

Transformación Digital Industrial

Emerson | Esri | SAP | MDE Network



Plantweb Digital Ecosystem

Héctor Leiva & Pierre de Lamberterie
Emerson International Center of Excellence - Chile

July 6, 2017





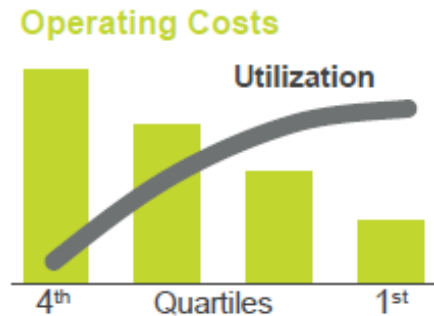
- Many common Customers
- Customers that demand a global reach
- Emerson's Pervasive Sensing is a fundamental data source
- Emerson provides Applications and Consulting expertise leveraging value from the OSI data
- Enterprise Data Infrastructure
- Real-time data access
- Initially a Technology Provider, now Global Encompass™ Partner
- Enterprise selling – value of data driven decision making

Emerson Focus: Industry Benchmarks Reveal Significant Business Improvement Opportunities from Average to Top Quartile Performers

Production

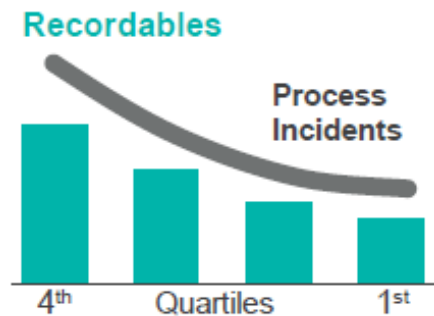
20% lower
operating costs

10% higher
Utilization Rate



Safety

3X fewer
recordables
and process incidents



Sources: Refining and Petrochemical Benchmarks, API, Solomon, OSHA, IHS Markit and Company Reports

Reliability

4% higher
availability

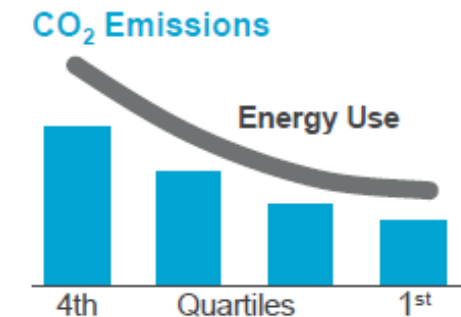
Half the
maintenance costs



Emissions

30% lower
emissions

30% less
energy use



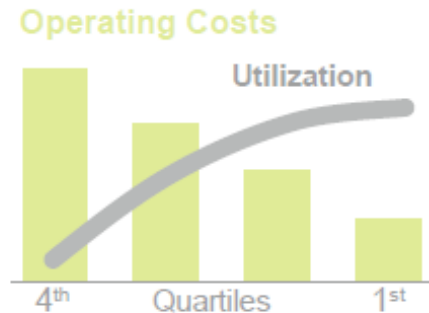
Emerson Proprietary

Emerson Focus: Industry Benchmarks Reveal Significant Business Improvement Opportunities from Average to Top Quartile Performers

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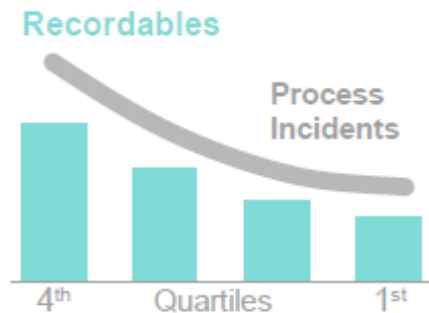
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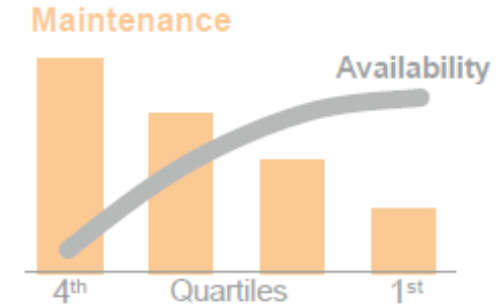
Sources: Refining and Petrochemical Benchmarks, API, Solomon, OSHA, IHS Markit and Company Reports

Approximately **ONE TRILLION DOLLARS**
in company value is lost every year to suboptimal operating performance

