Integration & Transformation of Data for Analysis & Quality Control in Real Time

Josue Fernandez

Kimball Electronics
Lasting relationships. Global success.

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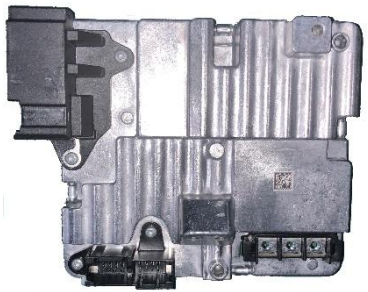
Kimball Electronics

Who We Are?

- Leading contract manufacturer
- Serve Markets: Medical, Industrial, Public Safety, Automotive



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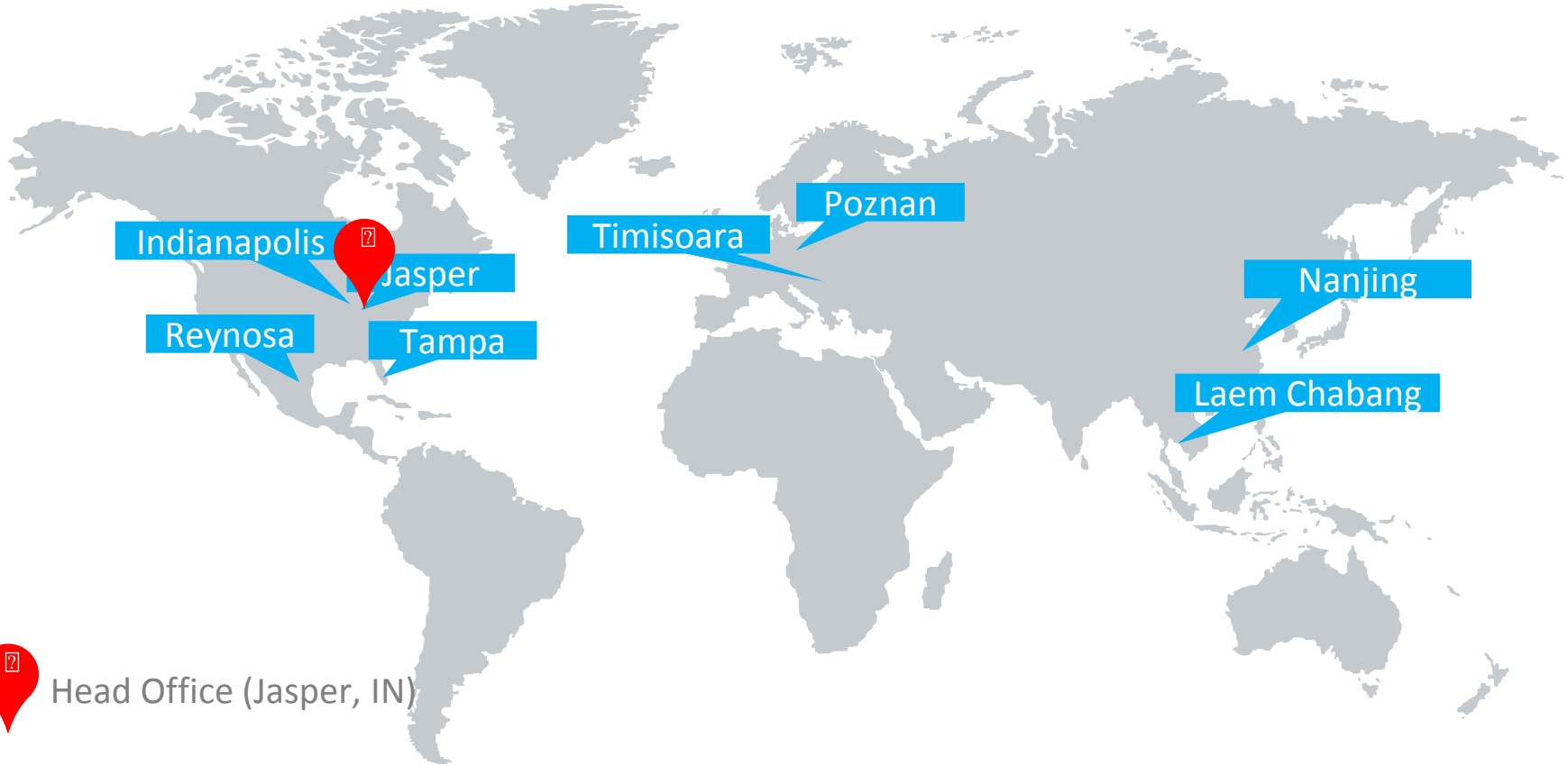
Kimball Electronics Facilities



