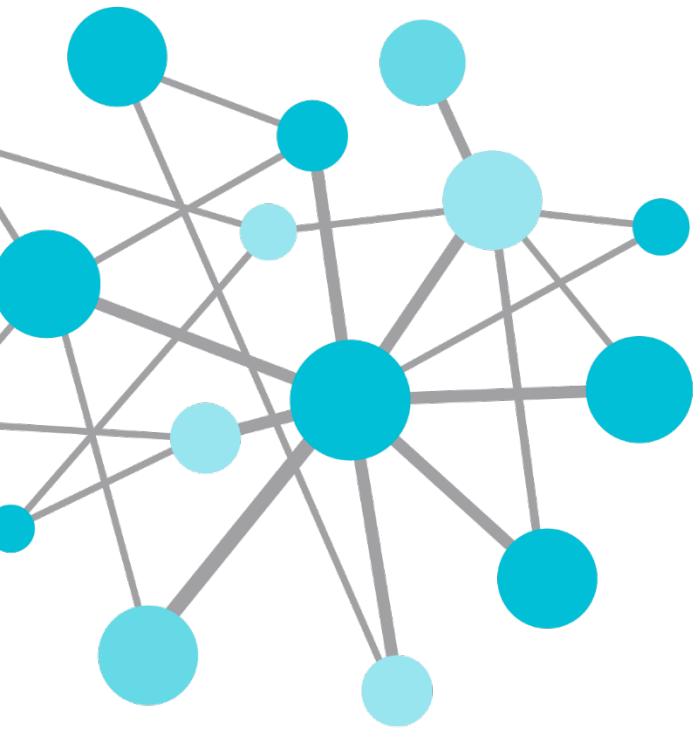




PI System Product Roadmap

Presented by 김유래
OSIsoft Korea 기술지원팀





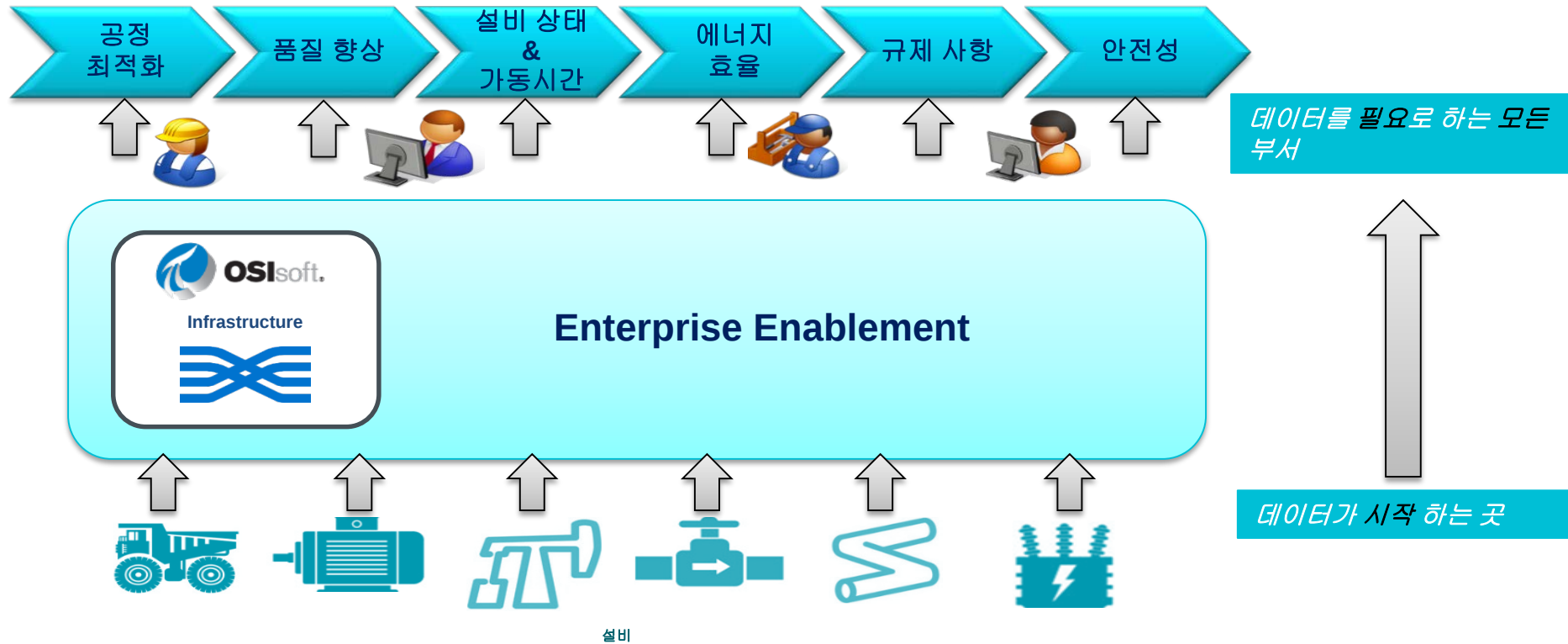
OSIsoft®

REGIONAL SEMINAR

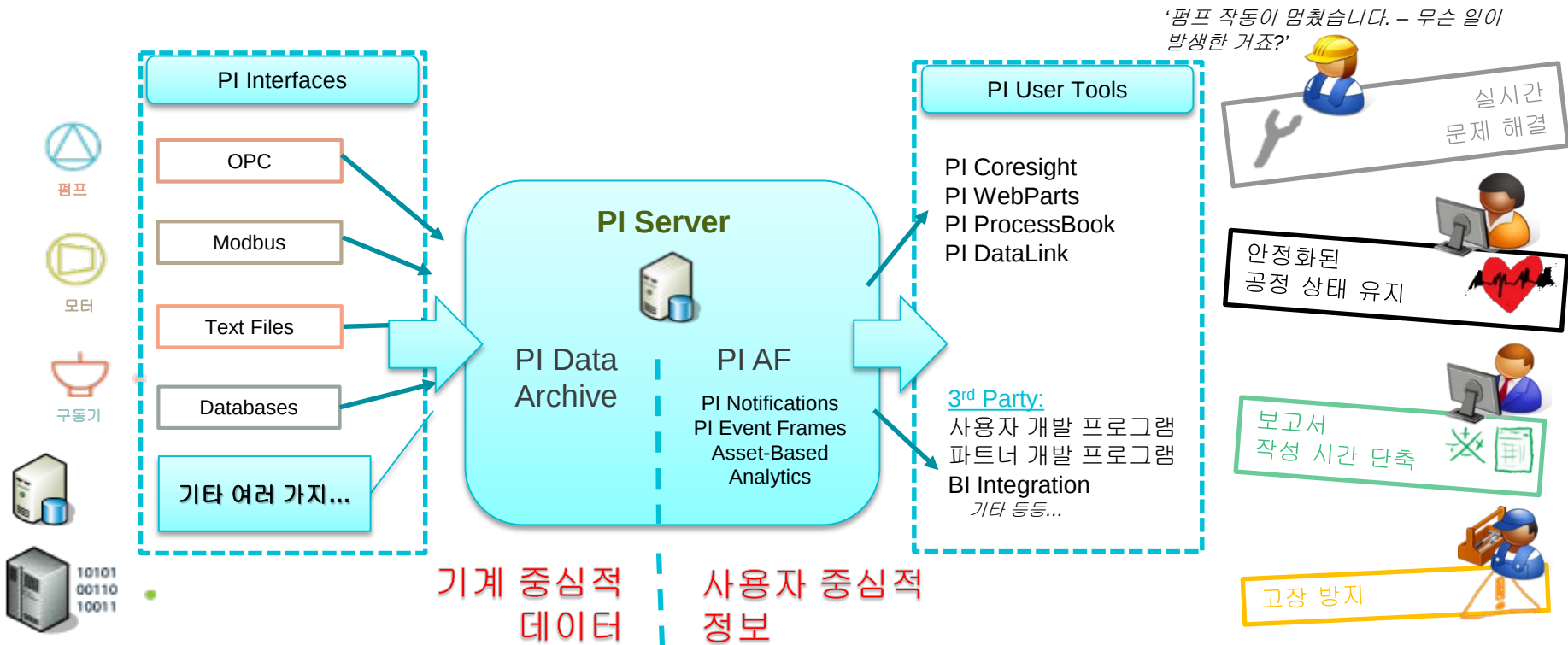
데이터의 무한 가능성
잠재된 가치를 자산으로

K O R E A

An Enterprise Infrastructure



What is part of our Infrastructure...



