

What is the PI System?

Mark McCoy

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Architect

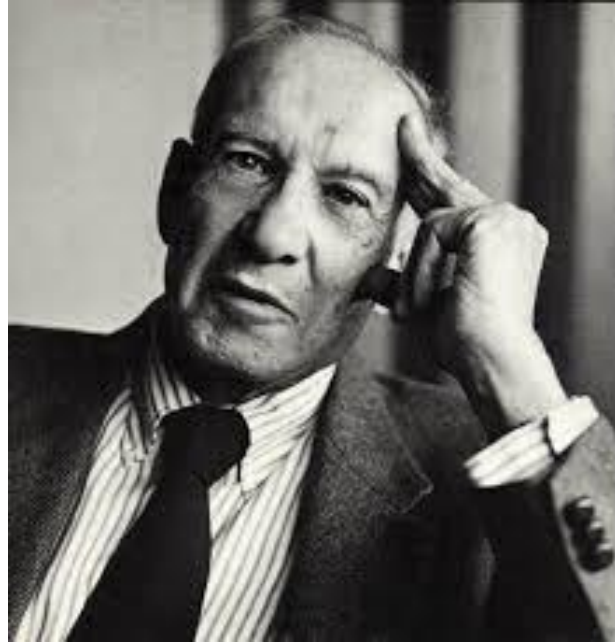
March 11, 2016



OSIsoft - The PI System

Decreasing the Cost of Curiosity

“The important and difficult job is never to find the right answers, it is to find the right question”

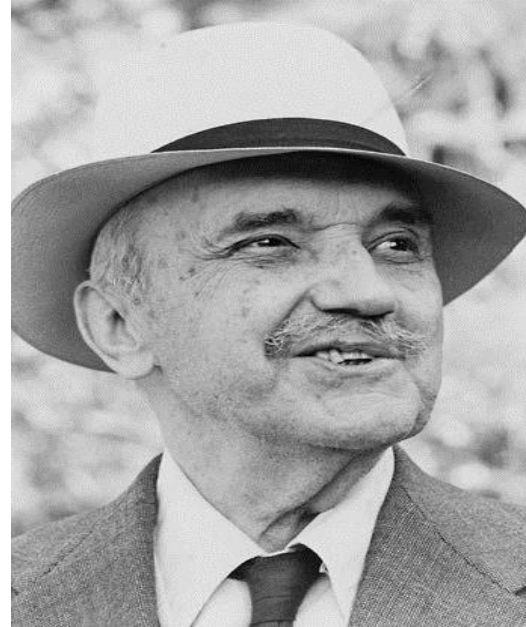


Peter Drucker,
The Practice of Management



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“Those Who Do Not
Learn From History
Are Doomed To
Repeat It.”



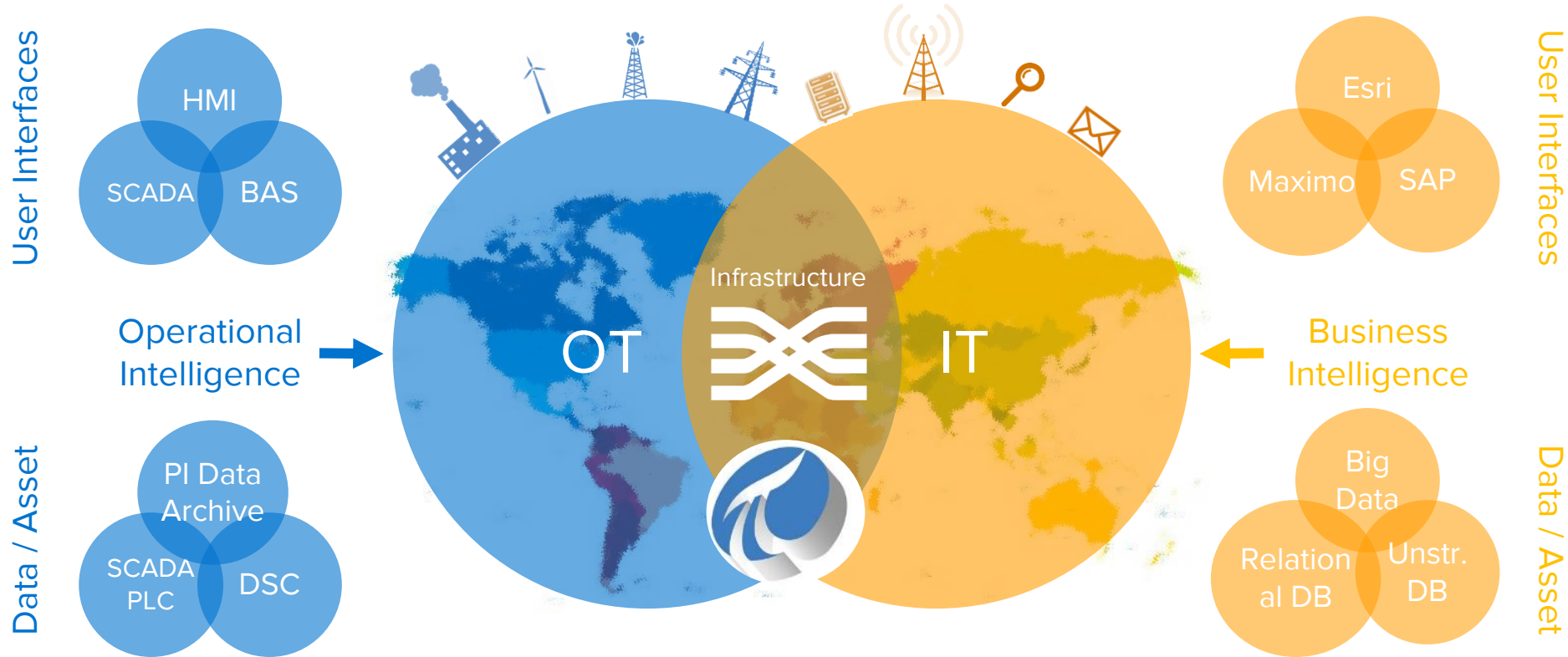
George Santayana
(1863 – 1952)



