



# OSISOFT **USERS CONFERENCE** 2004

D I S C O V E R   Y O U R   P O R T A L   T O   P E R F O R M A N C E

# Schedule Changes

- Citgo moved to Wednesday at 10:00 in Salon 10 replacing Saudi Aramco presentation
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# PI

## *Plant Information*

**Stacy Koos**



**Progress Energy**

# OBJECTIVES:

- Why **PI**?
- Who uses it?
- Data storage.
- How is **PI** used?
- Use ProcessBook!

# Why **PI**?

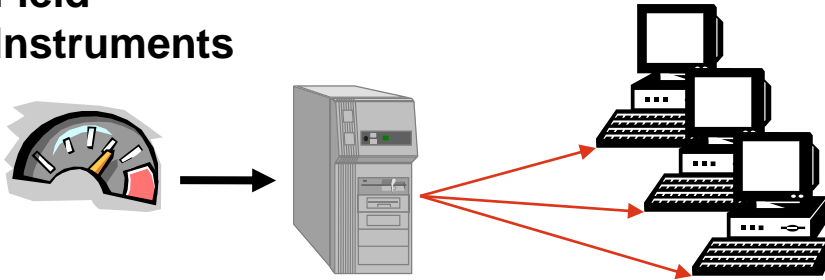
- ❑ Standardize Progress Supply Trending Tools
- ❑ Collects data from many Distributed Control Systems
- ❑ *Easy to use!*

# Who uses PI...

- 400 PI Systems installed within Power Industry
- Over 2500 installed in process industries worldwide
- 34 PI Servers in Progress Energy

