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Amcor: A strategic journey to increasing line performance

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Carlos Paredes

Automation Manager

Amcor Rigid Packaging

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- MSc Electrical & Electronic Engineer and 15+ years of experience in driving Digital Transformation for various manufacturing sectors.
- Adept in driving Operational Excellence using Automation and digital technologies
- Before joining Amcor in 2016, specialized in Industrial Automation systems, gaining extensive experience in SCADA/MES and PLC programming on different platforms.

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Being Amcor | Winning Aspiration

We're committed to winning for all stakeholders – including the world around us

We are a global leader in developing and producing responsible packaging for food, beverage, pharmaceutical, medical, home and personal-care, and other products.

- ~218 sites worldwide
- ~41,000 employees
- 41 countries
- US$ 14.7 billion sales

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Challenges

- Lack of visibility into operational data. How do we monetize it?
- Manual data sharing and reporting processes led to information mislead
- Needed to build standard framework to facilitate data collection, sharing, and analysis

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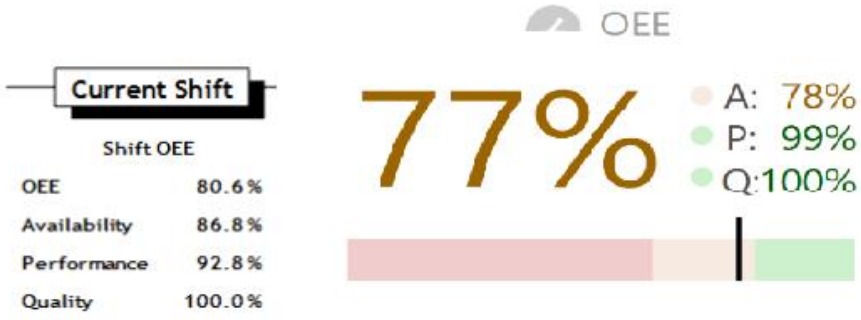
From traditional HMI to Operations Control

Challenge: DATA SILOS AND LACK OF VISUALIZATION STANDARDS



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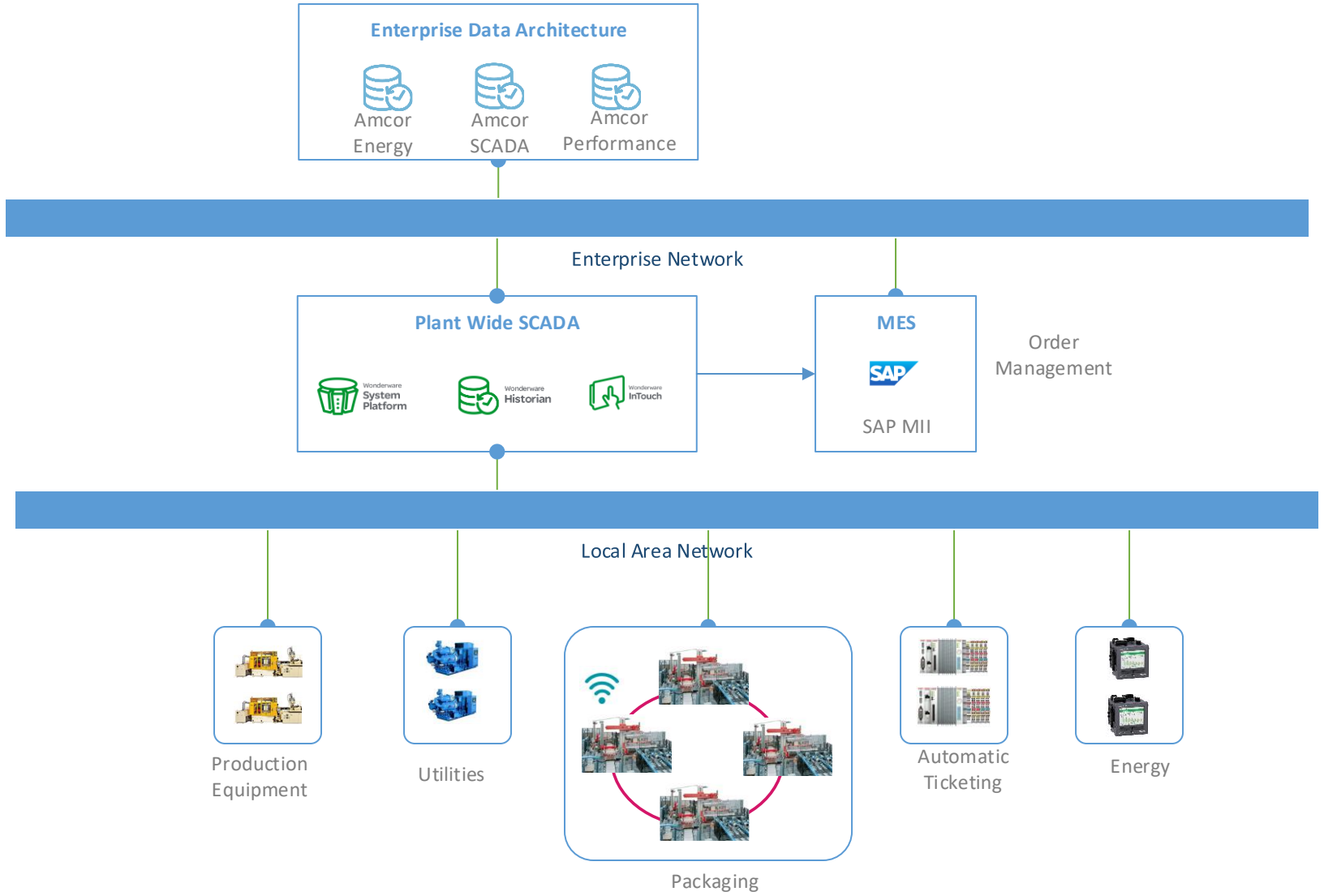
AMCOR IN 2021

