

Digital Mining (DGM)

Digital Mining - Digital Offer to our Customer



Mining Chemicals Handbook

Digital knowledge hub for mining operations

[Insights always available](#)



SolvayCube

[Dosing equipment system](#)

[Video](#)

A Unique Case at Solvay

First suite of digital solutions using Data from Customer's plants with Digitized Solvay knowledge to provide Recommendations to customer



MINCHEM®
CYANEX®

SolvExtract™

[More efficient solvent extraction](#)

[Video](#)



Powered by AI
in the future

SmartFloat™

[More efficient flotation process](#)

[Video](#)

[SolvExtract video link](#) [SmartFloat video link](#) [SolvayCube video link](#)

Digital Mining Context

- **Supporting Technology Solutions GBU**
 - Mining solutions is a market of Technology Solutions GBU activities accounting for ~60 % of its sales. It encompasses several applications, among which Mineral Processing and Metal Extraction Products.
 - The Metal Extractant Products activity is based on a range of specialty reagents used in solvent extraction circuits, extractants and other process aids. The business accounts for around 85 M€ sales activity and is entering in a commoditization dynamic, thus threatening margins and business in the long run.
- **Developed directly with the customer**
 - All solutions have been created directly with the end customer (TS clients) from the beginning
 - The digital mining solutions have been developed with a third party company since 2019
 - DT started to be involved middle of 2022

Digital Mining Solutions

- **MINCHEM®**

is the modeling tool used as a stand alone to support all Solvent Extraction operations. It was replatformed on GCP to allow sustainable business operations.
- **SolvExtract™**

enables data flows between a mining operation and Solvay's proprietary solvent extraction modeling software, MINCHEM®. Through the software, Solvay continuously monitors key variables, such as copper recovery and pH, comparing actual values and trends to those predicted by the model, to identify deviations from normal operating conditions and offers timely recommendations

 - Today, SolvExtract has 13 active customer plant sites.
 - Stage: MVP to Scale
- **Smartfloat™**

is a first-of-its-kind digital system built on Solvay's proprietary Flotation Matrix 100™ approach, that uses live flotation data to recommend the best suitable reagent formulation and dosage in real time, based on incoming ore properties and operational parameters.

 - Stage: PoC to MVP

