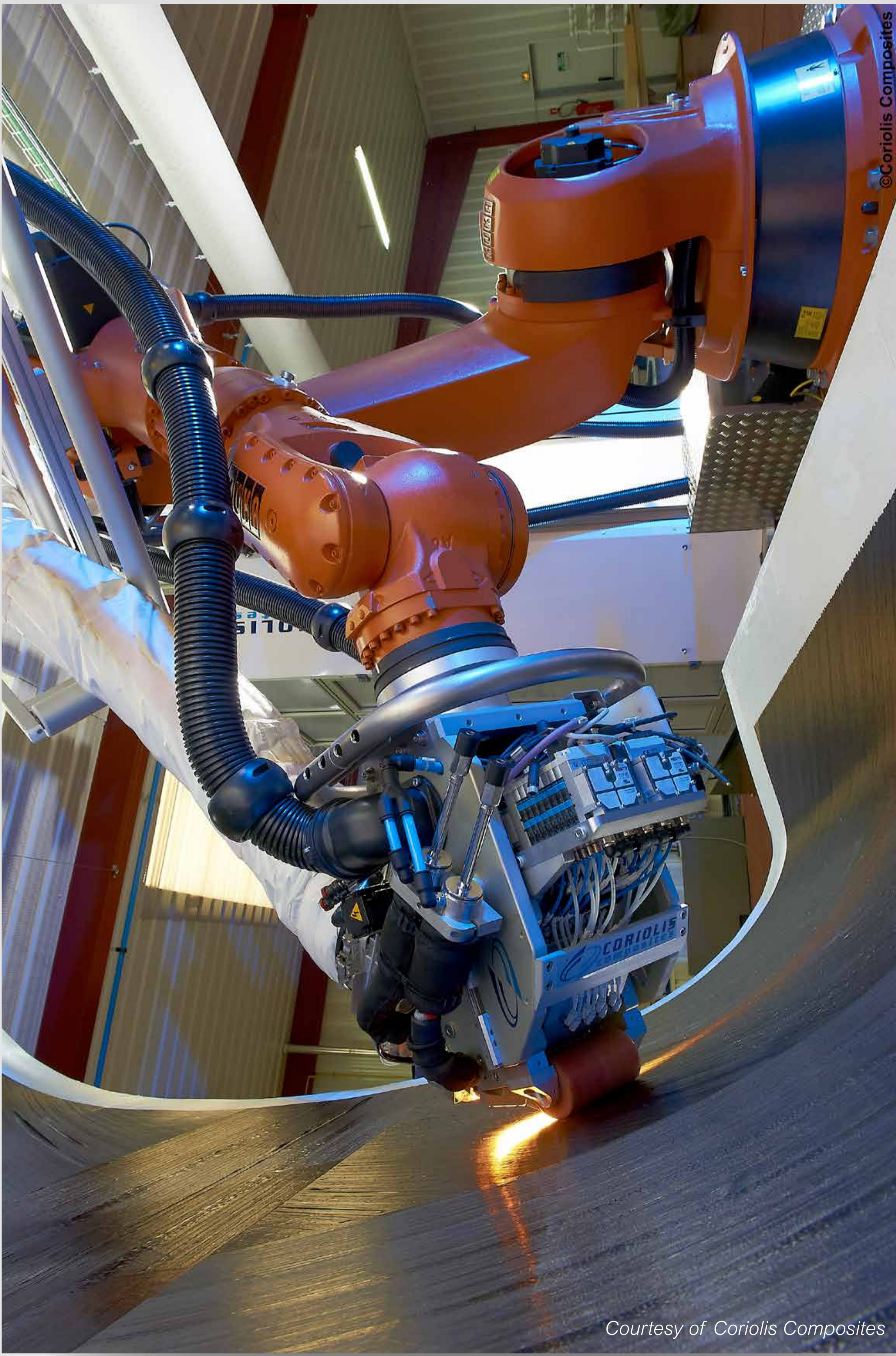


NATEP

Make your ideas happen



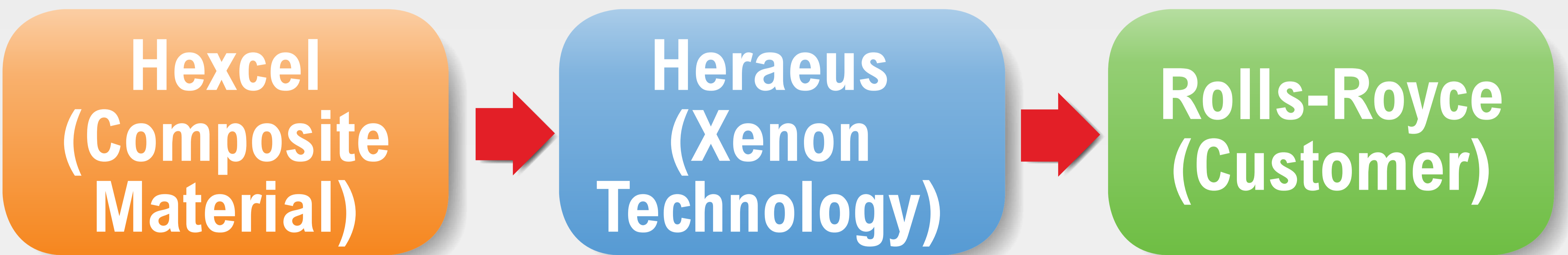
Courtesy of Coriolis Composites



Using Xenon Pulse Technology to reduce cost and increase accuracy of composite fibre placement

