

SISOFT. SEMINÁRIO REGIONAL LATAM SOUTH



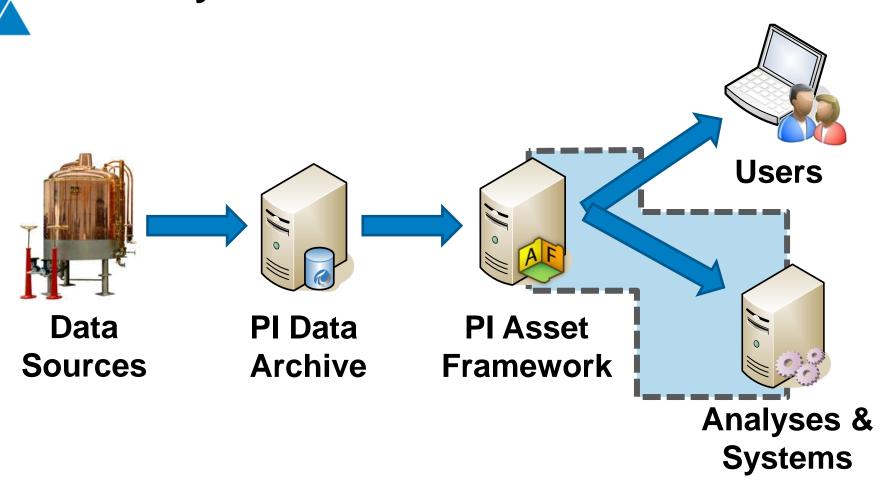
PI Analytics

The Tools and When To Use Them

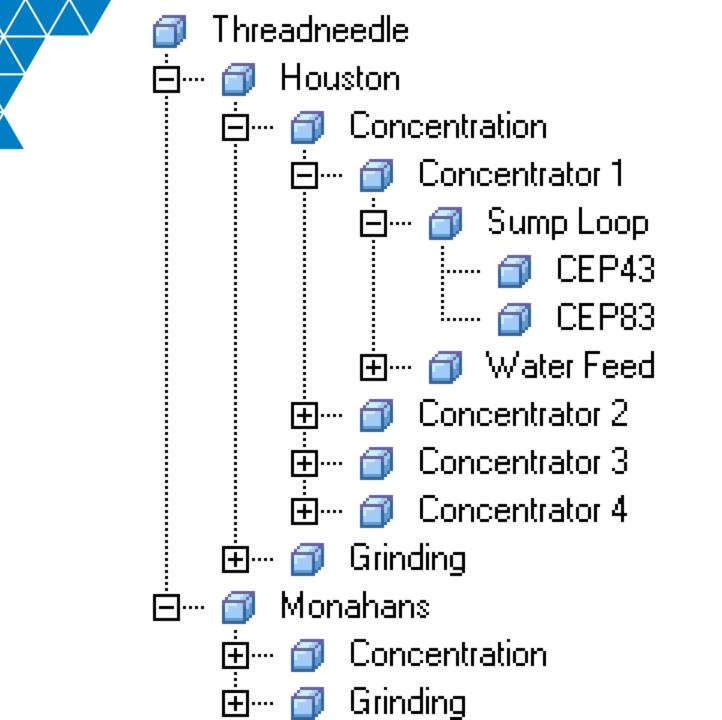
Presented by

Brandon Perry OSIsoft

PI Analytics











Plant

Houston

Workshop • Concentration

Sub Process • Concentrator1

Load

Pump

Process Data



	Operational State	Normal
111	Target Flow	29.35795 m3/h
	Process Flow	20.4290657043457 m3/h
600 S	L 19///77////////////////////////////////	7///7//////////////////////////////////
	Head Pressure	64.8066329956055 kPa
	Head PressurePower Draw	64.8066329956055 kPa 71.4016 A

Metadata



Specifications			
0	■ Manufacturer	Zoeller	
<i>•</i>	■ Model	PM-200	
0	■ Phases	3	
	■ Rating	8 hp	
	■ Туре	Centrifugal	
0	■ Uoltage	230 V	