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Infrastructure Context Joins Enterprise Data

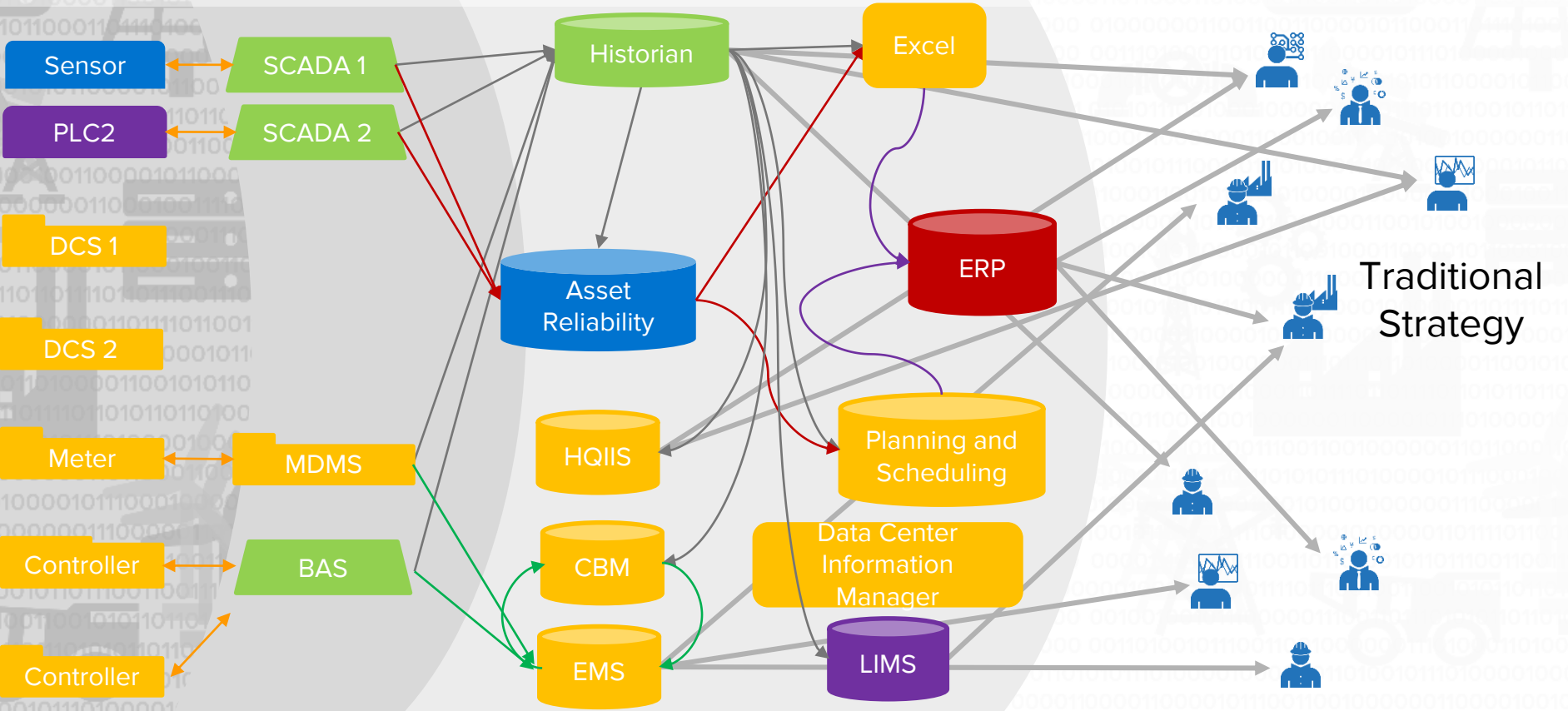


