

# **Future Data** Captured in the PI Data Archive and PI System

Presented by Omar Shafie, Development Lead Stephen Kwan, Product Manager



#### **Agenda**

- 1. Why? Does It Matter?
- 2. What's new in "PI System 2015"?
- 3. Get Ready, Get Involved!

# Why Future Data?

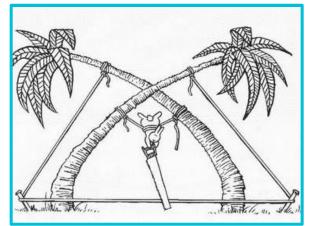
- 1. Expected
- 2. Strategic
- 3. Fundamental



Future Data is...

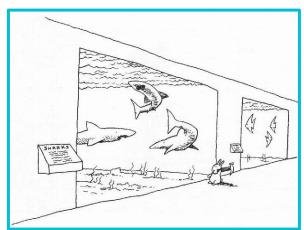
### **Expected**















"As a plant operator or manager,
I want to record and visualize forecast data with our PI System,
so we can see how we are doing against our actual production
numbers and anticipate both risks and opportunities."



"As a maintenance engineer,
I want to manage our service schedule in our PI System,
so that we operate our facility at maximum efficiency and safety,
while minimizing equipment failures and downtimes."



"As a process or lab engineer,
I want to use predictive analytics with data from our PI System,
in order to generate and optimize process models,
while researching future products and production techniques."



"As a system administrator, I want built-in and flexible future data storage in our PI System, so that all data is safe, secure, and highly available, and specific retention policies can be *easily* implemented."

#### UC San Francisco, March 2014



Adding Future Data is...

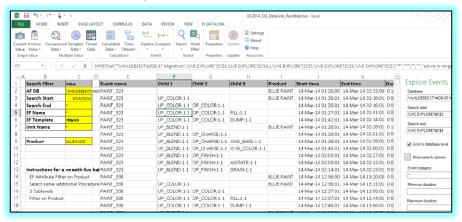
### **STRATEGIC**

#### FUTURE DATA "PERFECT STORM"

#### PI Event Frames

Analysis, Reporting, Visualization

Use Case: capture and search forecast metadata

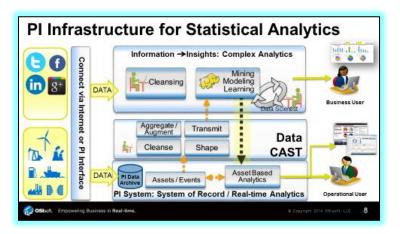


#### More "Perfect Storms"

#### PI Integrators for Hadoop & BI

Big Data Analytics

Use Case: feed predictive data back to the PI Server



#### PI Integrator for Esri ArcGIS

Geospatial Forecasts (e.g., Weather)

Use Case: overlay future data on live maps

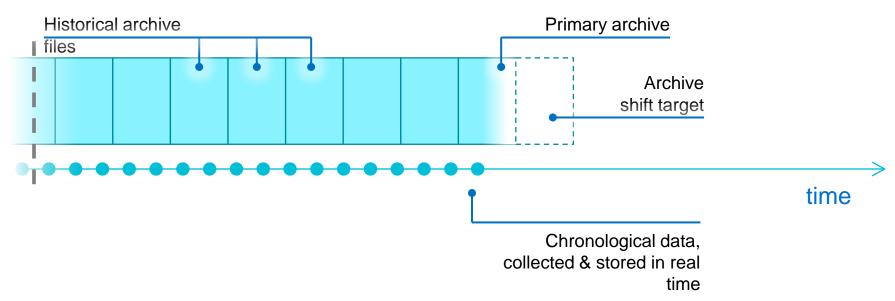


Adding Future Data is...

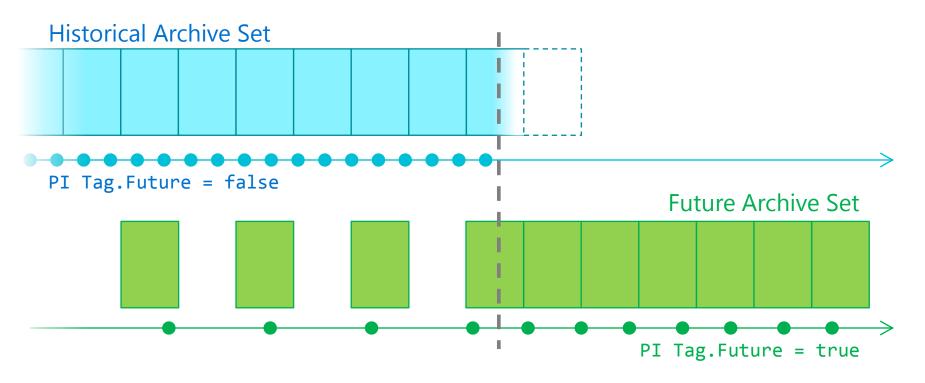
#### **FUNDAMENTAL**

#### Manageability More Than Meets the Eye **Scalability** Reliability **PI Core**sight<sup>™</sup> UC 2014 - 2 hours Context Exterior Temperature|Forecasted | Exterior Temperature|Measured **Values** Time Context 53 **Automatic Updates** 52 Item 51.5 Discovery 50.5 **Offset Indicators Smart** 49.5 Time 7:21:07 AM +59m 52s 4/8/2014 6:21:14 AM 4/8/2014 8:21:14 AM Time **Navigation** Range 12 AM

