



**ETH**

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

**WZL | RWTH AACHEN  
UNIVERSITY**

**Horizon 2020  
Project Proposal for FOF 8\_-2015:**

***“Accelerated Knowledge Acquisition  
for Process Optimisation and  
Development”***

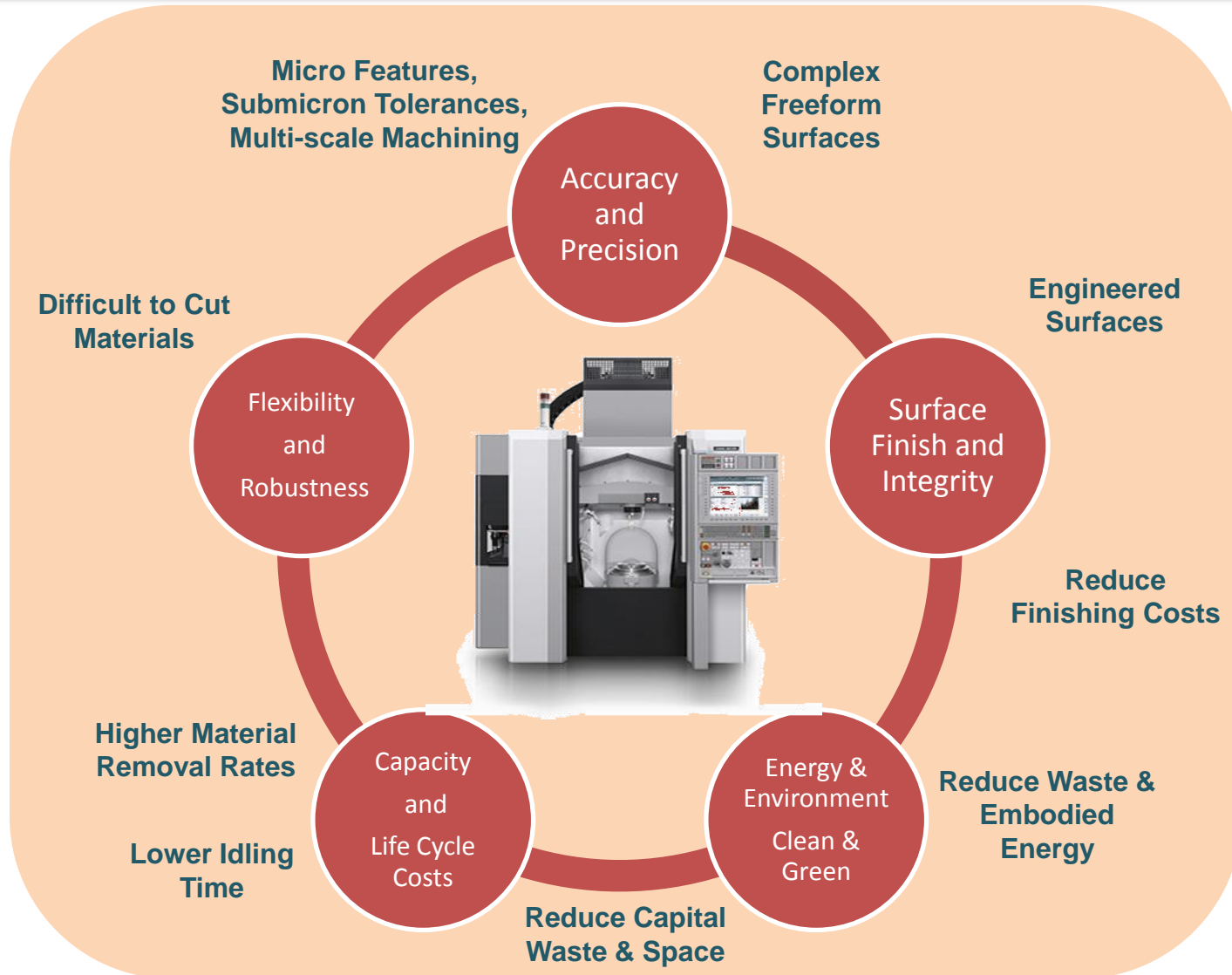
***Dr E.Ahearne, UCD***

# H2020 Programme: FOF 8 -2015

## ***ICT-enabled modelling, simulation, analytics and forecasting technologies***

1. Specific Challenges: Simulation and prediction of manufacturing processes / products enabled by advances in ICT (smart sensor technologies, "big data", cyber physical systems (CPS) etc)
2. Scope "R&I Actions": Innovative modelling, simulation, analytics and forecasting tools for manufacturing, building on advances in ICT
  - Driven by industrial use-cases
  - To include proof-of-concept demonstrations
  - ***Should address modelling and simulation methods involving multiple phenomena, multi-objective, integrating virtual and physical experiments, building on the combination of simulated, experimental, and real world data in real time***

# Focus: Discrete Parts Manufacturing / CNC Machining Centres



# Seeking Companies with Expertise in “Advanced Process Control” Technologies



**Ergonomics, Knowledge  
Management**



**Predictive Maintenance  
Software**



**CNC Interfacing**



**High Speed Data  
Analysis & Mining**

**Wireless Power  
Supplies**

**Miniaturised, Low  
Power  
Sensors**



**Telemetry**

# Contact Details

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The End