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Kimball Electronics Capabilities

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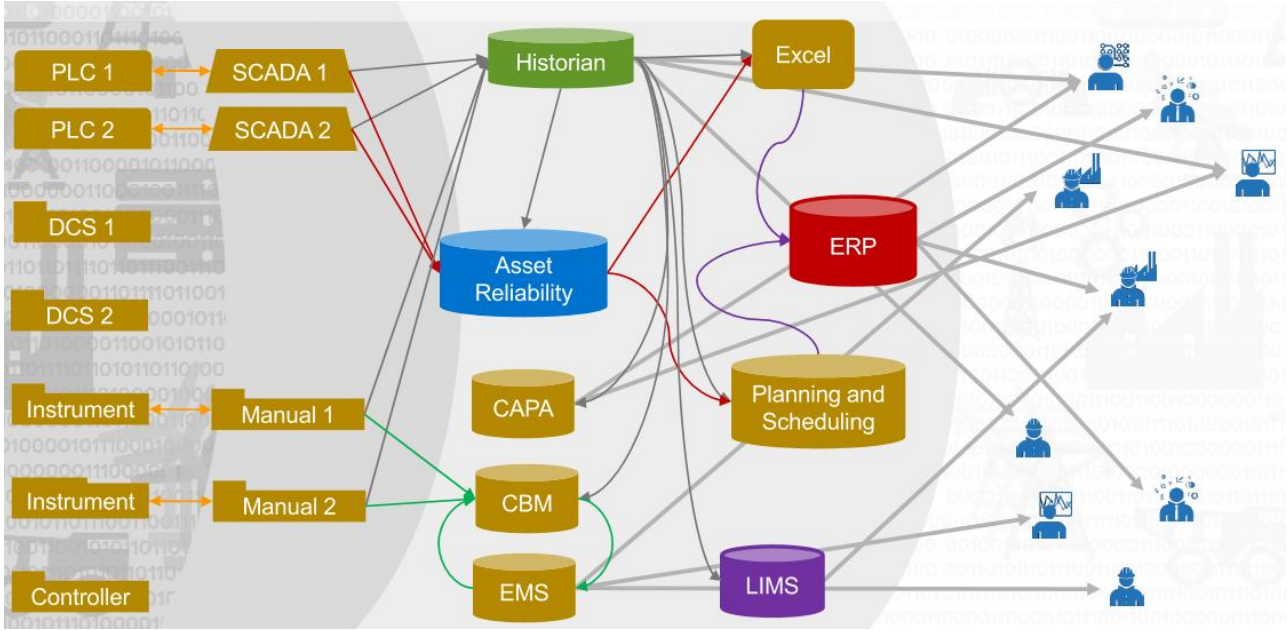
Our Challenge

- Equipment has its own software to monitor itself, but data is not shared.
- Several systems managing different things and no correlational analysis can be done easily.
- Statistical analysis need to be done manually after extracting data from the equipment.