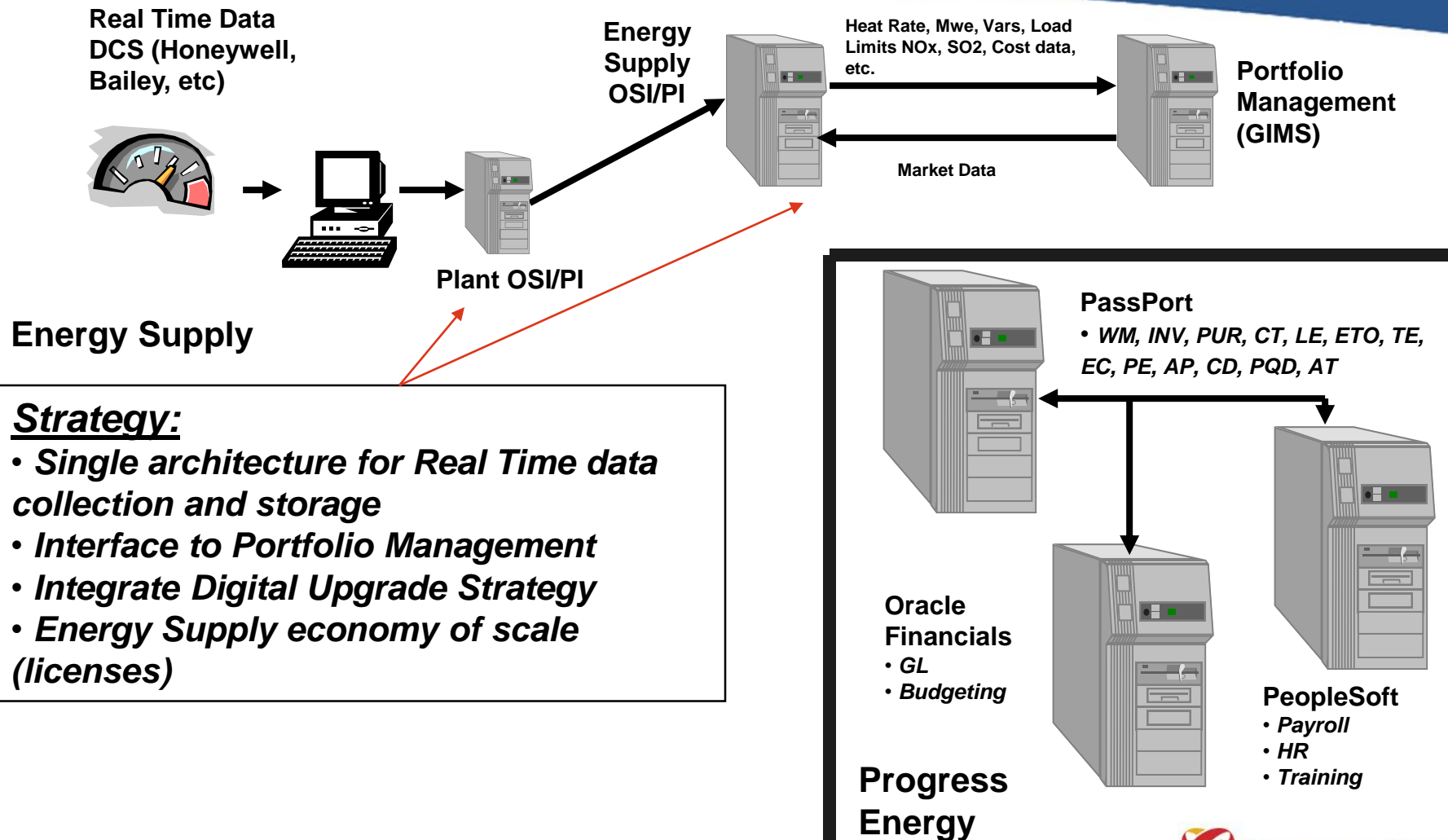
# Energy Supply Model

**Field  
Instruments**