Supply Chain Partnership

Lead Partner



Grant Awarded: £145,000 Duration: 18 months

- Heraeus Noblelight Ltd. Xenon Flash technology offers potential cost and performance advantages in the processing of composite materials for aerospace applications
- This research will result in a fully operational demonstrator at the National Composites Centre

For more information contact: Peter Knight
MAA Technology Manager

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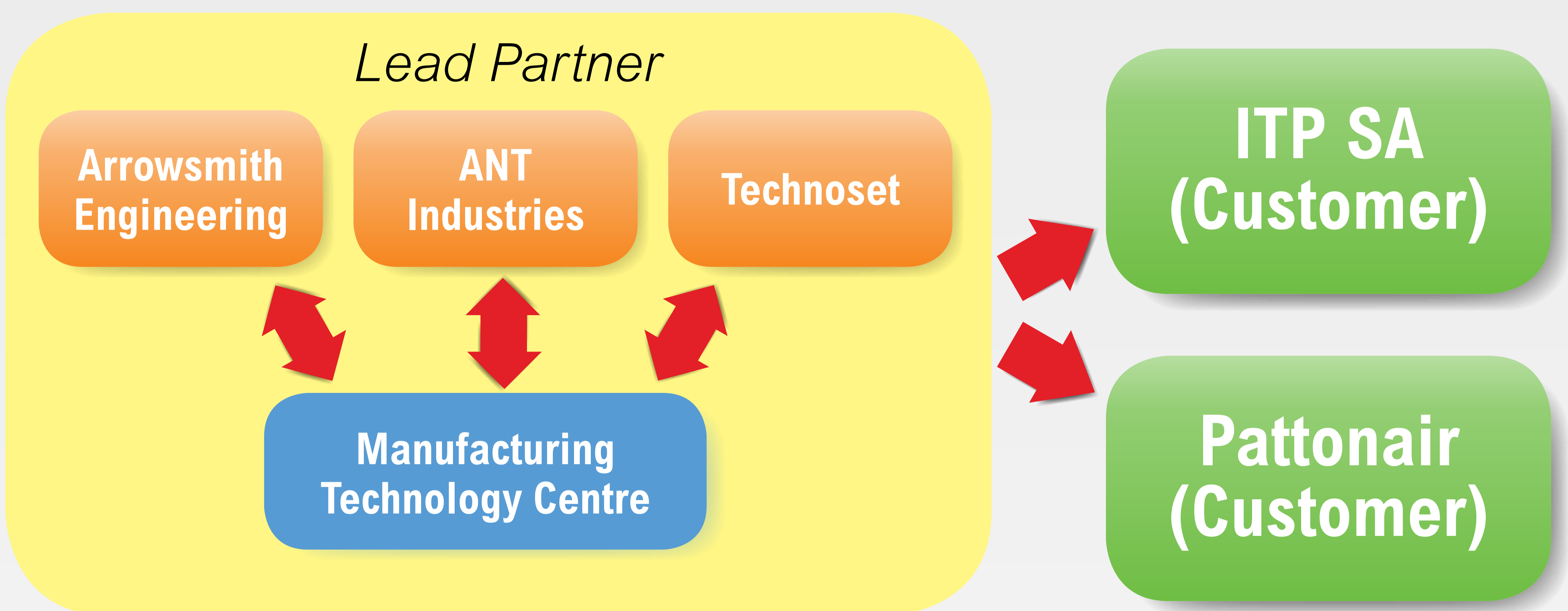
NATEP

Make your ideas happen



Better ways of machining complex aerospace parts to increase accuracy and productivity

Supply Chain Cluster Partnership



Grant Awarded: £90,497 Duration: 15 months

- ❑ Three small manufacturers are using Manufacturing Technology Centre expertise for research into two specific machining processes for difficult-to-make aerospace components

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Novel designs to make
3D woven composites
stronger and more durable

Supply Chain Partnership

Lead Partner



Grant Awarded: £150,000 Duration: 24 months

- Quantify the benefits of through-thickness reinforcements in 3D carbon-fibre-reinforced-polymer (CFRP) composites
- Investigate the effects of through-thickness reinforcements on delamination and crack propagation in composites
- Deliver confidence to allow design of aerospace parts at optimum weight/performance efficiency

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3D printing of aerospace pipe fittings to reduce weight and streamline flow path

Supply Chain Partnership

Lead Partner



Grant Awarded: £143,000 Duration: 12 months

- Redesign a selection of typical end-fittings to minimise weight and cost, suitable for metal additive layer manufacture
- Manufacture samples in special materials and develop quality control procedures
- Validate the new parts through a combination of analysis and rig testing

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