EMPOWER YOUR ANALYTICS WITH OPERATIONAL DATA
2019 OSISOFT NEW DELHI SEMINAR

The PI System:
Empowering People to do Successful Analytics

Praveen Jadhav, Country Manager

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Our Vision: Data Infrastructure from Sensors to Community

Sensors	Assets	Plant	Enterprise	Community
Millions of **Smart Devices**	Multiple **Sensors**	Multiple **Assets**	Multiple **Plants**	Multiple **Enterprises**

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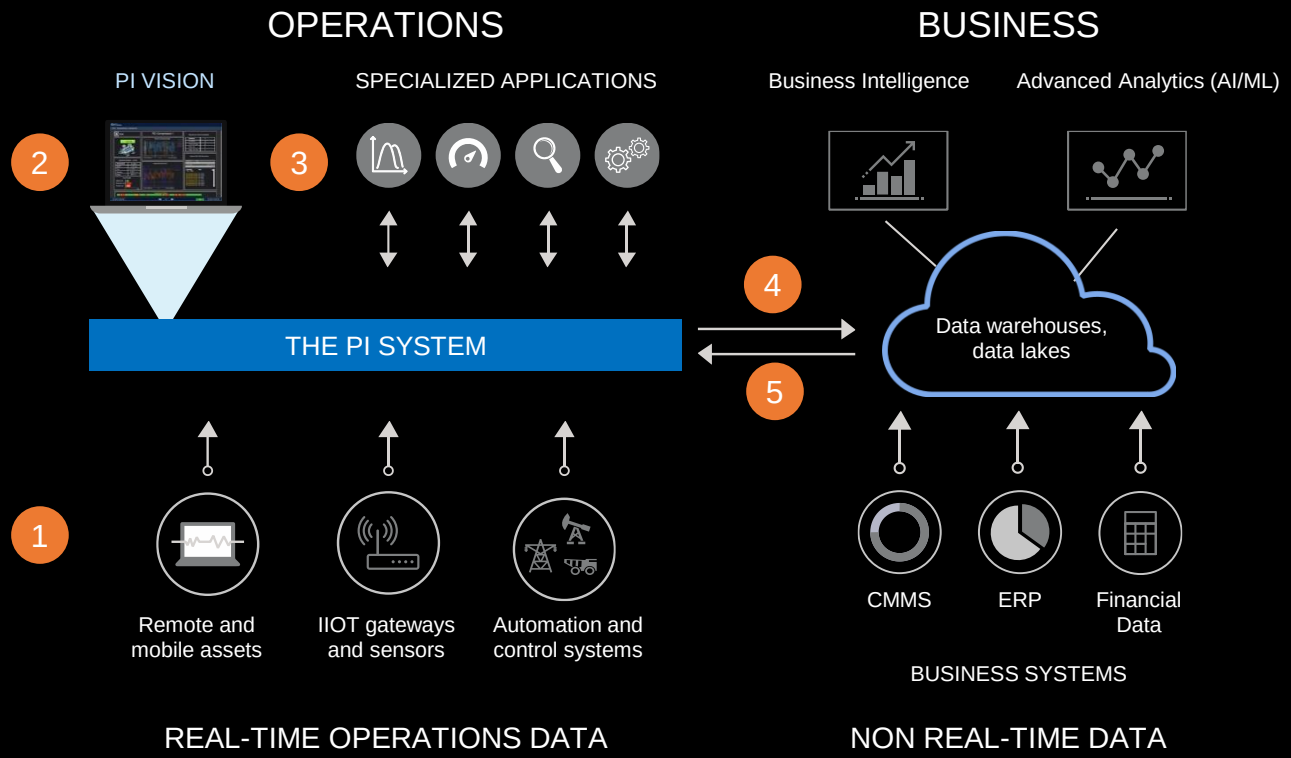
The Enterprise Role of the PI System

1. Consolidate Operations Data
2. Create Real-time Dashboards
3. Layer Specialized Applications
4. Integrate OT Data to Enterprise
5. Validate & Operationalize Insights



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Translating the Megatrends for Critical Operations

Cloud

IoT

AI

Data platforms & scale are changing

Operations data scope is increasing

Data consumers are changing

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The pundits say the world is changing

ZDNet

How IoT can transform four industries this year

Healthcare, manufacturing, automotive, and public sector set to see big changes.

