PI Server 2015:
Deploying and Using Future Data for Operational Insights

Presented by **David Nguyen, Systems Engineer**

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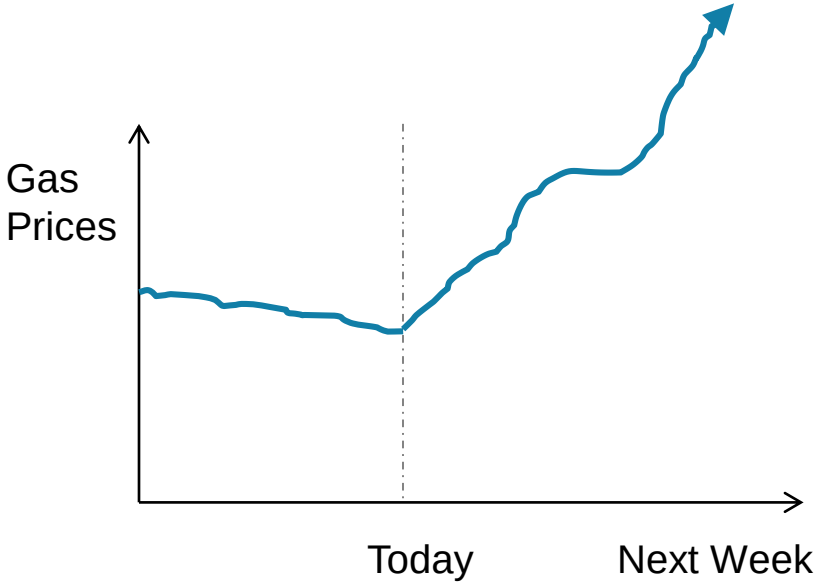
What would you do if you saw this?

+



How about now?

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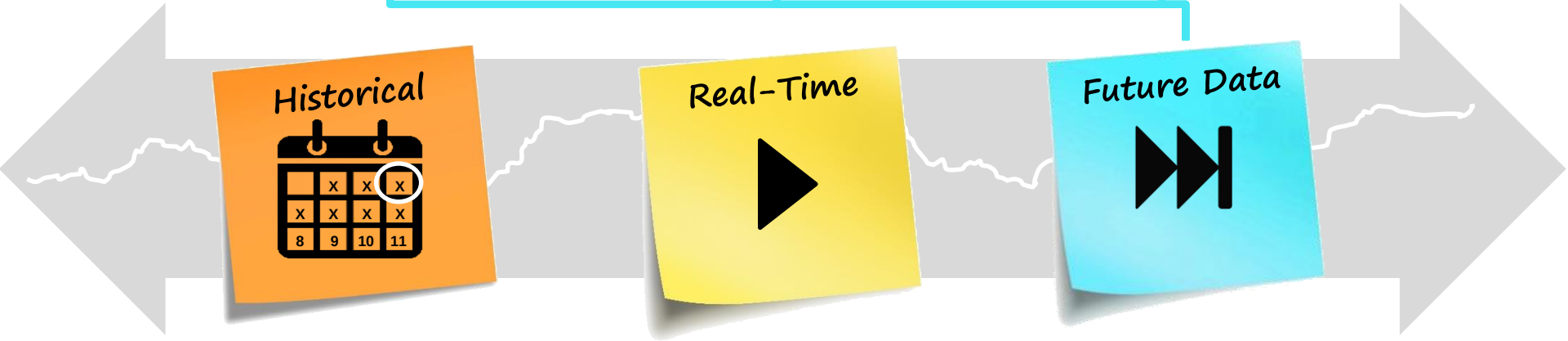
Power of Future Data: What could you do if you knew?

PRODUCTION	DEMAND	ENVIRONMENT
What you do: Are we on track to hit our production targets? Do the fiscal projections justify deviating from standard operation?	**What the market wants:** How much power will our customers need in the next 24 hours? How much material are we obligated to deliver?	**What the world does:** Do we have enough units online to handle the storm? Is there an abnormal heatwave that will compromise the grid?