LEGACY HMI/SCADA

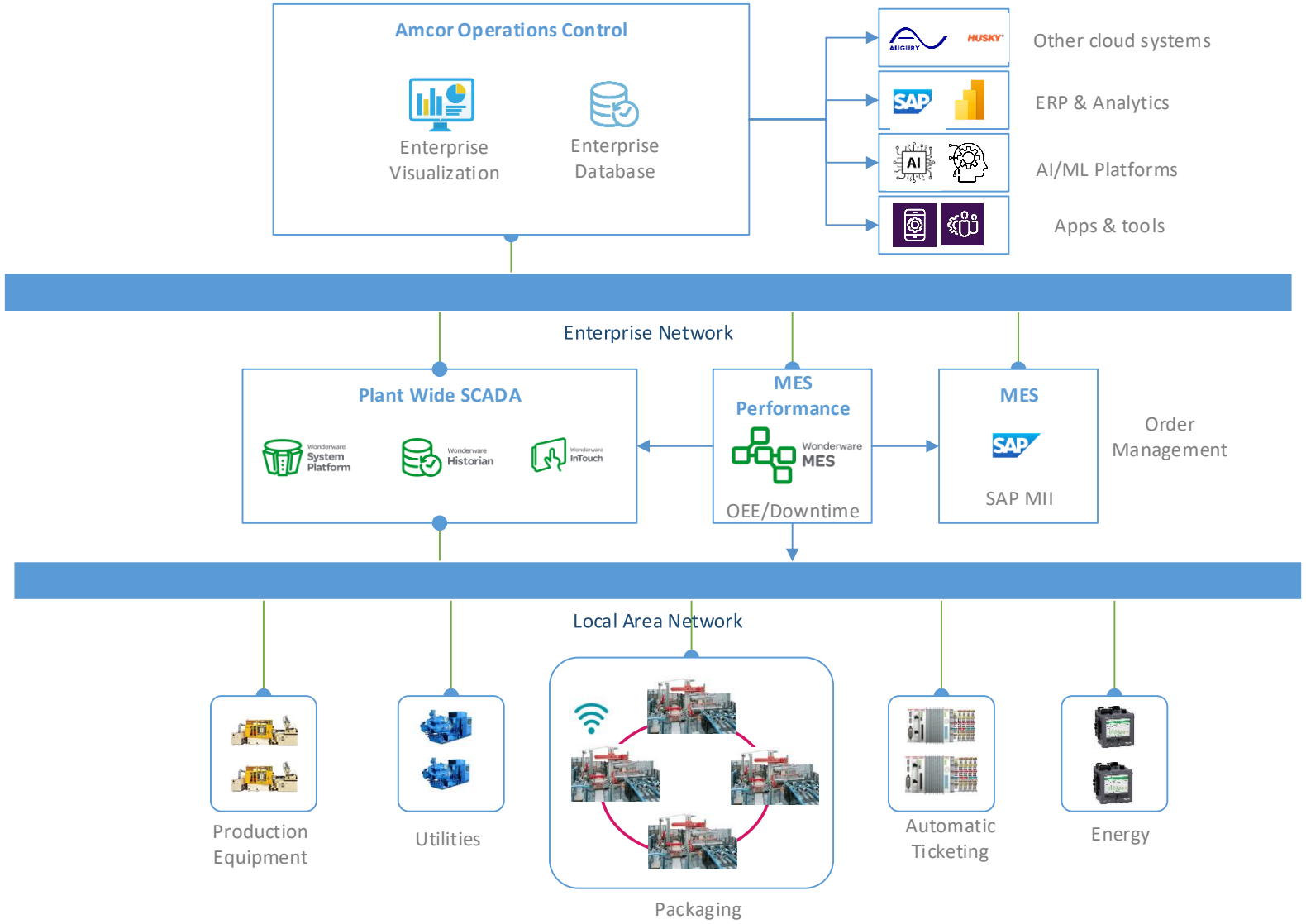
- TRADITIONAL SCADA SYSTEM
- NON-STANDARD GRAPHICS
- DATA INCONSISTENCIES



AMCOR TODAY

UNIFIED OPERATIONS

- Incorporation of AVEVA MES
- Standardization of Graphics and Reports
- Enterprise Integration
- Merging energy and production databases to track energy performance: kWh/kg
- 258 MES entities deployed through the sites



How did we get there?

