

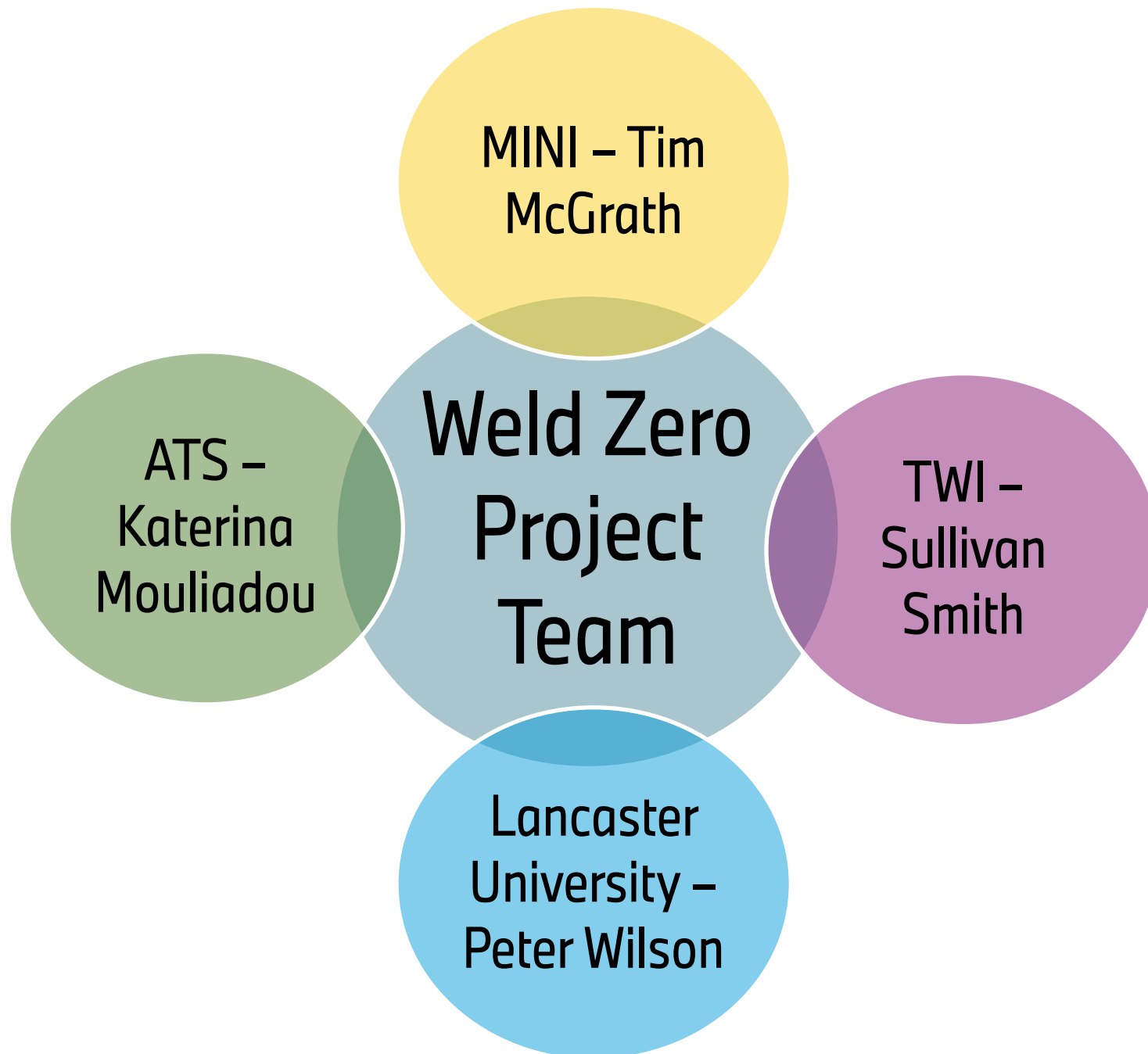
BMW
GROUP



WELD ZERO PROJECT

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ACHIEVEMENT

GOAL

- To develop an intelligent, automated and flexible welding process solution within an Industry 4.0 CPSS platform.
- To improve process stability, repeatability and costs.

METHOD

- Identify the key causes of weld expulsion and how to capture them.
- To capture the information in the cloud and analyse the findings.

ACHIEVMENT

- 50% reduction in consumable costs (£200,000 per year).
- Significant reduction in compressed air costs (£250,000 per year).
- Accurate prediction model for detecting welding faults when they occur, 93.00% in a blind test environment (some attributes up to 100.00%).