PI System 개발 중점 사항

내적 기능/성능 확장



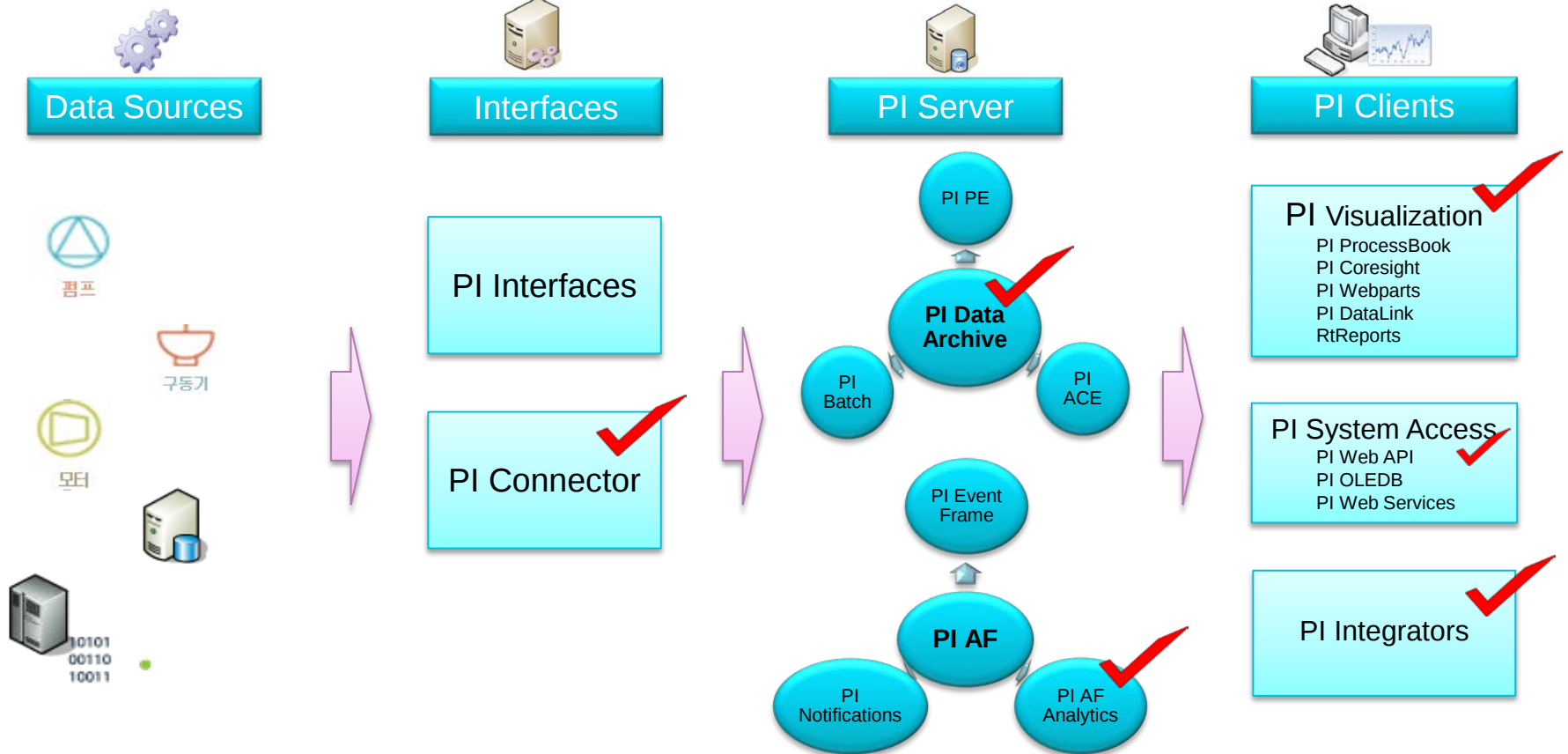
외적 연결/연동 확장



쉽게 언제 어디서나



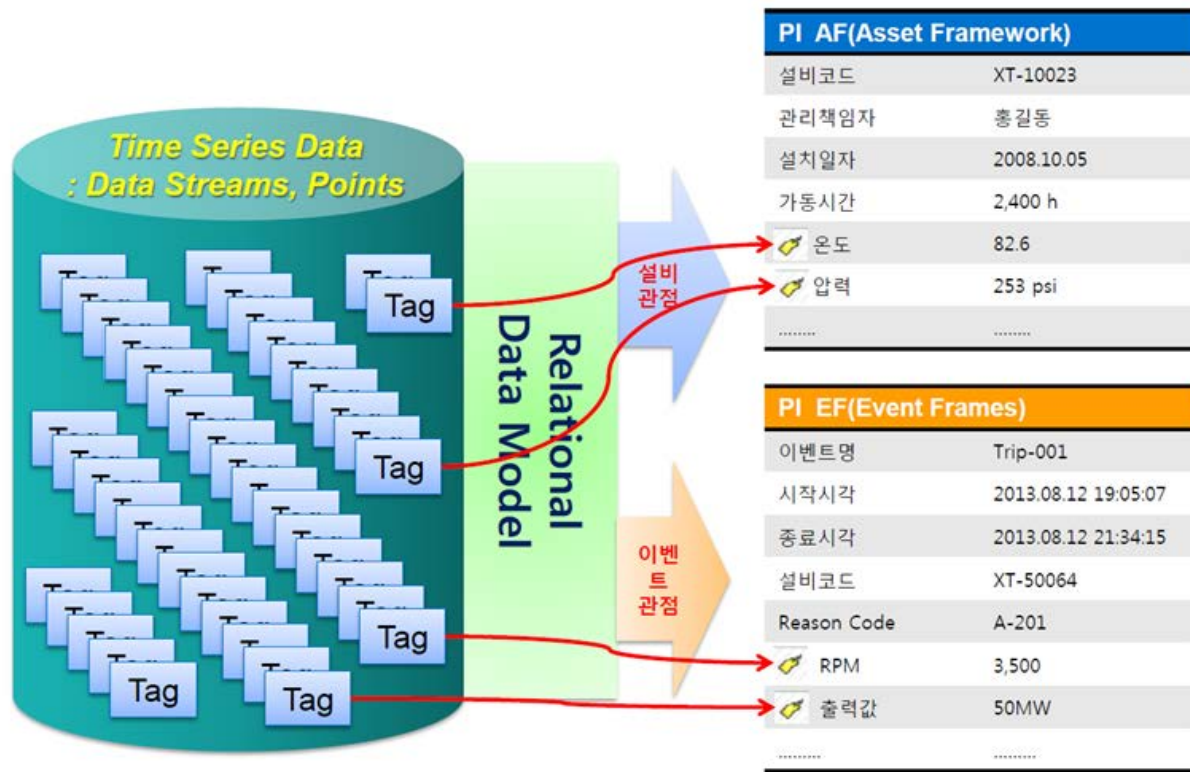
PI System 구성



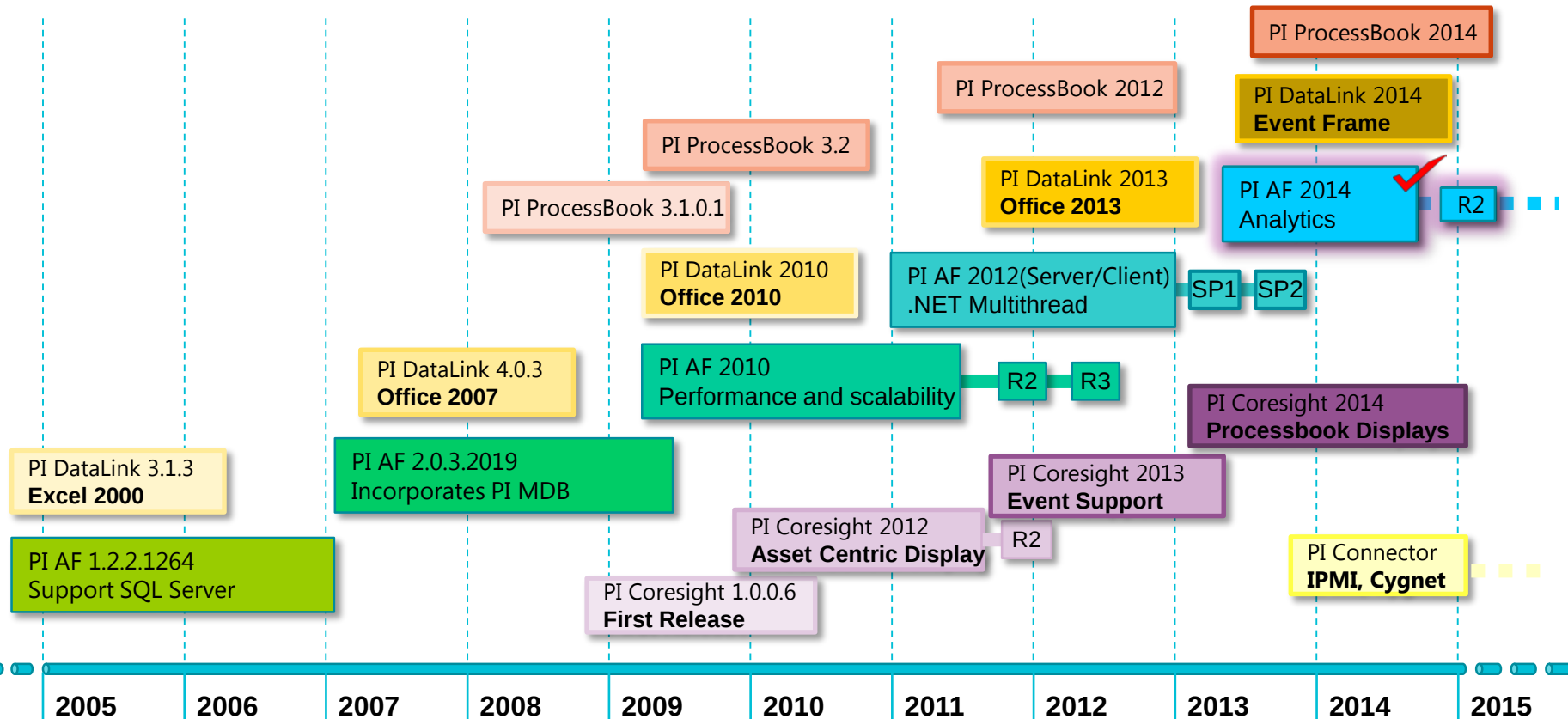
목차

1. Asset-based PI System
2. PI Event Frames
3. Future Data
4. Mobility/Visualization
5. PI Integrator
6. Cloud Services

Theme 1: Asset-based PI System

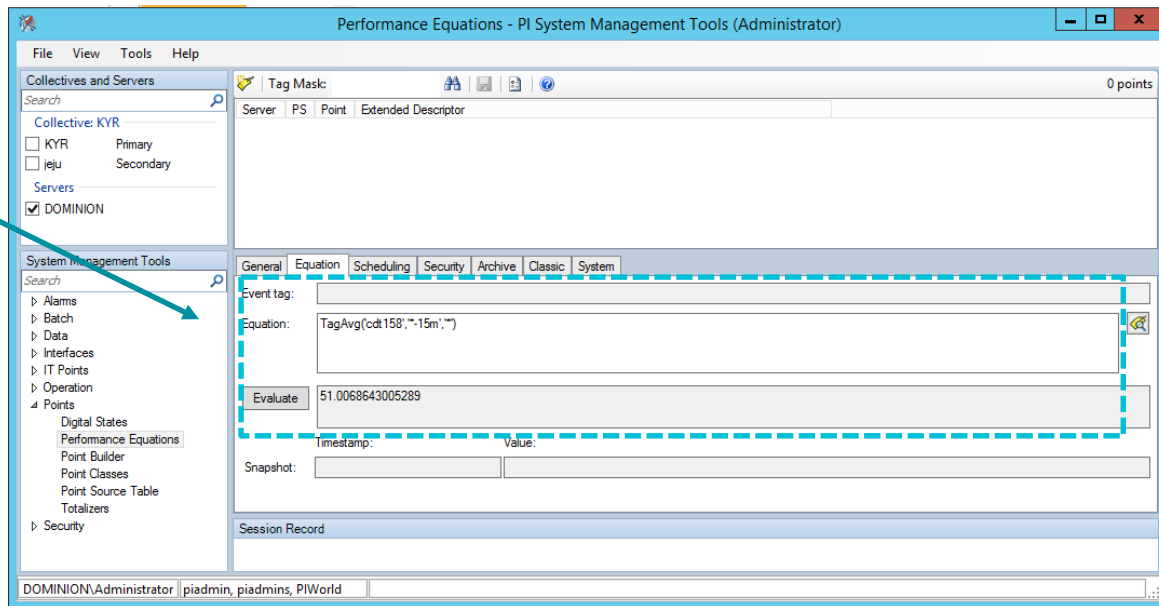
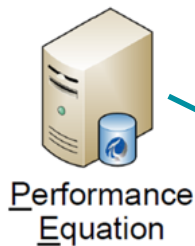


Asset-based PI System



Asset-based PI System - AF Analytics

- 보다 편리하고 쉬워진 사용법

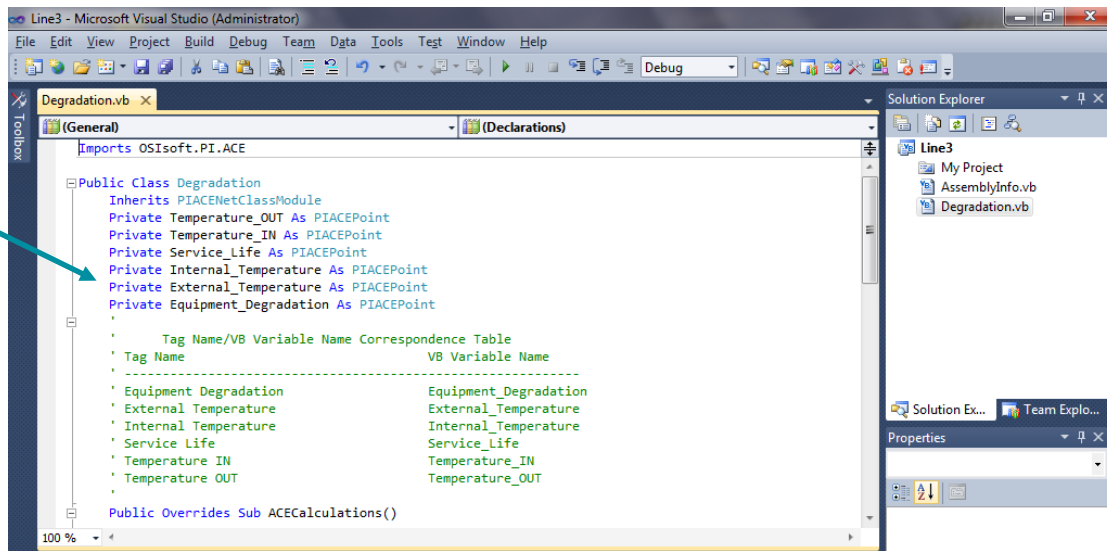


Asset-based PI System - AF Analytics

- 보다 편리하고 쉬워진 사용법



Advanced
Computing
Engine

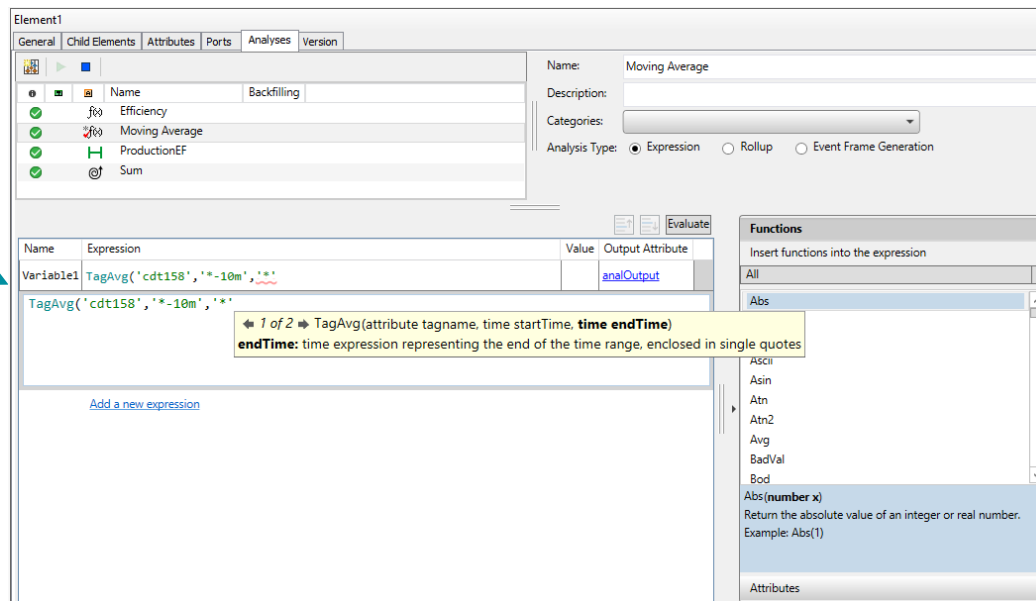


Asset-based PI System - AF Analytics

- 보다 편리하고 쉬워진 사용법



AF
Analytics



Asset-based PI System - AF Analytics

- 재사용 및 통일화된 분석 시스템 구축

- 명확하며 정확한 계산



The image displays three screenshots of the OSIsoft AF Analytics interface, illustrating the configuration and calculation of a Gas Turbine 1 and Gas Turbine 2.

Top Screenshot (Gas Turbine 1): Shows the configuration of Gas Turbine 1. The "Filter" table lists various elements and their values:

Filter	Value
Compressor Discharge Pressure	18.2307167053223 bar(g)
Condenser	530.046505057813 °C
Gas Turbine 1	20.4801235198975 °C
Gas Turbine 2	22.5426654815674 bar(g)
HRSG 1	746.655517578125 °C
HRSG 2	744.104980468875 °C
Steam Turbine	737.305419921875 °C
Exhaust Gas Temperature - #3 Probe	760.911193847636 °C
Exhaust Gas Temperature - #4 Probe	760.911193847636 °C

Bottom Left Screenshot (Library): Shows the "Library" pane with the "Gas Turbine" template selected. The "Example" table lists the template's variables and their values:

Name	Value
GT Exh Temp Diff	0.749837675005545 %

Bottom Right Screenshot (Gas Turbine 2): Shows the configuration of Gas Turbine 2. The "Filter" table lists various elements and their values:

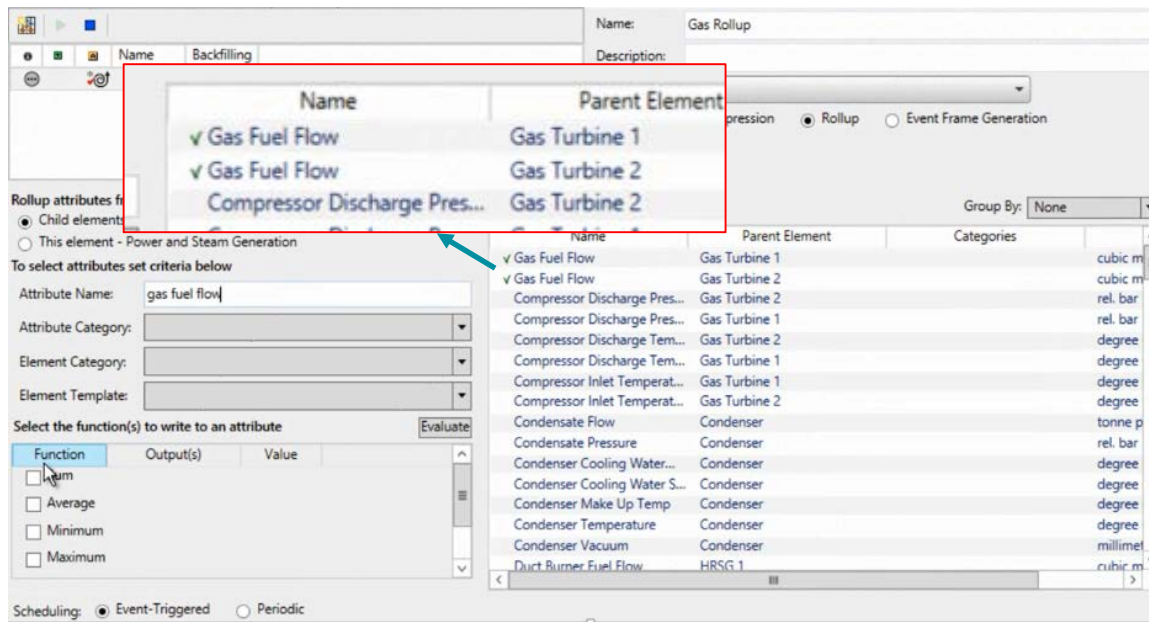
Filter	Value
Compressor Discharge Pressure	7.94397497177124 bar(g)
Condenser	233.315948466328 °C
Gas Turbine 1	6.55779122306274 °C
Gas Turbine 2	6.09700202941895 bar(g)
HRSG 1	743.833679199219 °C
HRSG 2	729.04030097856 °C
Steam Turbine	739.36079101563 °C
Exhaust Gas Temperature - #4 Probe	730.794677734375 °C
Exhaust Gas Temperature - #3 Probe	760.911193847636 °C

GT Exh Temp Diff Percent: The calculated value is 0.749837675005545 %.

