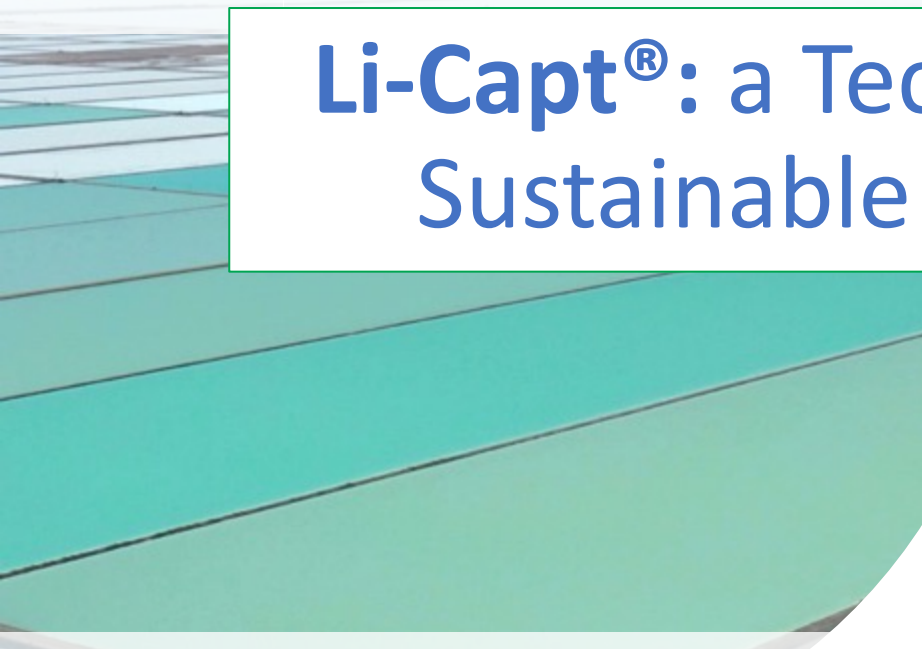


GEOLITH

Making Lithium Sustainable



Li-Capt[®]: a Technology Enabler for a Sustainable Lithium Production

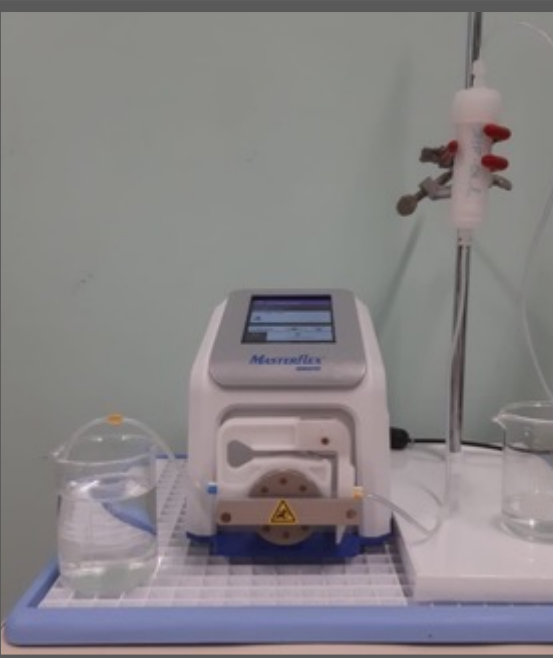


Jean-Philippe GIBAUD - CEO

November 10th 2021



Technology presentation cartoon, please go to our website : <https://en.geolith.fr>



Bench Testing

- 30 mL Columns
- Feasibility studies
- Process optimization



Bench Pilot

- 0.3 to 20 L Columns
- Manual operations
- Ambient P / T



Geothermal Pilot

- 4 L Reactor
- Automatic operations
- Tested up to 35 bars and 70 °C



Demonstration plant

- 6 x 140 L columns
- Fully automatic
- Continuous Li-Capt® process

A large industrial machine with a complex network of grey pipes and black spherical components, likely a water treatment or desalination unit. The machine is housed in a metal frame and is situated in a factory or industrial setting with overhead lighting.