LATAM SOUTH I





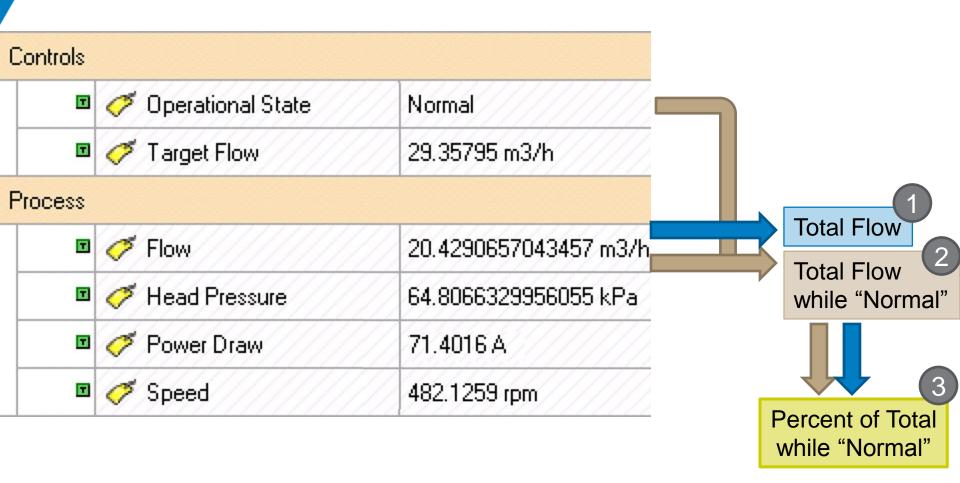


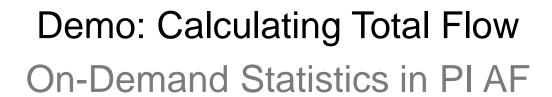


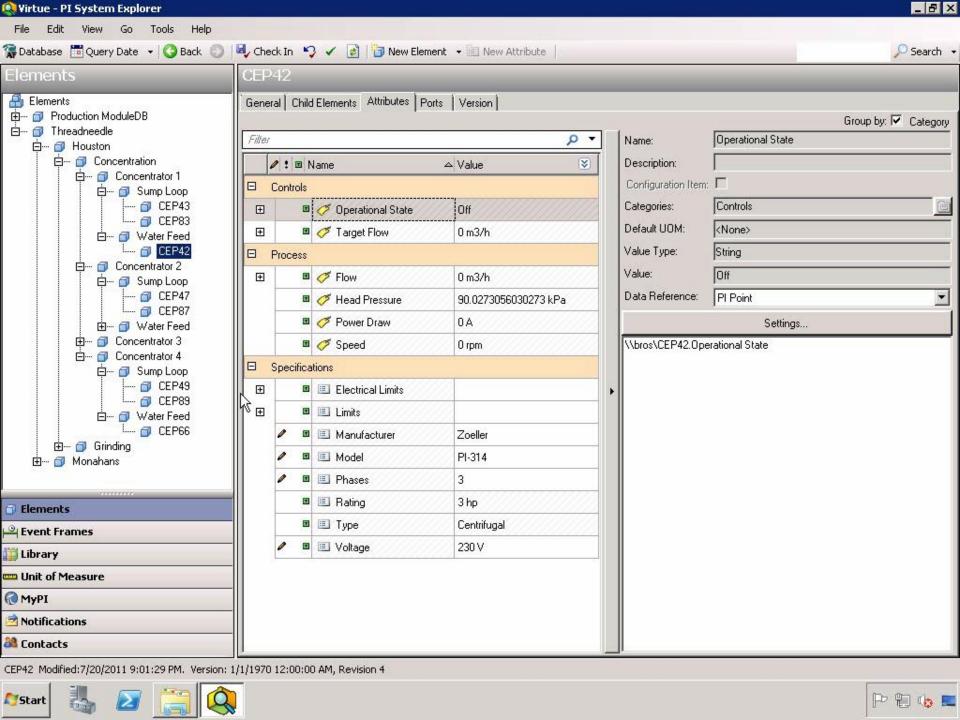