Output in every element from template: The calculated value is 0.749837675005545 %.

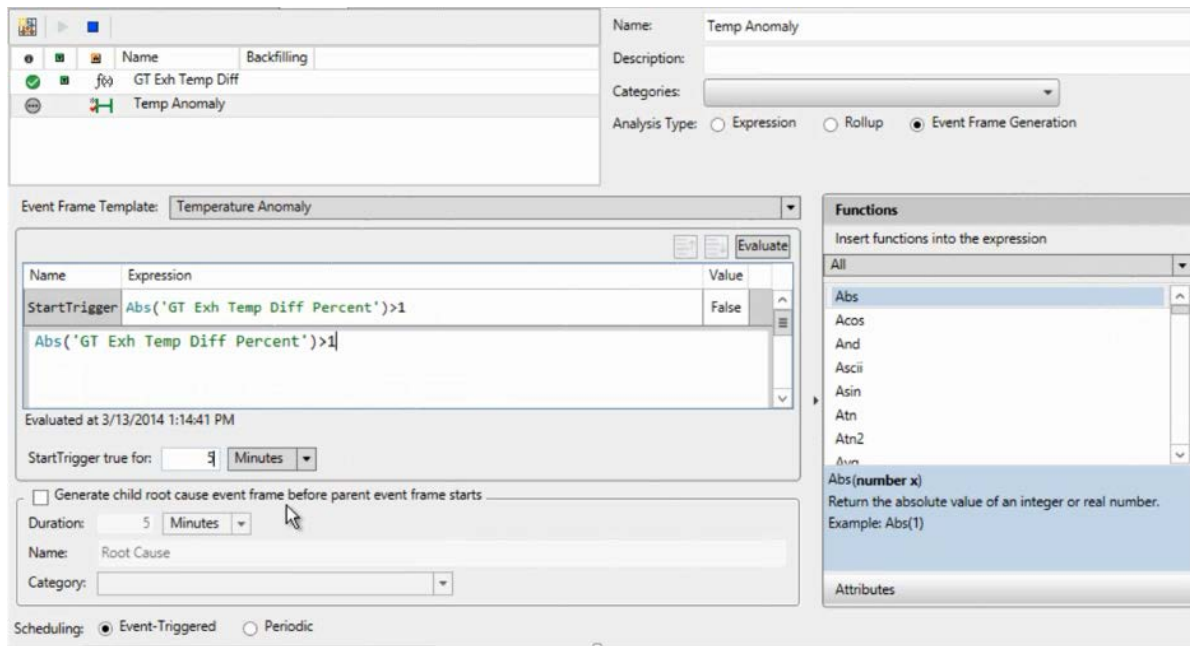
Asset-based PI System - AF Analytics

- 합산(Rollup) ↗



Asset-based PI System - AF Analytics

- 조건에 따른 자동 이벤트 생성 



The screenshot shows the configuration window for an 'Event Frame Template' named 'Temperature Anomaly'. The 'Analysis Type' is set to 'Event Frame Generation'. The 'Event Frame Template' dropdown is set to 'Temperature Anomaly'. The 'StartTrigger' is configured with the expression `Abs('GT Exh Temp Diff Percent')>1`. The 'Duration' is set to 5 minutes. The 'Scheduling' is set to 'Event-Triggered'. The 'Functions' panel on the right shows the 'Abs' function selected, with its description: 'Return the absolute value of an integer or real number. Example: Abs(1)'.

Name	Expression	Value
StartTrigger	<code>Abs('GT Exh Temp Diff Percent')>1</code>	False

Evaluated at 3/13/2014 1:14:41 PM

StartTrigger true for: Minutes

☐ Generate child root cause event frame before parent event frame starts

Duration: 5 Minutes

Name: Root Cause

Category:

Scheduling: ☒ Event-Triggered ☐ Periodic

Functions

Insert functions into the expression

All

Abs

Acos

And

Ascii

Asin

Atn

Atn2

Avg

Abs(number x)

Return the absolute value of an integer or real number.

Example: Abs(1)

Attributes

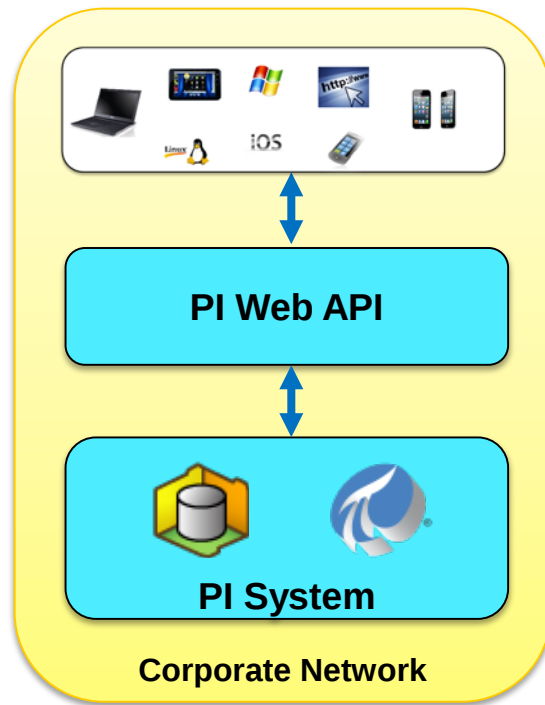
Asset-based PI System - AF Analytics

- 보다 편리하고 쉬워진 사용법 
- 재사용 및 통일화된 분석 시스템 구축 가능 
 - 명확하며 정확한 계산
- 합산(Rollup) 
- 조건에 따른 자동 이벤트 생성 
- 향상된 성능 및 확장성



Asset-based PI System - Programmatic Access

- PI Web API
- Programmable Analytics



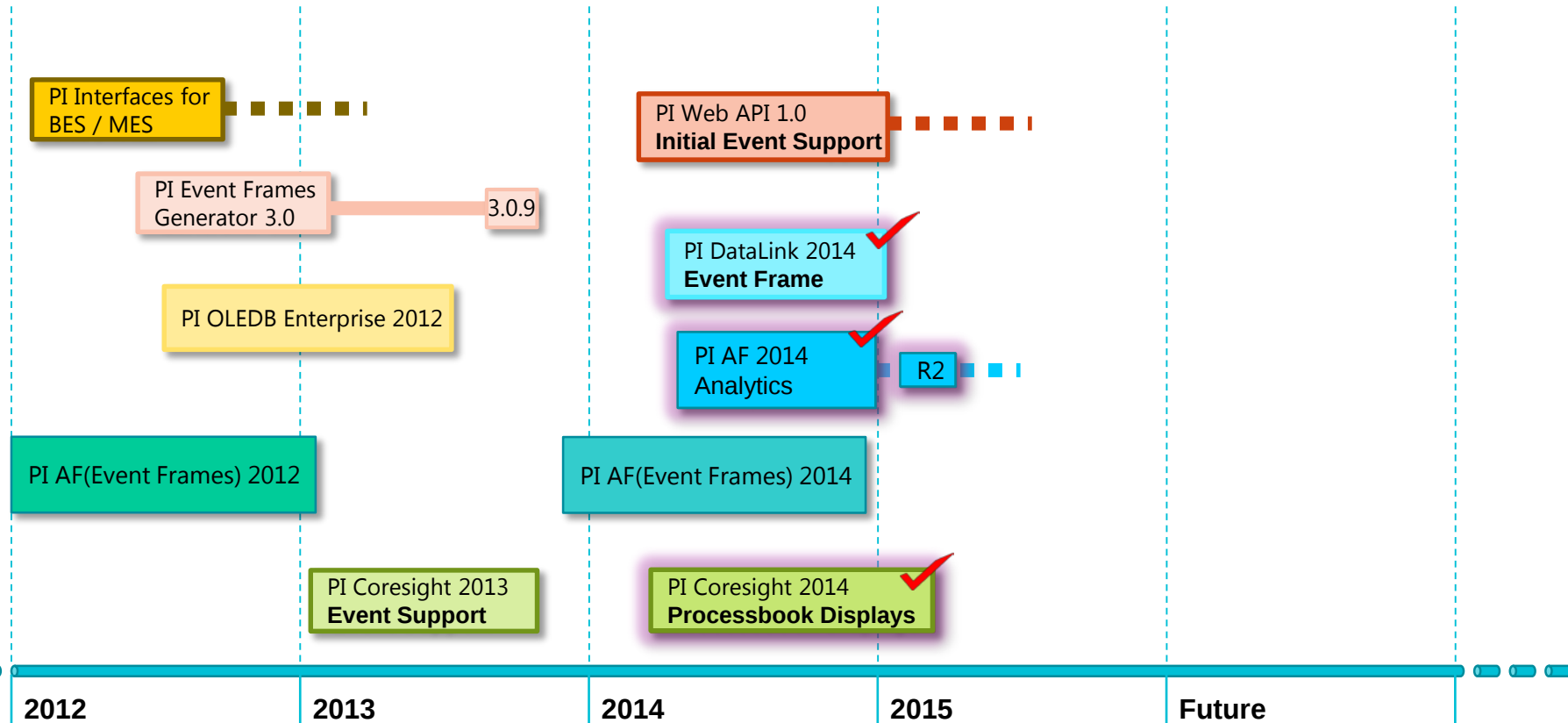
Theme 2: PI Event Frames

공정 작업 또는 비즈니스 이벤트 등

중요한 일들을 기록 및 분석 가능!

산업	이벤트	가치
Power & Utilities	설비 고장	설비에 대한 신뢰도 향상
Oil & Gas	저장 시설까지 운반	재고 추적
Oil & Gas	펌프 진동, 동작 불능시간, 생산량 확대	안전, 최적화, 자산에 대한 신뢰도
Pulp & Paper	종이 제작, 품질 등급 조정	품질 등급 조정 시간 축소
Metals & Mining	알루미늄 롤 제작	개선된 품질, 품질 비교
Chemicals	배치, 제작 과정	효과적으로 설비 사용
Life Sciences	배치, 단위 절차, 단계	제품 품질, 규제

PI Event Frames



PI Event Frames

AF Asset Based Analytics (Event Detection)

- 이벤트 설정
- 템플릿을 사용해 관련 설비 일괄 적용
- Backfill

PI Coresight (Related Events)

- 관련 이벤트 자동 검색
- 이벤트 특성 값 확인

PI DataLink (Events in Excel)

- 이벤트 검색 및 비교
- 편리해진 이벤트 분석 작업 및 보고서 작업

PI Event Frames – Asset Based Analytics

The screenshot displays the PI Event Frames configuration window for a template named "Boiler Feed Pump Vibration Anomaly".

- Library:** A tree view on the left shows the hierarchy of templates. "Boiler Feed Pump Vibration Anomaly" is selected under "Event Frame Templates".
- General Tab:** The "General" tab is active, showing the template name and description. The "Naming Pattern" is set to "%ELEMENT% - %TEMPLATE% - %STARTTIME:yyyy.MM.dd%".
- Category: General:** A list of attributes for the general category, including "Pump Manufacturer", "Pump Name", "Pump Serial Number", "Site Name", and "Unit Name".
- Category: Operational and Performance Data:** A list of attributes for operational and performance data, including "Bearing Oil Pressure", "Discharge Flow", "Discharge Pressure" (highlighted), "EXT Steam Flow Total", "EXT Steam Pressure", "Flow entering economizer", "Pump Speed", "Suction Pressure", and "Unit Megawatts".
- Category: Vibration Data:** A list of attributes for vibration data, including "Inboard Bearing Vibration X", "Inboard Bearing Vibration Y", "Outboard Bearing Vibration X", and "Outboard Bearing Vibration Y".
- Settings:** A panel on the right shows settings for the selected attribute, "Discharge Pressure", including its name, description, categories, default UOM, value type, and data reference.

이벤트 이름 패턴 (Event Name Pattern)

이벤트 속성 (Event Attributes)

PI Event Frames – Asset Based Analytics

요소 템플릿

이벤트 시작
조건

Time True

원인 분석
위한 하위
이벤트

타입 = EF
Generation

PE 함수

Table Categories

- Element Templates
- Base Equipment
- BatteryTemplate
- Boiler Feed Pump Turbine

Analysis Type: ☐ Expression

Name	Expression
StartTrigger	if ('Inboard Bearing Vibration X' > 'Bearing Vibration High Limit') Then true else if ('Outboard Bearing Vibration Y' > 'Bearing Vibration High Limit') Then true
EndTrigger	Type an expression (optional)

Add a new expression

Event Frame Templates

- 2014_01_13
- 2014_01_14
- 2014_01_15
- 2014_01_16
- 2014_01_17
- 2014_01_18
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- 2014_01_20
- 2014_01_21
- 2014_01_22
- 2014_01_23
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- 2014_12_31

Generate child root cause event frame before parent event frame starts

Duration: 1 Days

Name: Root Cause

Category:

Functions

Insert functions into the expression

Abs

Acos

And

Ascii

Asin

Atn

Atn2

Avg

BadVal

Bod

Bom

Bonm

Ceiling

Char

Compare

Concat

Convert

Cos

Cosh

Cot

Coth

Cor

Abs(number x)

Return the absolute value of an integer or real number.

