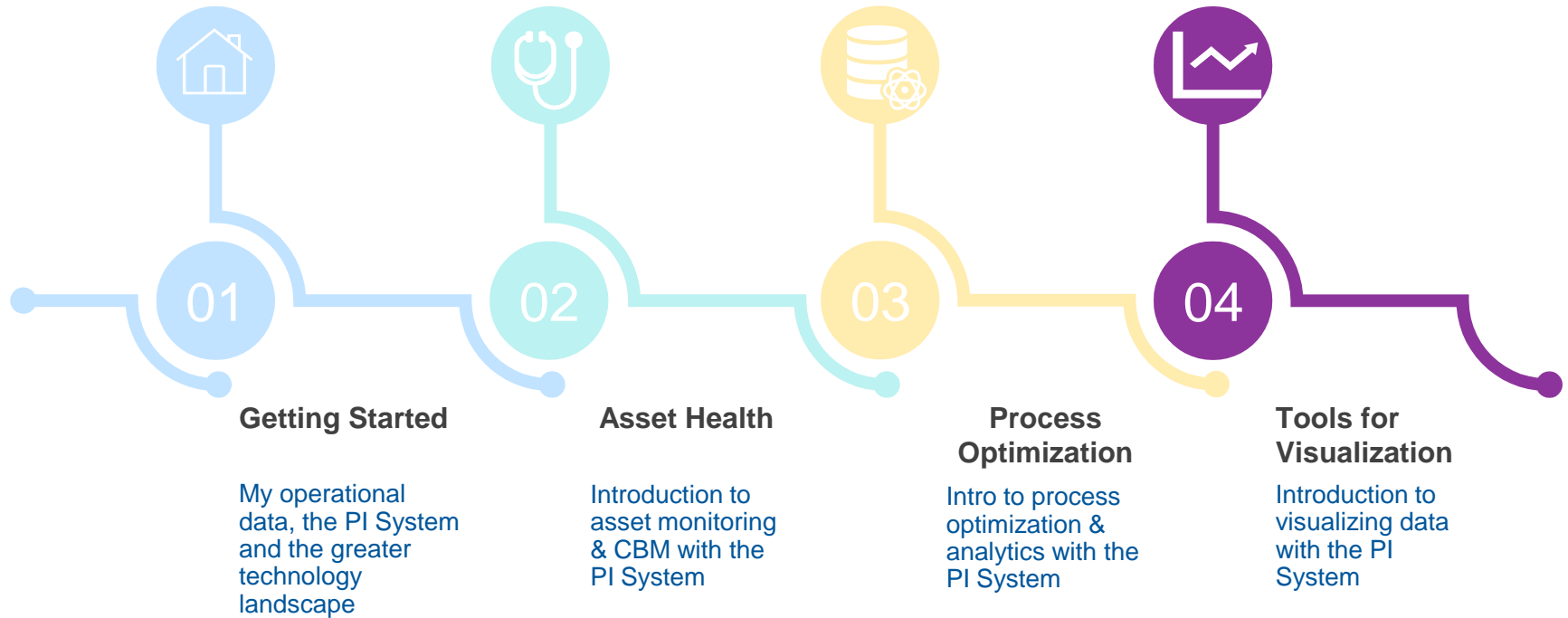


Live Polling in this session:
Use your mobile phone

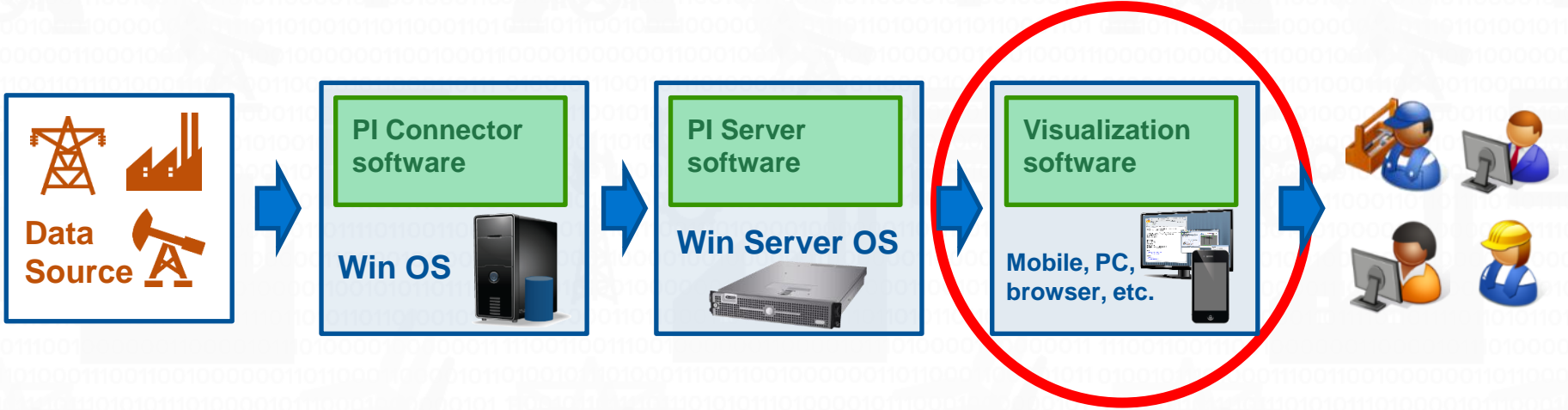
PI System Basics: Intro to Visualizing Data with the PI System