By Bob Violino | March 27, 2019 -- 12:28 GMT (05:28 PDT) | Topic: Innovation

ZDNet

Artificial intelligence: Not the apocalypse, more of an invisible assistant

AI probably won't end the world - and might even take some of the stress out of your life.

By Colin Barker | March 28, 2019 -- 13:02 GMT (06:02 PDT) | Topic: Collaboration

Forbes

8,373 views | Mar 21, 2019, 01:23am

Why Every Company Needs An Artificial Intelligence (AI) Strategy For 2019

Bernard Marr Contributor

Enterprise & Cloud

Forbes

17,195 views | Mar 29, 2019, 01:23am

Artificial Intelligence Can Now Write Amazing Content -- What Does That Mean For Humans?

Bernard Marr Contributor

Enterprise & Cloud

Forbes

4,872 views | Feb 25, 2019, 04:36am

The Top 6 Ways That Artificial Intelligence Will Affect Your Business In The Near Future

Lilach Bullock Contributor

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When it comes to preparing data …

… there are so many versions of the “truth”!

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Industrial Operations have
new and very old
equipment with
varying types of measurements…

… using code or manual processes
to connect and normalize
across equipment models
adds to data preparation time

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Engineers and Operators will question the validity of a machine learning algorithm that looks like a “black box”

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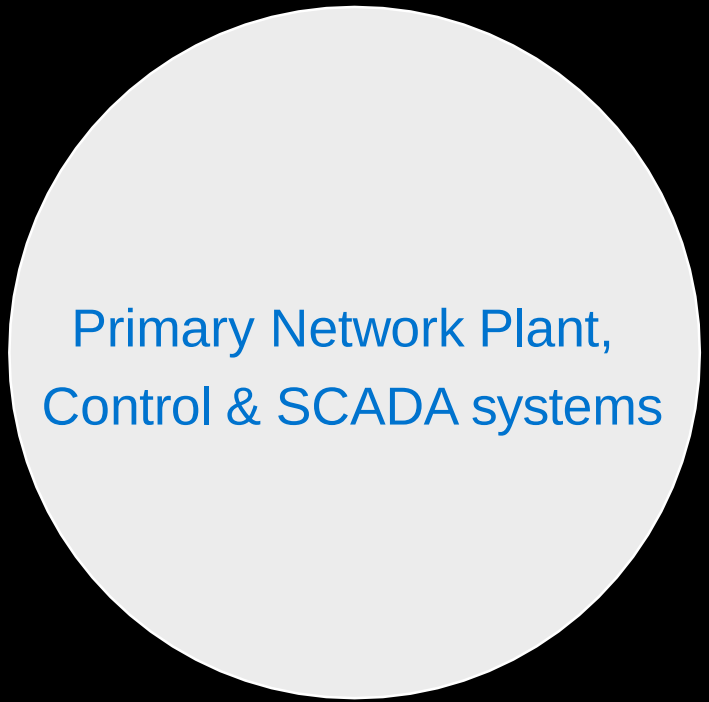
Defining IoT