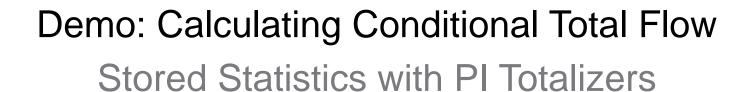


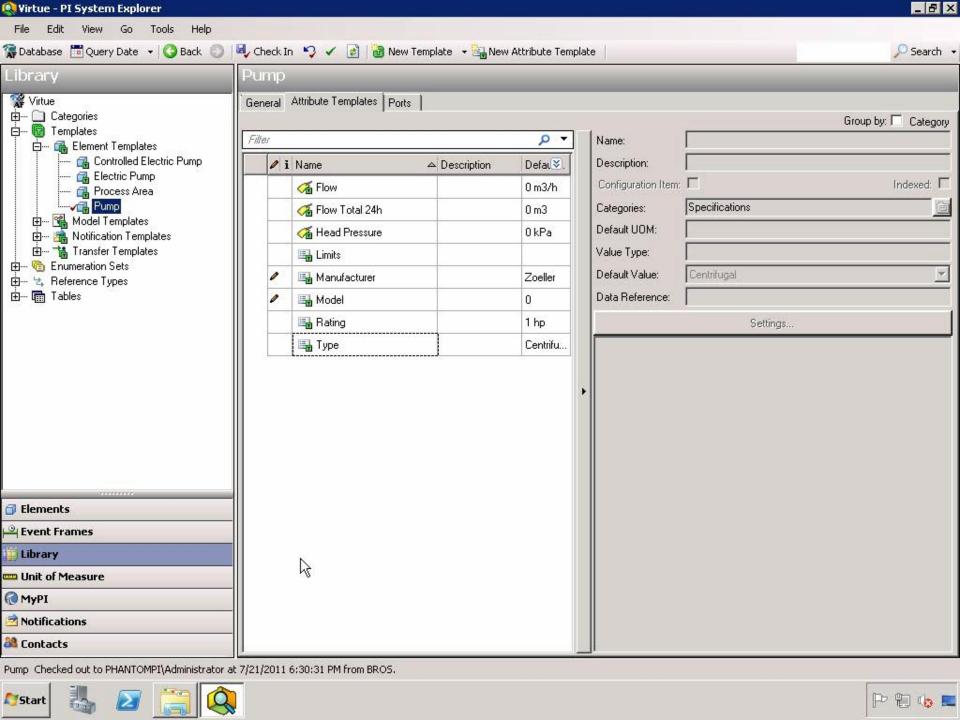
Pump Analysis: % of Flow while "Normal"

