

# When the Mission is critical, Data Quality matters

Improve Business Process Integrity, Decision Acuity & Operational Insight

## At-A-Glance

### Solution Type

Gross Error Detection  
Data Validation & Reconciliation  
Data Quality Management

### Regions Available

- › EMEA
- › Americas
- › Asia Pacific

### Industries

- › Oil & Gas
- › Chemicals
- › LNG, LPG & NGL
- › Mines & Metals
- › Power & Utilities
- › Pulp & Paper

### Features & Benefits

- › Reconciles operational data
- › Executes complex calculations
- › Pre-configured AF Database
- › Mass, Volume, Energy &
- › Composition balancing
- › Publishes Reconciled data to the PI System
- › Built in integration capability to business & operational systems

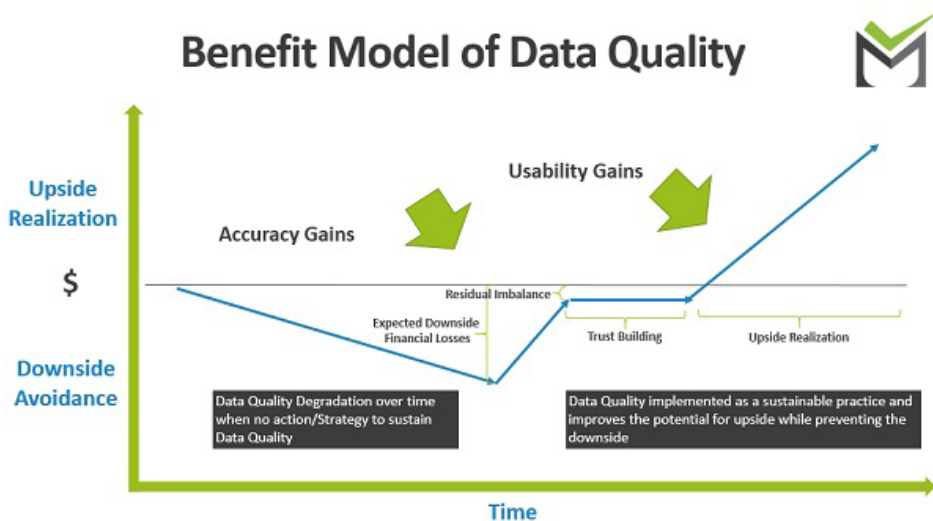
### Implementation Requirements

- › PI AF Server
- › PI Process Book
- › MS SQL Server

## BUSINESS CHALLENGES

The business model and context of each organization is unique but the rationale for improving operational data quality is universally the same: ensuring the integrity and reliability of all business processes that have a dependency, direct or indirect, on operational data and sustaining this capability over time through the meanders of change.

Consistent decisions and business process execution demand the best possible operational data and information at all times when dealing with planning, scheduling, supply chain, make or buy decisions, restocking, value add maximization, loss reduction, economic and operational performance improvement, etc. In other words, when the mission is critical, Data Quality matters.



## BUSINESS IMPACTS

Implementing Sigmafine® will maximize the accuracy of data and improve the usability of operational information which will create a noise free and data driven decisional and business execution environment and avoid the hidden cost of uncertainty and inconsistent decision and business process.

The benefit model of Sigmafine® (Figure 1) addresses a) the avoidance of economic downside due to poor data quality, b) the sustainability of actionable and trustworthy data and c) creates potential for upside realization through better usability of operational data, fit for business, timely and noise free.