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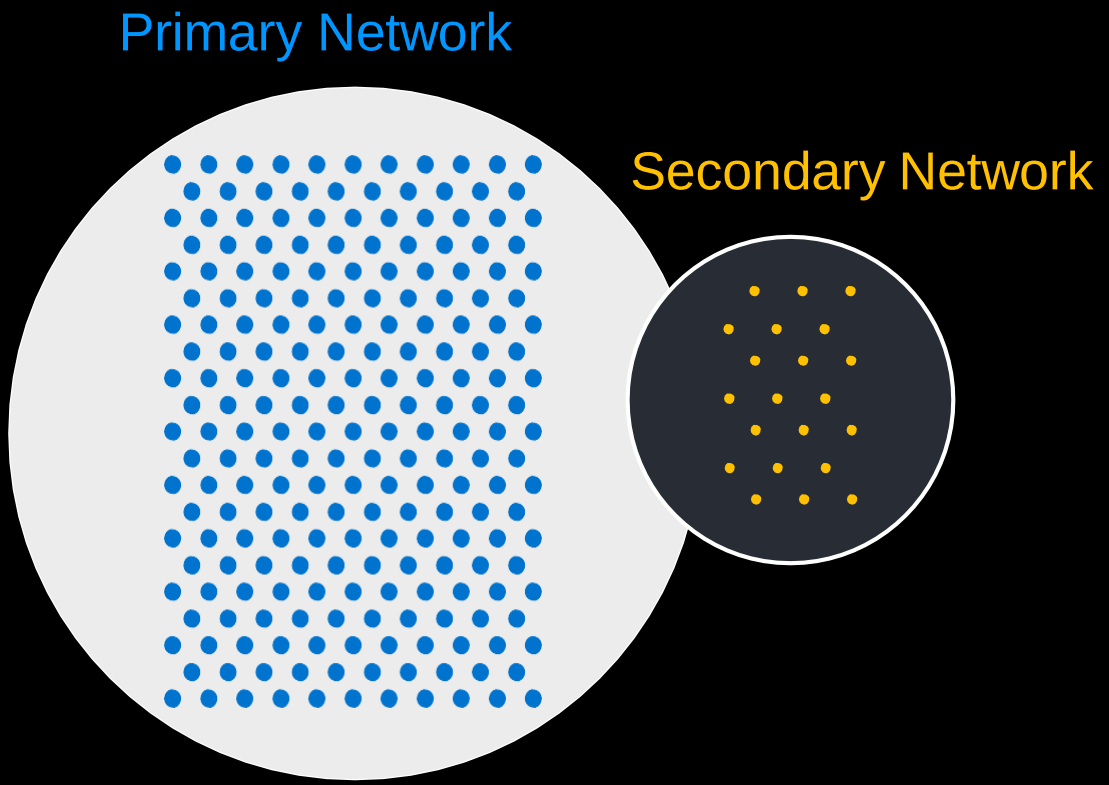
The reality of new sensors today



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The promise of data science and AI

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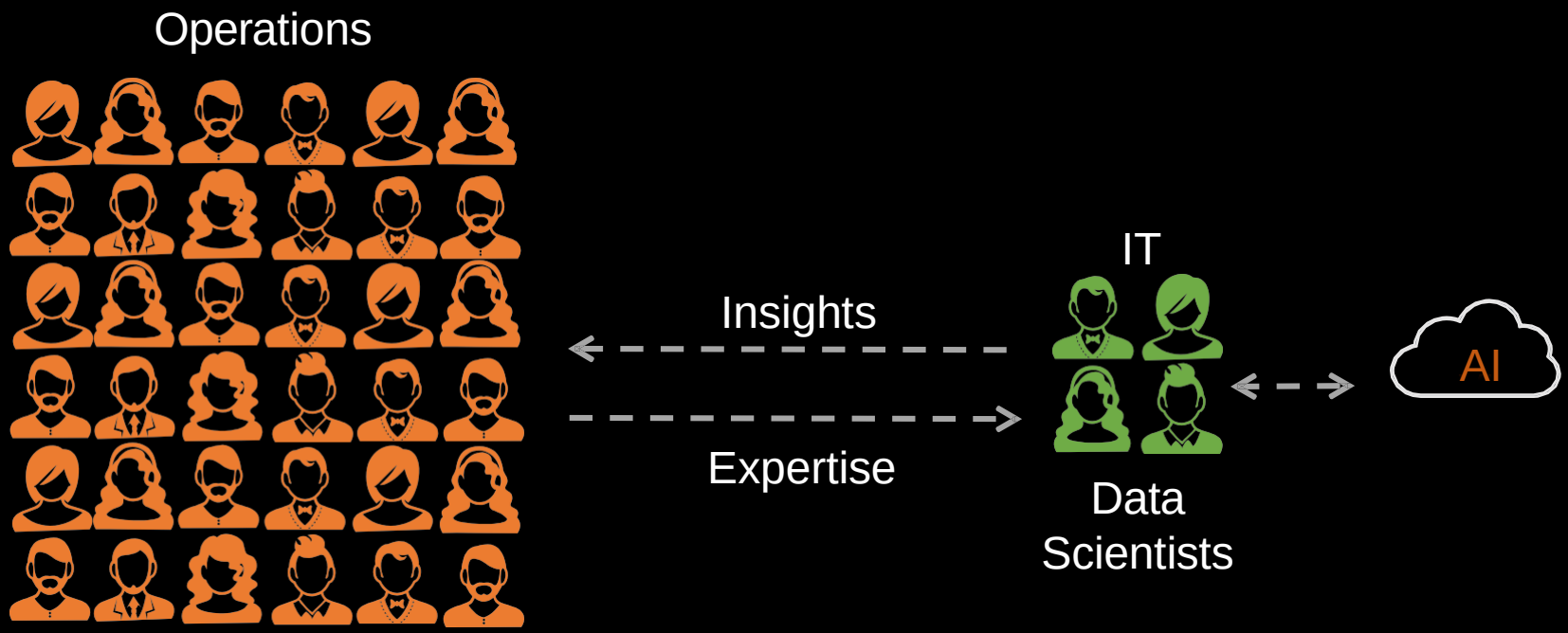
Reality of data science today



