



DUNDEE SUSTAINABLE TECHNOLOGIES

CSE:DST

GLASSLOCK
PROCESS™

CLEVRPROCESS™

JULY 2020



Dundee Sustainable Technologies (DST)

DST has developed novel metallurgical processes for the mining industry.

Technologies are successfully demonstrated and at the commercialization stage.

Industry Challenges

- Environment
 - Cyanide use & restrictions
 - Contaminants (As, Sb, Hg,...)
- Metallurgy
 - Refractory & Complex ores (As, C_{org}, Te,...)



DST Solutions

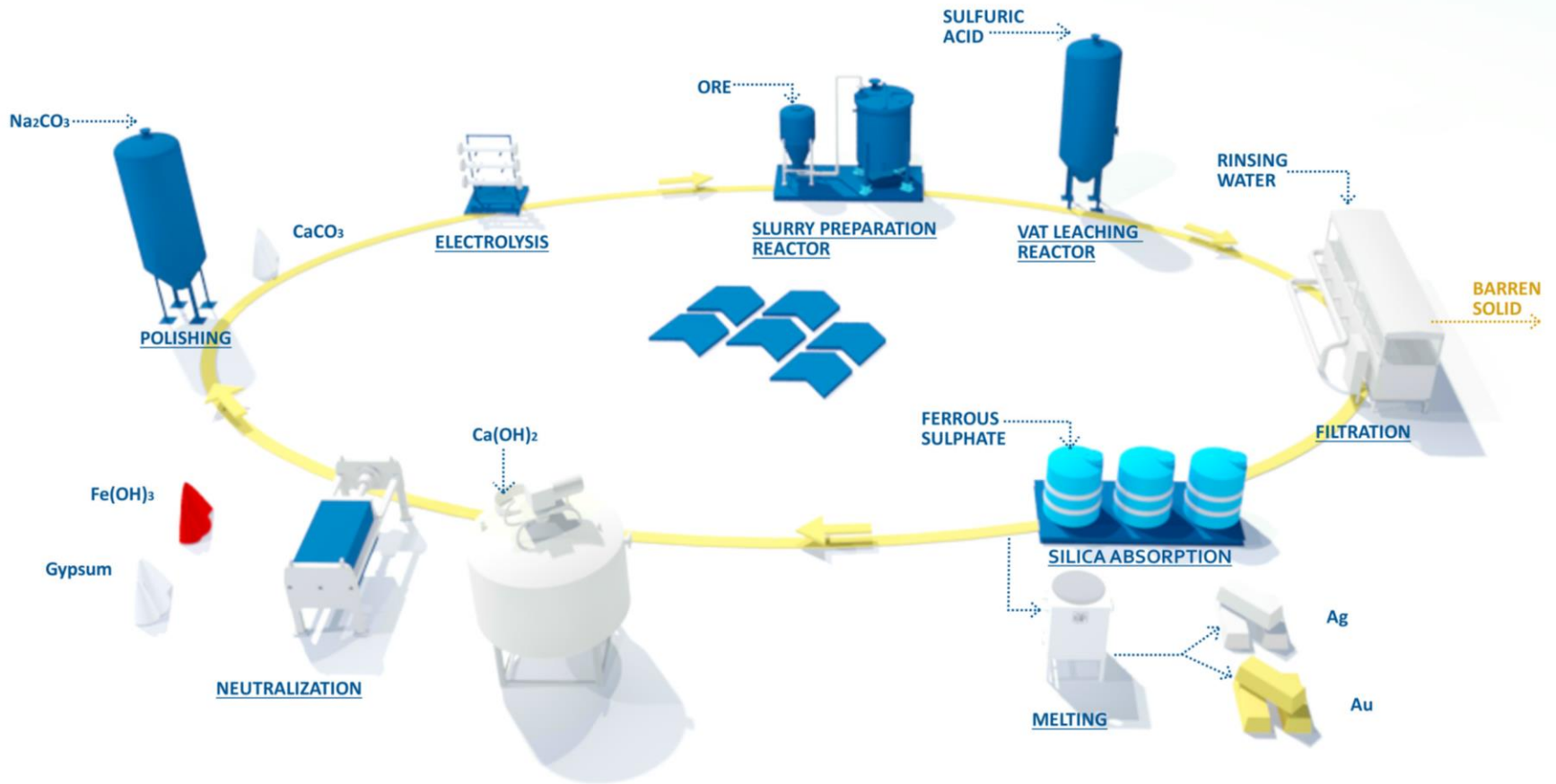
CLEVRPROCESS™

- Cyanide-free gold extraction
- No liquid effluents
- Refractory ores

GLASSLOCKPROCESS™

- Arsenic stabilisation
- Allows access to complex ores
- Permanent disposal solution

