



**Country or Region:** Sarralbe,  
France

**Industry:** Petrochemicals

### Customer Profile

**Business Situation:** In 2000, Innovene's Sarralbe, France plant updated its antiquated legacy system infrastructure with the OSIsoft PI System to provide real-time and historical information. Next, the company wanted to increase operational and development efficiencies. They sought to avoid multiple manual inputs and to minimize custom application development.

**Solution:** In 2004, the Innovene, Sarralbe site implemented OSIsoft's Analysis Framework (AF) for faster application configuration to help employees analyze and optimize processes more efficiently. Innovene was impressed with the OSIsoft suite of products, and they were convinced that AF could effectively leverage the power of the new infrastructure.

### Benefits:

- Lowered customization costs for operational processes by replacing coding with configuration
- Improved consistency throughout the organization by reusing templates for analysis
- Reduced maintenance costs by three percent
- Lowered systems management costs by a 3 to 2 ratio

## OSIsoft helps Innovene run more efficiently: Analysis Framework greatly expands analysis capability



"Employees trust AF as an environment they can go to for production information, development, and process modification. It's the one place they can utilize all of their analysis."

Francois Fasano, Information and Technology Manager, Innovene, Sarralbe site

In 2001, Solvay and British Petroleum (BP) created a joint venture (50/50) named BP Solvay Polyethylene for their Polyolefins activities. At the beginning of 2005, the new entity became a wholly owned subsidiary of British Petroleum and joined Innovene (the petrochemical division of the BP groups).

Innovene, ranks among the fifth largest petrochemical companies in the world with 27 plants around the globe and more than 8,500 employees. Its global production is more than 40 billion pounds of polymers and chemical production capacity, \$15 billion in third party revenues, and \$12 billion in total assets. In December 2005, Innovene was acquired by the private British chemical groups INEOS. The Sarralbe Innovene site, located at the east of France, produces 450kT of polyolefins (PE and PP) and has 320 employees.



## Innovene Runs More Efficiently with OSIsoft



For 18 years, the Sarralbe site used SYGMA (SY = Systeme (System); G = Gestion (Management); MA = Matiere (Goods)) to manage the production process. In 2000, the company chose the OSIsoft® PI System™ to improve its operational infrastructure. Now, SYGMA is called SYGMAPI. The development cost of the SYGMAPI project was 220,000€uros. This first installation produced a full return on investment in approximately one year.

In early 2004, Sarralbe management migrated the existing SYGMA legacy system to OSIsoft Analysis Framework. AF offered comprehensive analysis capability, integration, and a structured modeling method for the entire operation. Since the PI System infrastructure was already in place, the 50,000 Euros or \$60,000 cost of installing AF was recouped within a few months.

Innovene used Pimsoft s.r.l of Turino, Italy, an OSIsoft system integrator, to implement the PI System and AF at the Sarralbe site.

## Analysis Framework – A Complete Application Environment

Analysis Framework is an infrastructure for application creation. It provides an environment to structure and access data more efficiently with powerful analysis capability, and the offers the user an easier, more powerful way to configure applications. AF allows you to organize processes as models, assets as elements, and properties as data objects.

AF combines all OSIsoft web-based technology, including a Service Oriented Architecture (SOA), COM connectors, and OLEDB. It also combines all OSIsoft

analysis components, including Advanced Computing Engine (ACE), SQC, and Totalizer in one environment.

Innovene at Sarralbe has begun to realize many AF benefits, including:

The ability to easily create or modify production models and elements as the market or business changes

Ongoing, incremental return on investment as the company creates additional solutions for continuous current and future operations

A conversion table for PI that can be instantly changed to the local language of the user

Improved data consistency due to the reuse of templates

Cost savings and reduced error from human data input or dispersed calculations via use of templates and reusability of work

Time savings from reusable templates, modules, and calculations

## Improved Tracking all Material Movement

An initial use of AF in the Sarralbe site was the control of real time product movement throughout the production cycle. The company developed a set of batch tracking applications in AF to track and monitor material movements for fiscal and operative issues. This application suite joined features of Analysis Framework and PI Batch Database. AF was used to define and model production entities, such as reactors, silos, and compressors. An AF analysis rule template controls material flow into the process tracing the batch composition in each capacity of the production line. Users configure templates to resolve their immediate analysis needs.