Presented by **Alicia Coppock**, Product Manager
Penny Gunterman, Product Marketing Manager

PI System Basics: Session-by-session journey



This session: Visualization Tools



Respond at → PollEV.com/OSIsoft2

**How familiar are you with
PI Vision or PI Coresight?**

Respond at → PollEV.com/OSIsoft2

**How familiar are you with
PI DataLink?**

Respond at → PollEV.com/OSIsoft2

**What is your role with your company's
visualization tools?**

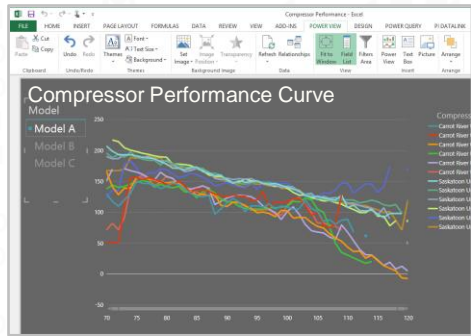
PI System visualization tools



PI Vision



Daily Operations Report				
From	Building	Alarm and Status	Building	CCMD4
21/Nov/18 00:00:00		Alarm Status	Building Information	16.000 102
22/Nov/18 00:00:00		Total Alarms Total Warnings	Supervisory Disturbance	16.000 102
	Electric Demand	Electric Demand Peak	Max Discharge	Energy Production
	kW	W	Wh	Wh
0:00	100.00	40.00	100.00	100.00
1:00	100.00	40.00	100.00	100.00
2:00	100.00	40.00	100.00	100.00
3:00	100.00	40.00	100.00	100.00
4:00	100.00	40.00	100.00	100.00
5:00	100.00	40.00	100.00	100.00
6:00	100.00	40.00	100.00	100.00
7:00	100.00	40.00	100.00	100.00
8:00	100.00	40.00	100.00	100.00
9:00	100.00	40.00	100.00	100.00
10:00	100.00	40.00	100.00	100.00
11:00	100.00	40.00	100.00	100.00
12:00	100.00	40.00	100.00	100.00
13:00	100.00	40.00	100.00	100.00
14:00	100.00	40.00	100.00	100.00
15:00	100.00	40.00	100.00	100.00
16:00	100.00	40.00	100.00	100.00
17:00	100.00	40.00	100.00	100.00
18:00	100.00	40.00	100.00	100.00
19:00	100.00	40.00	100.00	100.00
20:00	100.00	40.00	100.00	100.00
21:00	100.00	40.00	100.00	100.00



PI DataLink

What is PI Vision?

Intuitive web tool to visualize PI System data

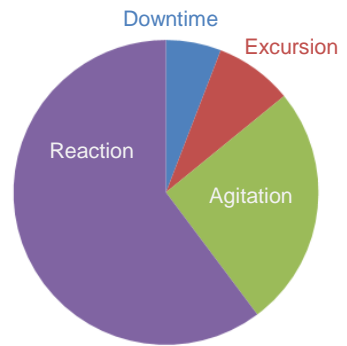
- Access data from any web browser, including **mobile** device browsers
- Build **displays** that update in real time
- Collaborate and **share** comments across the company
- Deploy and **roll-out rapidly**



Navigation	\\DFPIAF\MyAFDB\Creative Chemicals\Columbus\Factory 1
Start time	11/5/14 12:00 AM
End time	11/10/14 12:00 AM

Root Path \\DFPIAF\MyAFDB\Creative Chemicals\Columbus\Factory 1\RE100

Process Inform	Concentration	Temperature	Level
Value at start	35.87605286	13.99180984	61.10842
Value at end	0	0.004323808	0.189985
Average	61.39298073	34.20629498	39.88821
StDev	42.16077136	35.6037133	23.99597