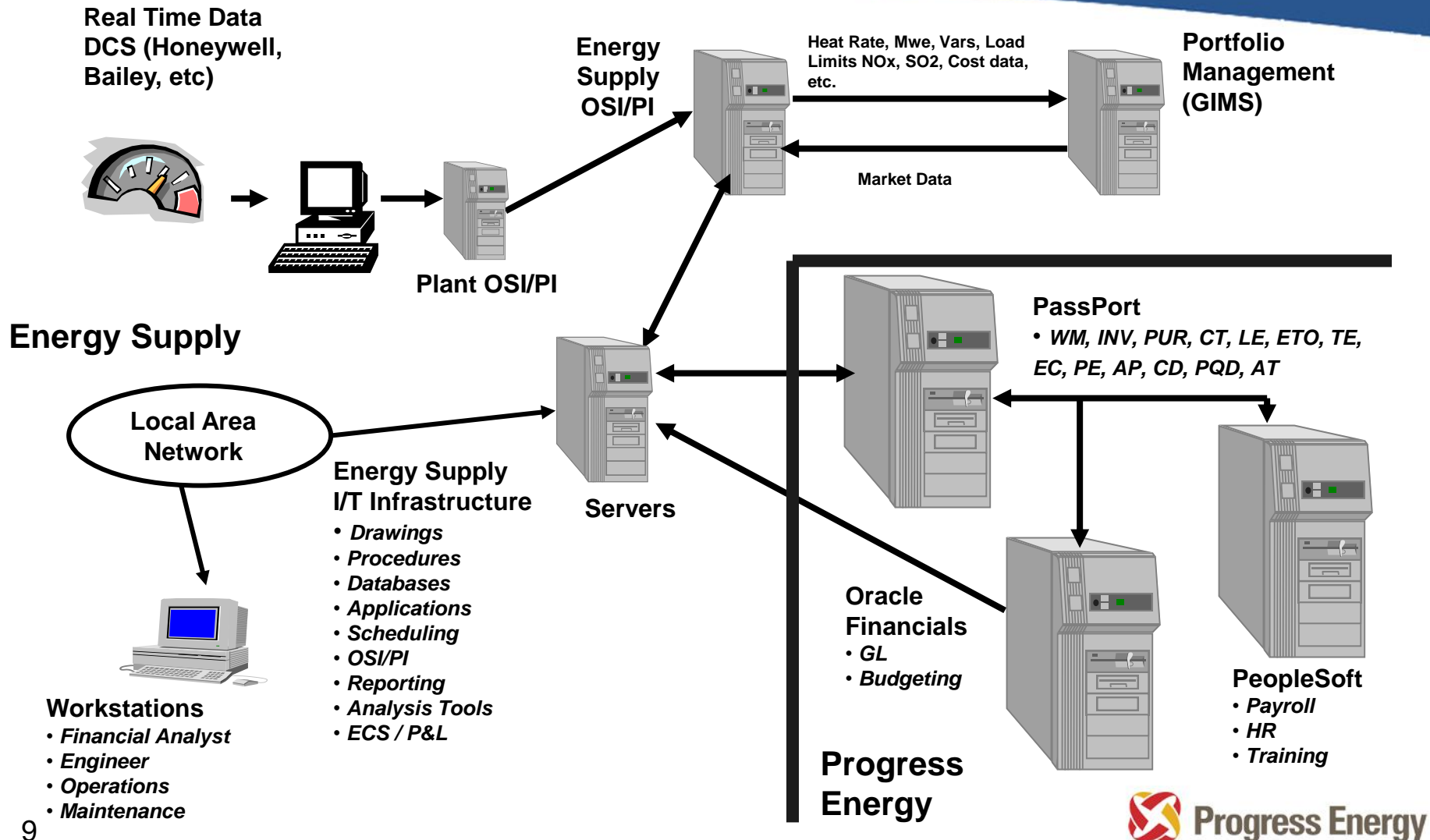
**Real Time Computer  
Systems DCS  
(Honeywell, Bailey,  
etc)**