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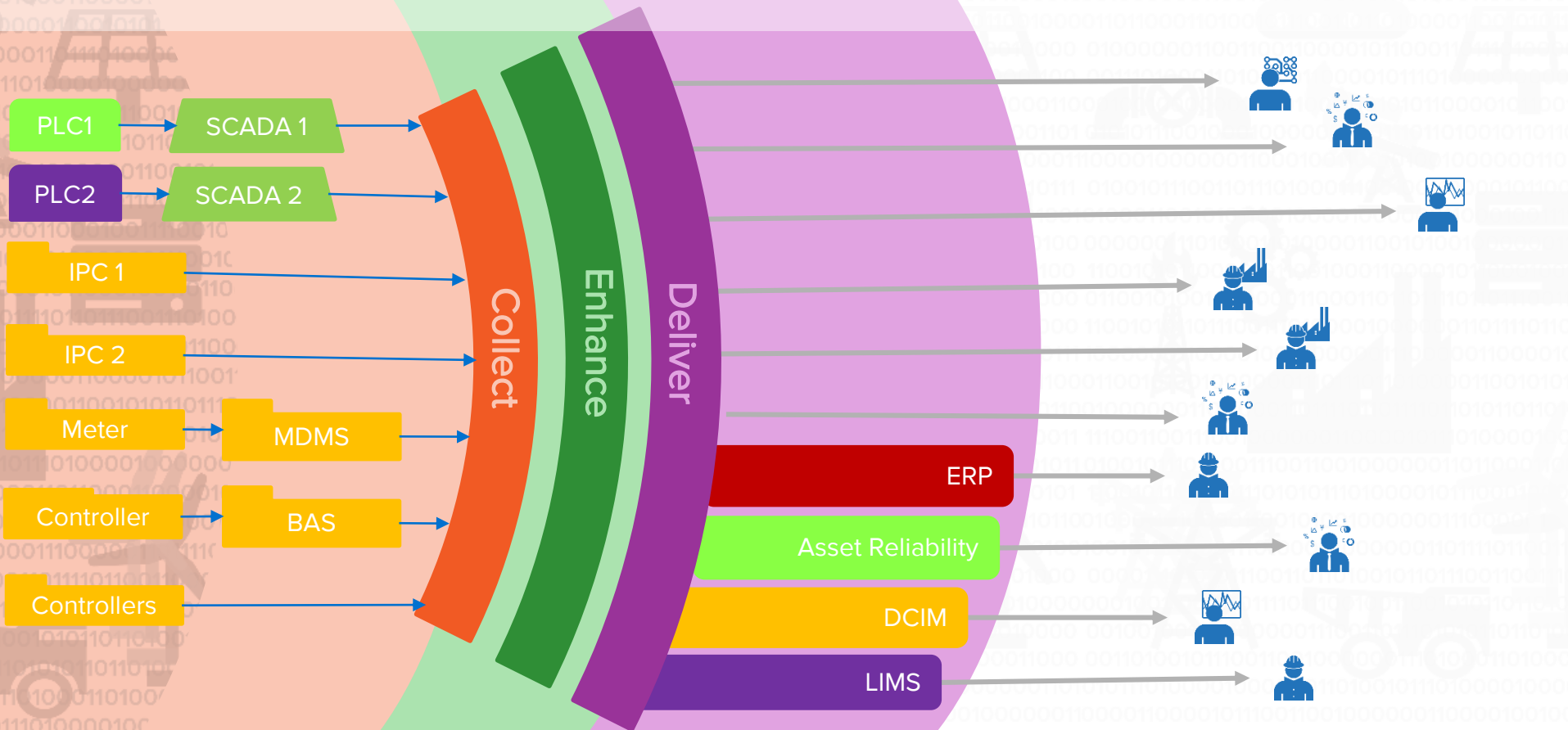