CLEVR Process - Closed Loop Circuit



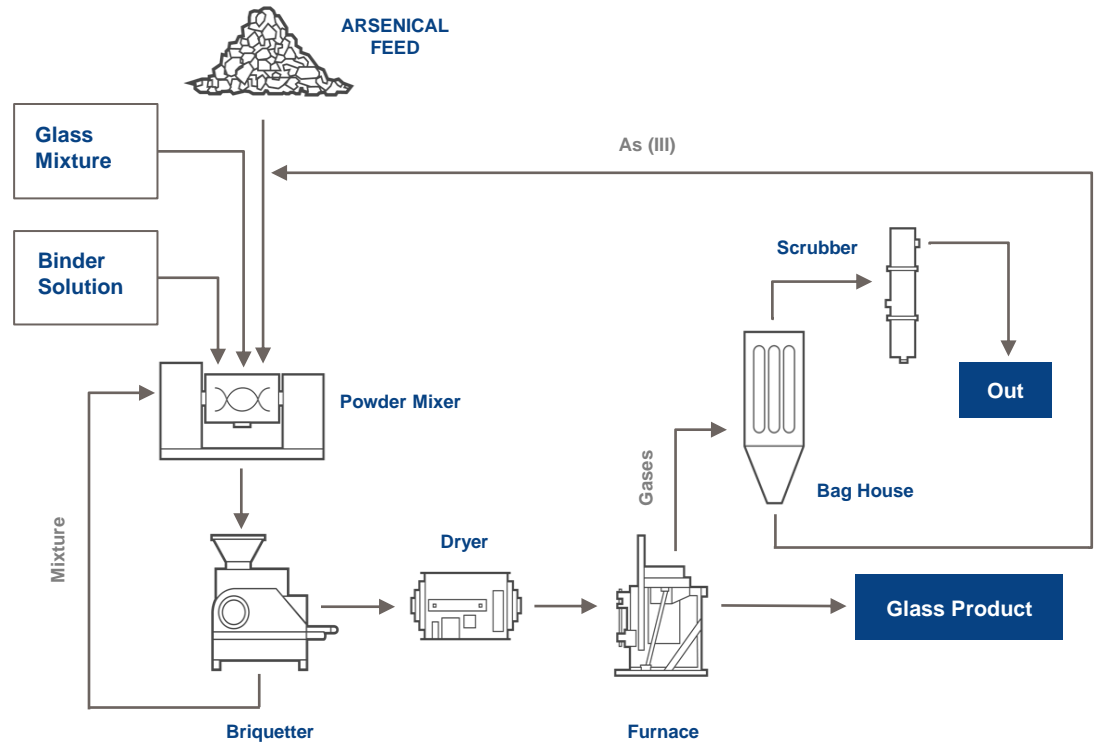
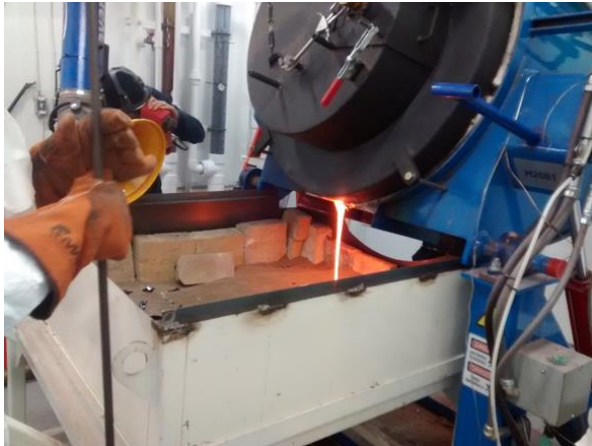
CLEVR Process – Industrial Demonstration Plant

CLEVRPROCESS™



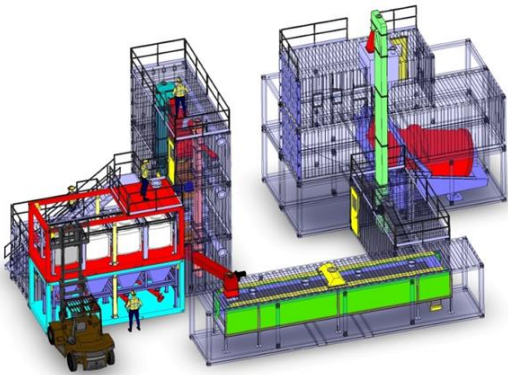
- Located in Thetford Mines, Canada
- Designed for the treatment of **15 Tonnes per day (TPD)** of concentrate

GLASSLOCK Process – Circuit Flowsheet



GlassLock Process – Industrial Demonstration Plant

GLASSLOCK
PROCESS™



- Located onsite an operating copper smelter;
- Designed to stabilise 1,000 TPY of arsenic (As) and produce 4,000 TPY of glass product (~20%As).



DUNDEE

SUSTAINABLE TECHNOLOGIES

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