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Time-series Data Is Not Naturally Aligned

Turbine 1

Speed

Bearing Temp

Oil Temp

Turbine 2

Speed

Bearing Temp

Oil Temp

Wear Factor

… remember *this* when you combine **time-series data** with **business data**!

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Where do I **start**?

or

Where are the **quick wins**?

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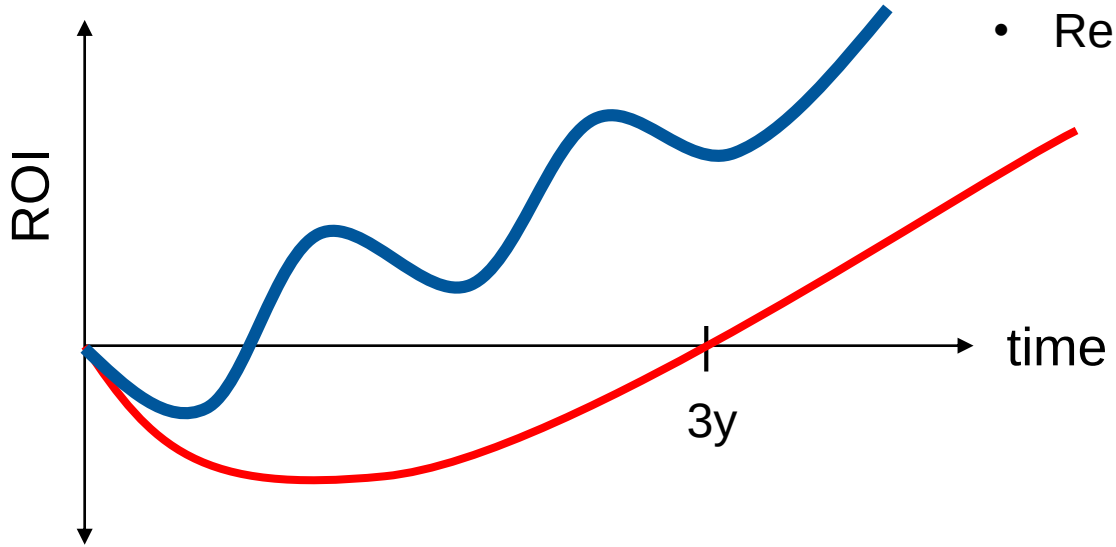
Small Projects Propel Success for a Large Project



Must-have project characteristics

- Subject matter expert included
- Sufficient business value
- Related to a larger initiative

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Takeaways

Start with small data to de-risk analytics projects

Leverage initial success as foundation for next project

Include SMEs to increase chance of success & adoption

Set goal as a business outcome that's significant enough

PI System offers many ways to accelerates analytics projects

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People with data can transform our World

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