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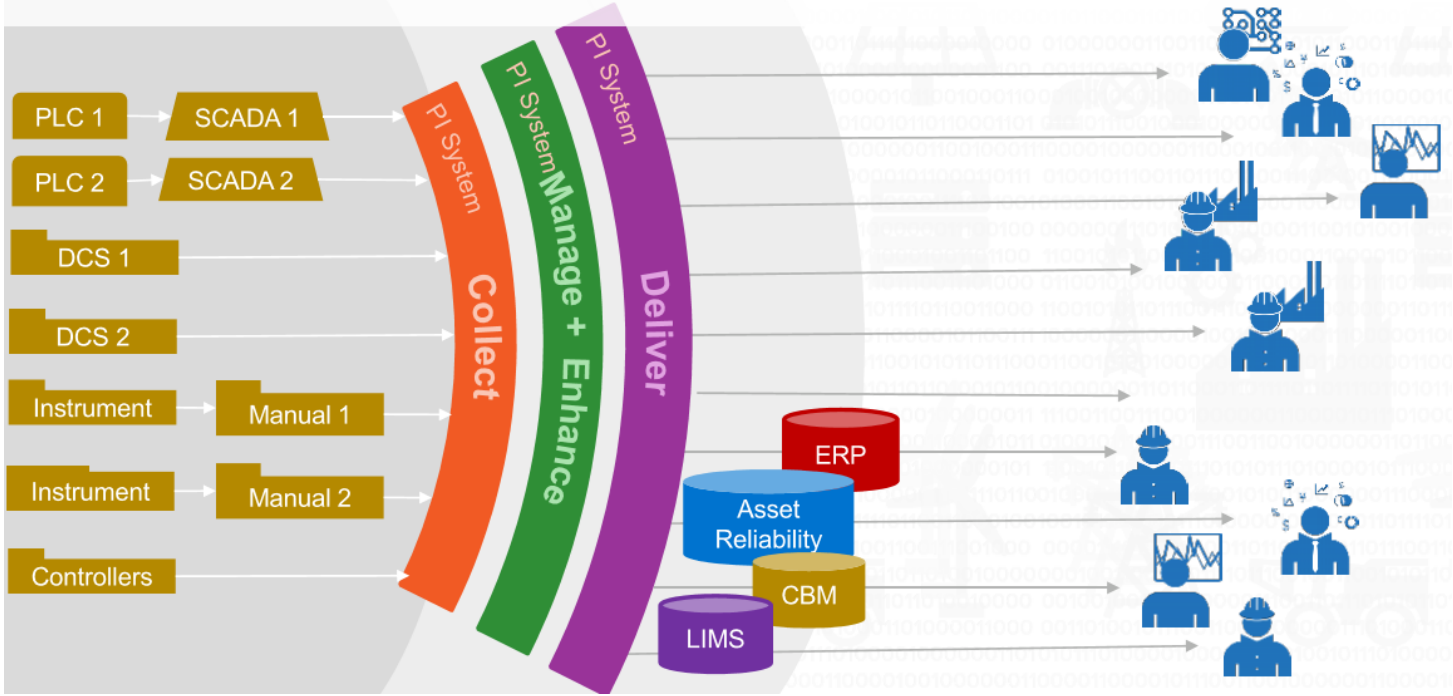
The Proposed Solution

Use PI System as a centralized repository for all data.



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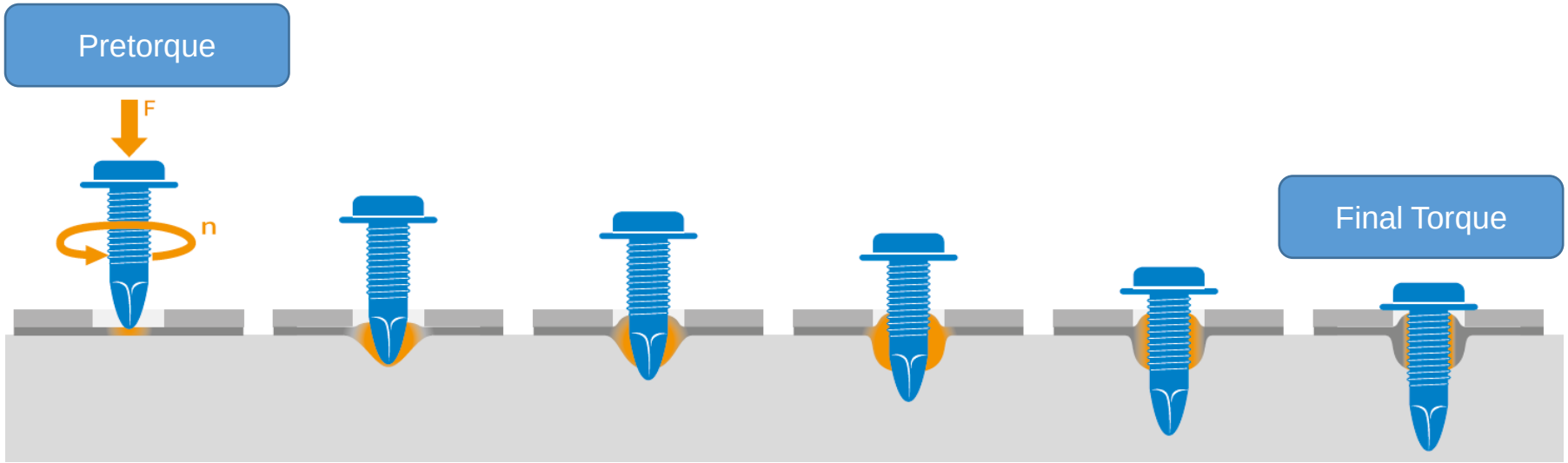
Example