Example: Abs(1)

PI Event Frames – Asset Based Analytics

The screenshot displays the PI System Explorer application window. The main pane shows a list of 8 checked analyses, each with a status icon, name, template, and backfill status. The analyses are categorized by plant and system, such as 'Generation/OsSoft Power/Cleveland Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #1'. The right pane shows 'Operations' with links for 'Start checked analyses', 'Stop checked analyses', and 'Backfill checked analyses'. The bottom pane shows 'Analysis details' for a selected analysis, including 'Overview', 'Errors And Warnings', and 'Analysis configuration'.

Status	Element	Name	Template	Backfilling
✓	Generation/OsSoft Power/Cleveland Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #1	Bolser Feed Pur	Bolser Feed Pump Vibration	✓
✓	Generation/OsSoft Power/Cleveland Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #2	Bolser Feed Pur	Bolser Feed Pump Vibration	✓
✓	Generation/OsSoft Power/Philadelphia Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #1	Bolser Feed Pur	Bolser Feed Pump Vibration	✓
✓	Generation/OsSoft Power/Philadelphia Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #2	Bolser Feed Pur	Bolser Feed Pump Vibration	✓
✓	Generation/OsSoft Power/San Leandro Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #1	Bolser Feed Pur	Bolser Feed Pump Vibration	✓
✓	Generation/OsSoft Power/San Leandro Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #2	Bolser Feed Pur	Bolser Feed Pump Vibration	✓
✓	Generation/OsSoft Power/Houston Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #1	Bolser Feed Pur	Bolser Feed Pump Vibration	✓
✓	Generation/OsSoft Power/Houston Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed Pump #2	Bolser Feed Pur	Bolser Feed Pump Vibration	✓

Operations
Start checked analyses
Stop checked analyses
Backfill checked analyses

Pending Operations
No pending operations

Analysis details
Overview Errors And Warnings
Bolser Feed Pump Vibration Anomaly configuration
Analysis type: Event Frame Generation
Description: Bolser Feed Pump Vibration Anomaly
Element path: Generation/OsSoft Power/Cleveland Power Plant/Unit 1/Balance of Plant/Feedwater System/Bolser Feed #1
Template: Bolser Feed Pump Vibration Anomaly
Scheduler: Natural
Status: In AF: Enabled, In PI Analysis Service: Running

과거 이벤트
백필
(Backfill)

PI Event Frames – PI Coresight

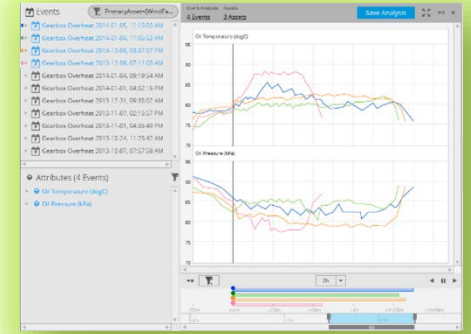
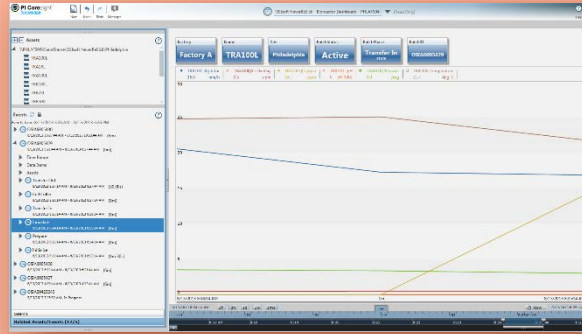
PI Coresight 2012 R2



PI Coresight 2013



Future PI Coresight
Overlay Trend



향상된 EF 검색 기능

이벤트 별 시간 비교

다른 시간대의 이벤트 겹쳐서 표시

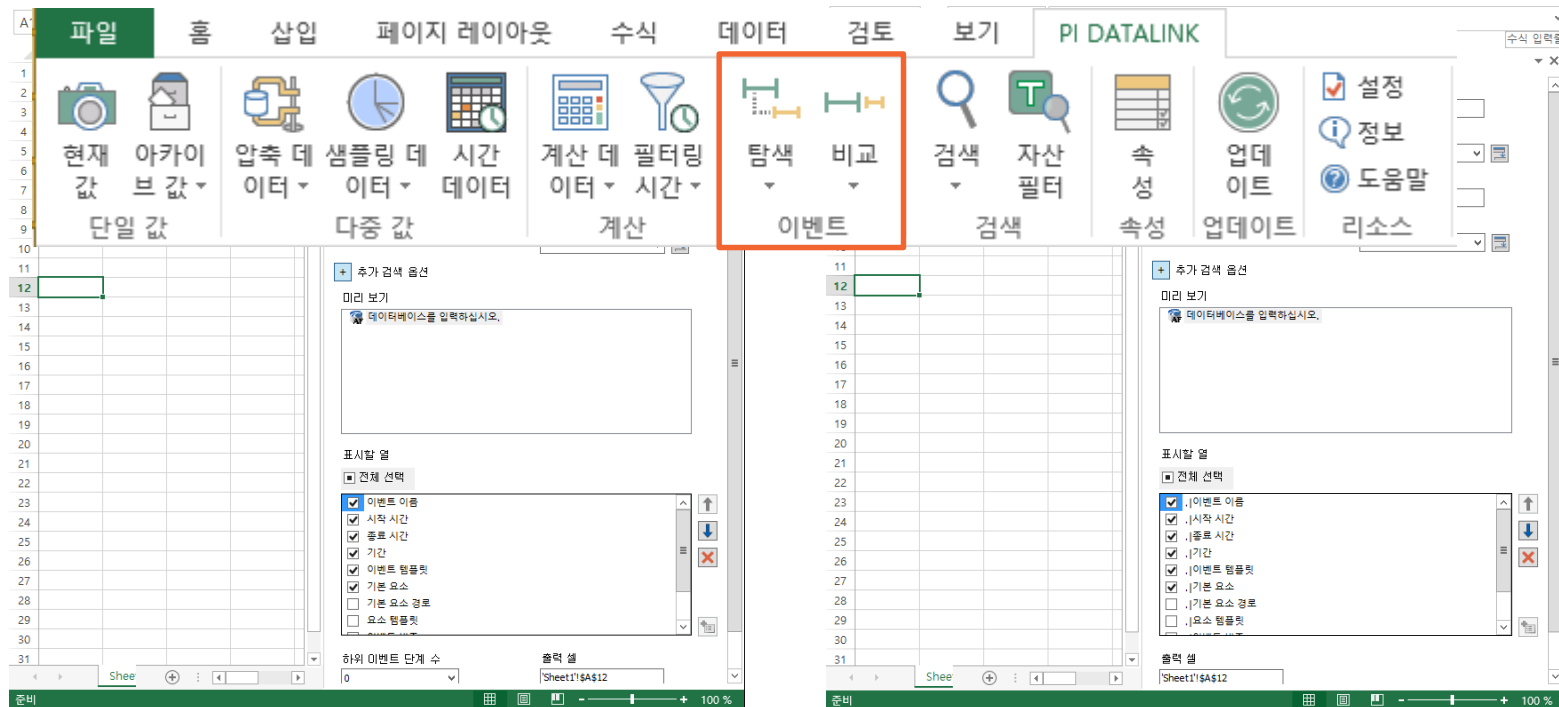
단계별 이벤트 지원

해당 설비 관련 이벤트 검색

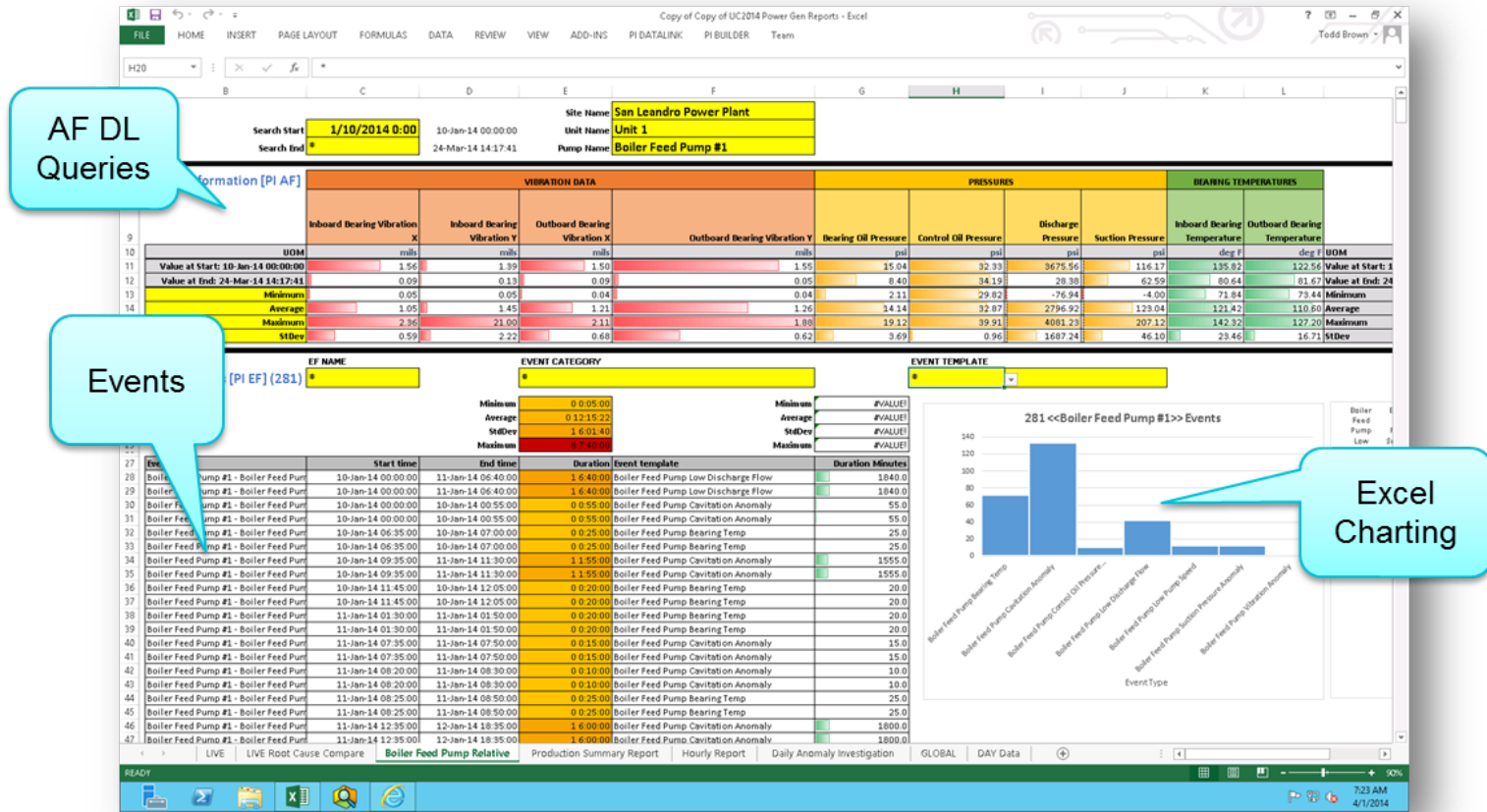
이벤트 특성 표시

이벤트 위에 데이터 추가

PI DataLink – PI Event Frames 검색 기능



PI Event Frames – PI DataLink



PI Event Frames – PI DataLink

일일
데이터

Select a DAY

2014_01_30

Search Start

1/1/2014

01-Jan-14 00:00:00

Search End

*

13-Mar-14 05:51:20

Unit Name

Unit 1

GENERAL INFORMATION

DAY NAME 2014_01_30
Site San Leandro Power Plant
Unit Unit 1
Start Time 30-Jan-14 00:00:00
End Time 31-Jan-14 00:00:00
Duration 10:00:00
Duration (min) 1440.0
Day of Week THURSDAY
Day Type WEEKDAY
Element Path WUCRPSYSRPowerGeneralGeneralOSISoftPowerASanLeandroPowerPlantUnit1

AMBIENT TEMPERATURE

Ambient Temperature 38.37
Ambient Temperature 45.66
Ambient Temperature 53.09

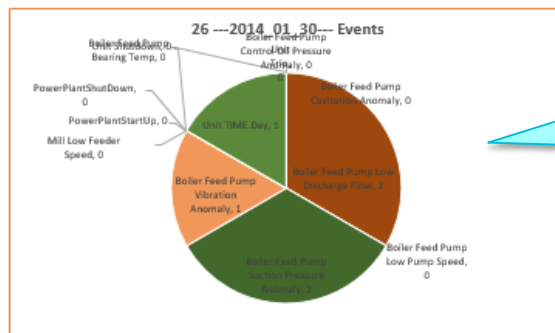
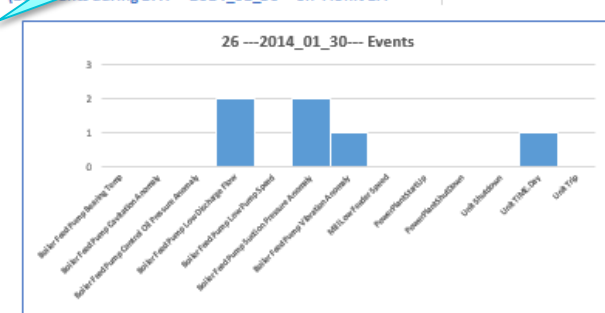
TURBINE OVERVIEW

HP Overall Efficiency 1.43
IP Overall Efficiency 5.36

GENERATOR OVERVIEW

Gross MW Start 1.57
Gross MW End 1.57
Gross MW Min 1.35
Gross MW Avg 1.50
Gross MW Max 1.57