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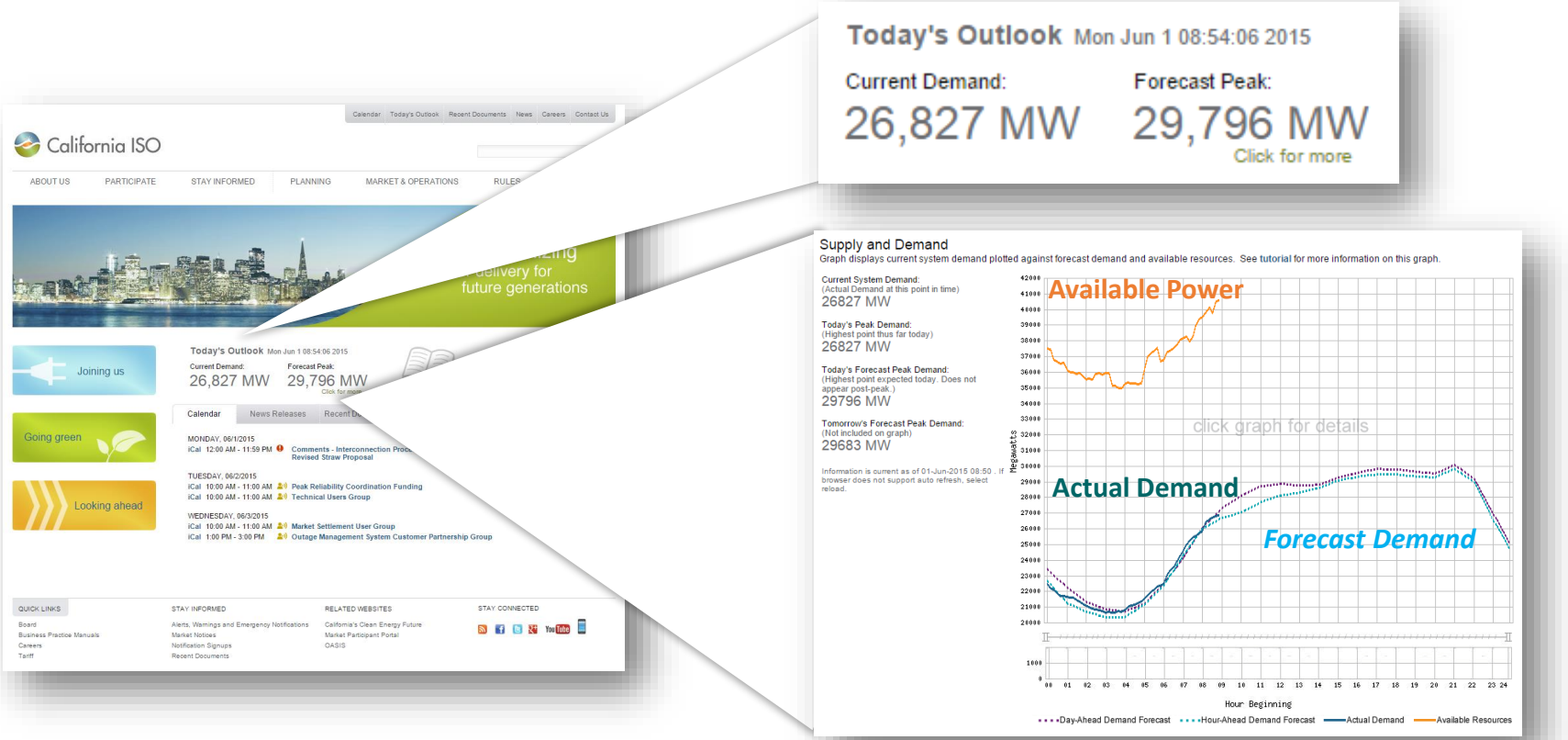
Integrate forecasts natively into the PI System

PI Server 2015



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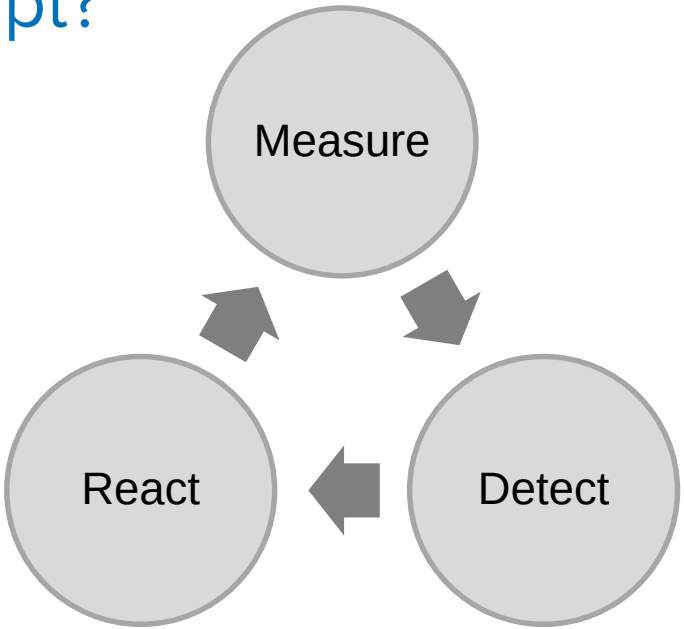
Jeff Parker
Southwest Power Pool

How Do You Adapt?



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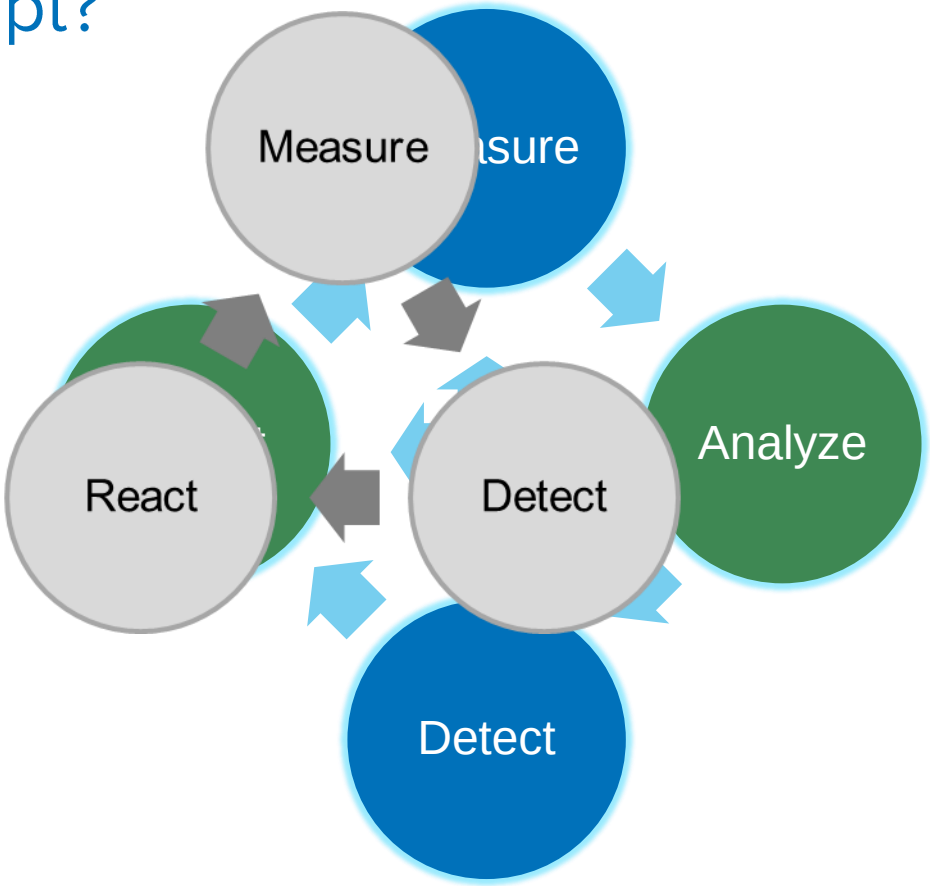
How Do You Adapt?



