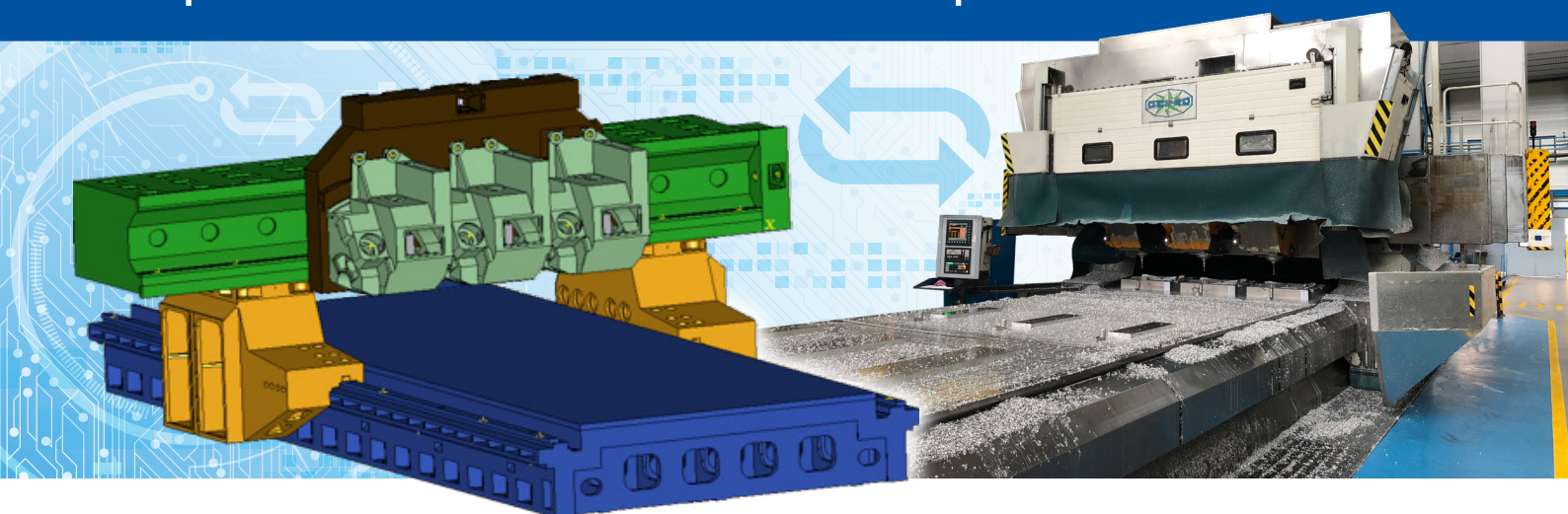# Virtual Machining and Optimisation workshop

Thursday
1st March 2018
at the AMRC KTC

The AMRC along with the Twin-Control consortium are hosting a workshop on virtual machining and optimisation.

The aims of this event are to:

- **Share the recent developments** on virtual machining and optimisation.

- **Discuss** how industry are currently using it and what the gaps are.

- **On-machine demonstration of virtual machining at the AMRC**, along with a social lunch for discussion and networking.

For the full event agenda please see next page for details.

Twin-Control

Twin-Control aims to develop a simulation **system that integrates the different aspects that affect machine tool and machining performance**, including lifecycle concepts, providing better estimation of machining performance than single featured simulation packages. This holistic simulation model will be linked to the real machines in order to update itself according to their real condition and to perform control actions that will lead to performance improvements.

For more information: **twincontrol.eu**

Twin Control is funded by the Public Private Partnership (PPP) for Factories Of the Future (FOF) within the European Framework Programme for Research and Innovation, Horizon 2020 (grant agreement nº 680725).

Event and booking details

Where: The AMRC Knowledge Transfer Centre (KTC), Advanced Manufacturing Research Centre, Brunel Way, Catcliffe, S60 5WG.

When: 09:00 to 14:00 (including lunch) on Thursday 1st March 2018.

To book your place please contact:

✉ g.cigala@amrc.co.uk

📞 0114 222 6661

CATAPULT High Value Manufacturing

European Union European Regional Development Fund

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AGENDA

9:00 - 10:15	**Presentation session 1**
9:00 - 9:15	Erdem Ozturk, AMRC – Introduction to virtual machining and optimisation
9:15 - 9:30	Simon Dutton, Rolls-Royce – Machining Digital Twin
9:30 - 9:45	Scott Ravenscroft, CG Tech – VERICUT Force Optimisation
9:45 - 10:00	Mikel Armendia, Tekniker – Twin-Control: A new concept towards productivity in machining processes
10:00 - 10:15	Frédéric Cugnon, Samtech – Advance mechatronic modelling of machine tool and machining process
10:15 - 10:30	Coffee break
10:30 - 11:15	**Presentation session 2**
10:30 - 10:45	Tobias Fuertjes, Artis – Local process monitoring for Industry 4.0
10:45 - 11:00	Denys Plakhotnik, ModuleWorks – Material removal simulation and visualisation of measured/acquired data
11:00 - 11:15	Luke Berglind, AMRC – Twin control process model and demonstration introduction
11:30 - 12:30	**On-machine demonstration – EcoSpeed**
11:30 - 11:50	Demo Group 1
11:50 - 12:10	Demo Group 2
12:10 - 12:30	Demo Group 3
12:30 - 13:30	Lunch at the KTC
13:30 - 13:45	**Closing remarks** – Erdem Ozturk

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