# Energy Supply Model





# Energy Supply Model



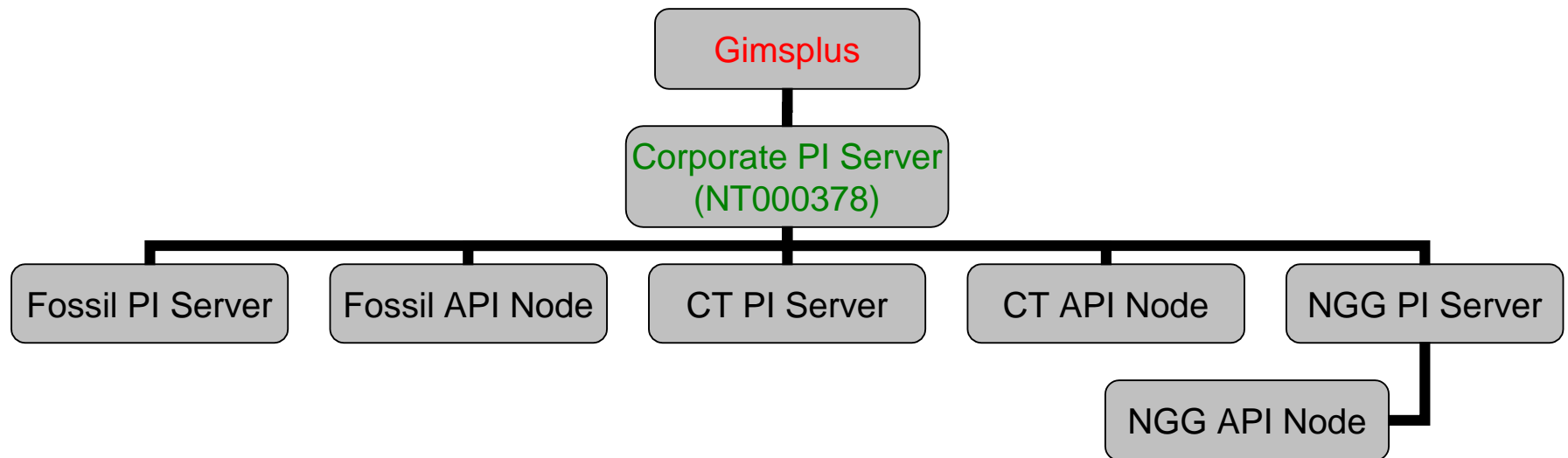
# Gims

Heat Rate, Mwe, Vars, Load  
Limits NOx, SO2, Cost data,  
etc.