$$Real\ Torque = Final\ Torque - Pretorque$$



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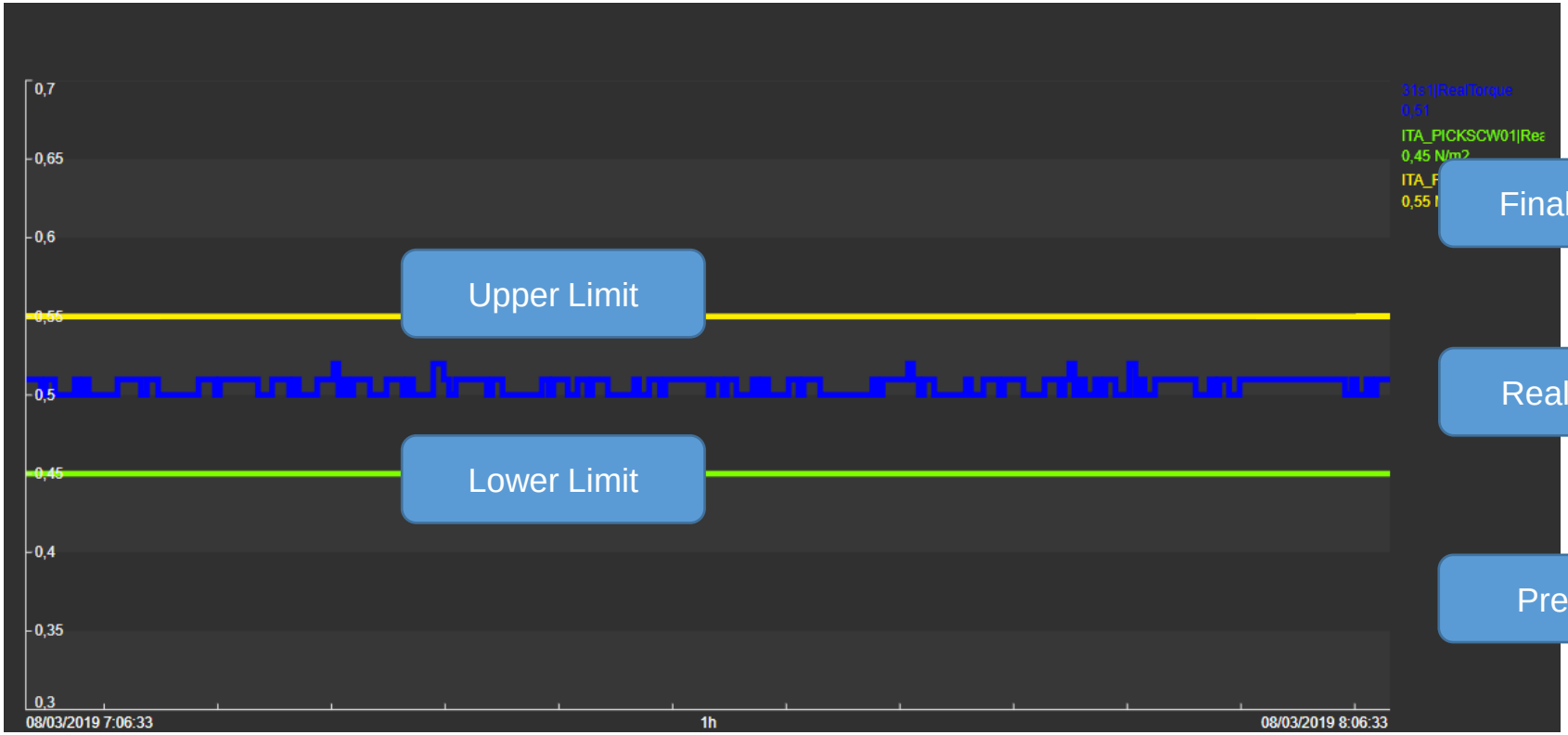
Example



