UNIVERSITY OF EXETER

EPSRC Centre for Data-Driven Manufacturing

- Professor Tim Dodwell (PI)
- Professor Ion Sucala
- Professor Saeema Ahmed-Kristensen
- Professor Richard Everson
- Professor Sarah Hartley
- Professor David Zhang
- Professor Phillippe Young

Mission & vision

The Centre for Data-Driven Manufacturing will develop advanced digital twinning technologies to underpin engineering decision-making tools across the breadth of manufacturing and supply chain processes.

Our research will develop novel human-centered research in digital twins, driven by our industrial partners' needs across the manufacturing sector.

Our workflow

INDUSTRY THEMES

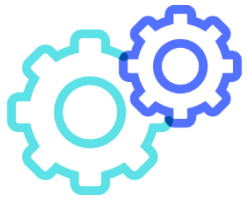
(challenges provided by industry)

RESEARCH THEMES

(industry-based academic research)

SOLUTIONS & IMPACT

(value back to the business)



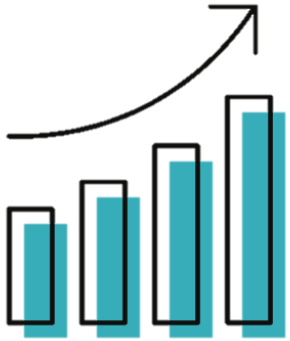
Industry themes

Smart Connected Factory

- harness technologies to optimise the design and execution of current and future factories

Connected and Versatile Supply Chain

- harness technologies to optimise the design and execution of current and future supply chains



Adaptable, flexible manufacturing operations and skills

- enable customisation, flexible networks of supply and skills, and the efficient transfer of digital tools to the workplace

Research themes

Smart Manufacturing Systems

- optimise the design and execution of current and future products and manufacturing systems

Resilient Supply Chains

- configure and optimise robust supply chains which are sustainable, resilient and responsive to challenges

Rapid prototyping of High Value Products

- integration of design and data with simulations to generate virtual prototypes of complex products

Each research theme is underpinned by human-centred methods

Solutions & Impact

ADVANCED DIGITAL TWINNING TECHNOLOGIES

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Digital tools supporting engineering decision-making across the breadth of manufacturing and supply chain processes

Centre resources

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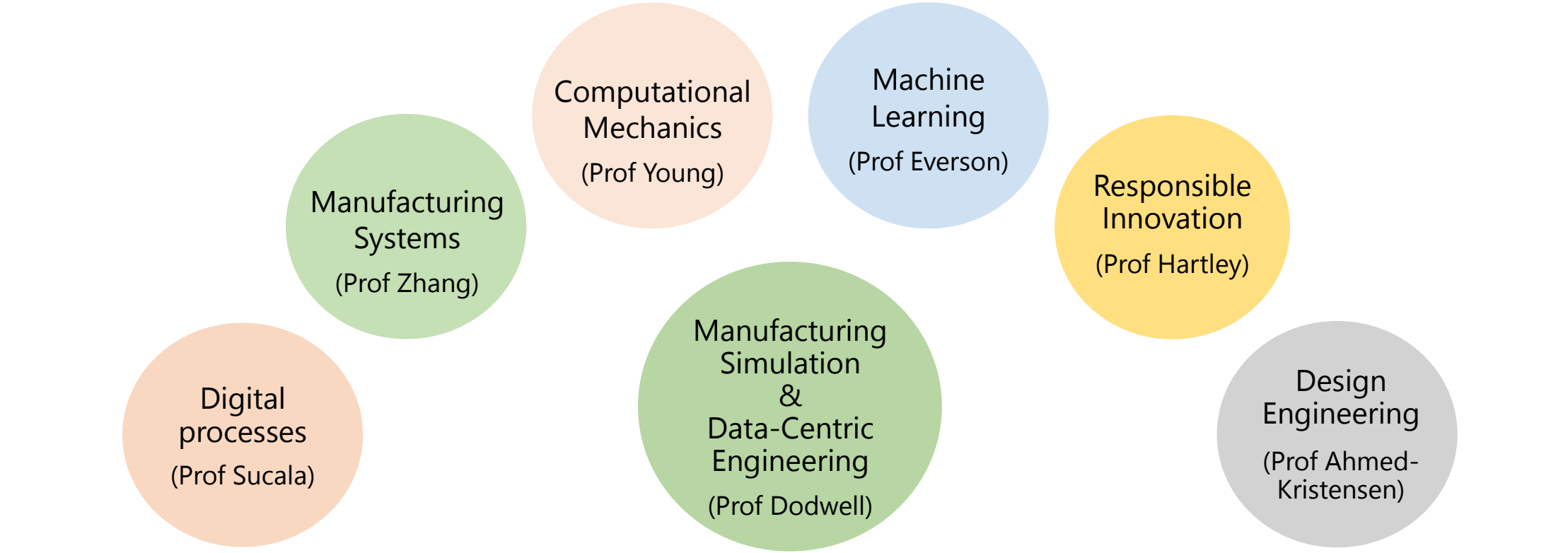

Institute of Data Science & Artificial Intelligence

University of Exeter Russell Group researchers

Exeter Digital Enterprise Systems (ExDES) lab

Our partners

Academic & Catapults

The Alan Turing Institute

HENRY ROYCE INSTITUTE

Fraunhofer IAO

NATIONAL COMPOSITES CENTRE

UNIVERSITÄT HEIDELBERG ZUKUNFT SEIT 1386

INSTITUTE FOR COMPUTATIONAL ENGINEERING & SCIENCES ODEN

AFRC ADVANCED FORMING RESEARCH CENTRE UNIVERSITY OF STRATHCLYDE

The University Of Sheffield. AMRC ADVANCED MANUFACTURING RESEARCH CENTRE

Industry and business

ASM

AIRBUS

CITY SCIENCE endless possibilities

SMART MANUFACTURING

victrex

GKN AEROSPACE

MX3D

PMG

SimulAI

CENTRE FOR DATA-DRIVEN MANUFACTURING

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