

The Galaxy Engine™

Real time optimisation of your production facility

The Galaxy Engine is a revolutionary tool that helps plant personnel optimise product recovery, product quality and plant stability.

Interlate has built it using the latest advances in machine learning. It combines domain knowledge of processing plants with Artificial Intelligence to deliver recommendations that are practical and realistic. It has flexible deployment options and is tailored to each site's specific needs during implementation. This is Interlate's flagship analytical capability that encapsulates considerable operating experience and domain expertise.

How does it work?

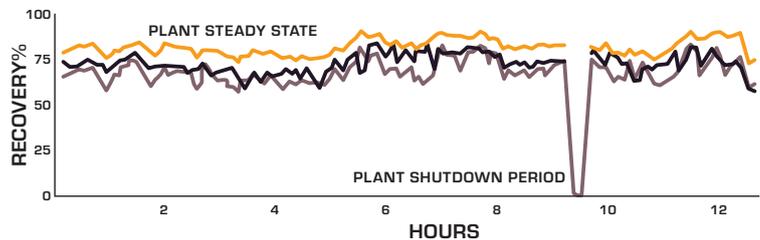
- Utilising a bespoke high-fidelity machine learning model of an asset or process, the Galaxy Engine uses modern machine learning techniques and mathematical optimisation processes, to create an optimised operating strategy around plant operating tactics.
- As the engine collects a continuous stream of data, it automatically identifies the key drivers within your production and intelligently simulates millions of possible scenarios.
- Through continued analysis and machine learning, Galaxy Engine automatically provides you with uniquely tailored and optimised recommendations in real time for the current process inputs.

REAL TIME RECOVERY OPTIMISATION

Implementing Galaxy Engine recommendations improves recovery

VARIABLE	ACTUAL PRODUCT RECOVERY	GALAXY ENGINE RECOMMENDATION	RANK
RECOVERY	75%	80%	-
VARIABLE 1	1.6	1.7	2
VARIABLE 2	0.7	0.6	1
VARIABLE 3	1000	1100	3
VARIABLE 4	5.5	4	4
VARIABLE 5	27	30	5

GALAXY ENGINE RECOMMENDATION
PREDICTED PRODUCT RECOVERY
ACTUAL PRODUCT RECOVERY



Main features

- Identify a plant's tailored optimal solution and the set of sub-optimal recommendations to achieve it.
- Insight driven optimisation to prevent lost opportunity with respect to process performance and operating strategy.
- AI drives increased stability in the operation through consistent tactics, indirectly as value is unlocked.
- Provides contextualised output which enables the value to be unlocked very quickly.
- Various deployment options.
- Reduces guesswork and churn.

Key benefits

- Real time 24/7 optimisation of any semi-continuous or continuous production plant that generates streaming data.
- Built on the back of Sentinel™, Galaxy Engine is constantly learning from your process so if inputs dynamically shift over time, the engine can automatically update control variables to correct for this.
- The rate of new recommendations can range from minutes to daily, to ensure the Galaxy Engine is fit for your operation.

Find out more

Interlate's success is measured by your site's productivity improvements. To learn more about how we can help you to get the best results, contact us now.

Changing the way industry works

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