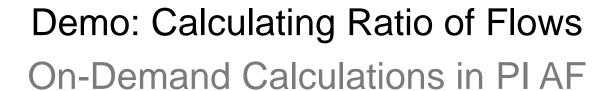


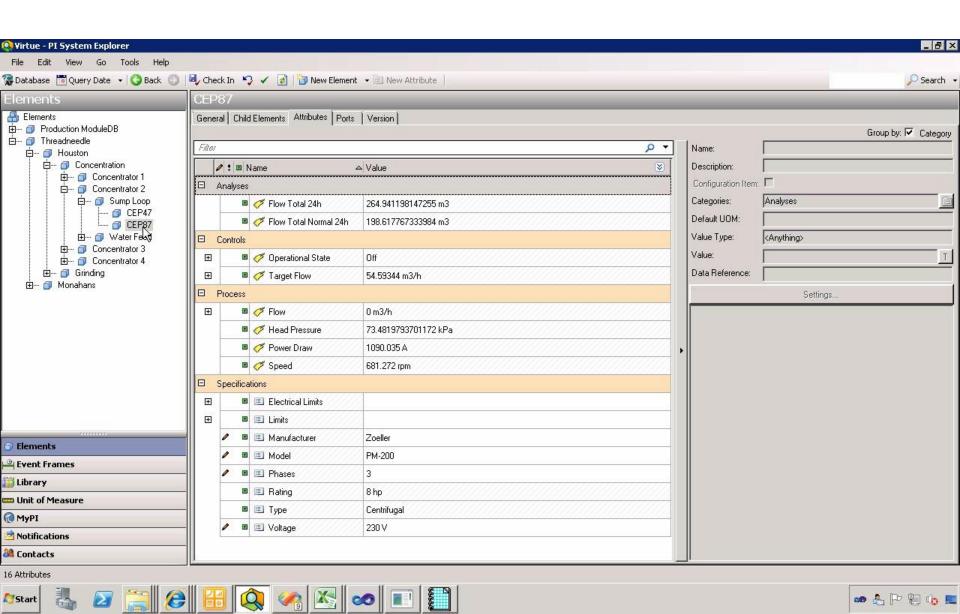








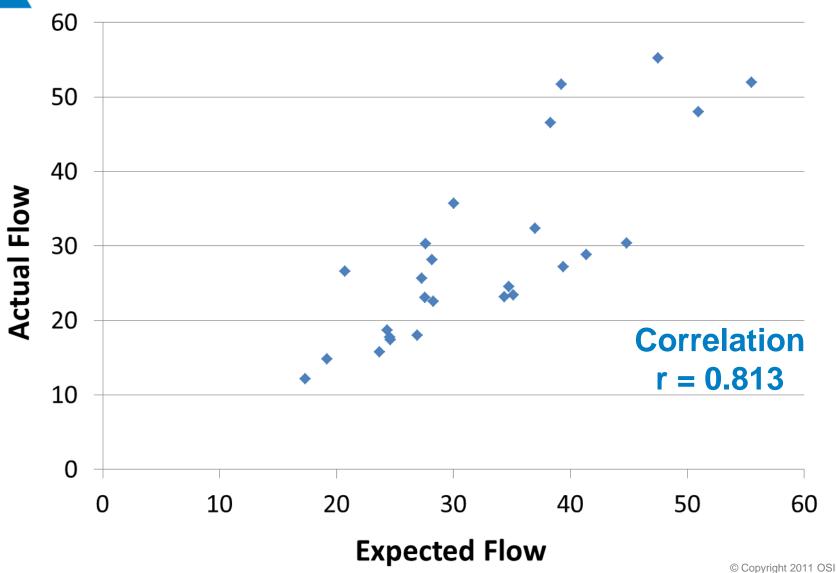




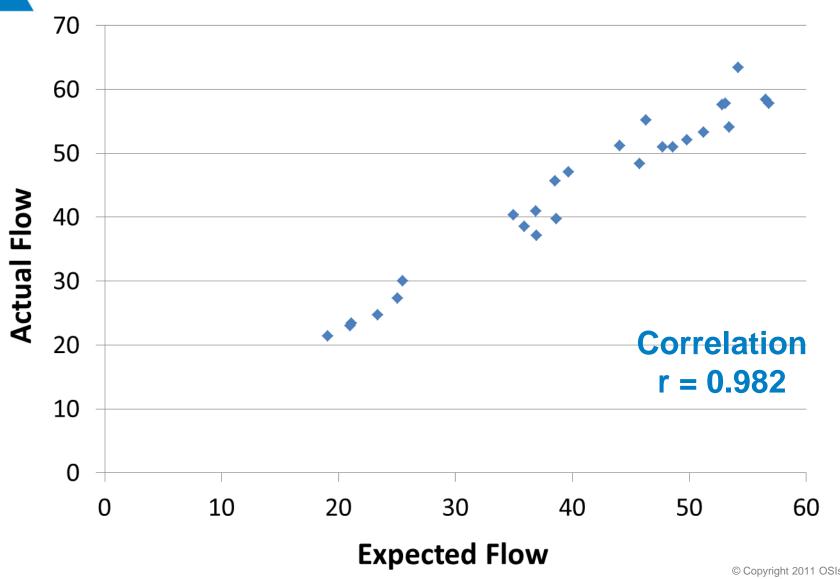
Pump Analysis: Flow vs. Target Flow

	Controls		
	T	🧷 Operational State	Normal
	1	🍼 Target Flow	29.35795 m3/h
□ F	Process		
	■ 4	Flow	20.4290657043457 m3/h
	■ <	Head Pressure	64.8066329956055 kPa
	T	Power Draw	71.4016 A
	■ <		482.1259 rpm