Event Informat	Total Events: 439	Max	0 1:42:01
Event name	*	Min	0 0:00:01
Event template	*	Avg	0 0:33:41
		StDev	0 0:42:29

Event name	Start time	End time	Duration	Event template
EX20141105 0:09	05-Nov-14 00:09:09	05-Nov-14 00:11:37	0 0:02:28	Excursions.Temp
EX20141105 0:17	05-Nov-14 00:16:37	05-Nov-14 00:21:37	0 0:05:00	Excursions.Temp
EX20141105 0:25	05-Nov-14 00:24:38	05-Nov-14 00:25:38	0 0:01:00	Excursions.Temp
DT20141105 0:26	05-Nov-14 00:26:06	05-Nov-14 00:29:06	0 0:03:00	Downtime
20141105 1:14	05-Nov-14 01:14:07	05-Nov-14 02:56:07	0 1:42:00	EFSimUnitProcedure
Reaction 20141105 C	05-Nov-14 01:15:37	05-Nov-14 02:57:38	0 1:42:01	Reaction
DT20141105 1:26	05-Nov-14 01:26:06	05-Nov-14 01:29:06	0 0:03:00	Downtime
Agitation 20141105	05-Nov-14 01:27:37	05-Nov-14 01:33:37	0 0:06:00	Agitation
Agitation 20141105	05-Nov-14 01:51:37	05-Nov-14 02:33:37	0 0:42:00	Agitation
EX20141105 2:06	05-Nov-14 02:05:38	05-Nov-14 02:33:38	0 0:28:00	Excursions.Temp
DT20141105 2:26	05-Nov-14 02:26:06	05-Nov-14 02:29:06	0 0:03:00	Downtime
20141105 3:11	05-Nov-14 03:11:07	05-Nov-14 04:53:07	0 1:42:00	EFSimUnitProcedure
Reaction 20141105 C	05-Nov-14 03:12:37	05-Nov-14 04:54:37	0 1:42:00	Reaction
Agitation 20141105	05-Nov-14 03:23:37	05-Nov-14 04:54:37	0 1:31:00	Agitation
DT20141105 3:26	05-Nov-14 03:26:06	05-Nov-14 03:29:06	0 0:03:00	Downtime
EX20141105 4:03	05-Nov-14 04:02:38	05-Nov-14 04:29:38	0 0:27:00	Excursions.Temp
DT20141105 4:26	05-Nov-14 04:26:06	05-Nov-14 04:29:06	0 0:03:00	Downtime
20141105 5:08	05-Nov-14 05:08:07	05-Nov-14 06:50:07	0 1:42:00	EFSimUnitProcedure
Reaction 20141105 C	05-Nov-14 05:09:37	05-Nov-14 06:51:37	0 1:42:00	Reaction

What is PI DataLink?

Operational reporting made easy

- Integrates with **Microsoft Excel**
- Enables access to PI System data for **reports**
- Allows **summary calculations** and **filtering**
- Access to **Excel functionalities & charts**