26 Events during DAY -- 2014_01_30 -- on <<Unit 1>>



Excel
차트

EF Name

*

Event Category

*

Event Template

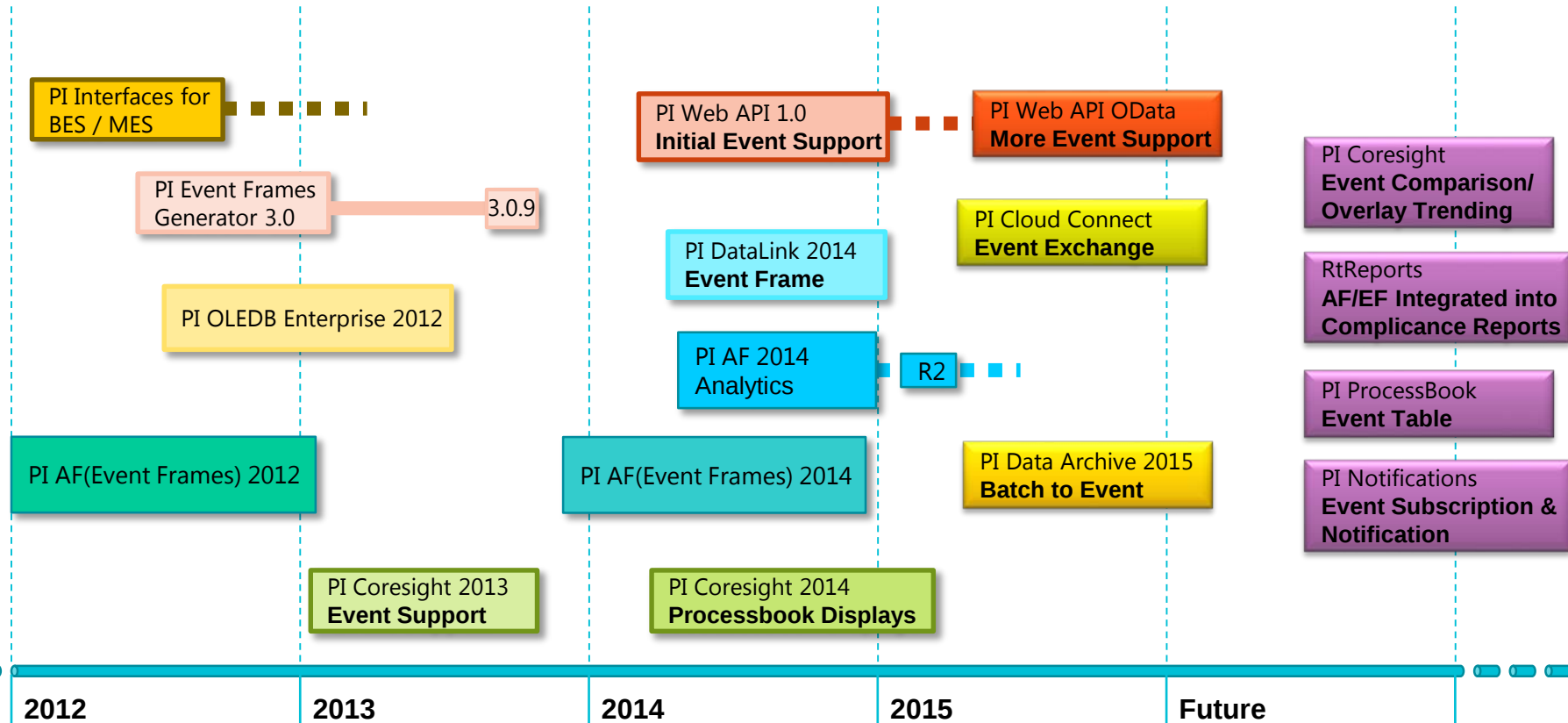
*

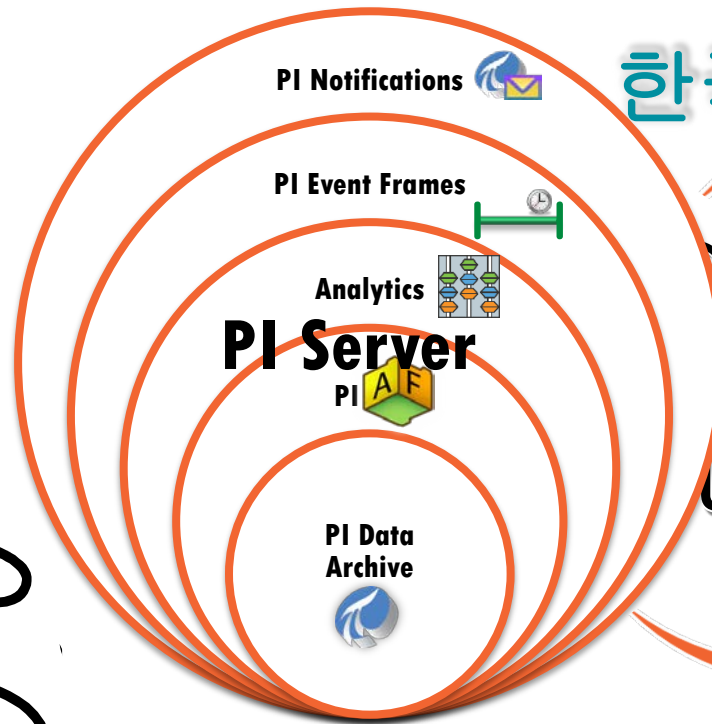
Events Active In Range

Relative Ti	Event name	Start tin	End tin	Duration	Event template	Primary eleme	Site Name	ration (mi
*****	Unit 1 - Unit Trip - 2014.01.24.21	24-Jan-14 21:30:00	31-Jan-14 05:15:00	6 7:45:00				9105.0
*****	Boiler Feed Pump #2 - Boiler Feed Pump Low Disc	*****	31-Jan-14 20:15:00	5 11:10:00	Boiler Feed Pump Low Discharge Flow		San Leandro Power Pla	7870.0
*****	Boiler Feed Pump #1 - Boiler Feed Pump Low Disc	*****	31-Jan-14 05:45:00	16:15:00	Boiler Feed Pump Low Discharge Flow		San Leandro Power Pla	1815.0
*****	Low Feeder Speed: Mill 2 2014-01-29 23:37:10.000	29-Jan-14 23:37:10	30-Jan-14 01:11:40	0 1:34:30				94.5
*****	2014_01_30	*****	31-Jan-14 00:00:00	10:00:00	Unit TIME.Day	Unit 1	San Leandro Power Pla	1440.0
*****	Low Feeder Speed: Mill 2 2014-01-30 13:47:00.000	30-Jan-14 13:47:00	30-Jan-14 14:40:20	0 0:53:20				53.3
*****	Low Feeder Speed: Mill 3 2014-01-30 14:35:50.000	30-Jan-14 14:35:50	30-Jan-14 16:13:40	0 1:37:50				97.8
*****	Low Feeder Speed: Mill 2 2014-01-30 15:00:20.000	30-Jan-14 15:00:20	30-Jan-14 15:13:10	0 0:12:50				12.8
*****	Low Feeder Speed: Mill 2 2014-01-30 15:59:40.000	30-Jan-14 15:59:40	30-Jan-14 16:14:30	0 0:14:50				14.8
00 -- 16:18:10	Low Feeder Speed: Mill 3 2014-01-30 16:18:10.000	30-Jan-14 16:18:10	30-Jan-14 16:23:50	0 0:05:40				5.7
*****	Boiler Feed Pump #1 - Boiler Feed Pump Suction P	30-Jan-14 16:20:00	31-Jan-14 03:30:00	0 11:10:00	Boiler Feed Pump Suction Pressure An		San Leandro Power Pla	670.0

이벤트

PI Event Frames





02-6137-3633

한국어 지원:

월~금

오전 9시~오후 5시

영어 지원:

24시간/365일

PI System
Access



LoB
Systems



PI Visualization
Suite



PI Coresight™



PI ProcessBook



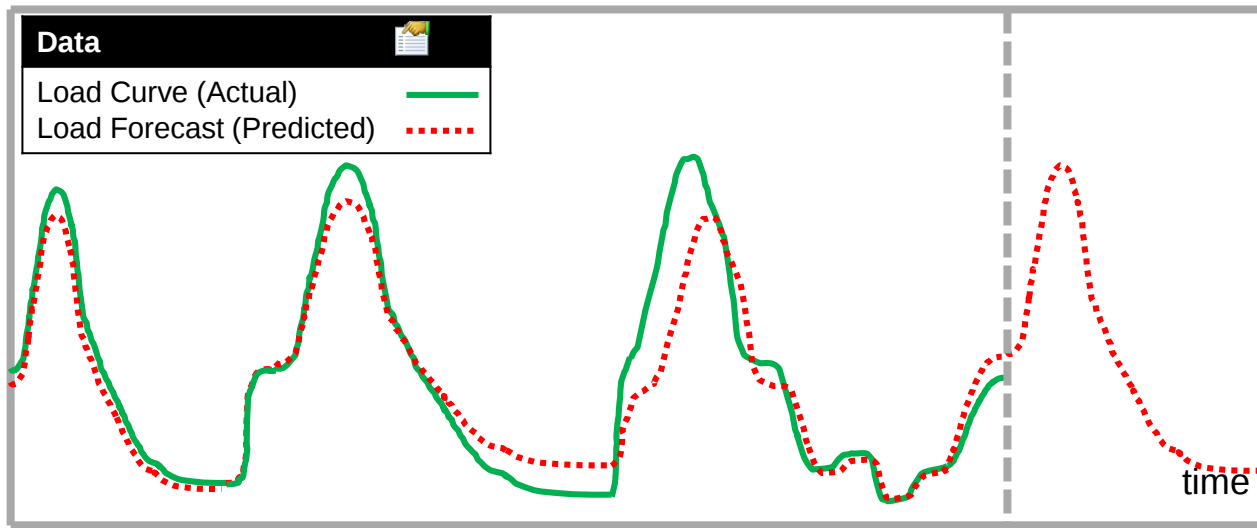
PI DataLink



PI WebParts



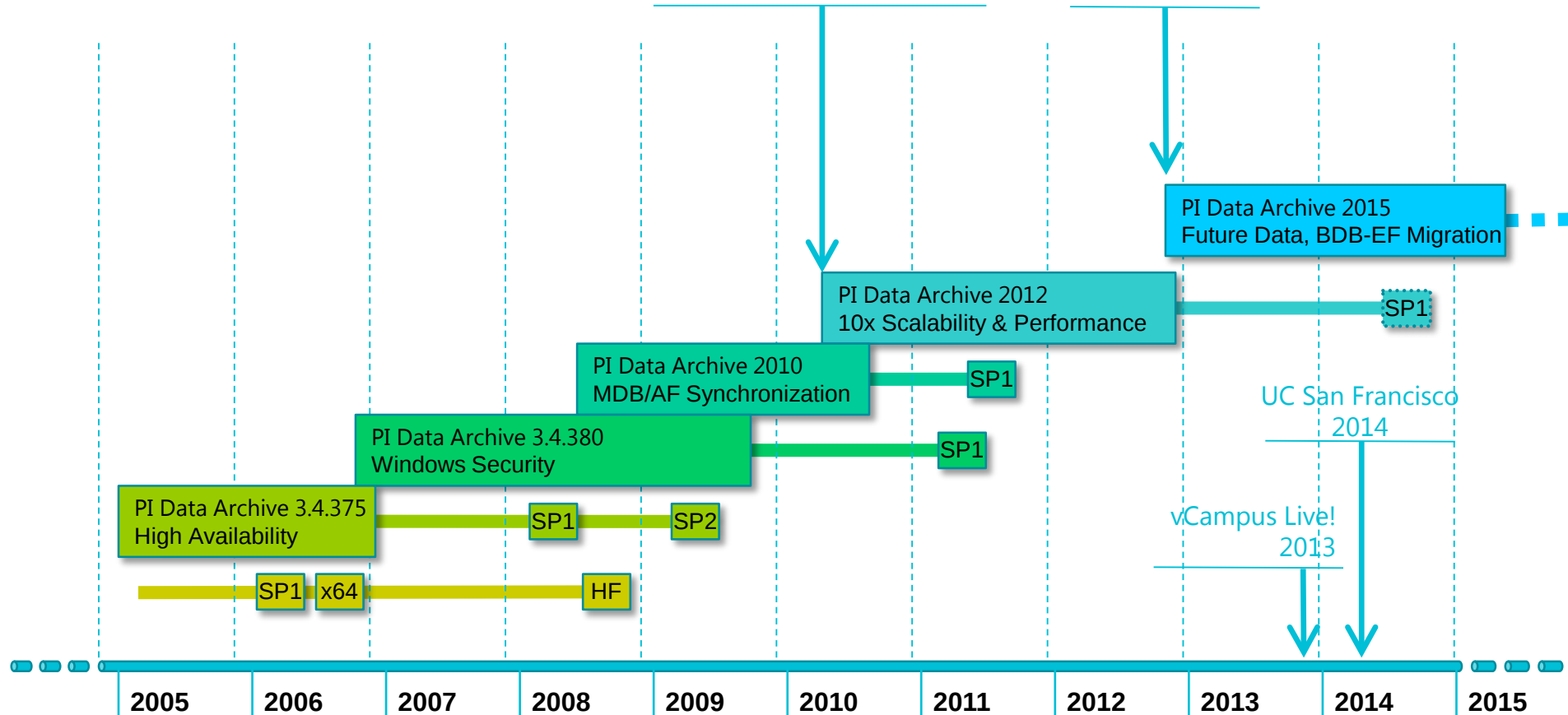
Theme 3: Future Data



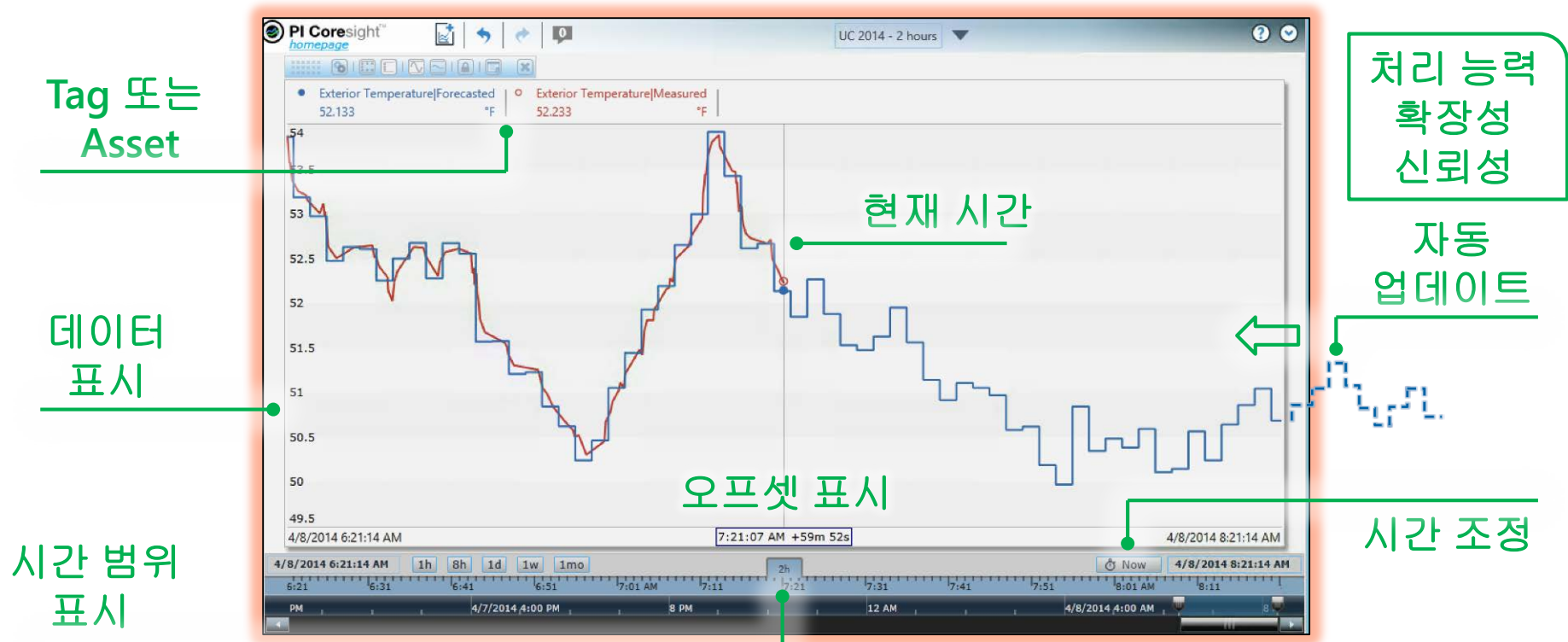
- PI Server 2015 Beta 2 출시!

Future Data considered,
Scalability @ higher priority

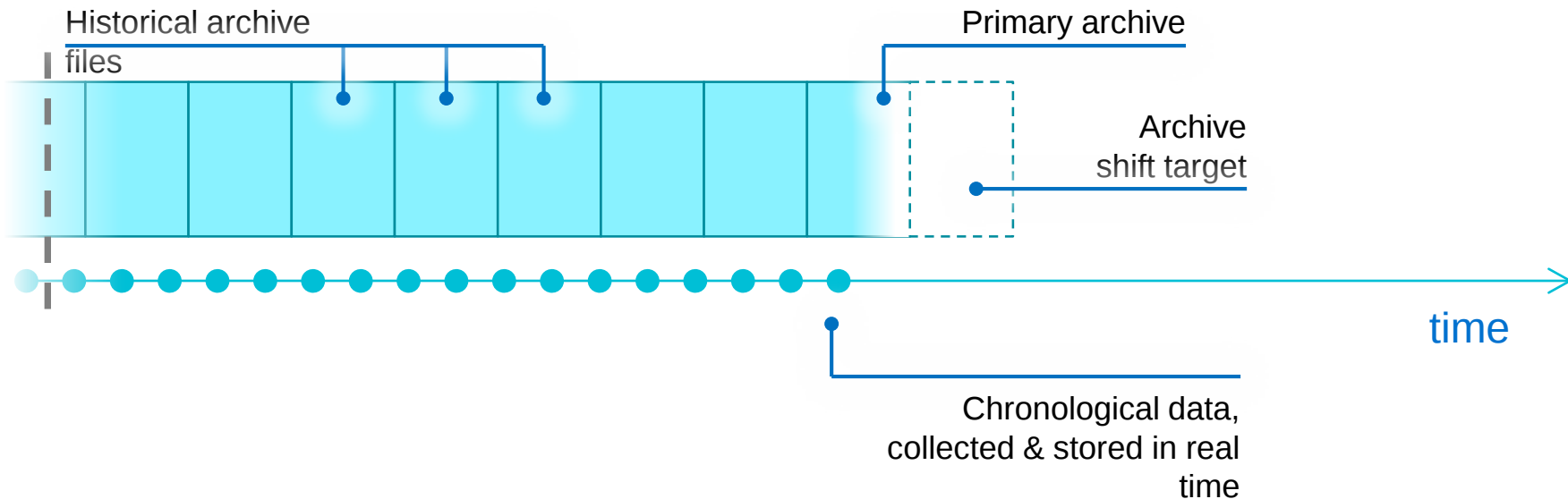
Actual start
on Future Data



Future Data - More Than Meets the Eye

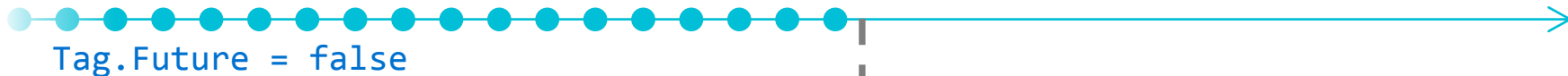
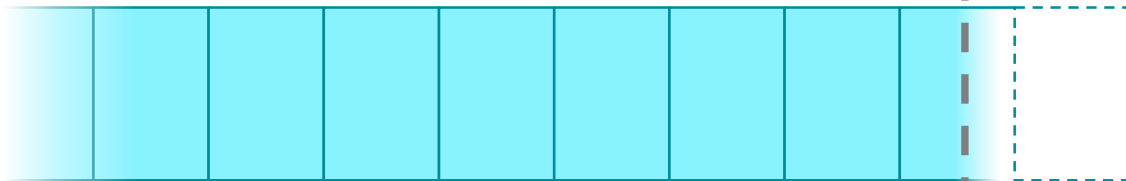


과거 데이터 수집 방법

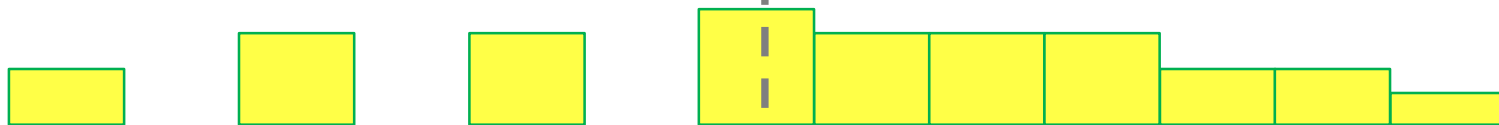


...미래 데이터 저장 방법

Historical Archive Set

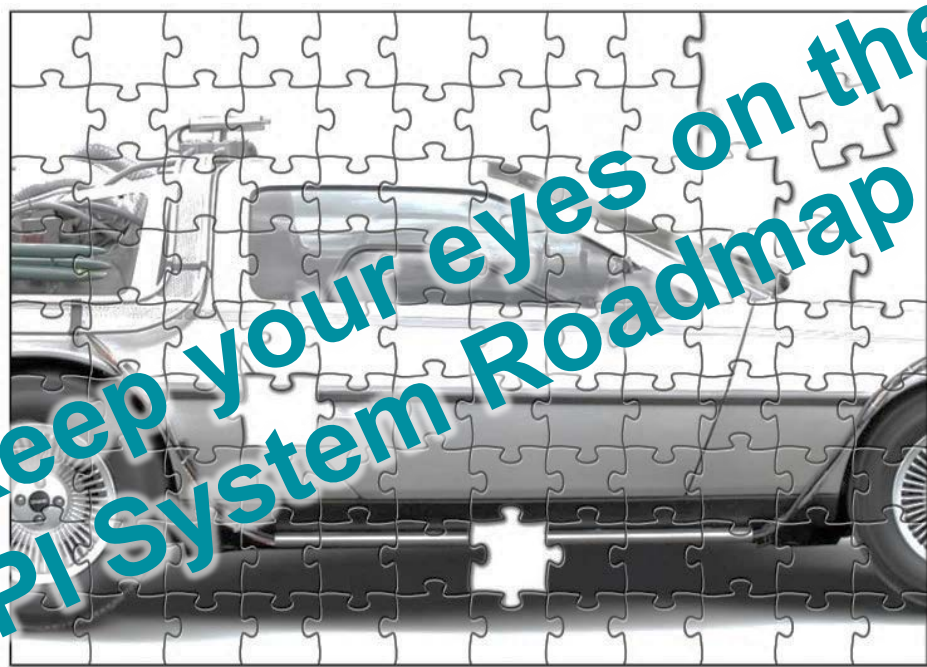


Future Archive Set



System-Wide Future Data

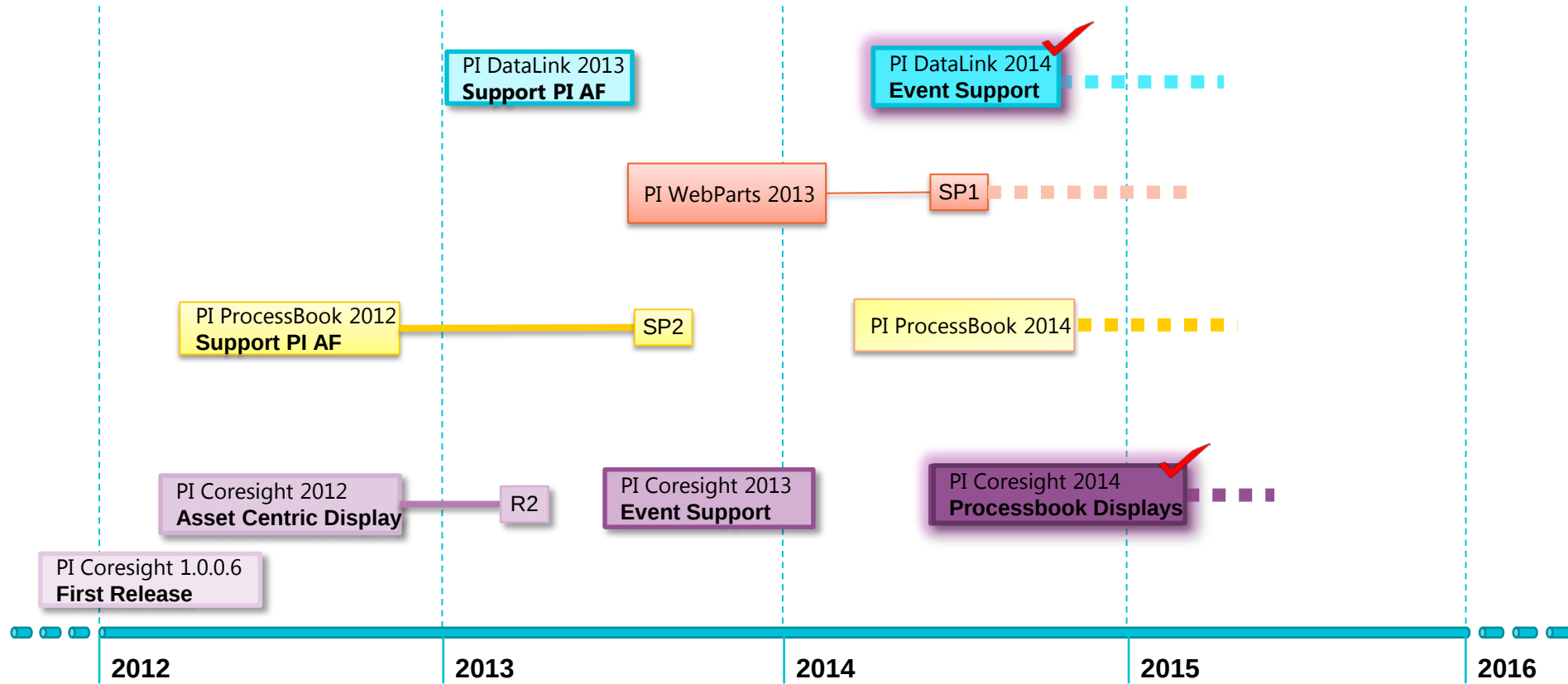
- PI Interfaces/Connectors
 - Data In
- PI Server
 - AF and Analytics
- Programmatic Access
 - PI AF SDK, Web API, ...
- Clients
 - PI DataLink, PI Coresight, ...