Control Correlation



Flow Comparison



PI ACE: Advanced Calculation Engine

Power Full .NET environment



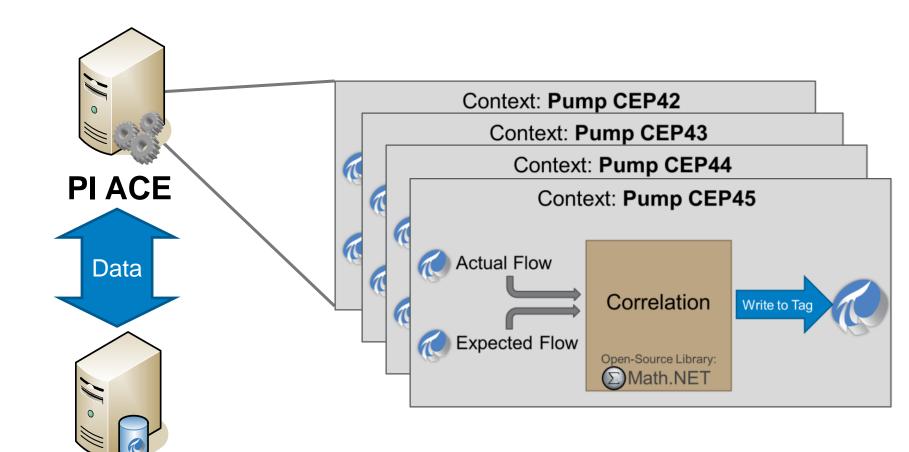
Ease of use
Wizard in Visual Studio



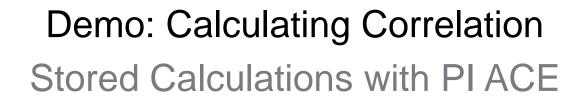
PI ACE Calculation

Context: Pump CEP42 **Actual Flow** Correlation Write to Tag Open-Source Libraries: **Expected Flow** /lath.NET