**Progress Energy**

# How is PI data used in Progress Energy:



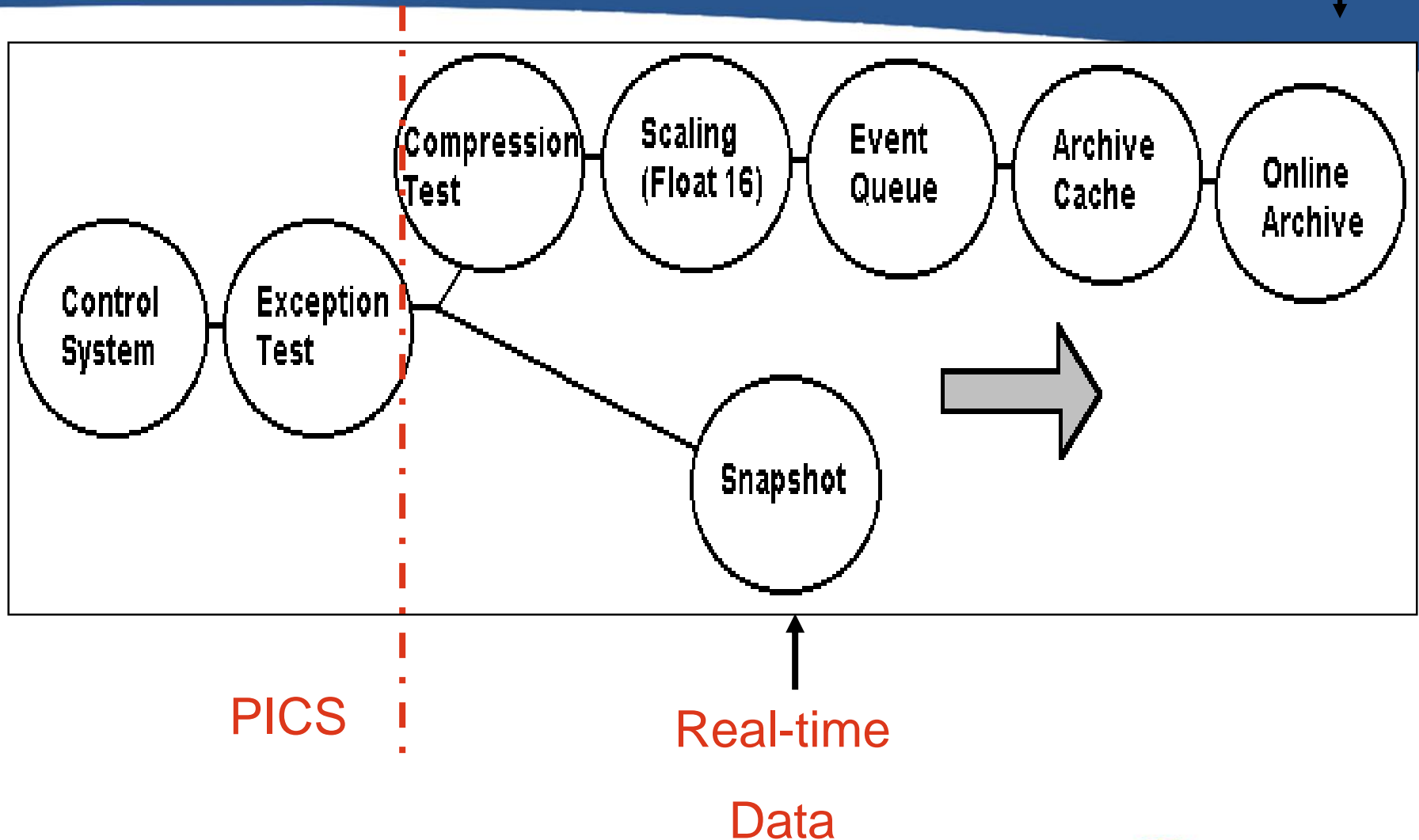
# What is this data used for?