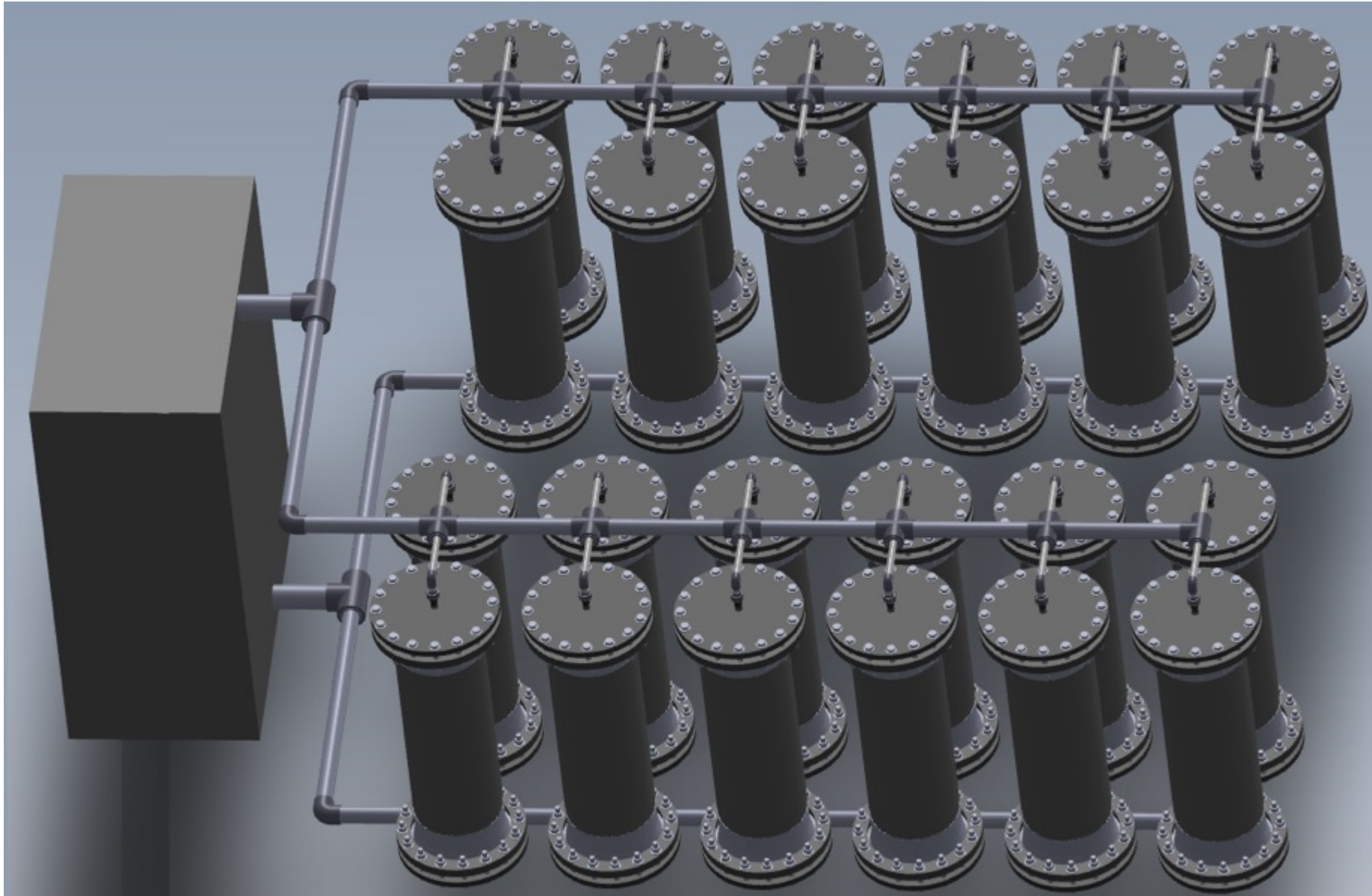
GEOLITH Li-Capt[®] advantages :

- **Easy and scalable implementation**
- **Business model**
- **Industrial approach**
- **Capability to treat**
 - **Low concentrations,**
 - **High Temperature (up to 80°C)**
 - **High Pressure (tested up to 40 bars)**
- **Zero waste**
- **Low Production costs**

A close-up view of the industrial equipment, showing a vertical stack of black spherical components connected by grey pipes. The components are arranged in a regular pattern, and the overall structure is supported by a metal frame.