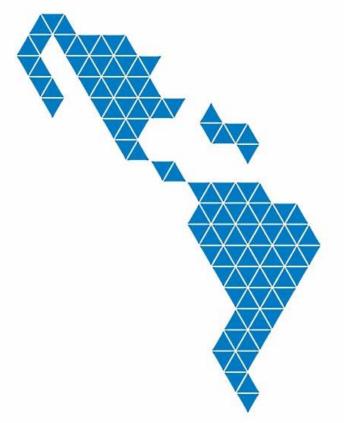
PI ACE Server



PI Data Archive

























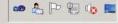




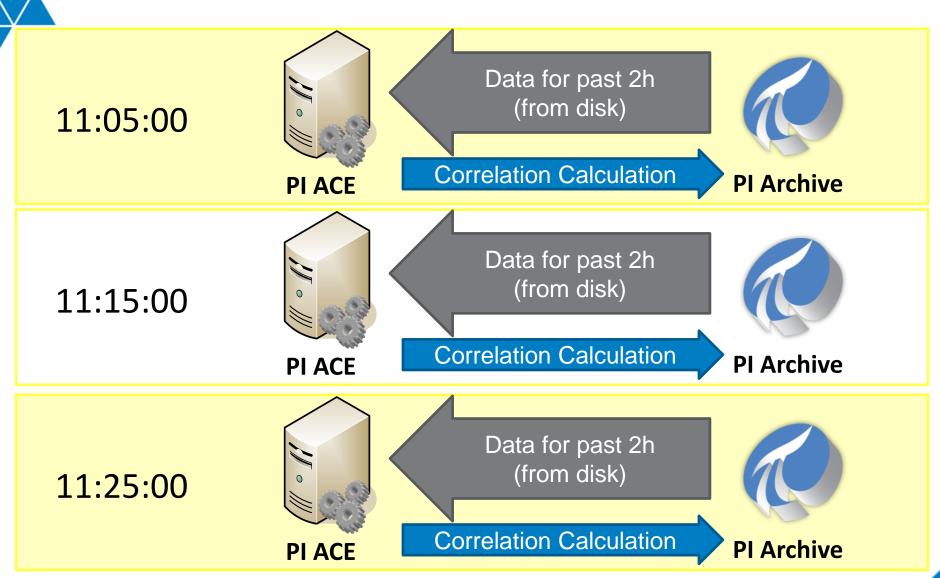




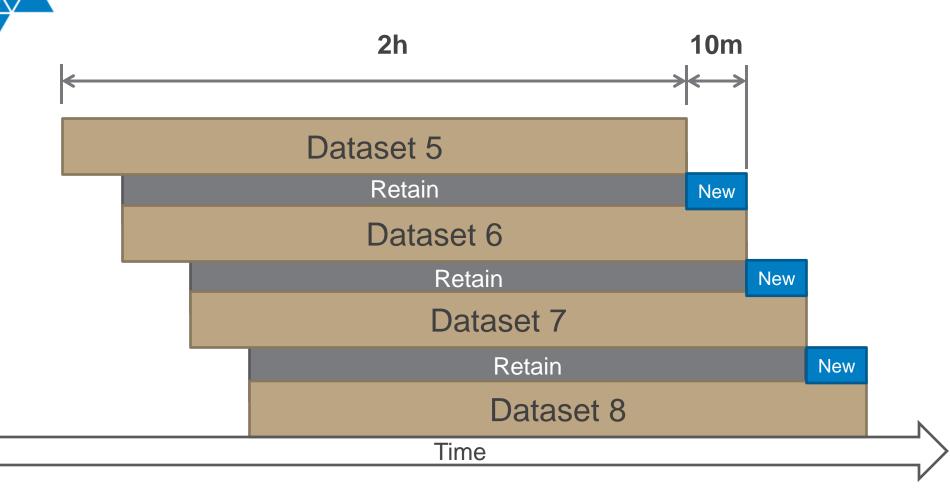




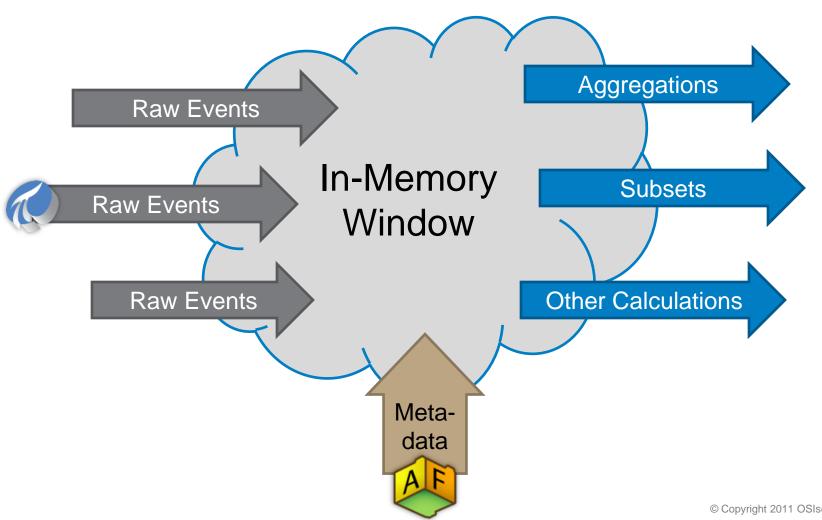
Duplication of Effort