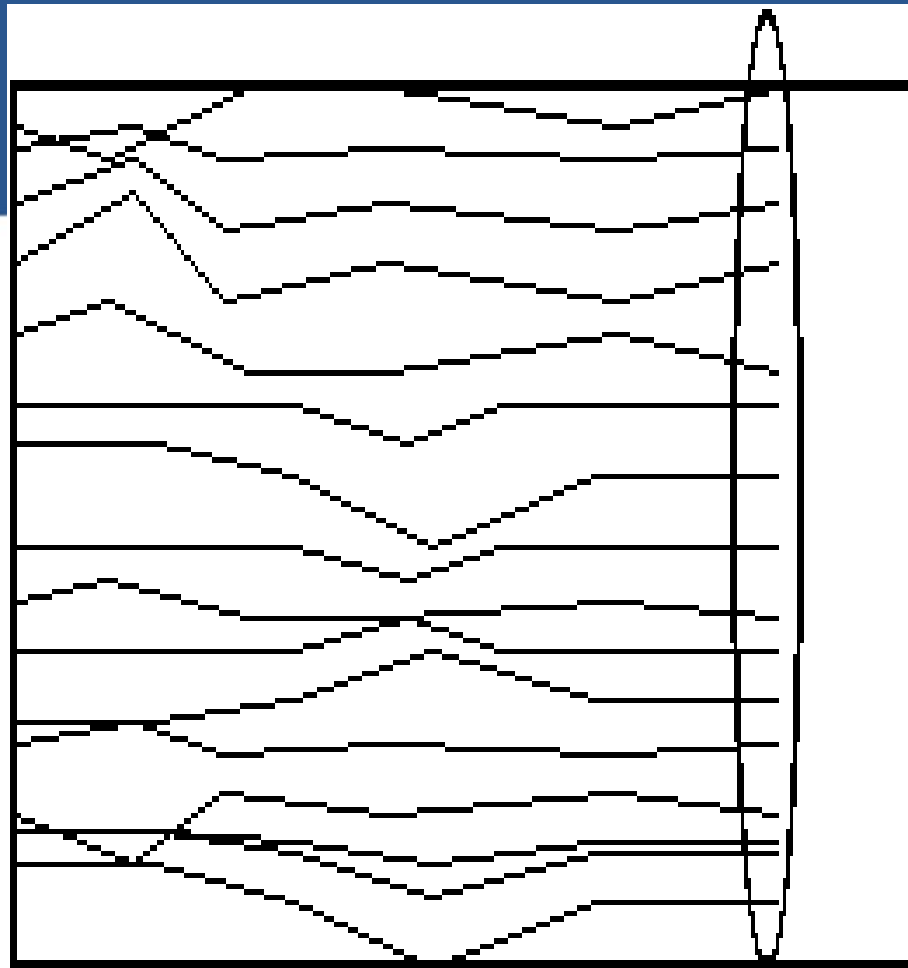
- Market Data
- Reports power to pagers in Progress Supply
  - Plant Status

# Other devices that can connect to PI:



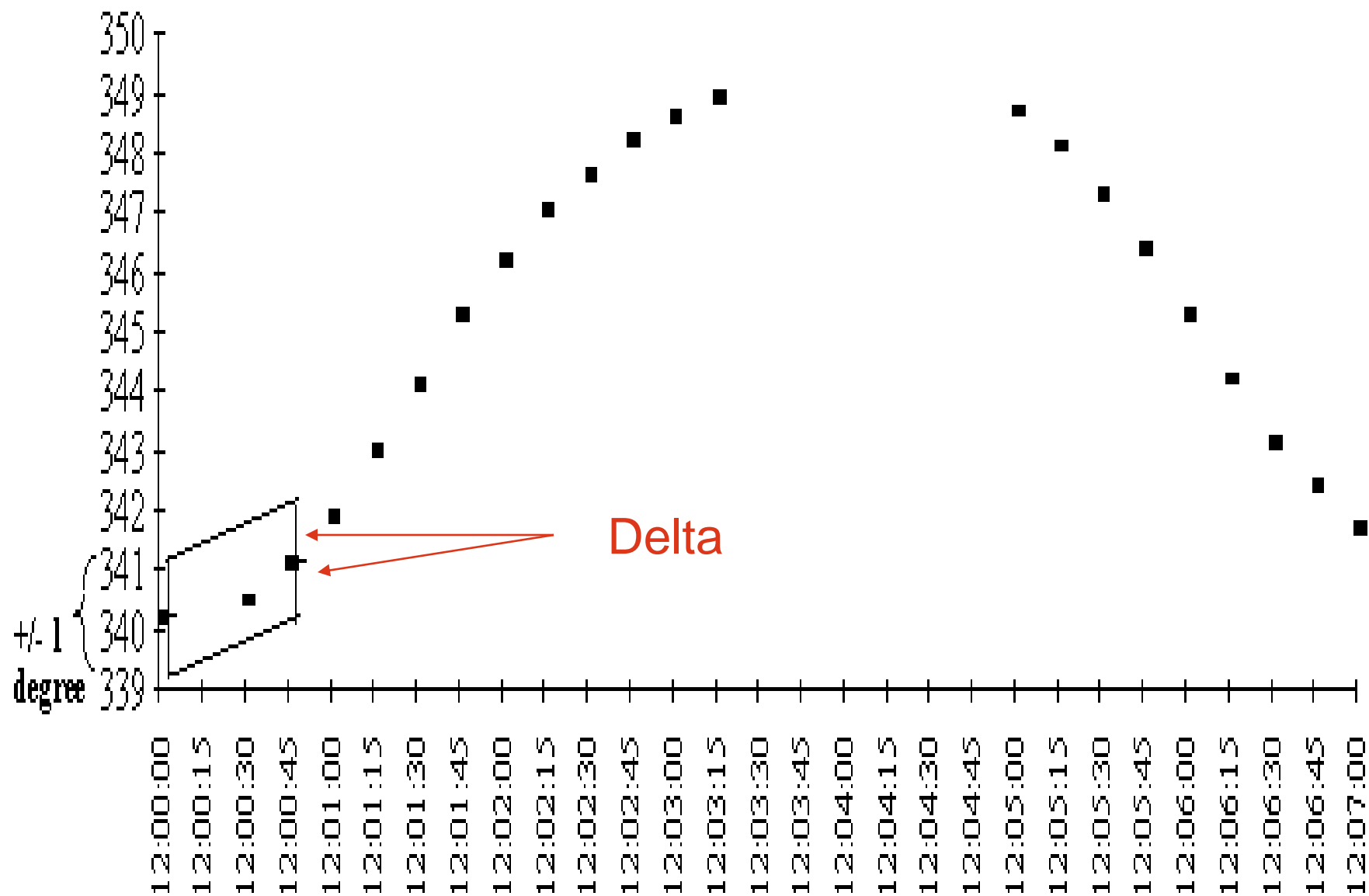
# Data Flow...