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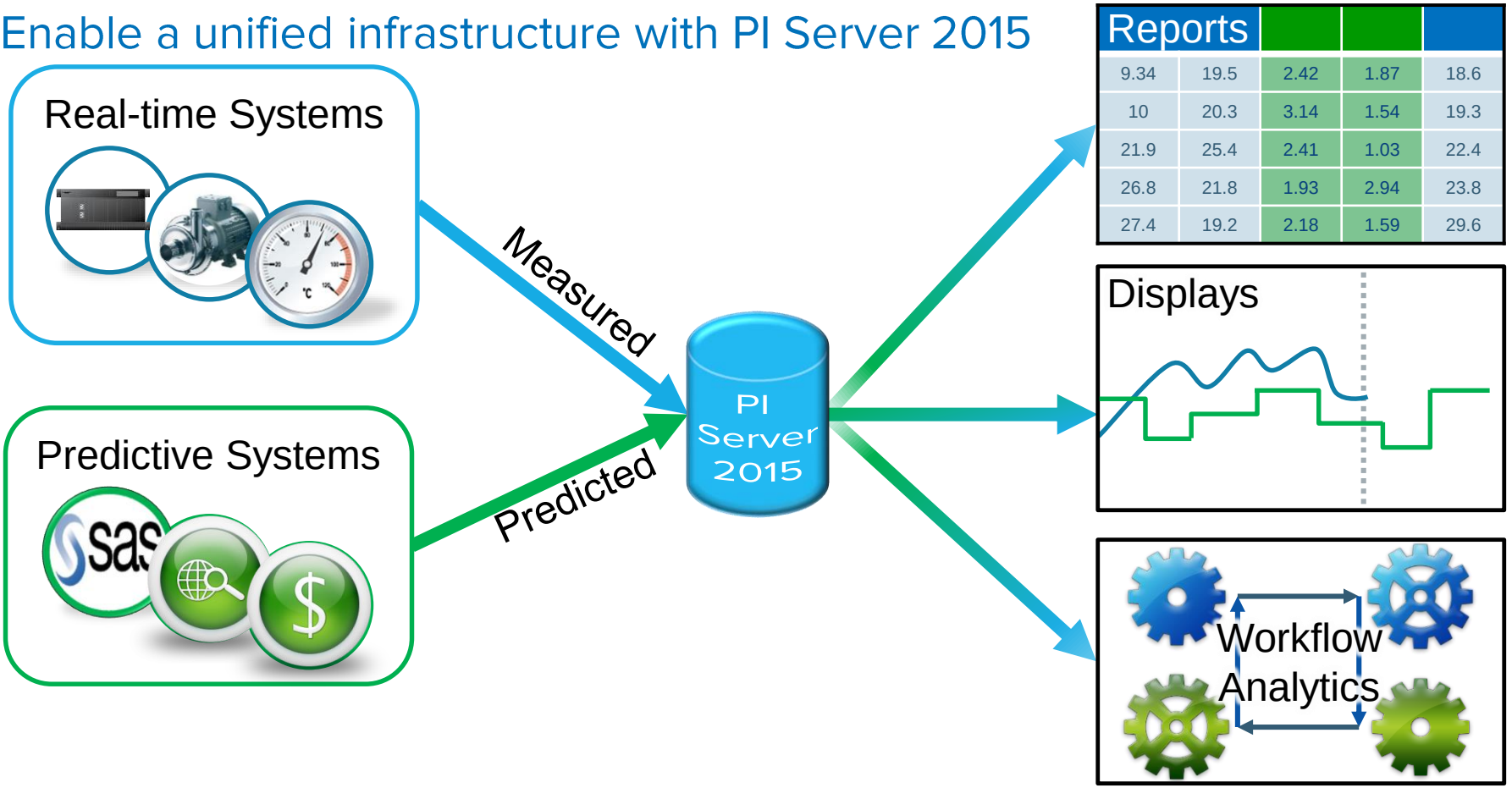
Enable a unified infrastructure with PI Server 2015