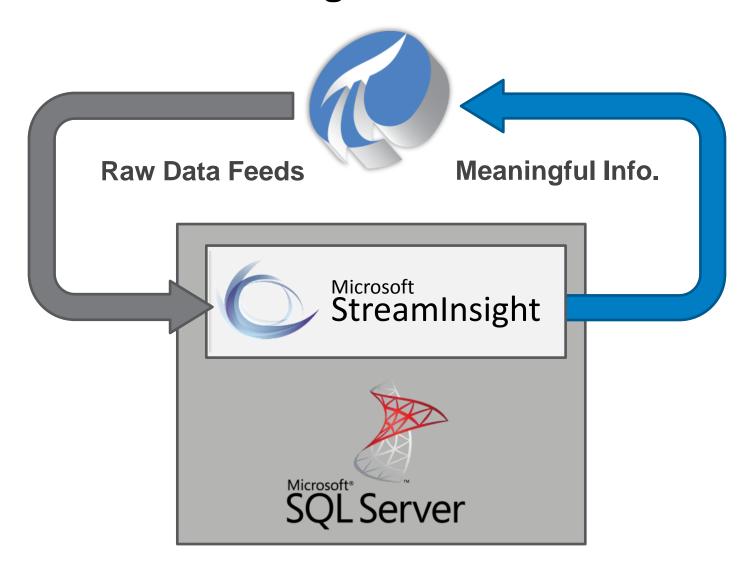
No Duplication of Effort

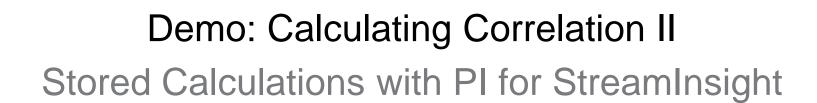


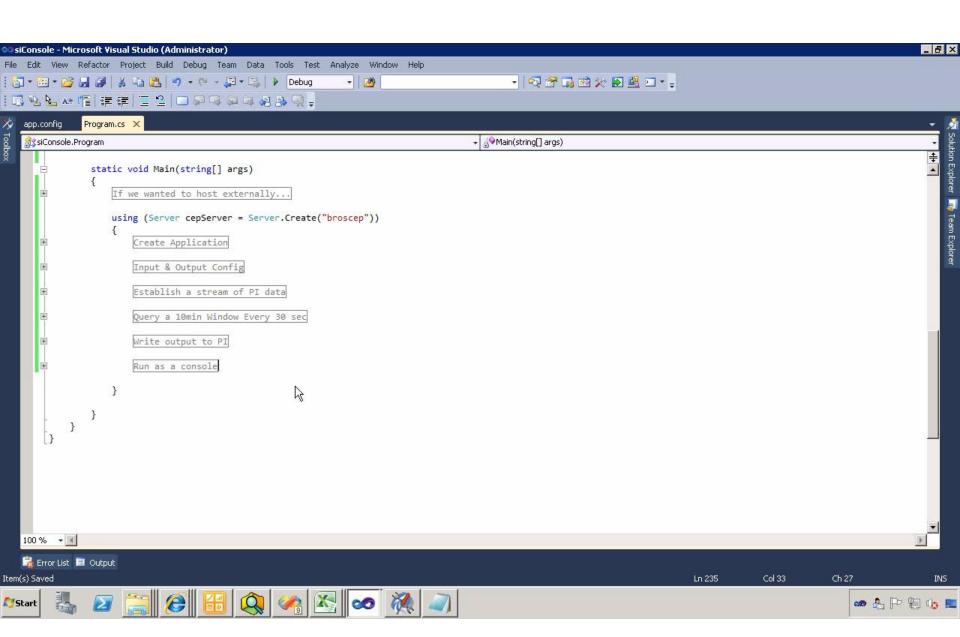
Complex Event Processing



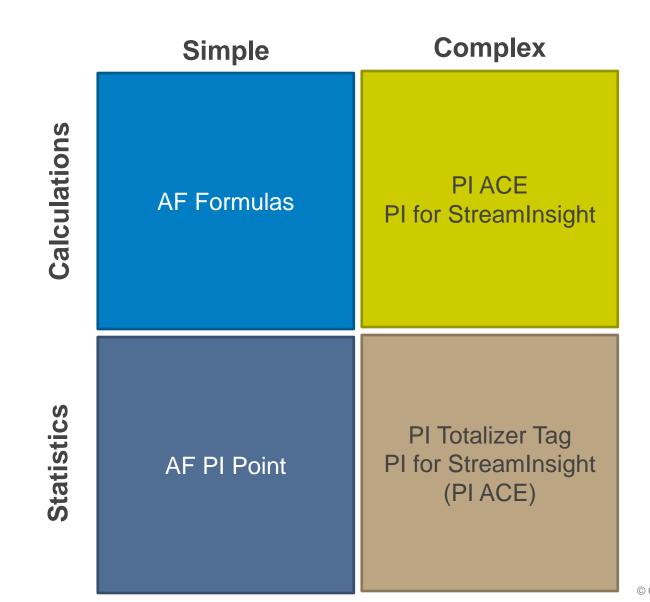
PI for StreamInsight







When To Use What





Thank you