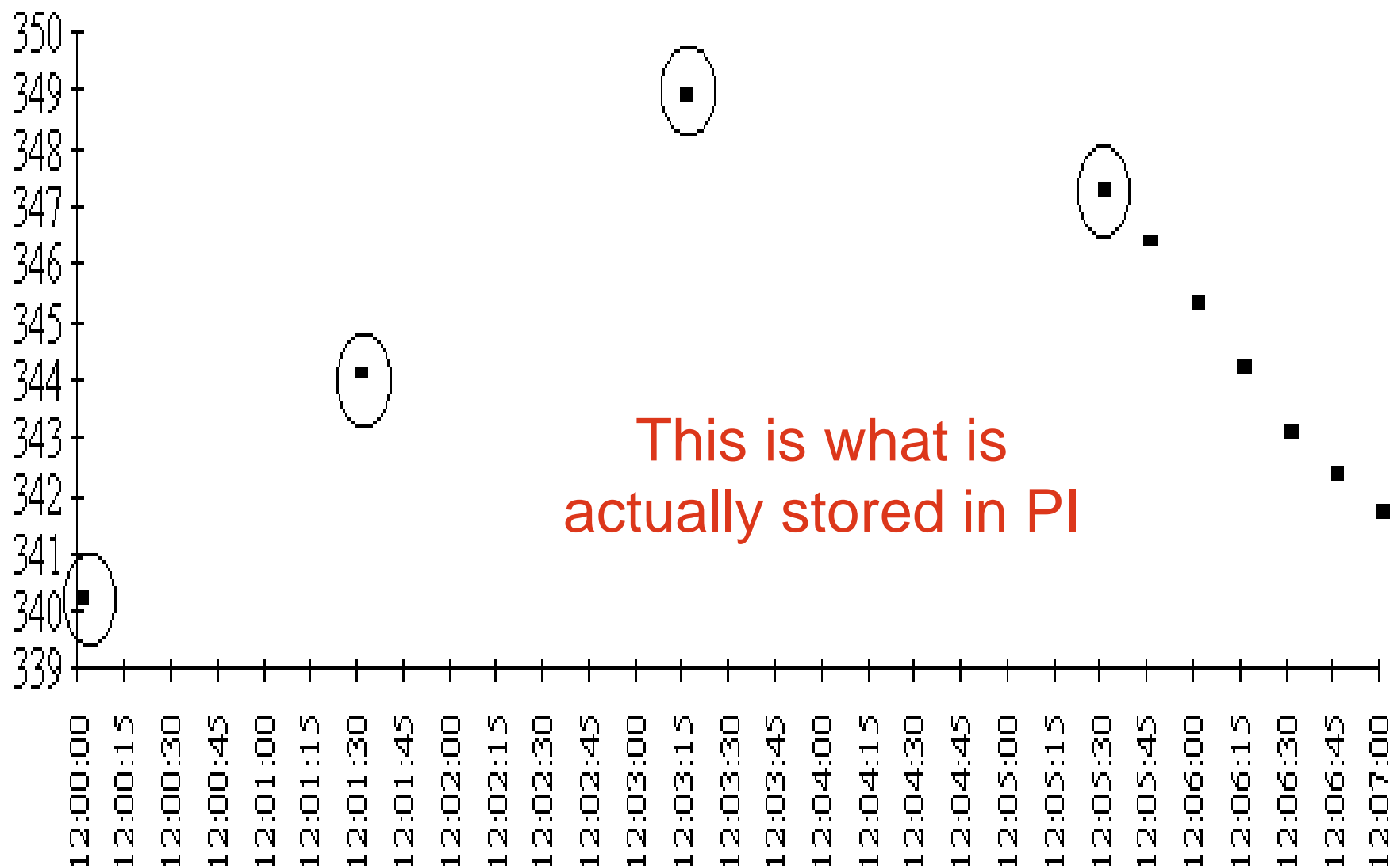


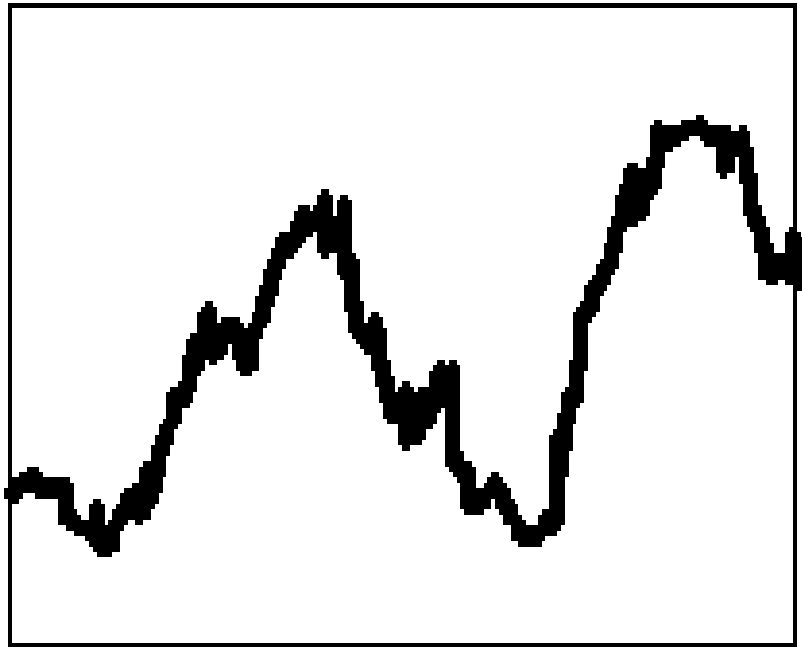
Current time

The Snapshot is a data structure in memory that contains the most recent exception event of each tag. This is the last value to pass the exception test.