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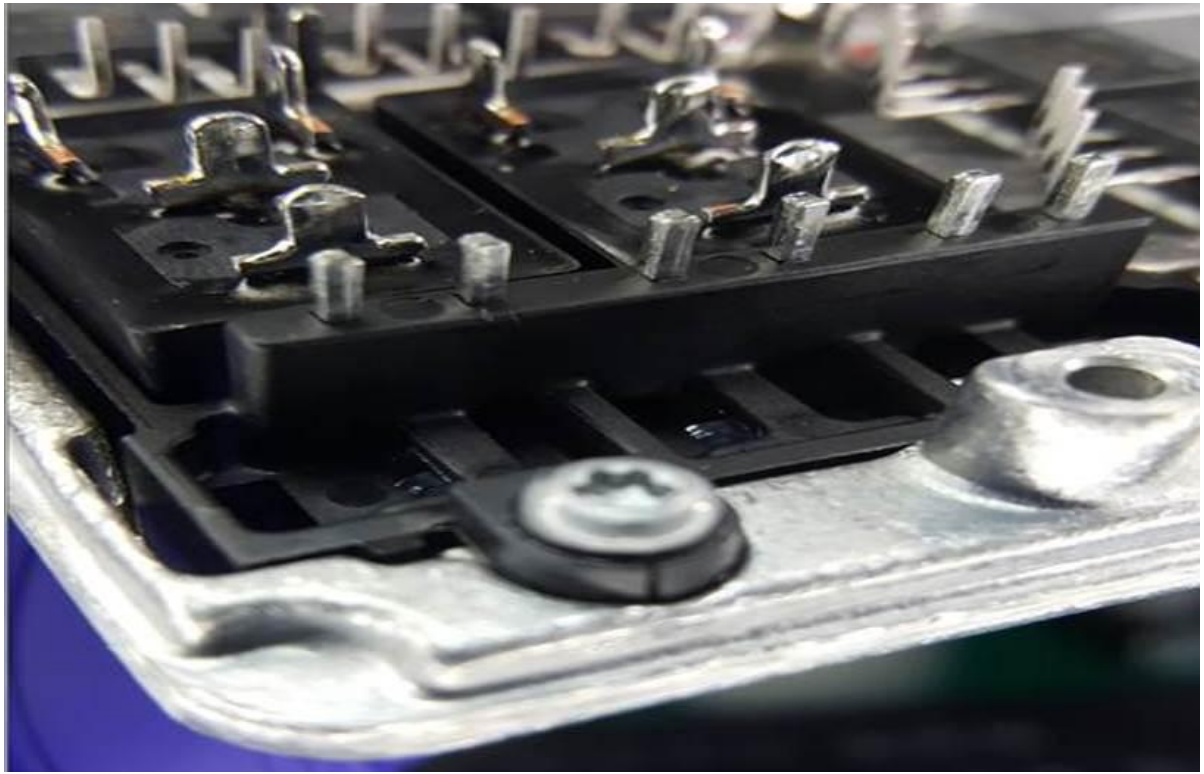
Example



- Customer complaint: broken connector
- Unit was manufactured 6 months ago.
- Unit passed all our controls
- Our Traceability system says it passed all the tests

How did this happen?

