



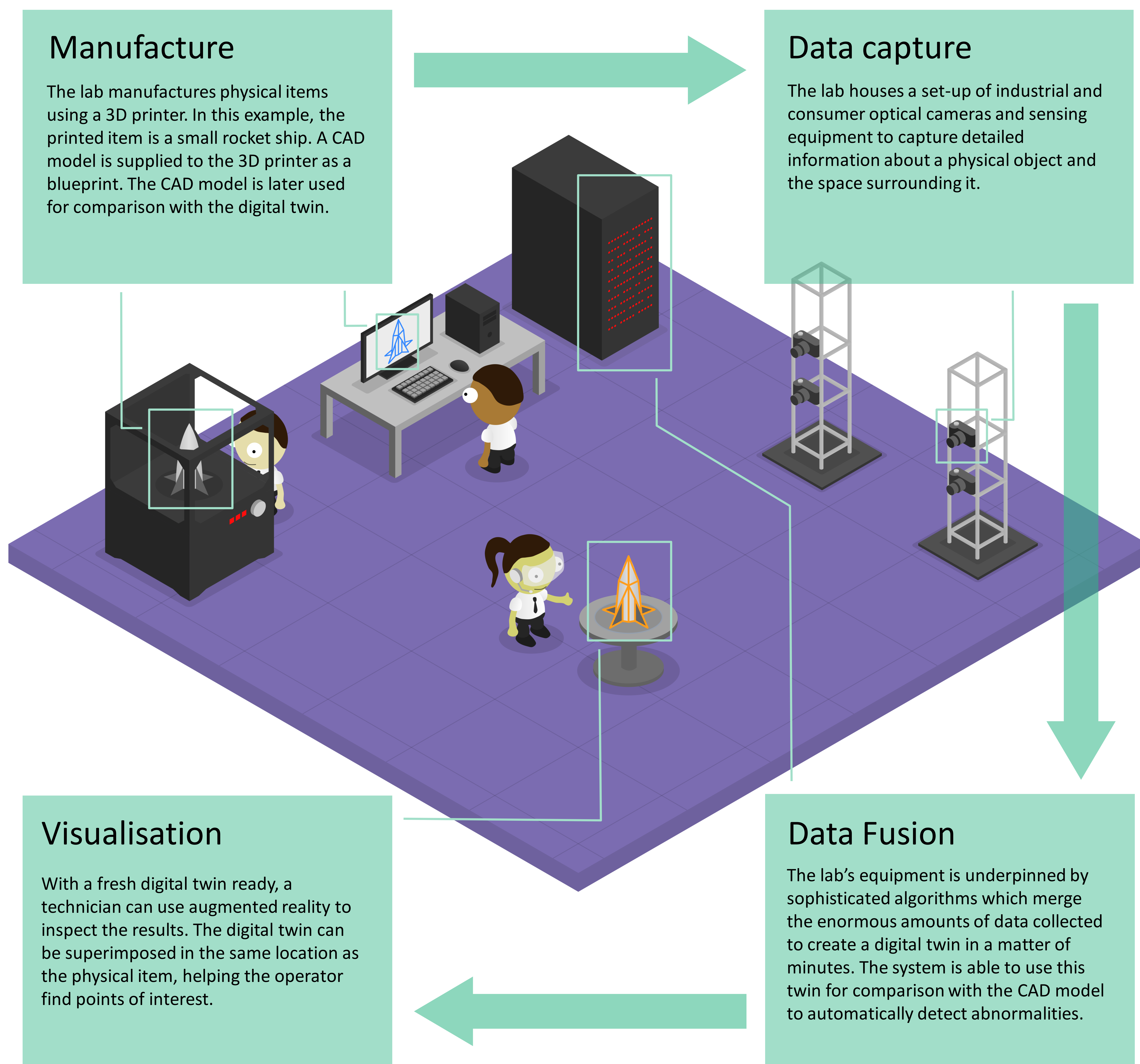
The Mixed Reality Lab



Creating digital twins of physical items to automatically find item defects

CSIRO Data61 Decision Sciences program
www.data61.csiro.au

The Mixed Reality Lab at CSIRO's Data61 will enable manufacturing and other industries to create 'Digital Twins', or virtual replicas of physical objects and systems. By comparing a digital twin of a manufactured object against the original design, we can quickly, accurately and cost-effectively identify defects and map entire manufacturing processes across a global supply chain. Defective components can be identified in real-time and corrected, while downstream processes can be adjusted to minimise the impact of delays. The lab is a unique combination of Data61's research expertise across machine learning, computer vision, computational modelling, IoT, and CSIRO's patented Stereo Depth Fusion technology for depth estimation.



FOR FURTHER INFORMATION

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