Journey to a successful execution

Identifying	Identifying the most critical assets where value can be captured • Injection Molding – Cycle time loss • Blow Molding – Micro stops < 3minutes
Partnering	Partnering with Q-mation and AVEVA with: • Creating standard MES objects and graphics • Licensing agreement • MES and System Platform Training
Building	Building a training program for Automation • Identifying talent on each facility • Leveraging training and support agreements

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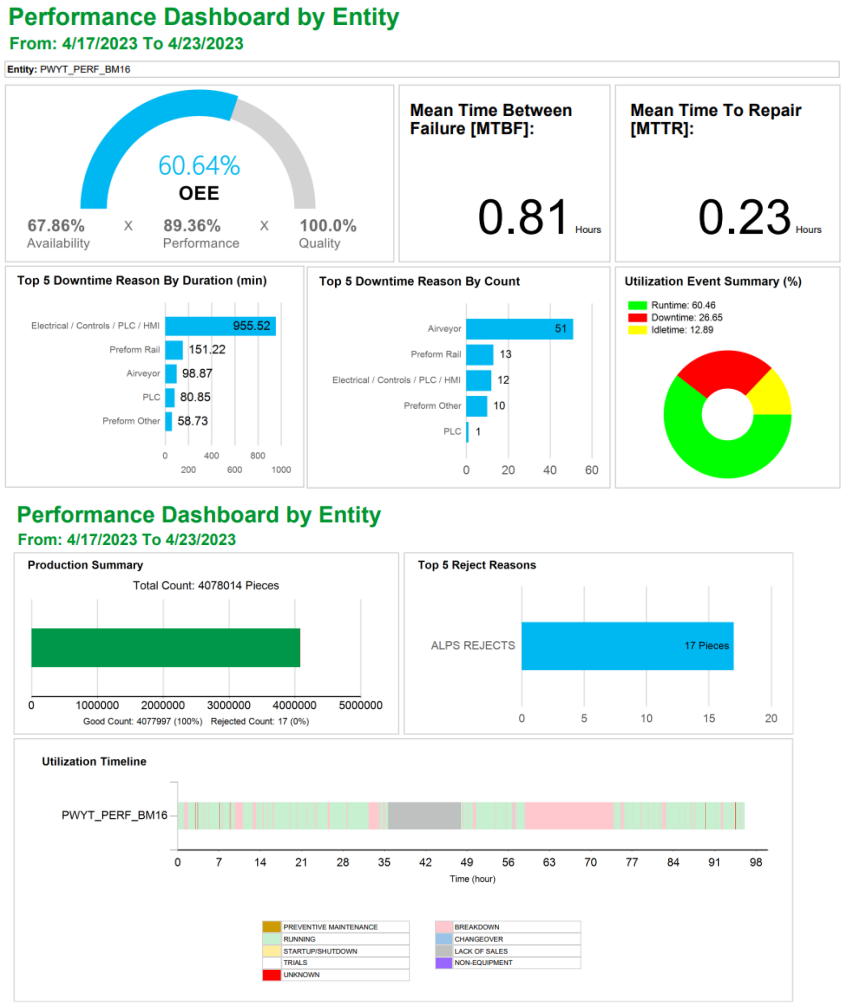
Smart Manufacturing is about “Real-Time OEE”

Benefits

- Real-time visibility of equipment utilization, performance and quality.
- Downtime Management
  - Unified Interface to manage scheduled and unscheduled downtime
  - Capturing every stop from the machine
- Order Management
  - Fully integrated with ERP
  - Accurate nameplate and production Information
- Automatic Reporting
  - Top 5 downtime in pareto charts



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Packaging | NORTH AMERICA

Amcor Digital Journey

Built a sustainable program for local support and growth, leveraging vendors and partners

Challenge

- Lack of visibility into operational data. How do we monetize it?
- Manual data sharing and reporting processes led to information mislead
- Needed to build standard framework to facilitate data collection, sharing, and analysis

Solution

- Deployed AVEVA™ Manufacturing Execution Systems™ and AVEVA System Platform to improve real-time visibility, standardize data structure, and reporting KPIs.
- Defined an architecture for enterprise reporting and analytics.

Results

- **Improve OEE by 2% YoY in Blow Molding, by capturing the micro stops**
- **3% improvement in production cycle time**
- **Increase visibility of PM and changeover effectiveness**
- **Reduce operator manual entry and improve downtime reporting**
- **Full visibility of asset utilization and Energy performance**
- **Standard data structure to support analytics and AI**
- **Automated and continuous commissioning of new assets**

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A guide to a successful project

Conclusion

- Business value must lead what technology you apply
- Build a talent foundation around your program
- New business models do not happen in the ERP layer first
- Standardize before you digitize
- Leverage your vendors and partners
- IT is your “best” friend

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“Digital Transformation is not a destination, but a journey”

Sachin Lulla

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Questions?

Please wait for the microphone.

State your name and company.

Please remember to…

Navigate to this session in the mobile app to complete the survey.

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Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

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