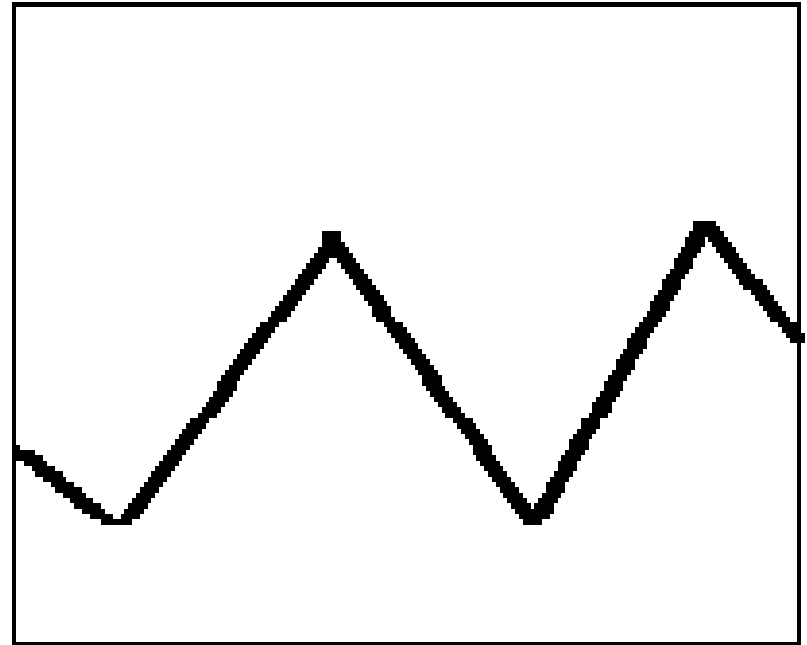






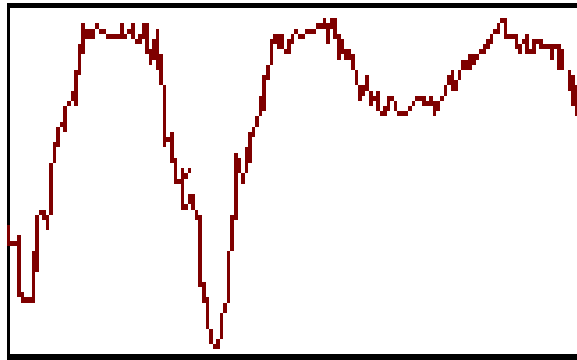


Too much data.

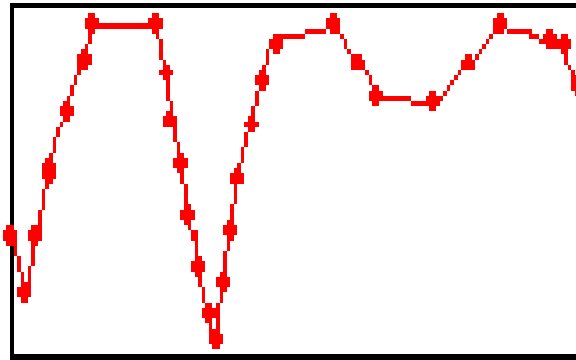


Too little data.

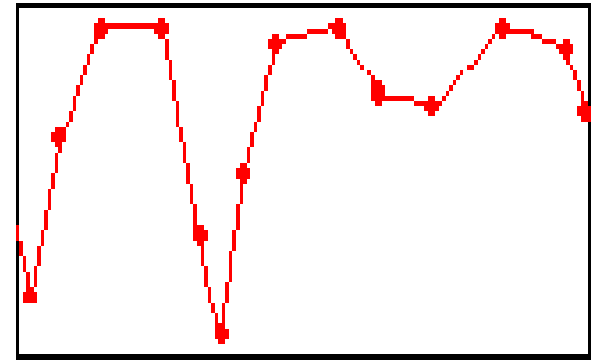
# Tuning



**Raw Data**



**After the Exception Test**



**After the Compression Test**

**“PI becomes a one stop location for all plant information, everyone is getting the same information at the same time. The Company is viewed as a progressive industry leader”**



# How do I get to PI data?

## *PI-ProcessBook*

## PI-DataLink

(MS Excel Add-in)

# Note:

- ❑ To access PI in POG you must be a member of the “**PI Common Area**” group.
  - ❑ This maps your “X” drive to [\\s00243\pi\\_common\\_area](#)

[\\nt000344\CTOps\ProcessBook\corp display.pdi](#)

# Lets use ProcessBook

## START

## POG START

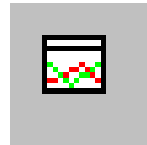
## Operations

## PI System

# Quick Tips:

□ <\\nt000344\CTOps\ProcessBook\corp display.pdi>

□ Trend Display



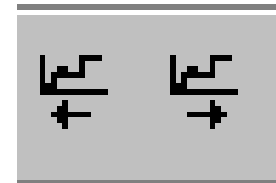
□ To change trend scale

\* = Current time

\*-30d = 30 days



□ Jump forwards/backwards in time



□ Revert time range (un-do)





# Questions?

**Stacy Koos**  
**240 - 4121**



**Progress Energy**



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