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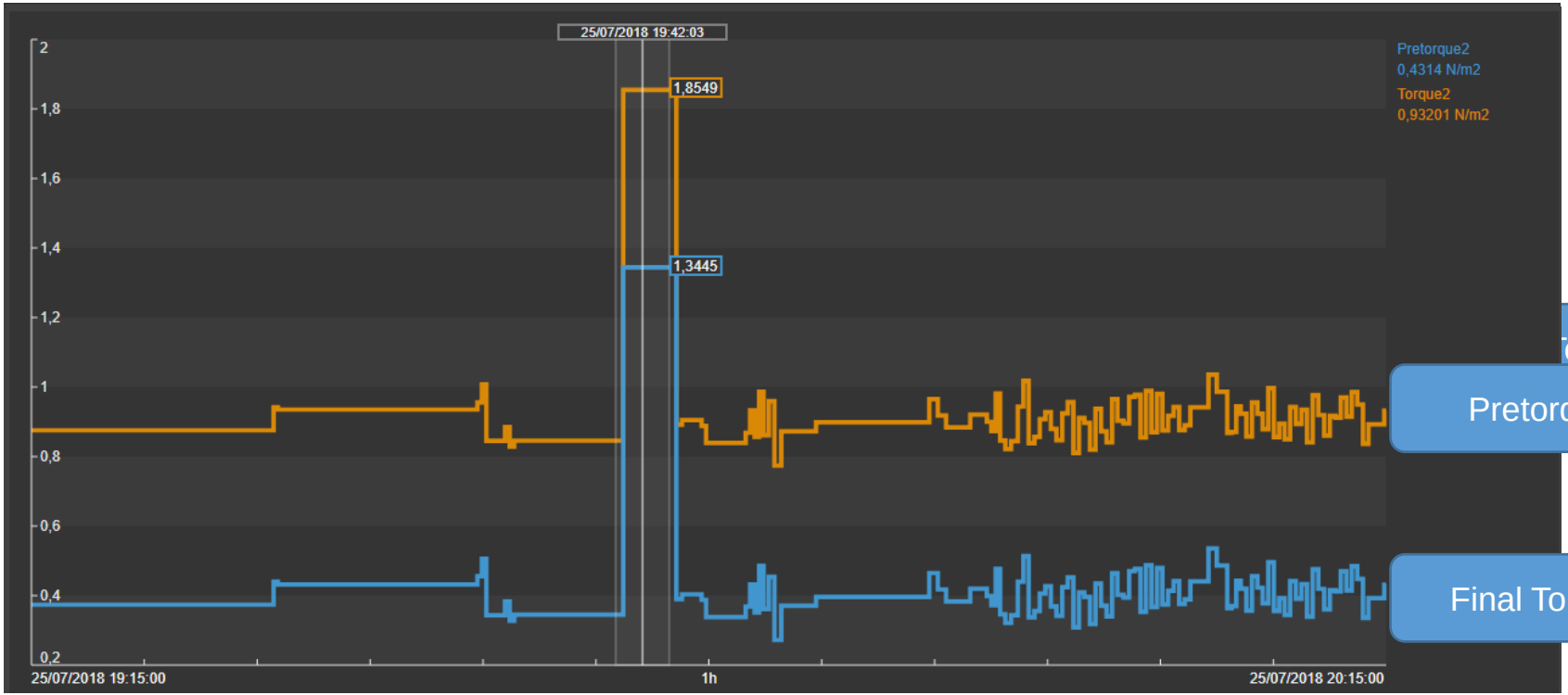
Example



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Result

- Identified easily the scenario that generated this failure
- Took action and added a new control
- Saved $50k to $100k in sorting material at customer facility
- Saved time in root cause analysis

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Benefits using PI System

Real Time Data

Sharing Data

Analytics Tools

Compression

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Speaker

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- IT Manager
- Kimball Electronics
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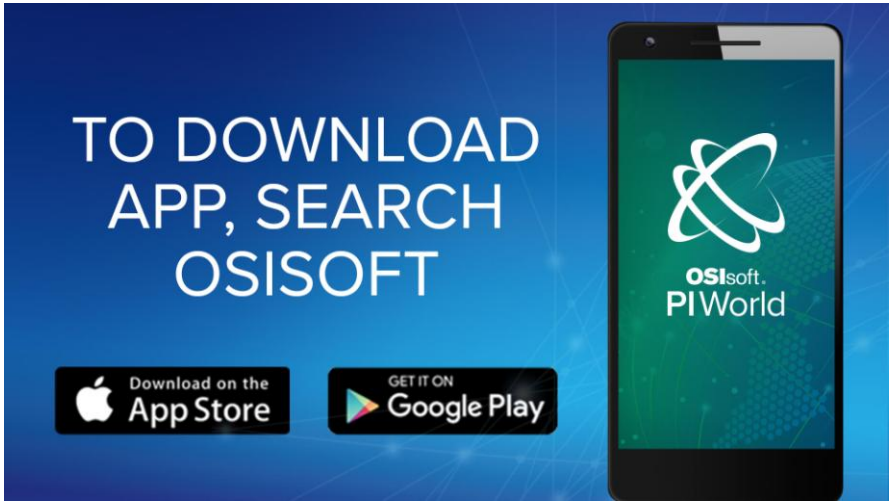
Questions?

Please wait for the **microphone**

State your **name & company**

Please remember



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