Theme 4: Mobility/Visualization

- 웹 기반 클라이언트
- 한 사용자가 다양한 디바이스로 접속 가능
- 예기치 않은 상황 발생 시 사용자에게 알림

Mobility/Visualization

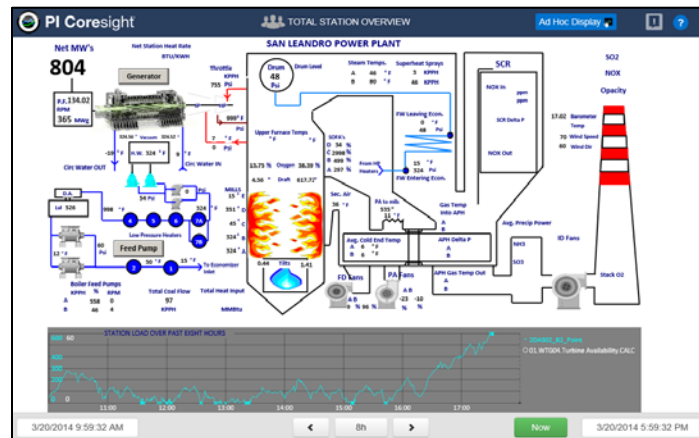


PI Coresight 2014

- HTML5를 지원하는 모든 브라우저에서 PI ProcessBook 디스플레이 지원
- 어떤 디바이스에서도 사용 가능한 모바일 웹사이트 개발
- PI Coresight 홈페이지로 디스플레이 정리 가능
- 비즈니스 어플리케이션 및 포털 사이트에 통합



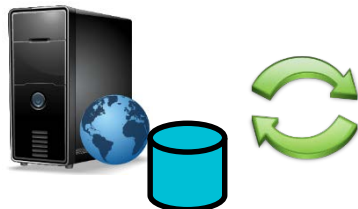
PI Coresight 2014 – PI ProcessBook 지원



PI Coresight 2014 – PI ProcessBook 지원

- PDI 또는 SVG 형식으로 디스플레이 저장
- 폴더 구조 그대로 업로드
- 공유 폴더에 있는 디스플레이 자동 업로드 및 업데이트

PI Coresight 2014



PI Coresight
Database

Import
Folder

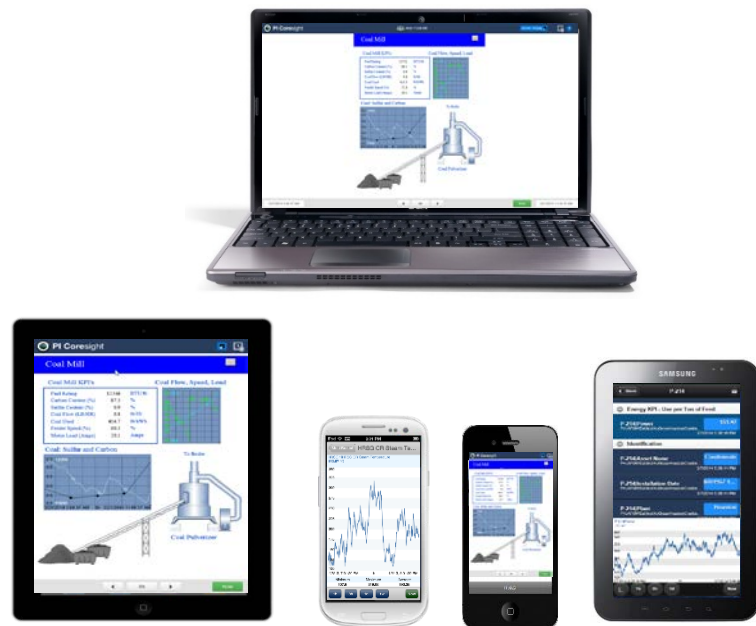


PI ProcessBook Displays



PI Coresight 2014 – 모바일 웹사이트

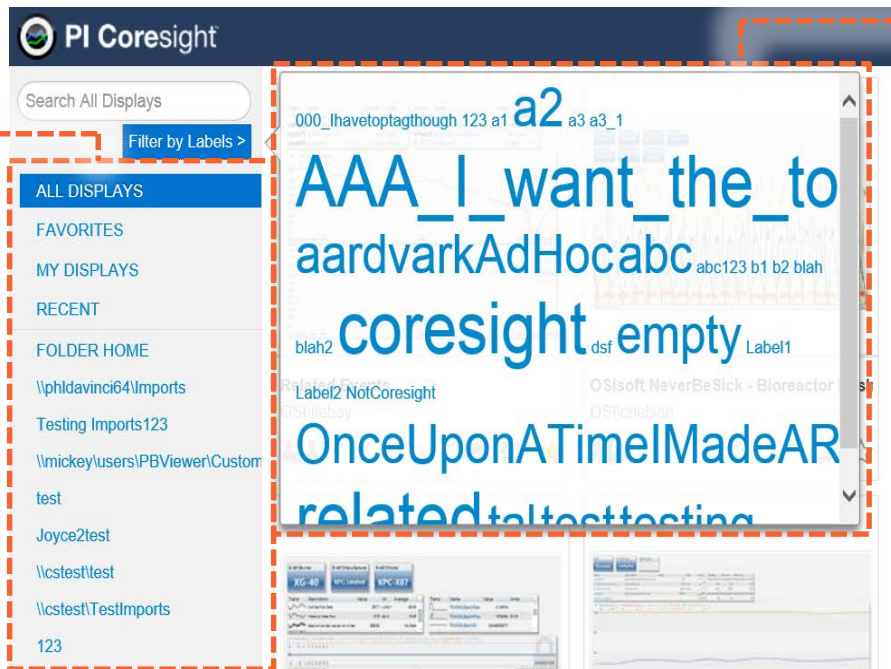
- 쉽고 빠르게 PI System 데이터에 접근
- PI ProcessBook 디스플레이
- 스크린 사이즈에 맞는 디스플레이 표시
- 어떤 디바이스에서도 사용 가능



PI Coresight 2014 – 새로운 홈페이지

라벨

폴더



PI Coresight 2014 – works where?



브라우저



Homepage



Mobile site



PB Displays



iPad
iPhone

앱



디바이스

PI DataLink

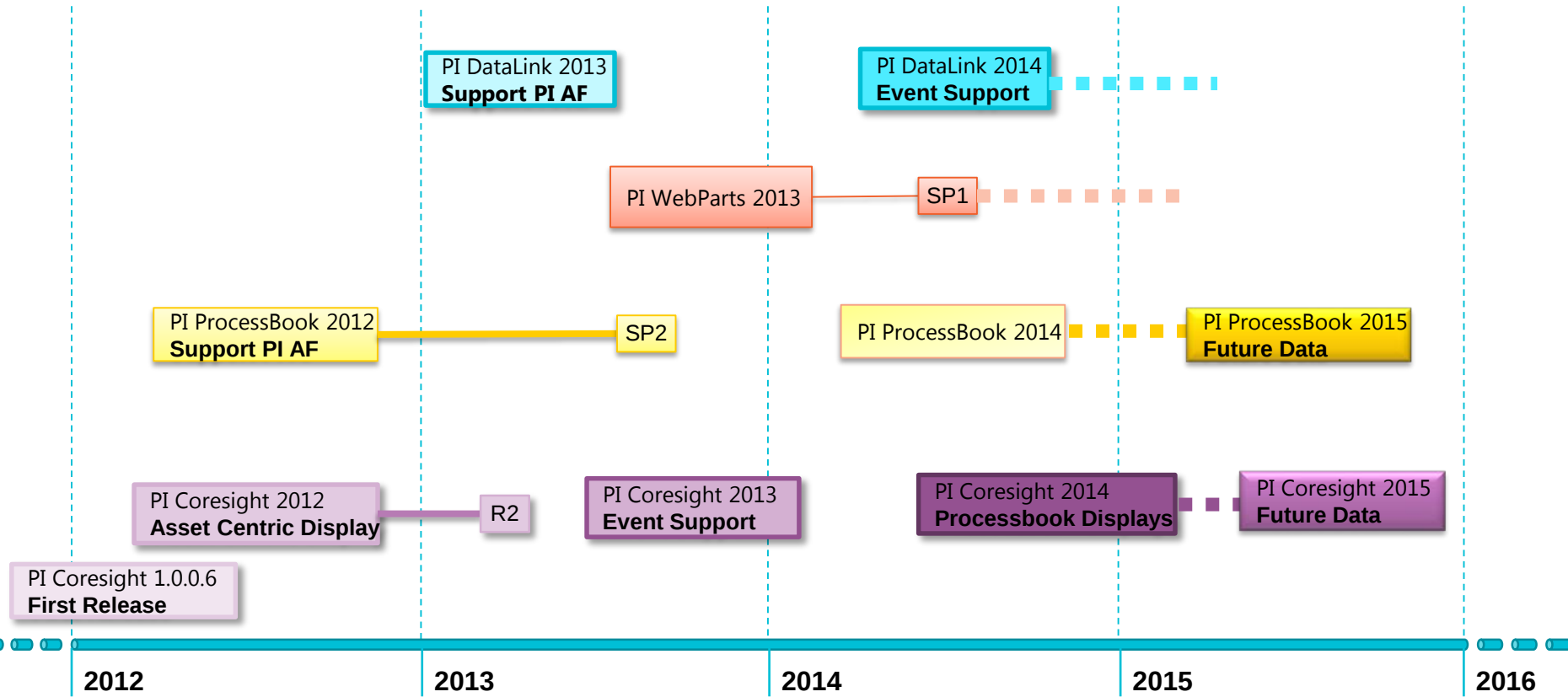
- PI DataLink 2014
 - PI Event Frames 검색 기능
 - PI AF 템플릿 필터 기능 추가
 - PI Tag 검색 기능 향상



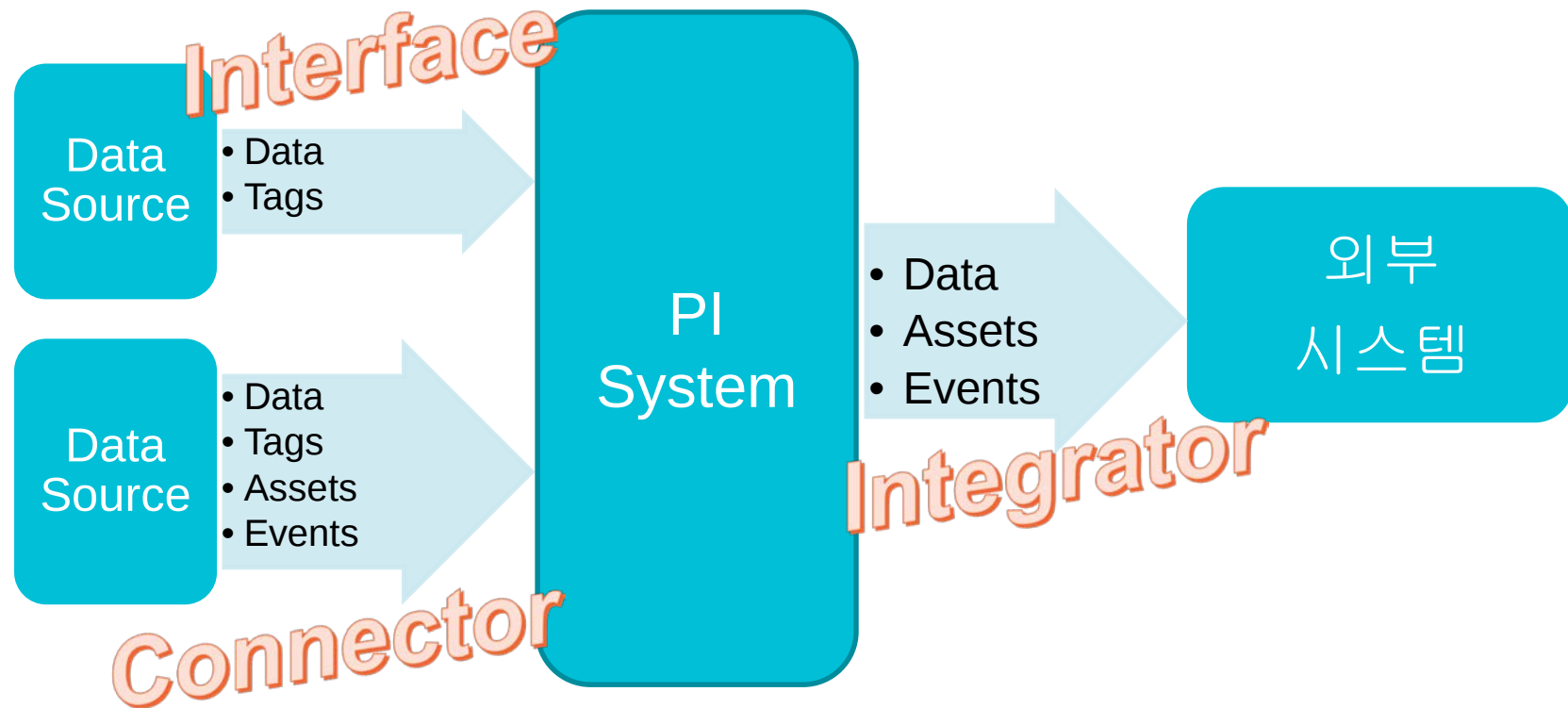
PI DataLink

- PI DataLink 2014
 - PI Event Frames 검색 기능
 - PI AF 템플릿 필터 기능 추가
 - PI Tag 검색 기능 향상
- PI DataLink Server 2014 (출시 예정)
 - Microsoft SharePoint 2010 및 2013 지원