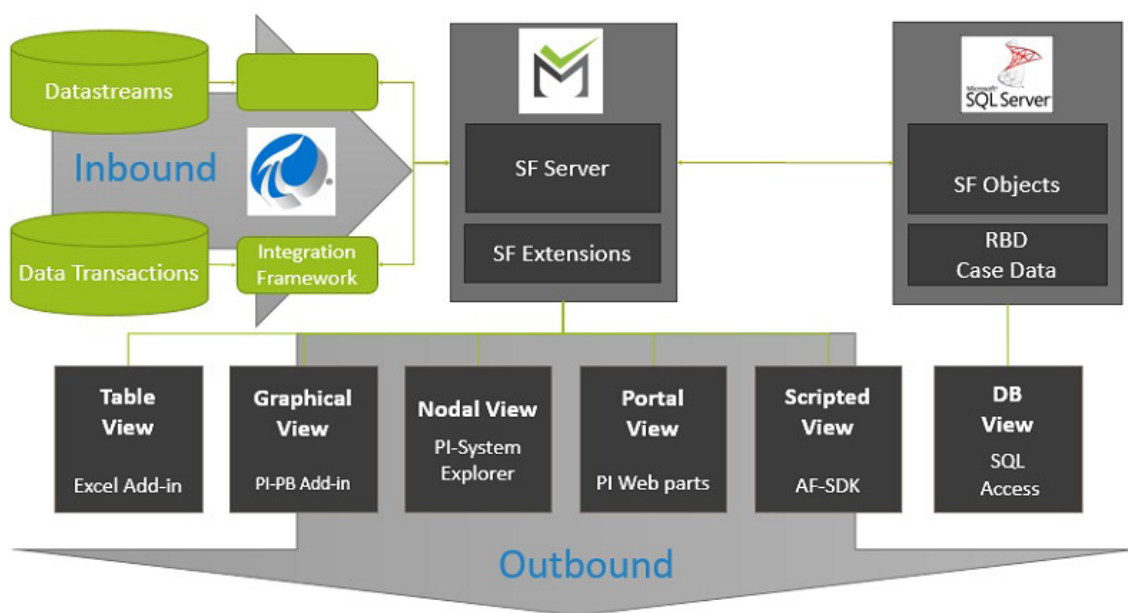
## SOLUTION APPROACH

Sigmafine® is an PI AF application running as a stand alone AF Server processing mass, volume and energy flows along with their associated physico-chemical attributes (temperature, pressure, composition), according to rules defined in models by users. The output of the process is a reconciled data set corresponding to model, a balance and a time period. The reconciliation is based on the laws of conservation of mass and energy.

For each relevant input datastreams from the PI System, Sigmafine publishes back to the PI Archive its corresponding reconciled values. The aggregation of all the input and reconciled streams generates cases which are the transformation of time domain data into period summaries and business context.

Sigmafine® data and models can be consulted and analysed using PI ProcessBook®, PI DataLink®, Sigmafine Excel Add-in, PI System Explorer® and PI WebParts®. Case Data are accessed using Sigmafine SQL Access, Sigmafine Reporting Package and the Intelligent Material Movement (IMM) application of Pimsoft. Sigmafine® can run automatically or on demand, based on periods matching the business requirements (hourly, by shift, daily, weekly, monthly).

## Technical Architecture



### ABOUT THE PARTNER ECOSPHERE

The OSIsoft Partner EcoSphere provides a collection of third-party services, applications, and technology to help customers maximize the value of the PI System.

Explore more solutions and the OSIsoft Partner EcoSphere at: [partners.osisoft.com](http://partners.osisoft.com).

### FOR MORE INFORMATION

Americas - Pimsoft Inc., 14701 St. Mary's Ln, Suite 175, Houston, TX, 77079, USA, +1 (281) 920-9196, 1001

EMEA - Pimsoft S.p. A., Corso Stati Uniti, 35, 10129 Turin, Italy, +39 011 5625213

Find out more about Sigmafine: [www.sigmafine.net](http://www.sigmafine.net)

To schedule an enquiry: [www.sigmafine.net/company/contact-us/enquiry/](http://www.sigmafine.net/company/contact-us/enquiry/)

To contact us by email: [www.sigmafine.net/company/contact-us](http://www.sigmafine.net/company/contact-us)

