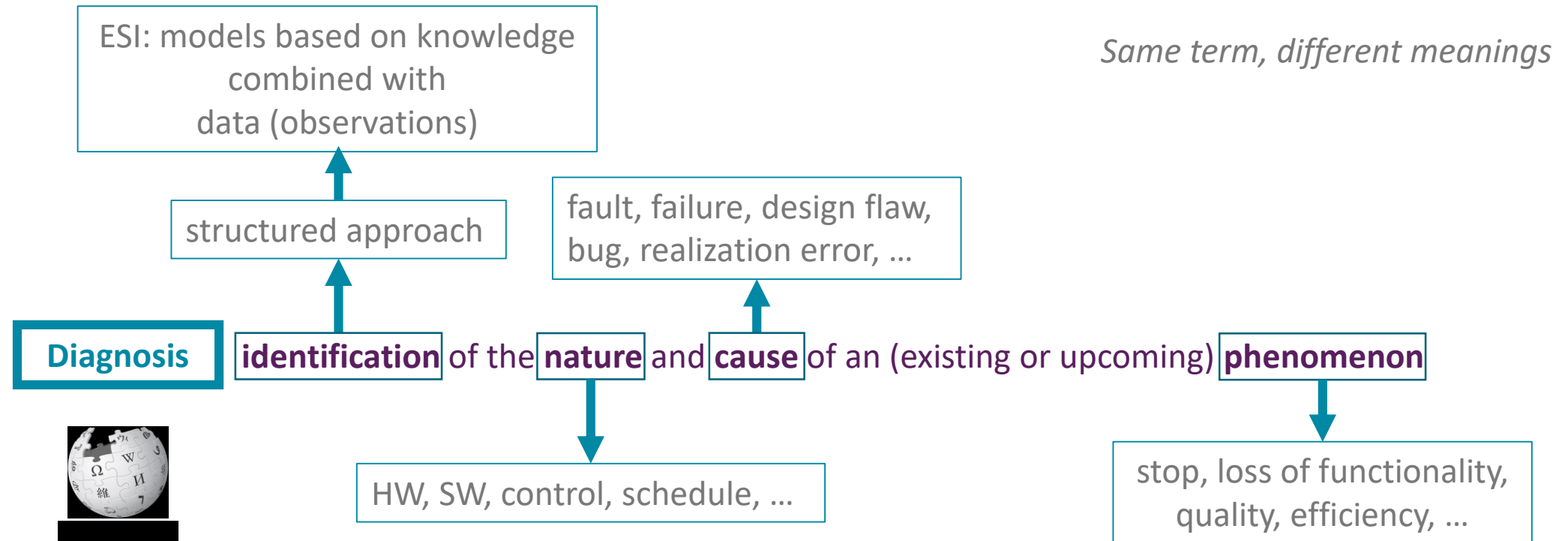


Process

DIAGNOSIS IN PERSPECTIVE

DEFINITION

Partners: "Diagnosis is key element"