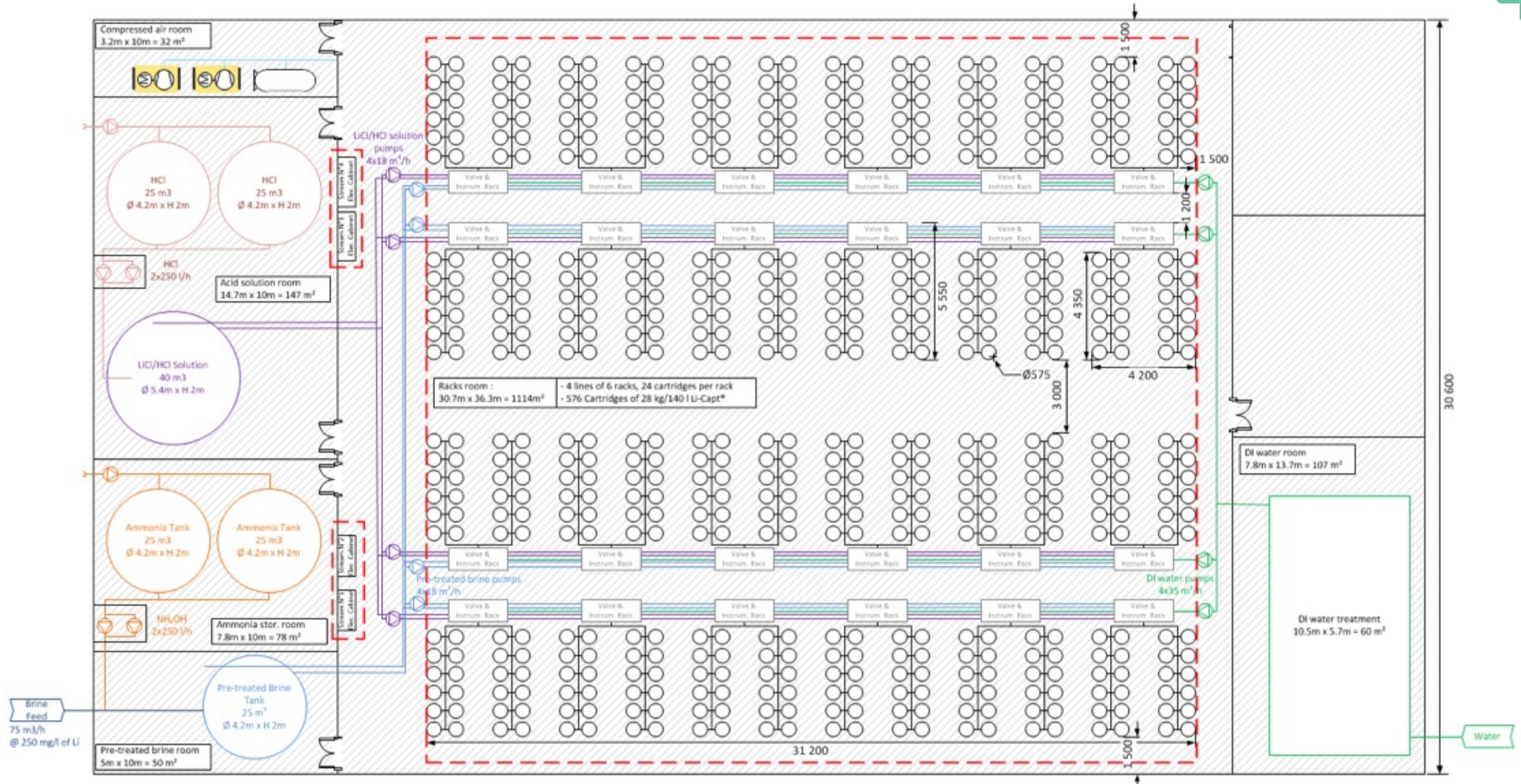
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embly**

Future industrial plant



PRESENTATION CONFIDENTIELLE

Future industrial plant



Lithium Capture Efficiency



Efficiency of Li-Capture

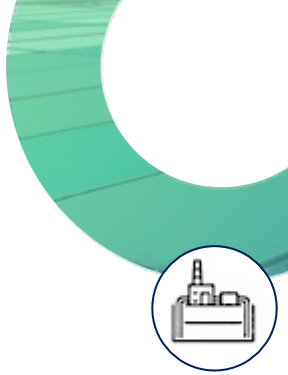


bench tests

	Concentration factor (Li vs Na)
Geothermal Brine Alsace	93
Geothermal Brine UK	17
O&G Produced Water	266
O&G Produced Water	207
O&G Produced Water	330
	260

Confirmed with pilot tests in industrial conditions

Brine tested	Li (mg/L)	TDS (g/L)	Contact time (minutes)	Extraction (%)	Concentration factor (Li vs Na)
Geothermal Brine Alsace	185	100	15	Up to 95 %	93
Geothermal Brine UK	50	8	8	Up to 99 %	32
Geothermal brine UK	260	40	15	95%+	25



Oil & Gas

Valorization of lithium from O&G production waters
More than 1 million wells – 50% with lithium



- Valorising a waste = Greening the O&G Business
- Potential major source of lithium
- Competitive Production Costs



1 000 to 100 000 t LCE/y Projects



Mining

50% of current lithium production + juniors



- Access to new resources, not economical with current technology
- Environmental Impact reduction
- Competitive Production Costs