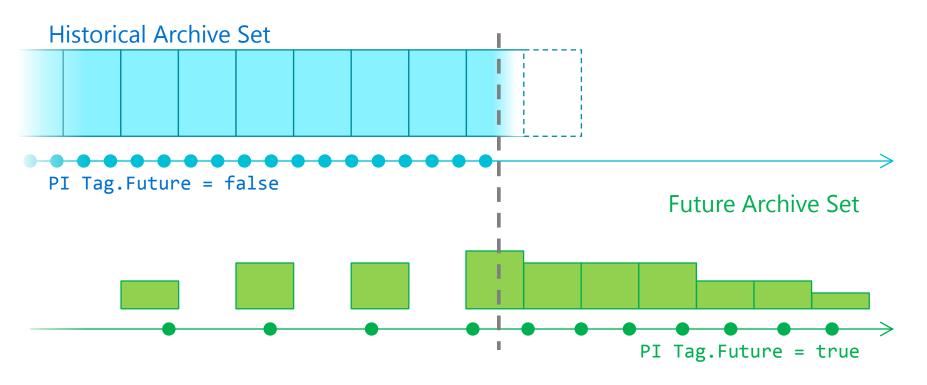
### Storing "Historical" Data...



# ...And Storing "Future" Data



### ...And Storing "Future" Data



# PI Server 2015: Key Benefits



Flexible Data Mgmt, Reliability & Scalability

12 7

**New Updates** 

Accurate, Timely, Scalable Data Access

**Distinct Storage** 



File Management

Zero Configuration, Easy Monitoring



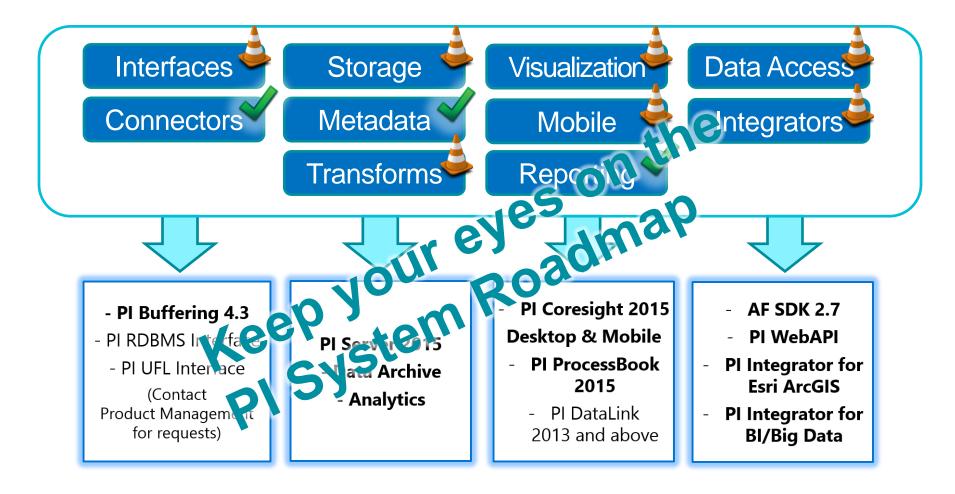
Compatibility

Low Adoption Cost, No Deployment Risks



Where is Future Data?

#### PRODUCT UPDATES

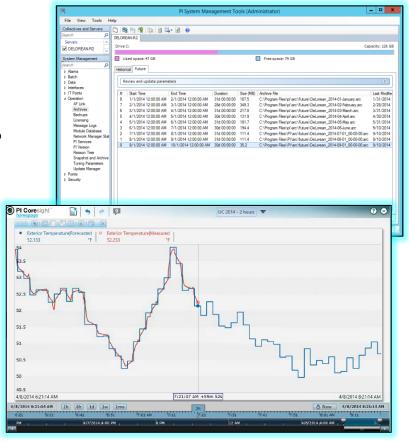


### Help Us Help You...

Any of you doing data forecasting today? Interested in doing more?

PI Server 2015 Beta to be announced soon!

BetaPIServer@osisoft.com



#### **Future Data: Summary**



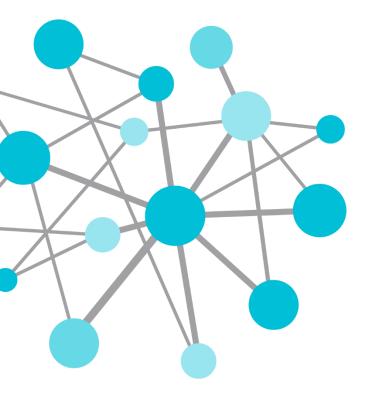
- 1. Coming to "PI System 2015"
  Including: Storage, Analytics, Event Frames, Visualization,
  Data Access, Integrators, and more...
- 2. Expected, yet Fundamental and Strategic Pushing the PI System into powerful use cases
- 3. PI Server 2015 Beta Imminent Get involved, try it with your own data!

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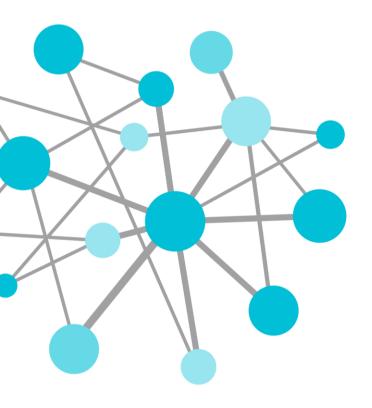


# Questions

Please wait for the microphone before asking your questions



State your name & company



THANK
YOU



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