DIAGNOSIS IN PERSPECTIVE



Definition

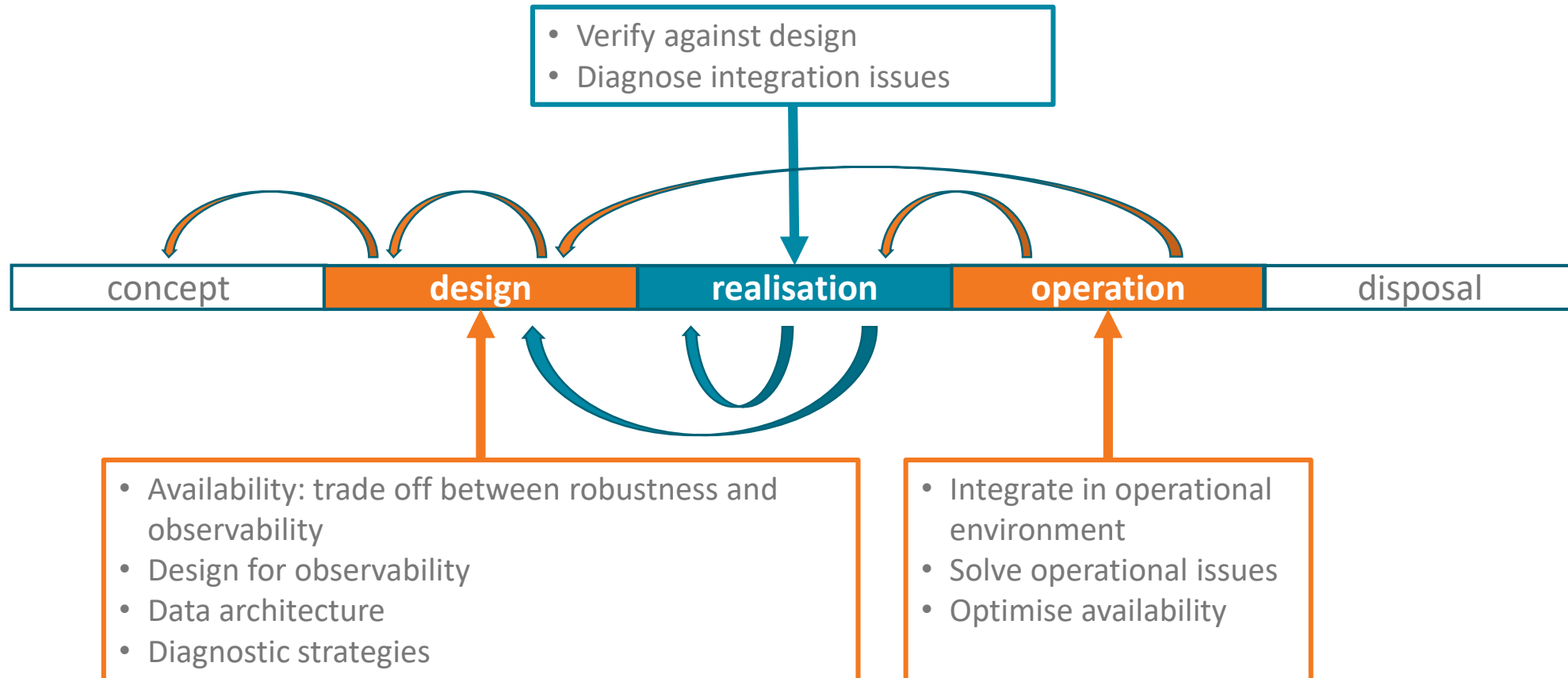


Lifecycle



Process

DIAGNOSIS IN PERSPECTIVE SYSTEM LIFE CYCLE VIEW



DIAGNOSIS IN PERSPECTIVE



Definition



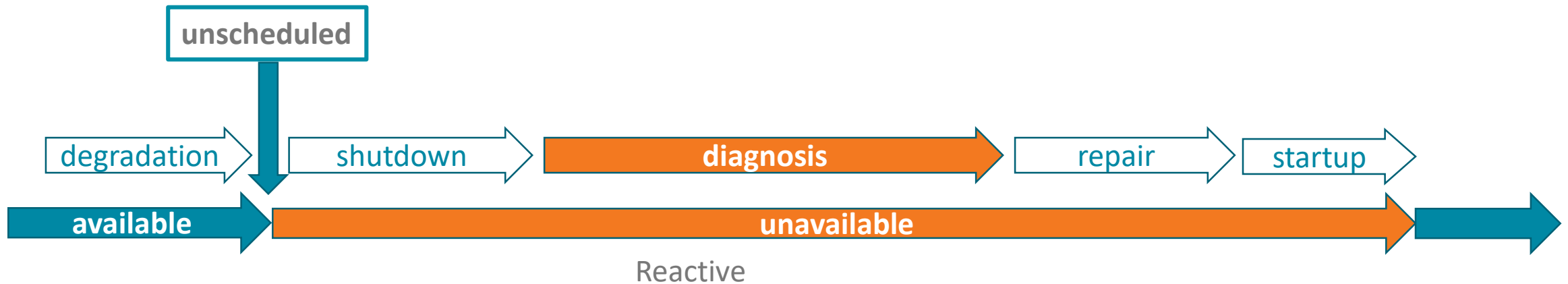
Lifecycle



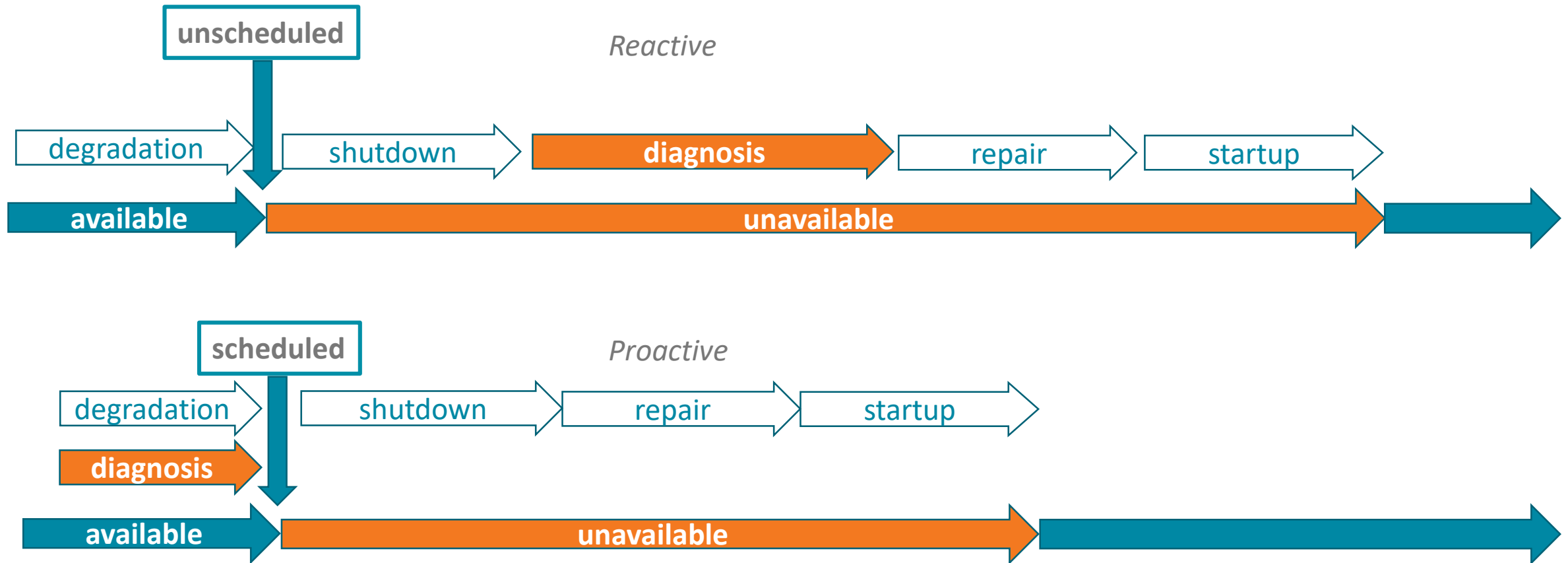
Process

(INTELLIGENT) DIAGNOSIS IN PERSPECTIVE PROCESS VIEW

Reduce diagnostics time



(INTELLIGENT) DIAGNOSIS IN PERSPECTIVE PROCESS VIEW: REDUCE PRODUCTIVE TIME



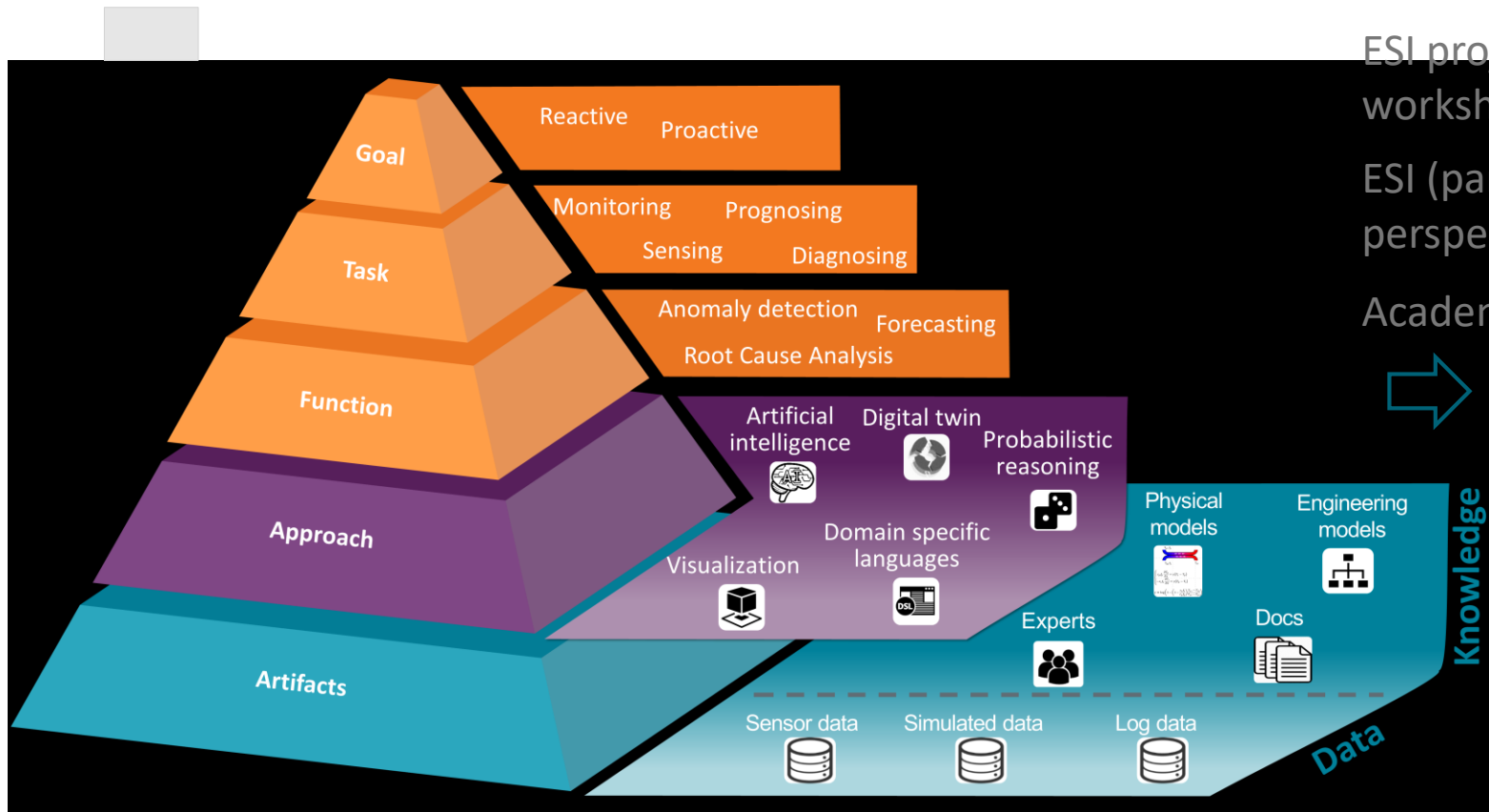
DIAGNOSIS IN PERSPECTIVE

- High Tech Industry: increasing demand for performance and availability
- Increasing system and systems' environment complexity
- Shift
 - From **service and repairs** to **full lifecycle performance**
 - From **perfect** system to **efficiently repairable** system
 - Increasing focus on diagnostics

Diagnosis is a many faceted field, receiving increasing attention

SKETCHING THE DIAGNOSTICS LANDSCAPE

Starting point



Process

ESI projects and workshops

ESI (partner) perspective

Academia



ESI diagnostics roadmap

State of practice

State of art

CHALLENGES ROADMAP

- Diagnosable by design
- Delta Designs, legacy
- Series of one

- Applied research
- Cross fertilisation
 - From single partner to multi partner projects

Time frame

- September – November 2020: interviews partners
- November: workshop first results

- April 20, 2021: ESI symposium

DIAGNOSIS

*“From practical detail
to first-class citizen”*

“ESI: Positioned to Advance the State of Practice”

THANK YOU FOR YOUR ATTENTION

ESI symposium April 20, 2021

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