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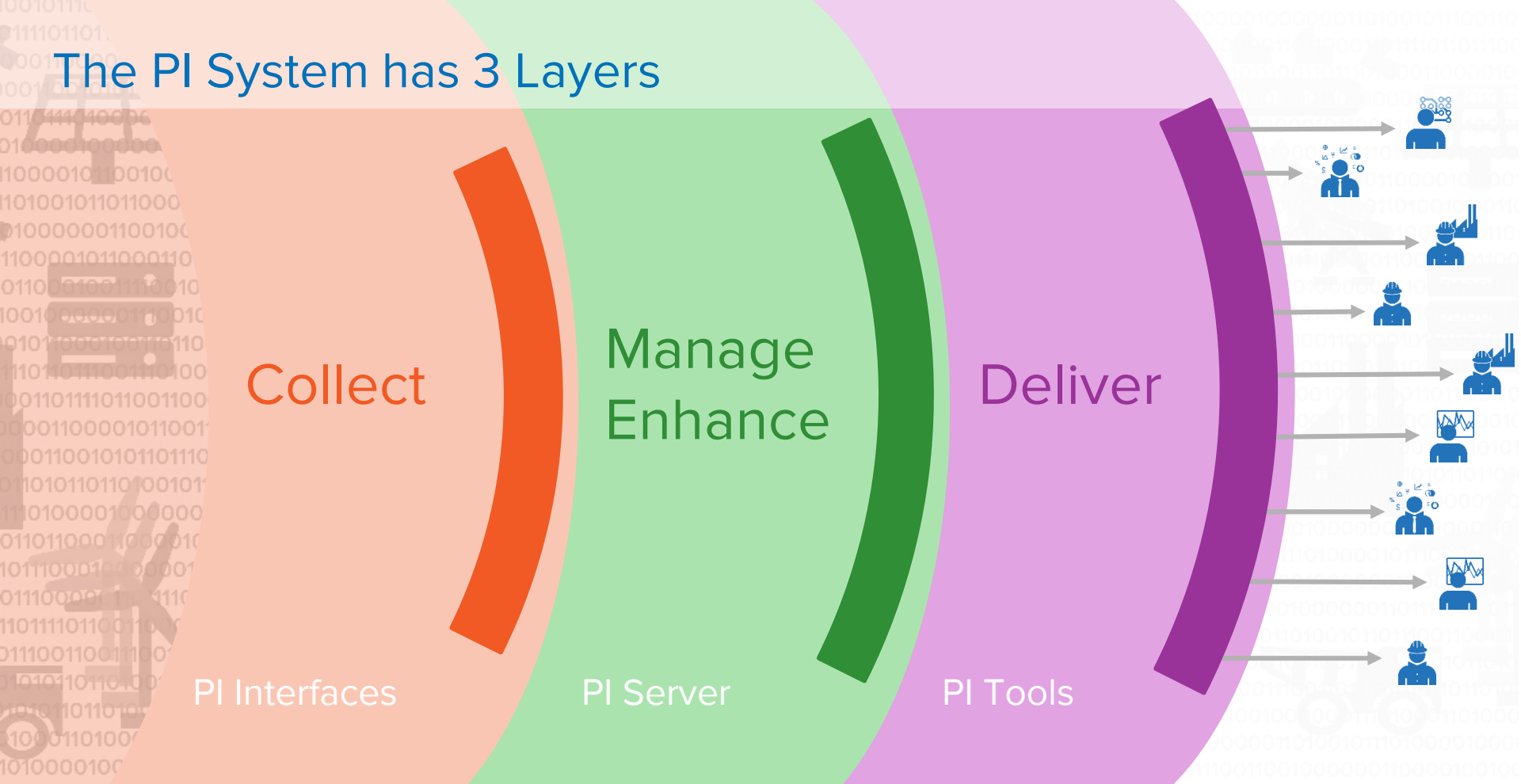
Silos to Standards / Complexity to Simplicity