Mobility/Visualization



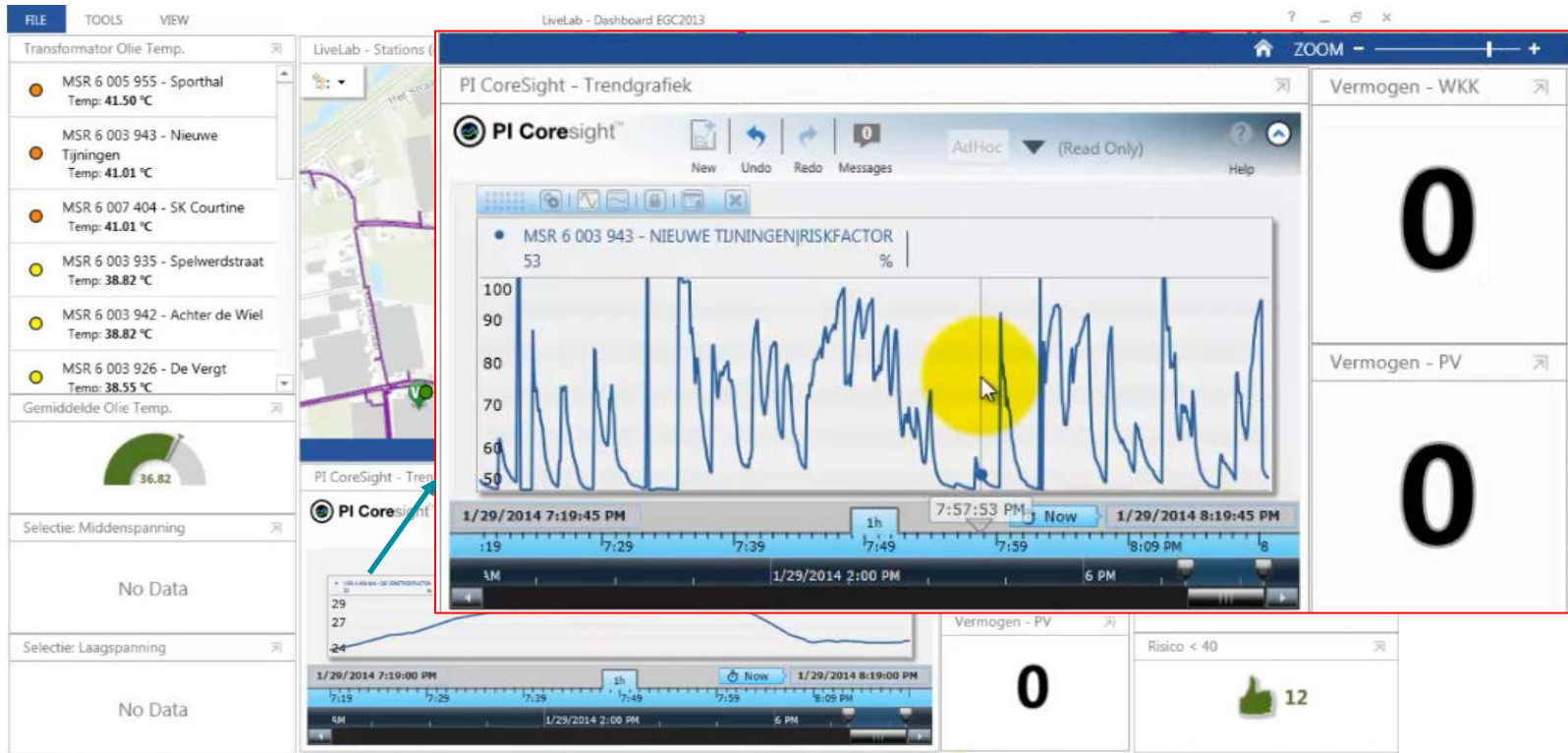
Theme 5: PI Integrator



PI Integrator

- PI Integrator for Esri ArcGIS

PI Integrator for Esri ArcGIS

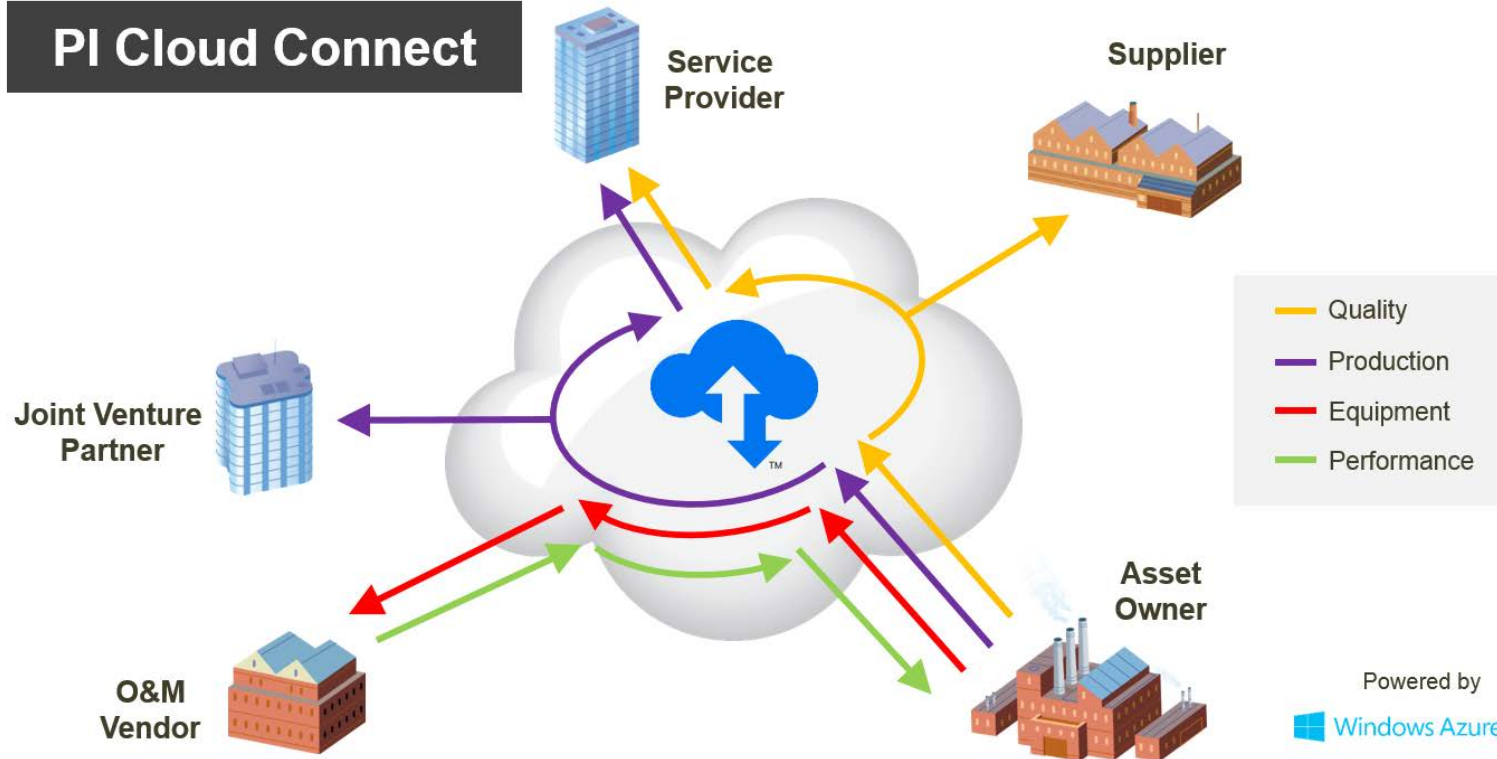


PI Integrator

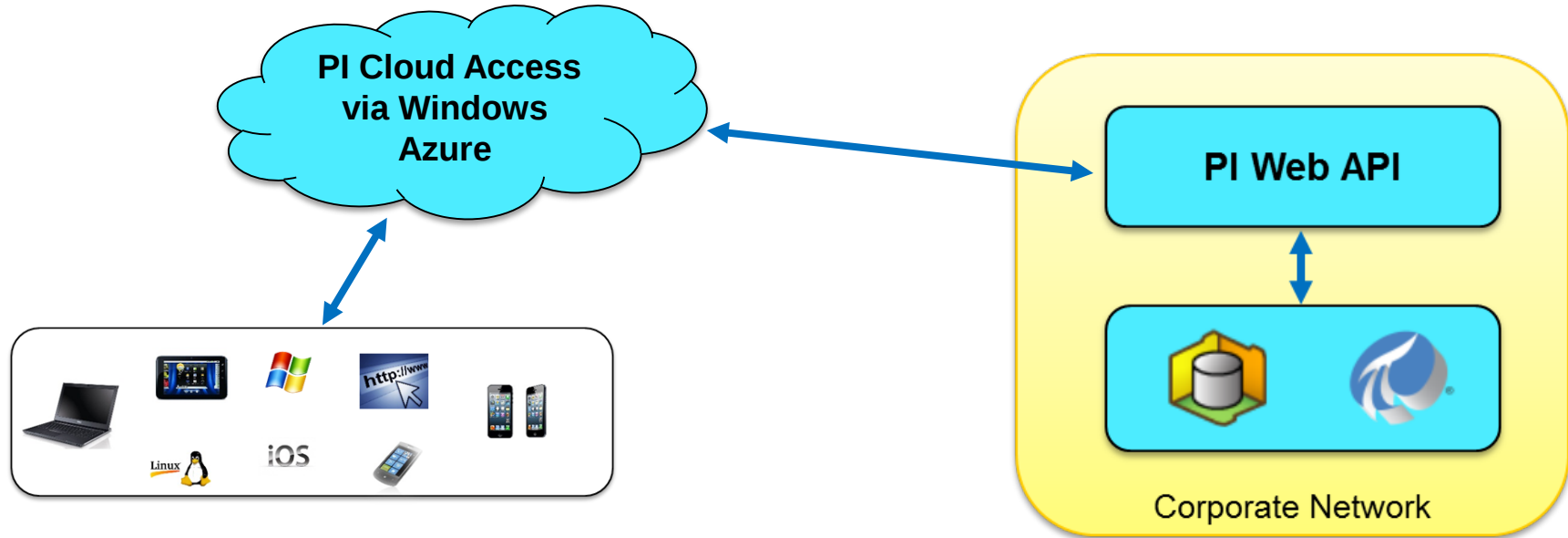
- PI Integrator for Esri ArcGIS
- Hadoop, Microsoft BI, SAP HANA 등의 비즈니스 시스템을 위한 PI Integrator 개발 중
- 현재 프로토타입 개발 중

Theme 6: Cloud Services

PI Cloud Connect



Cloud Services – PI Cloud Access



PI Cloud Access Roadmap

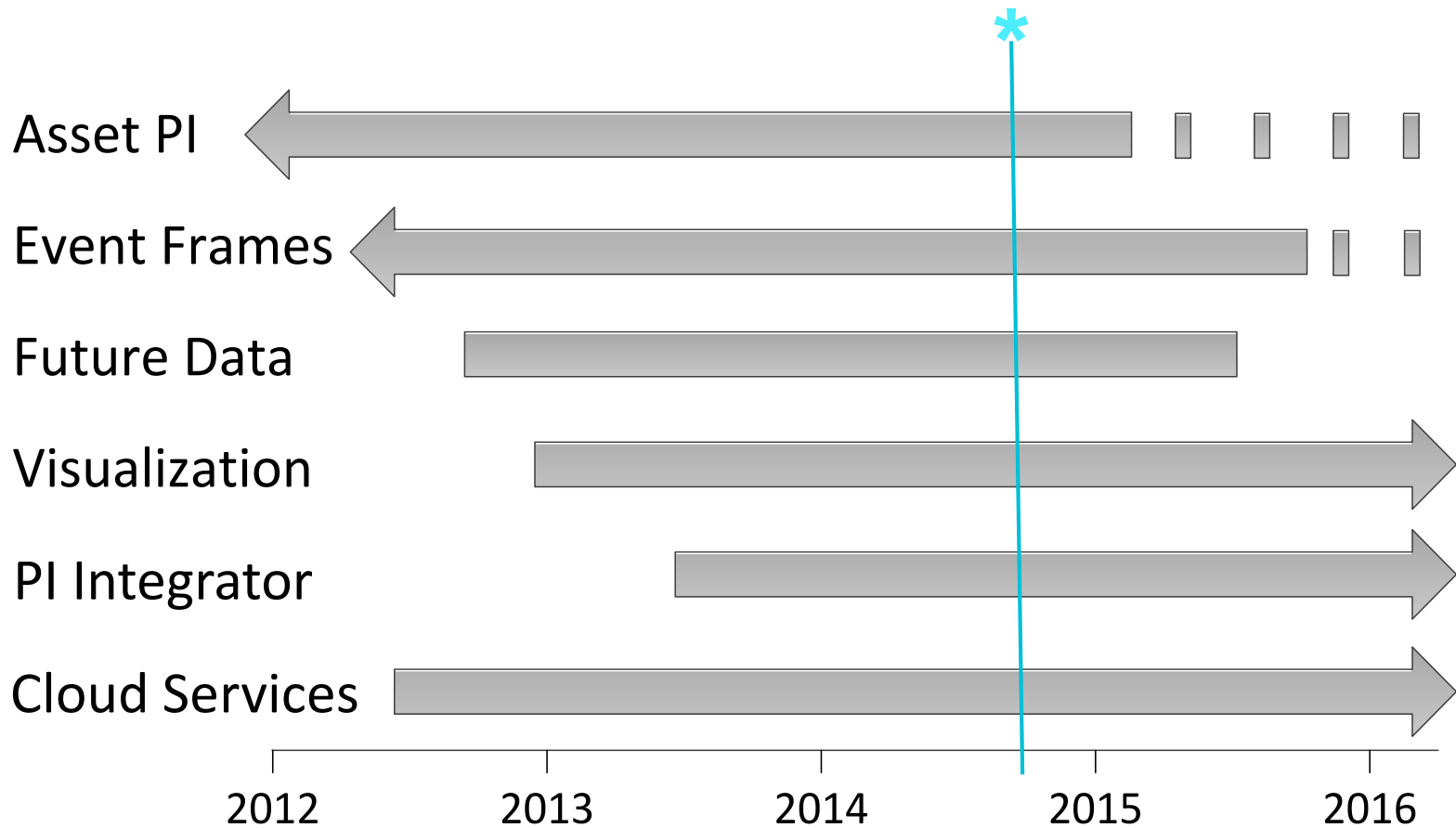


Q2/Q3
2014

- 성능
- 현재 Technical Preview 에 나온것과 비슷하게 “무료 체험 버전” 제공

Q4 2014

- 사용자의 Feedback 적용
- 윈도우 로그인 ID 사용 및 다른 인증 방식 지원



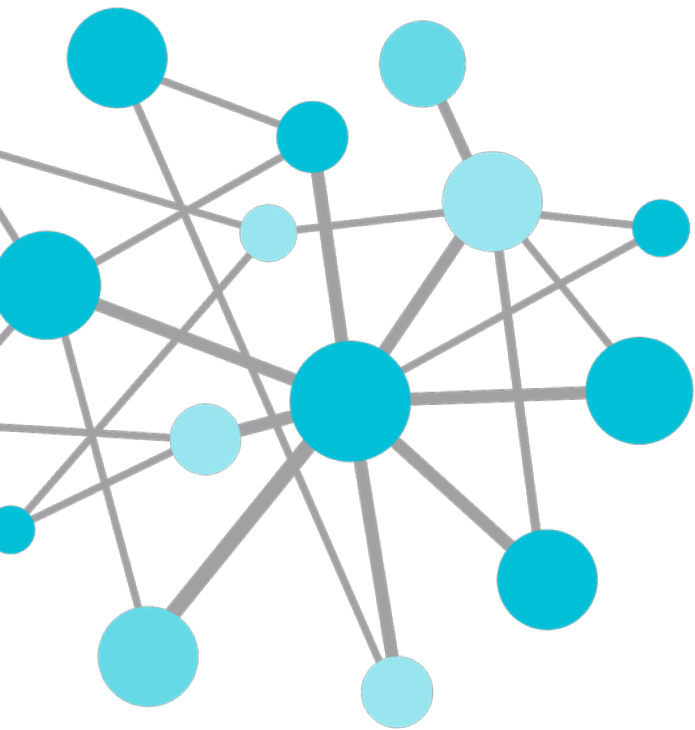
Mark Your Calendar



김유래

ykim@osisoft.com

Customer Support Engineer
OSIsoft Korea Co., Ltd.



THANK
YOU

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