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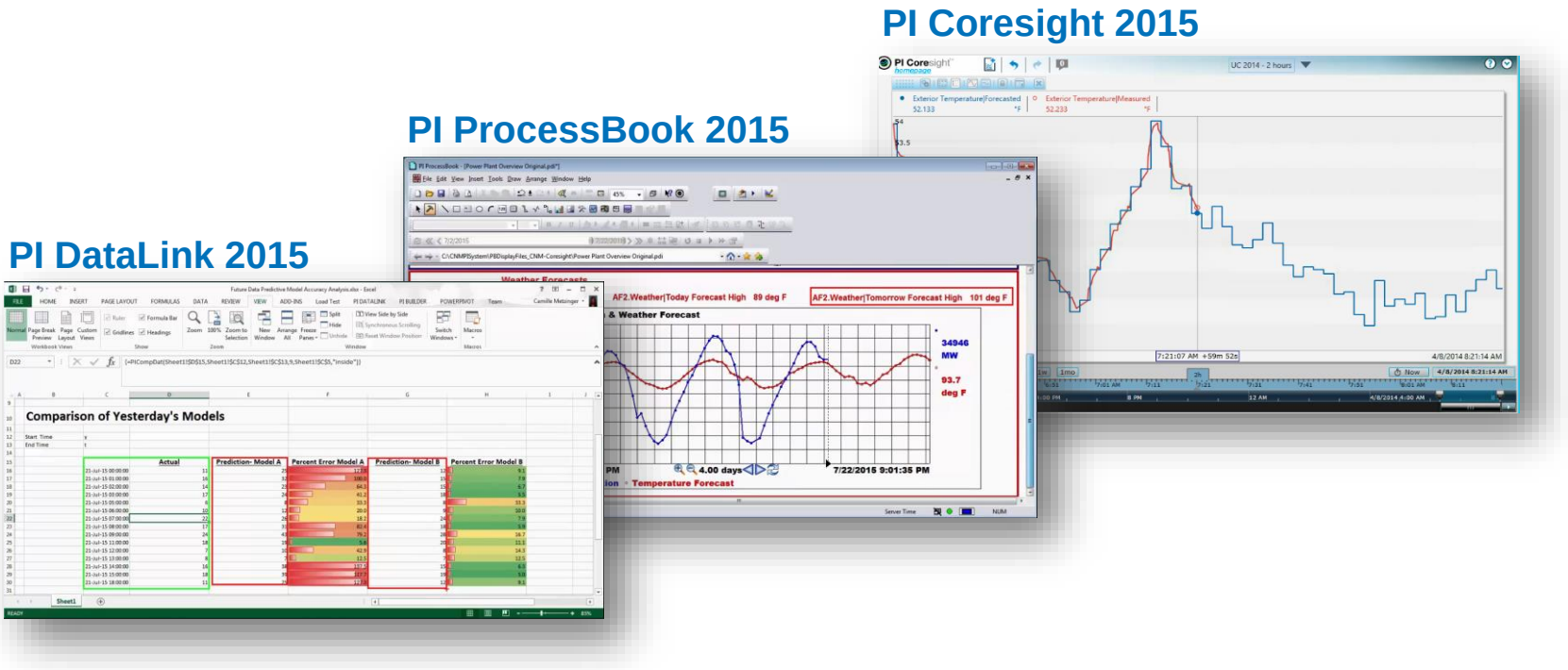
Visualize historical, real-time, and predictive data system wide



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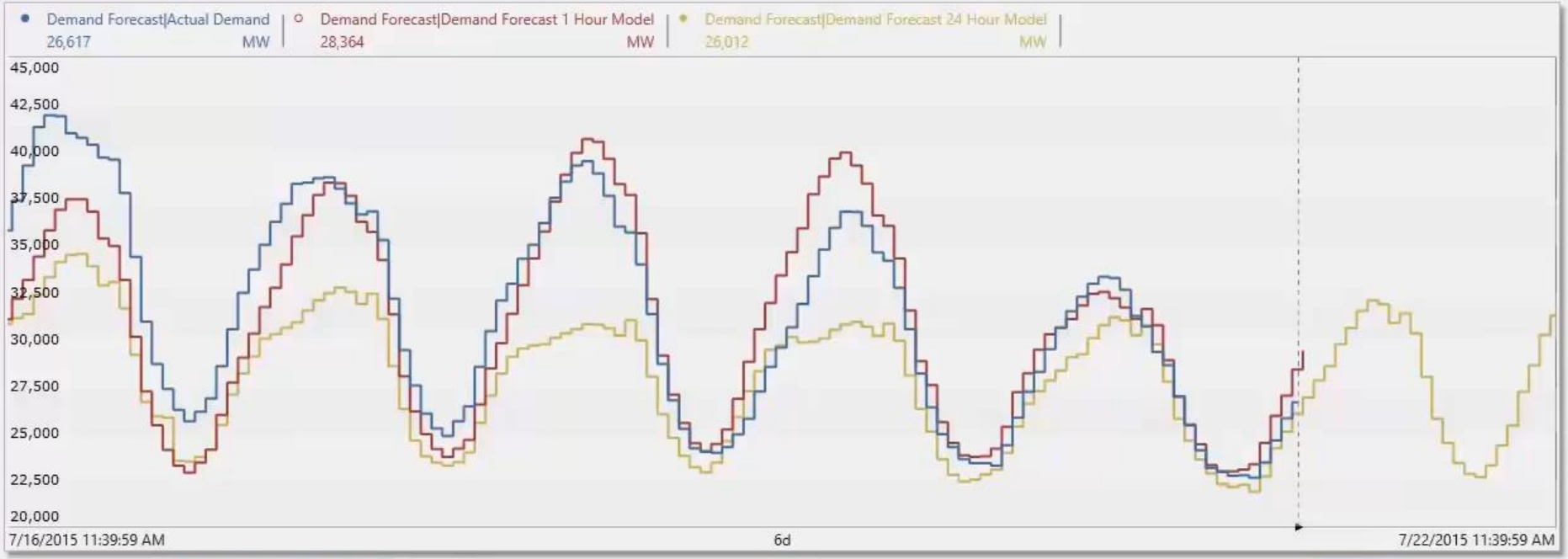
http://cnm-coresight.osisoft.int/Coresight/#/Displays/20124/Demand-Forecast

PI Coresight - Demand Fore...