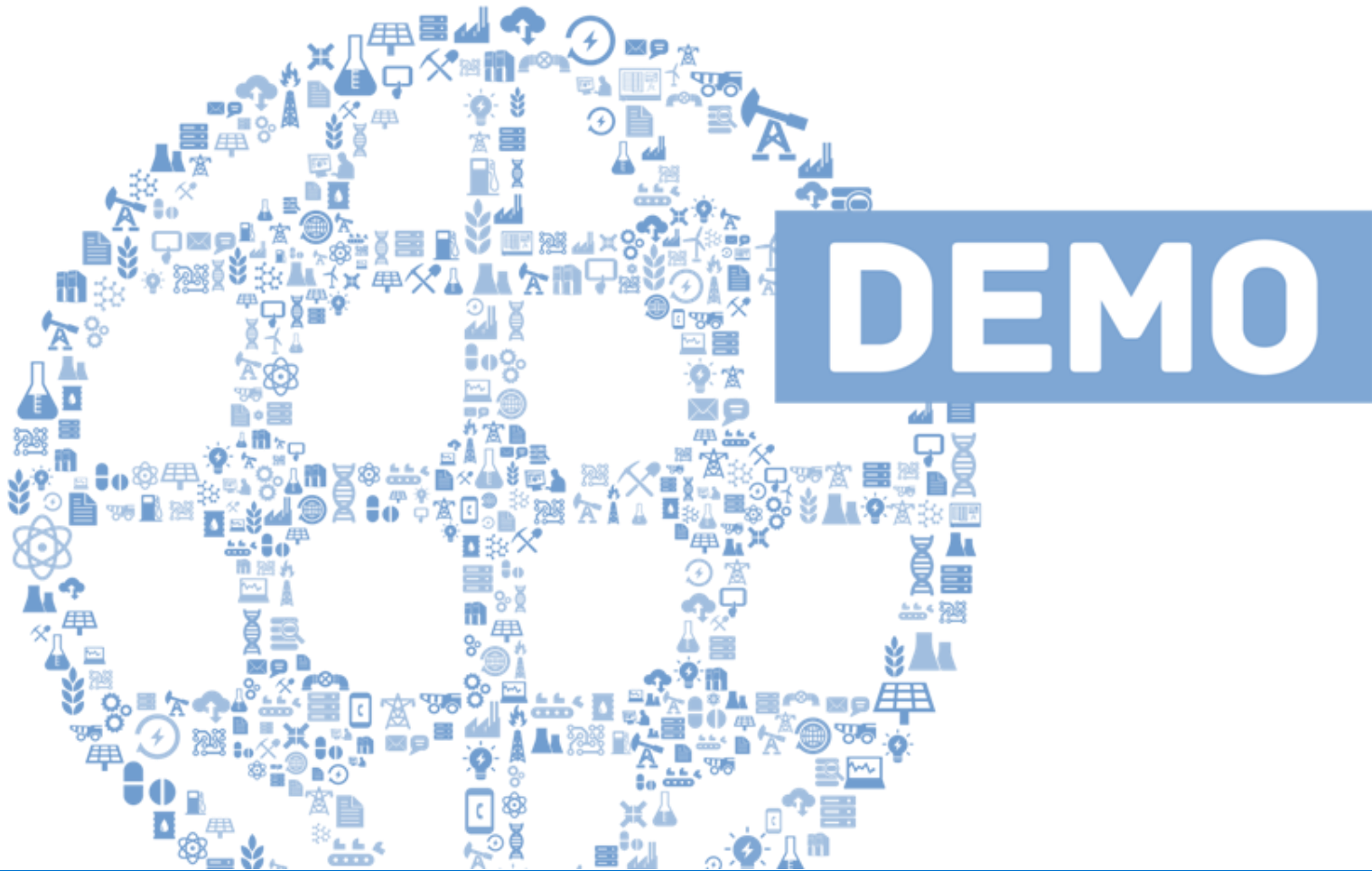
PI Visualization tools demonstration characters



Penny – busy engineer from turbine maintenance team at Windy Hills site



Alicia – Asset health engineer from Big Buffalo site





Recycle Bin



Google Chrome



WinDirStat

 Windows Server 2012 R2



6:38 AM
10/17/2017

PI System visualization tools



PI Vision:

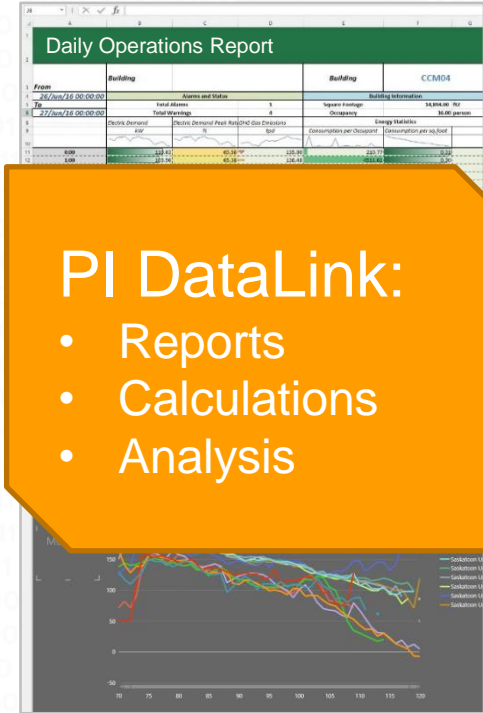
- Dashboards
- Real-time Monitoring
- Collaboration and Analysis

Desktop

PI Vision



Mobile



PI DataLink:

- Reports
- Calculations
- Analysis

Spreadsheets

PI DataLink

Product Talks & Booth for Visualization

PI Vision 2017

Day 3 12:15 – 13:00

Arora 11

- Alicia Coppock, Rene Thomassen

Visualizing PI System Data Booth

Partner & Product Expo

Arora Foyer



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to improve our
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