Silos to Standards / Complexity to Simplicity



The PI System has 3 Layers



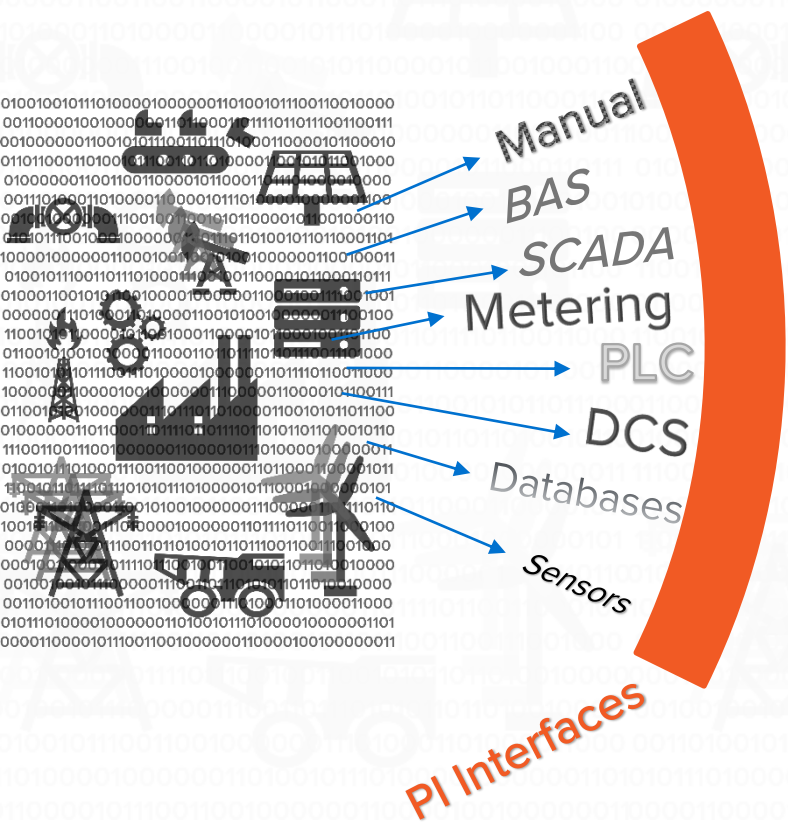
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Pervasive Connectivity

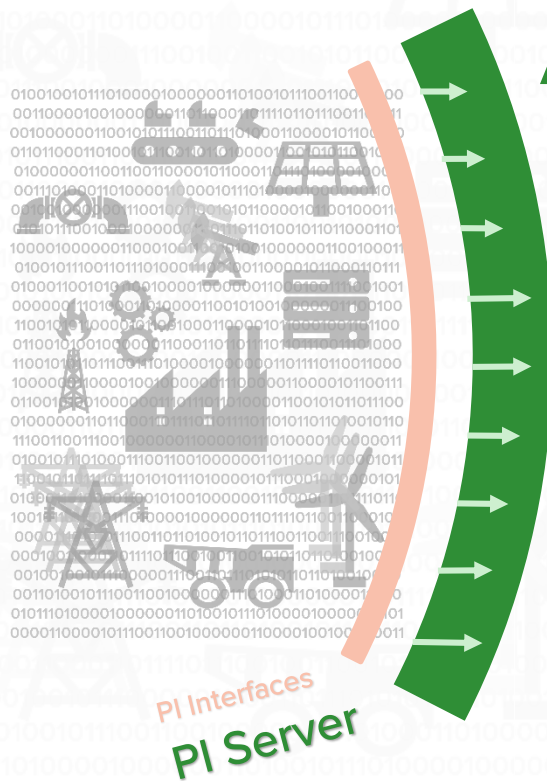
PI Interfaces



Directly connects to more data sources than any other operational data collection system

Proven Engine

PI Server



A PI Server is:
System of Record
Real-time Processing
Data Calculations
Alerting Engine
Metadata Layer
Event Tagging

COMMON PI SERVER
~20 M WRITES/DAY

BIG DATA CLUSTER
100+ MACHINES
9 B WRITES/DAY

HIGH PERFORMANCE
PI SERVER
43 B WRITES/DAY

Enhance your data

Real time capabilities



Fits your users

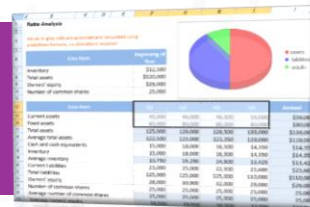
PI Visualization Tools

PI Interfaces
PI Server
PI Tools



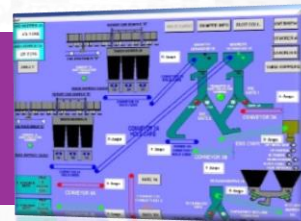
PI DataLink
Access data from Excel

Video: What is
PI DataLink



PI ProcessBook
Visualize process in real time

Video: What is
PI ProcessBook



PI Coresight
Anywhere, Anytime

Video: What is
PI Coresight



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Boundless

Open data export



PI Integrators

Move data between business and geographic boundaries.