“AF enables more people to take ownership of their application and empowers them to solve problems faster,” says Massimo Galli, Operation & Delivery manager of Pimsoft. “The plug-and-play environment gets more people on board with performance management and operations optimization.”

AF has also provided a more efficient way to manage



## Reduced Costs for Application Development

Sarralbe was impressed by the cost savings that resulted from the ability to configure applications internally rather than paying for outside consultants. These savings far outweighed AF incremental licensing costs. As additional applications, templates, and modules are created by users, the company's library of analysis resources grows exponentially for future use by the entire company. Other users within the company can then reuse applications and templates to solve new problems. This reusability allows the Sarralbe site to gain incremental return on investment at little or no extra cost.

"Employees trust AF as an environment they can go for production information, development, and process modification," says Francois Fasano. "It is the one place they can utilize for all of their analysis. The more AF is utilized by our users, the more we get out of it."

Lot	Mat Type	Origine	Destination	Quantité	Date de Début	Date de Fin	Produit
Lot 30000	CL0210X	P0538070	M112161	243990,00	25/11/2005 11:40:45	25/11/2005 11:40:45	KS4059603
Lot 20000	INVERT.	P056413448	F120741	0,480999999999	24/11/2005 01:41:10	24/11/2005 01:41:11	KS4059602
	INVERT.	P056413458	F120741	4,1289	24/11/2005 03:36:11	24/11/2005 03:36:11	KS4059603
	CL0210X	P0527666	F120741	124998	24/11/2005 03:36:30	24/11/2005 03:36:31	KS4059603
	TR87T	P0527666	F120741	0	24/11/2005 07:26:50	24/11/2005 14:54:01	KS4059603
	TR87T	P0527666	F120741	124998	24/11/2005 14:54:00	24/11/2005 14:54:36	KS4059603
	CL0210X	P0527671	F120742	137 728 360	25/11/2005 03:43:20	25/11/2005 03:43:21	KS4059603
	TR87T	P0527671	F120742	0	25/11/2005 03:22:40	25/11/2005 11:32:50	KS4059603
	TR87T	P0527671	F120742	125000	25/11/2005 11:34:50	25/11/2005 11:34:51	KS4059603
	CL0210X	P0527666	M112161	124998	25/11/2005 11:40:45	25/11/2005 11:40:46	KS4059603
	TR87T	P0527671	M112161	125000	25/11/2005 11:40:45	25/11/2005 11:40:46	KS4059603
Lot 10000	EXTRUS	P056413448	F190174	65000,00	23/11/2005 01:11:59	23/11/2005 11:02:44	KS4059603
	EXTRUS	P056413454	F190174	65000,00	23/11/2005 11:02:44	23/11/2005 03:35:35	KS4059603
	EXTRUS	P056413458	F190174	21028,44	23/11/2005 20:53:35	24/11/2005 00:38:04	KS4059603
	EXTRUS	P056413460	F190174	65000,00	24/11/2005 00:38:04	24/11/2005 09:40:14	KS4059603
	CL0210X	P056413448	F120741	64980,00	24/11/2005 03:36:30	24/11/2005 03:36:31	KS4059603
	CL0210X	P056413454	F120741	65000,00	24/11/2005 03:36:30	24/11/2005 03:36:31	KS4059603

AF enables the Sarralbe site to trace the movement of material throughout the production cycle. Batch tracking is accomplished via AF connectivity that allows reports to be imported into MS Excel. When equipment or process needs to be changed, a user adjusts elements and properties once and AF applies these changes to the entire model.