Reliability

4% higher
availability

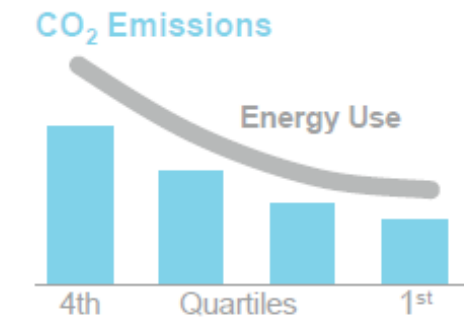
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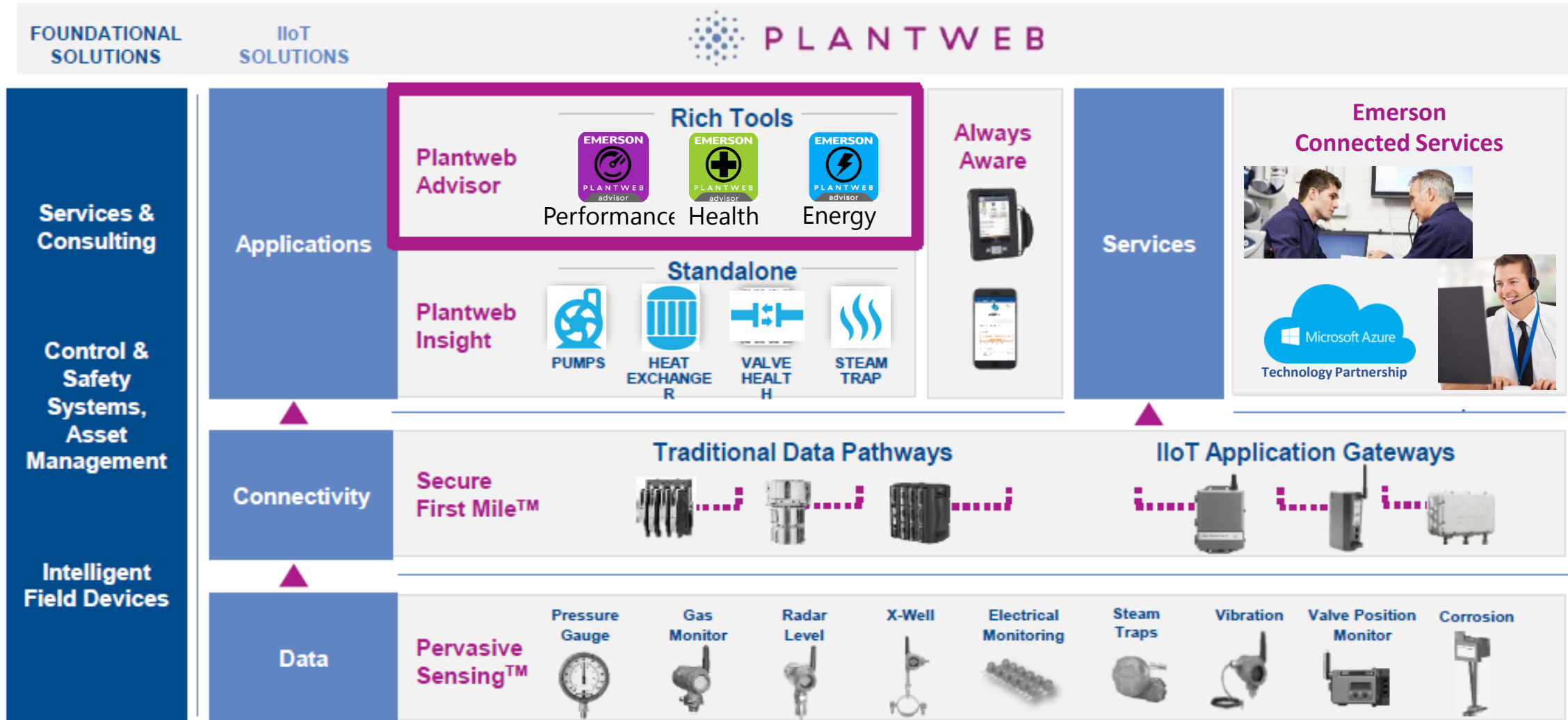
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The Emerson Plantweb Digital Ecosystem



The Emerson Plantweb Digital Ecosystem

Our A



Applications

Rich Tools

Plantweb Advisor

EMERSON PLANTWEB advisor Performance Health Energy

EMERSON PLANTWEB advisor Other Industries ADVISOR PULP & PAPER ADVISOR MINING ADVISOR

Plantweb Big Data & Analytics

EMERSON PLANTWEB advisor Analytics CEI Piliar™

Plantweb Insight

EMERSON PLANTWEB PUMPS HEAT EXCHANGER VALVE HEALTH STEAM TRAP

Emerson Connected Services



Microsoft Azure

Technology Partnership

Data & Connectivity

Pervasive Sensing™ Secure First Mile™

Emerson Enterprise Suite for Equipment Analytics

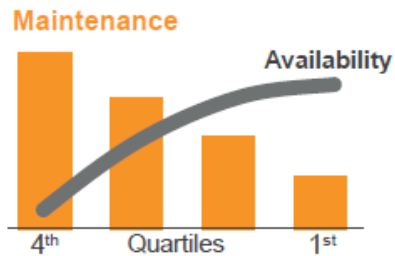
Health Advisor (Actual v.s. Baseline)



Reliability

4% higher
availability

Half the
maintenance
costs



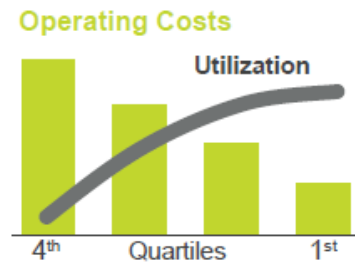
Performance (Actual v.s. Nominal)



