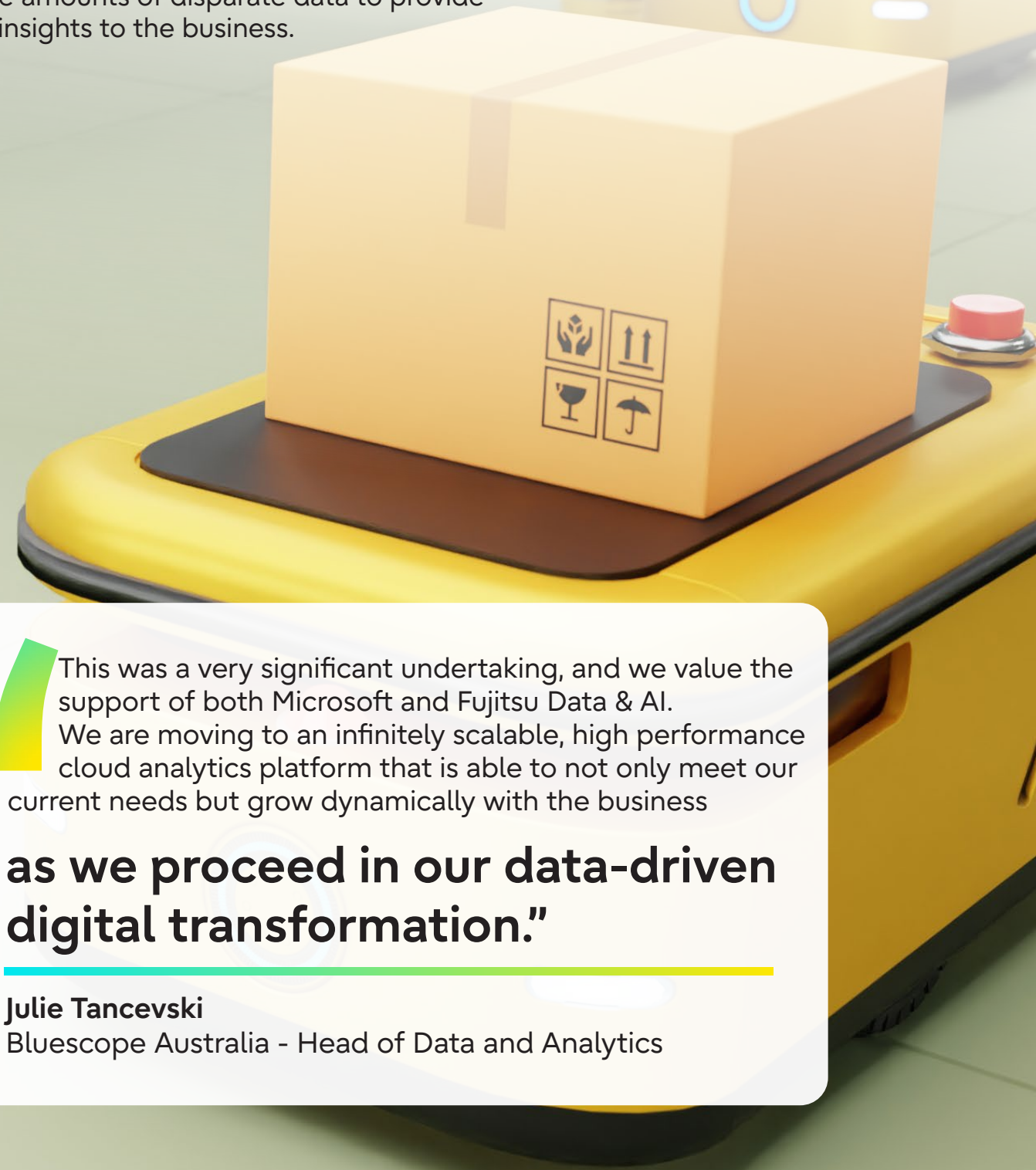# FUJITSU

How Data & AI enables manufacturing

Manufacturing organisations generate large amounts of data, in disparate source systems, and connected devices (IoT devices). This can pose a challenge in sourcing and collating data into a single source of truth for reporting and analytics.
Fujitsu Data & AI consultants have assisted many manufacturing organisations to achieve data business goals and outcomes.

How we enable manufacturing

We enable manufacturing organisations to leverage their large amounts of disparate data to provide valuable insights to the business.

> "This was a very significant undertaking, and we value the support of both Microsoft and Fujitsu Data & AI.
> We are moving to an infinitely scalable, high performance cloud analytics platform that is able to not only meet our current needs but grow dynamically with the business
>
> ## as we proceed in our data-driven digital transformation."
>
> **Julie Tancevski**
> Bluescope Australia - Head of Data and Analytics

Operations

Improve demand forecasting
- Identify key trends in products, and the demand for those products
- Automate as many manual processes as possible

Predictive maintenance
- Tracking maintenance issues to predict optimal maintenance schedules
- Predict machinery failures in advance

Process improvement
- Optimisations within process to cut cost or improve products
- Quality control

Pricing optimisation
- Optimising price points to meet customer and market demand
- Responding to changes in supply and logistics

Environmental and safety reporting
- Improved safety reporting to reduce safety incidences
- Monitoring and improving environmental impacts
- Regulatory reporting

Supply chain / logistics
- Reporting and improving supply chain processes
- Using machine learning to predicting opportunities within the supply chain and logistic processes

Technology

Single source of truth
- Integrate your finance, operations, and other core systems data into a fast and flexible modern data platform for improved business analytics and decision-making
- Tracking and measuring your product pricing and changes

Big data processing
- Having the ability to scale to meet the demands of the business. Scale up to meet demand and scale down to meet cost savings

Streaming analytics
- Real time analysis and reporting
- Predictive indicators to track the measurements of IoT sensors and streaming devices
- Being able to do real time machine learning predictions

Data integration
- Collating and integrating all sources of data for use and downstream BI and AI process
- Using Lambda and Kappa data ingestion and integration architectures to capture both real time and batch data

Rapid development and business alignment
- Utilising accelerators to automate and accelerate data ingestion and integration processes, to allow business to begin data analysis and information mining

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