PI Coresight

New Display

Demand Forecast



7/16/2015 11:39:59 AM | 1h | 8h | 1d | 1w | 1mo | 6d | Now | 7/22/2015 11:39:59 AM

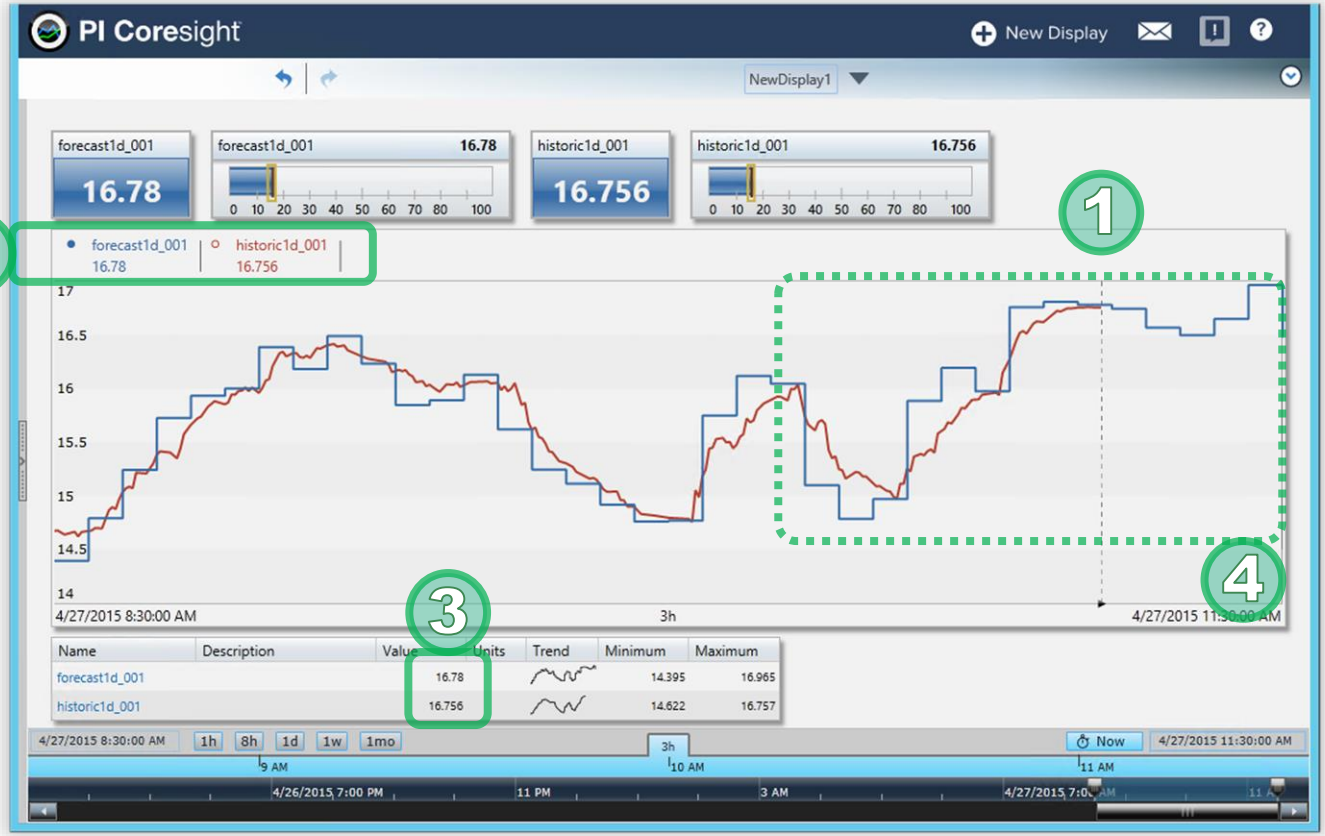
17 18 19 20 21 22

May 17 May 24 May 31 Jun 7 Jun 14 Jun 21 Jun 28 Jul 5 Jul 12 Jul 19

11:39 AM
7/21/2015

PI Coresight 2015

1. Now Line
2. Legend Values
3. Symbol Values