Production

20% lower
operating costs

10% higher
Utilization Rate



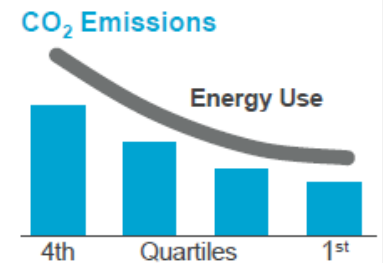
Energy (Actual v.s. Target)



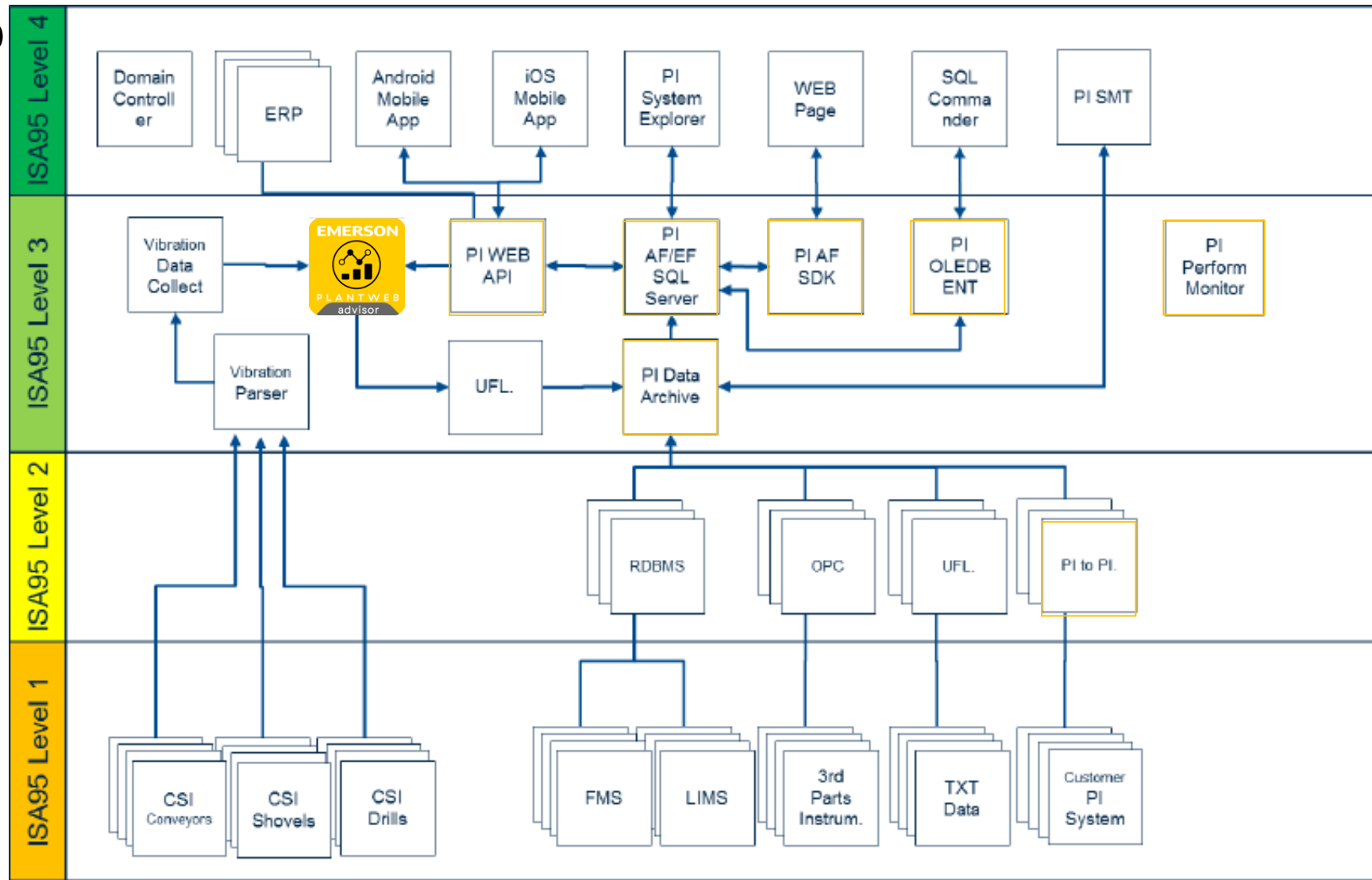
Emissions

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emissions

30% less
energy use



Emerso



Video: Advisor for Mining

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Final remarks

- The Advisor Suite presented is the highest Emerson IIoT Application and it is based on PI System.
- Preconfigured Applications which combine Process and Asset data to enable remote management of Overall Asset Health and Performance.
- Available on-premise and in the Cloud for Customer use or Connected Services.
- Incorporates Predictive Intelligence: Advanced Analytics and Machine Learning.
- Plantweb™ Advisor Applications are IP protected and Emerson proprietary.

Acknowledgement

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Proyecto apoyado por



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Thank You

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