PI System Access

Programmatic access to build anything on PI



Partner Applications

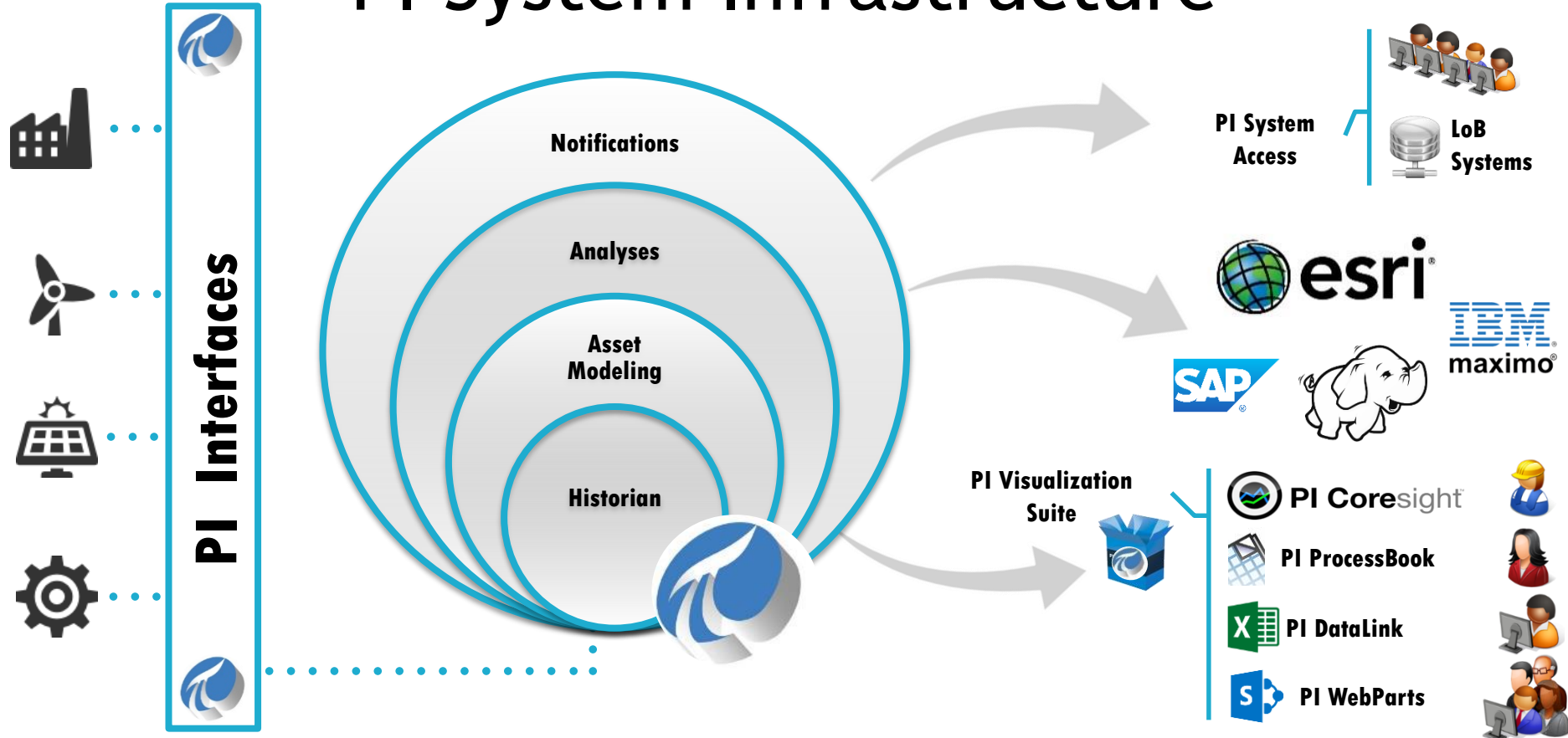


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PI System Infrastructure



Challenges of Data

Nowadays people
know the price of
everything and the
value of nothing



Oscar Wilde (1854 - 1900)

It is a very bad thing
that nowadays there
is so little useless
information



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Thank You



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