4. Live Forecast Updates



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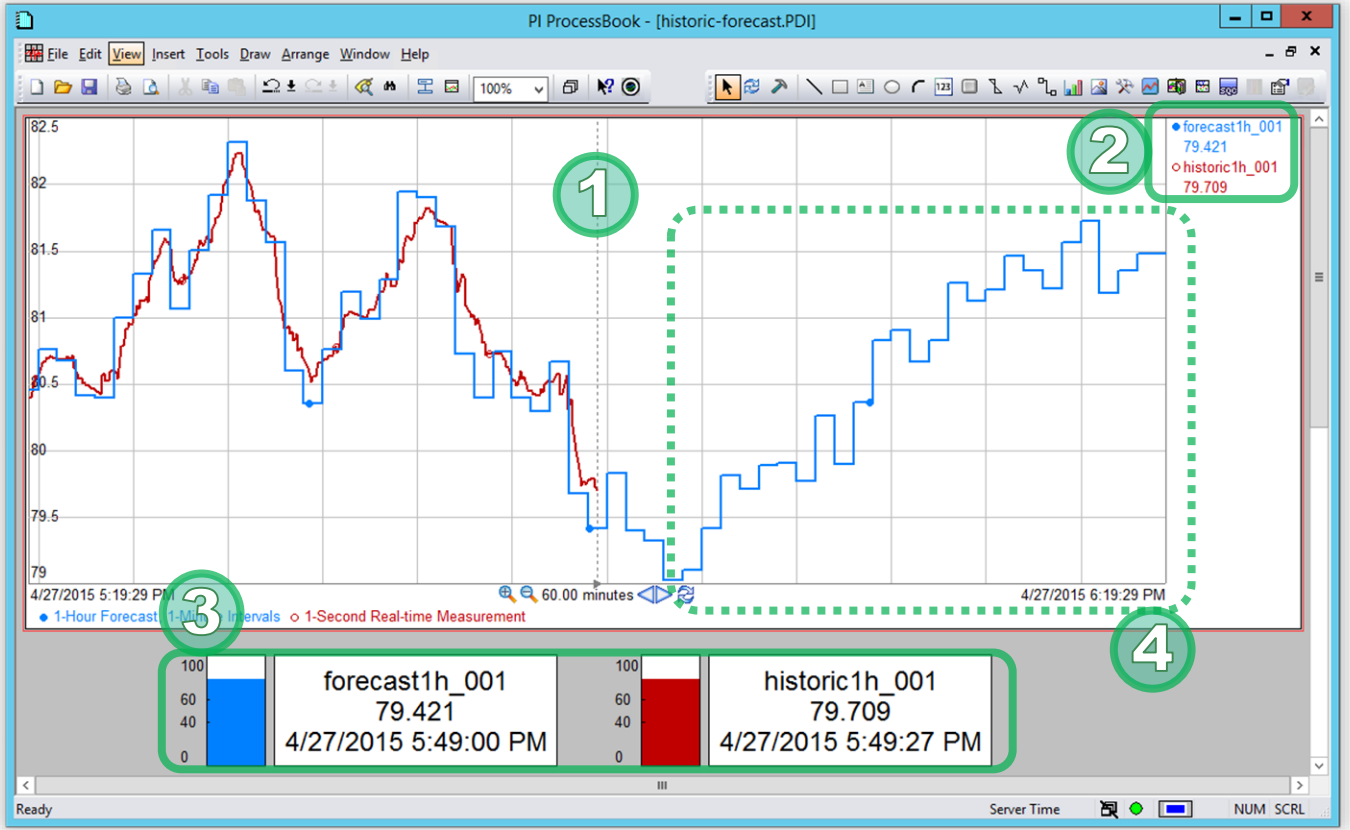
PI ProcessBook 2015

1. Now Line
2. Legend Values
3. Symbol Values
4. Live Forecast Updates



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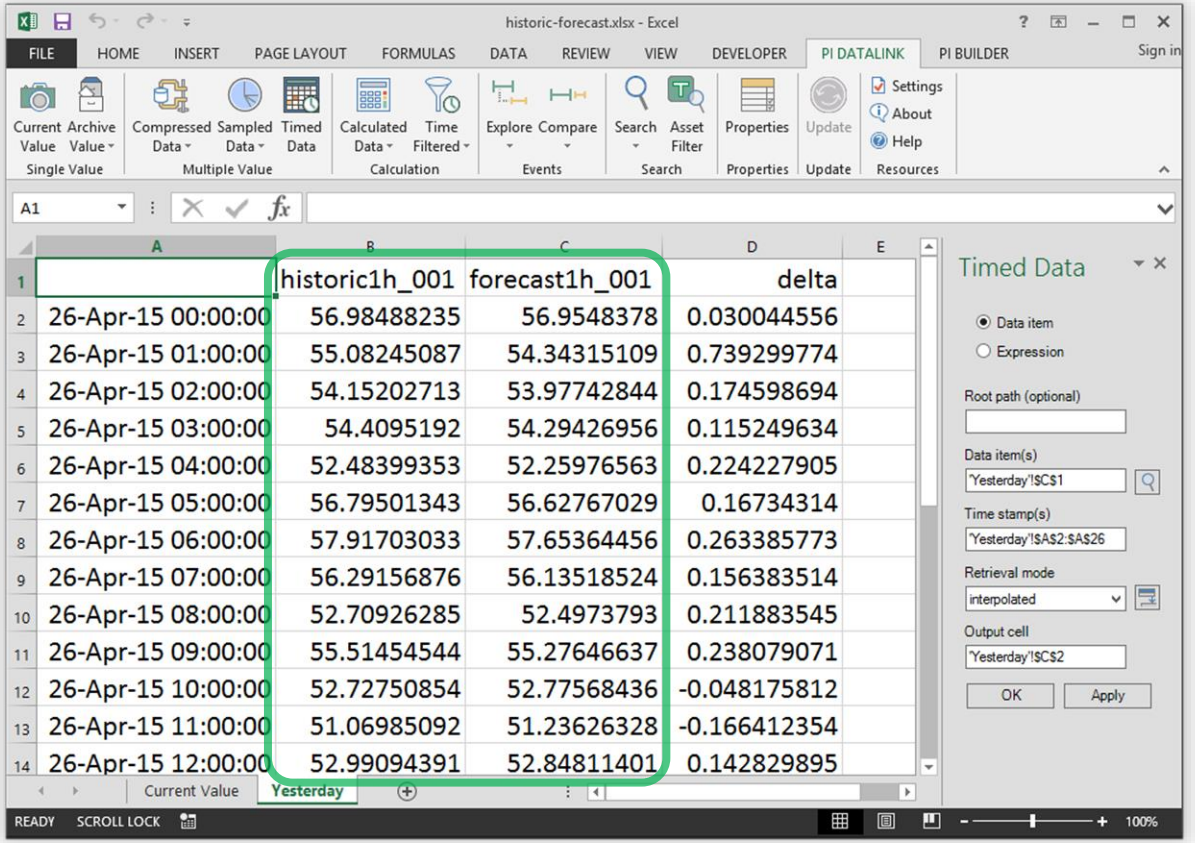
PI DataLink 2013+

(with AF Client 2015)



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Collecting Future Data

PI UFL Interface

From schema or column-based text files

PI HTML Interface

For simple/lightweight web data scraping

PI RDBMS Interface

Via SQL queries against relational databases

PI-to-PI Interface

From PI System to PI System

PI WebAPI, PowerShell, AF SDK, …

Custom application with specific logic

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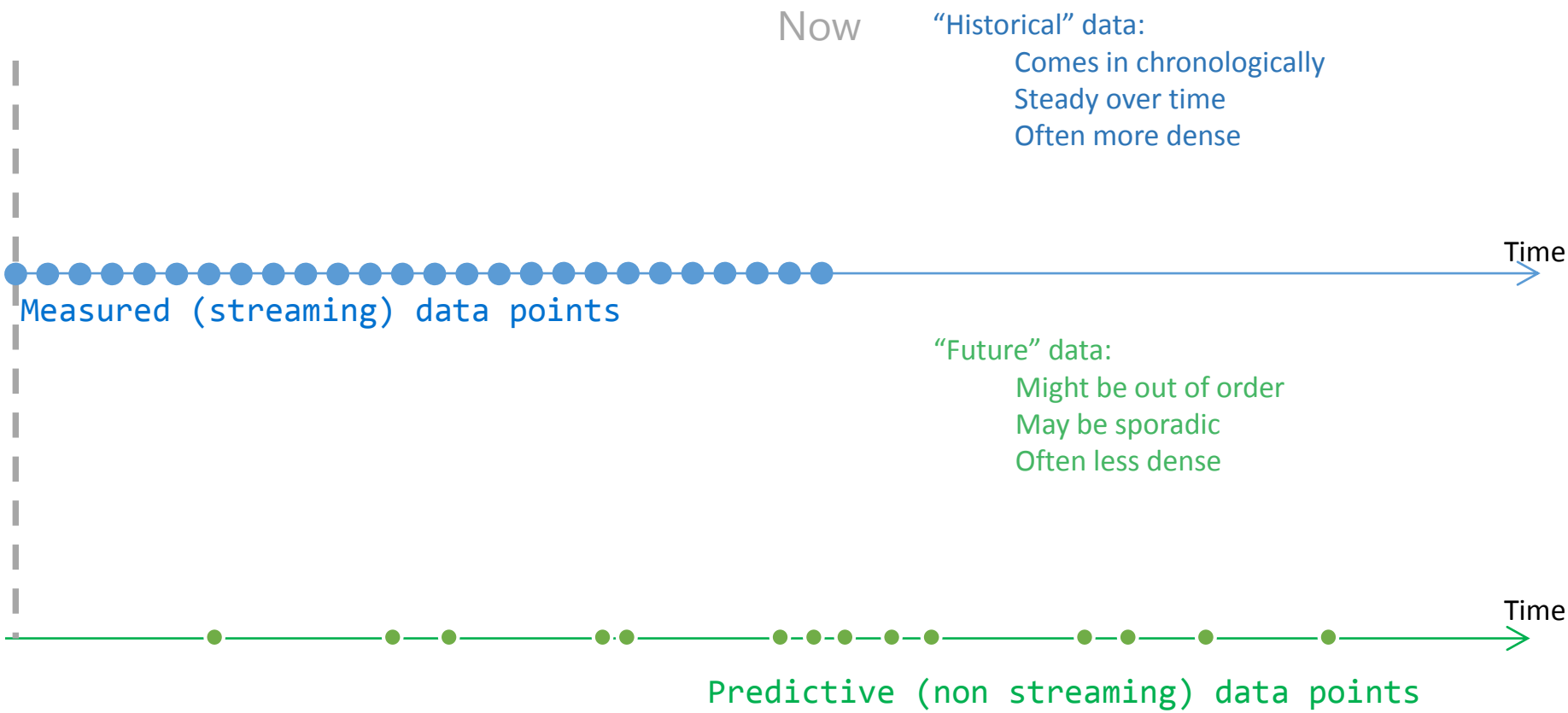
Measured and predicted data behave differently



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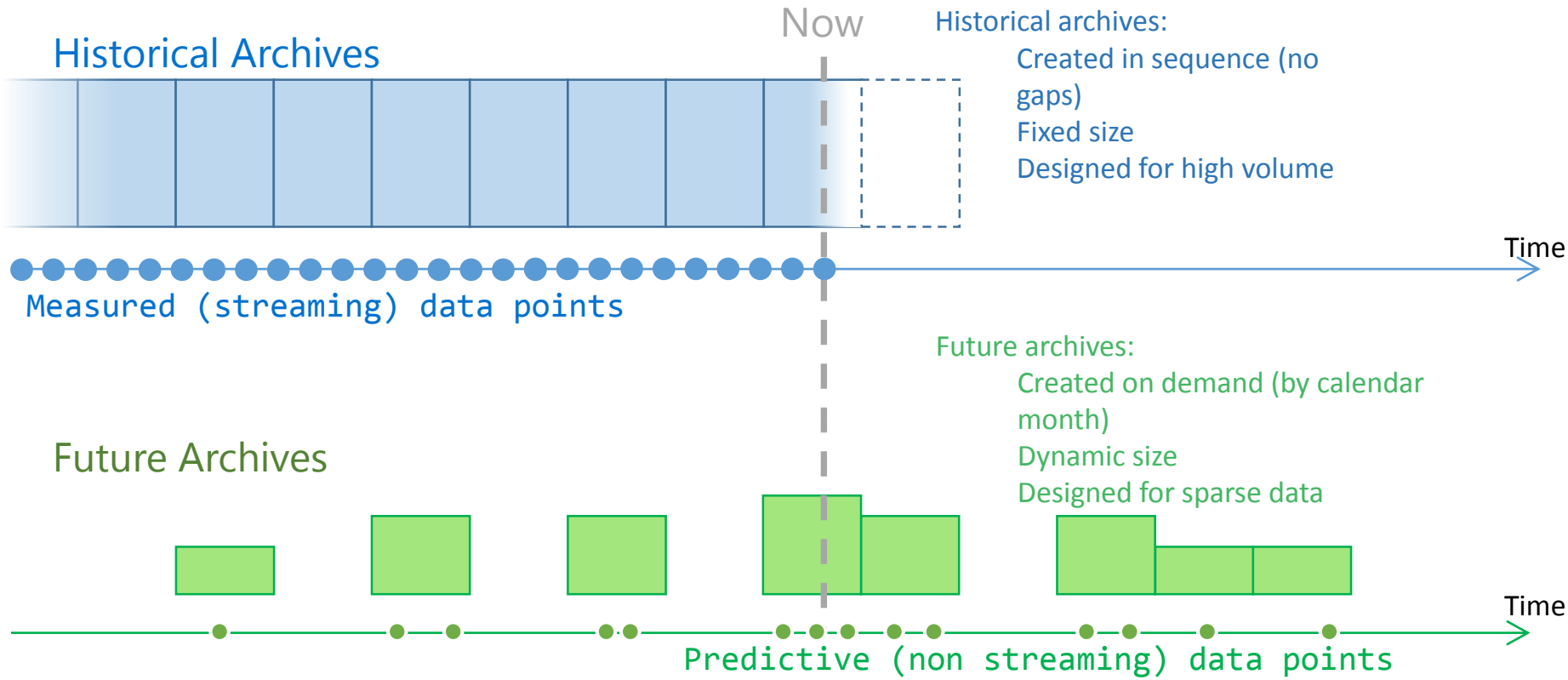
Therefore, the archives are optimized differently



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Benefits of PI Server 2015 for Predictive Data

Flexible Data Architecture

Distinct storage for historical and predictive data gives you options for your retention policies.

Timely Updates

Get accurate, timely, scalable updates for your predictive data.

Easy Administration

Automatic file management & point settings means zero configuration and easy monitoring.

Compatibility

Deploy confidently thanks to low adoption cost and compatibility with existing systems and work-arounds.

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Contact Information

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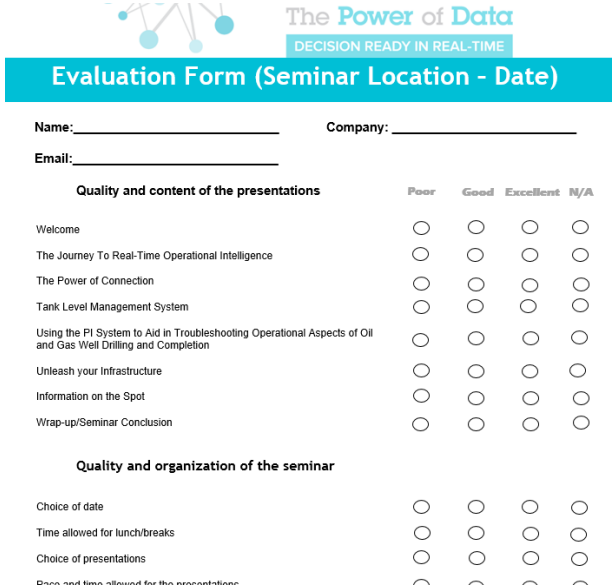
Questions

Please wait for the **microphone** before asking your questions

State your **name & company**

Please remember to…

Complete the Survey for this session



The Power of Data

DECISION READY IN REAL-TIME

Evaluation Form (Seminar Location - Date)

Name:_____ Company: _____

Email:_____

Quality and content of the presentations	Poor	Good	Excellent	N/A
Welcome	○	○	○	○
The Journey To Real-Time Operational Intelligence	○	○	○	○
The Power of Connection	○	○	○	○
Tank Level Management System	○	○	○	○
Using the PI System to Aid in Troubleshooting Operational Aspects of Oil and Gas Well Drilling and Completion	○	○	○	○
Unleash your Infrastructure	○	○	○	○
Information on the Spot	○	○	○	○
Wrap-up/Seminar Conclusion	○	○	○	○

Quality and organization of the seminar				
Choice of date	○	○	○	○
Time allowed for lunch/breaks	○	○	○	○
Choice of presentations	○	○	○	○
Pace and time allowed for the presentations	○	○	○	○

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감사합니다

谢谢

Danke

Gracias

Merci

Thank You

ありがとう

Спасибо

Obrigado

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