10 000 to 50 000 t LCE/y projects



Geothermal

Valorization of lithium geothermal brines
Many small projects

- Circular Economy with geothermal
- Zero carbon and waste lithium in Europe
- Competitive Production Costs
- Substantial revenue (Electricity 5M€/y with tariff (1 without), Lithium 10M€/y)

1 000 to 3 000 t LCE/y projects

Batteries

Valorization of production scraps
Many new Gigafactories worldwide

- Recycling production wastes # 25%
- Competitive Production Costs
- 50 GW battery factory # 25 000 t LCE/y

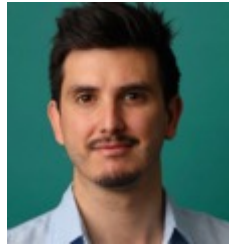
*LCE = Lithium Carbonate Equivalent



Jean-Philippe Gibaud
CEO – Founder



Didier Muschalle
COO – Associate



Pedro Ruiz
VP BD / Sales



Dr Arnaud Poiriel (PhD)
Scientific Manager



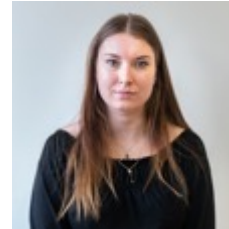
Dr Guillaume Gros (PhD)
Scientific Advisor



Dr Charlotte Godoy (PhD)
R&D engineer



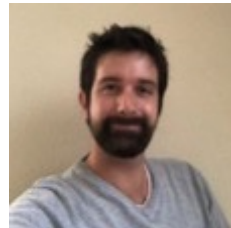
Ghizlene Zenasni
PhD Student



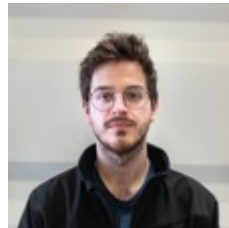
Marion Veyrunes
Lab Technician



Ronan Guguin
Project Manager



Olivier Seibel
Project Manager



Vincent Paoli
Process Engineer



Maxime Redondo
BDM Chile

Strategic Committee and Share Holders

Franck Boget
Board Director at Azulis Capital



Dominique Bouvier
Prev. CEO Entrepose and EVOLEN



Philippe Degrémont
Private Fund Manager - Julius Baer



Jean-Georges Malcor
Prev. CEO CGG – current Administrator
Ortec, Fives, etc.



Scientific Committee and Share Holders

Philippe Gislette
Prev. Scientific Director Suez



Patrice Guguin
Prev. Head of desalination
and industrial water Suez



Philippe Hocquet
Prev. Manager Technical Centre
Schlumberger



Shareholding structure

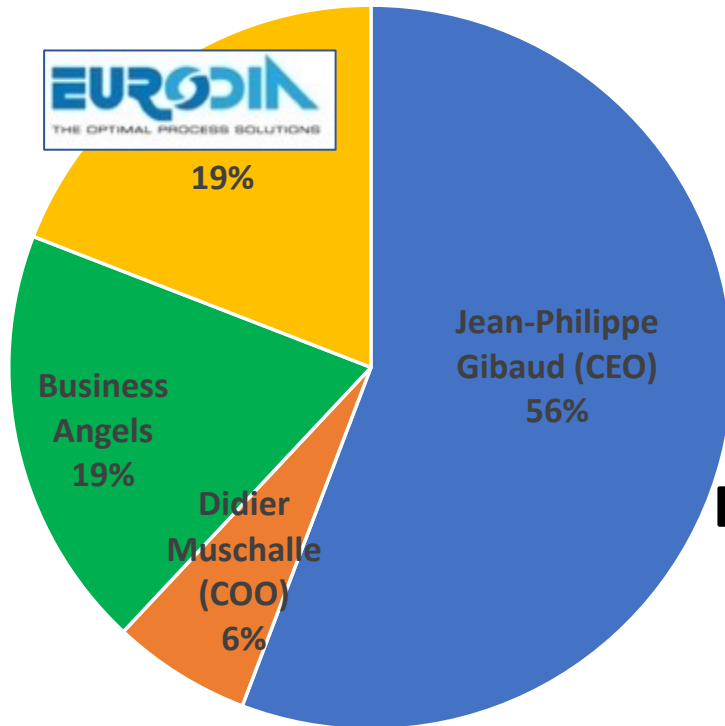
Fund raising as at June 30th : 1.5 M€

Value : 6.2 M€

New investor & partner : **EURODIA**

- French Industrial Process Solutions Provider
- Expertise in fluid treatments (Lithium, wine, dairy, sugar)
- Lithium refining : Bipolar membrane electro dialysis (EDBM)
- www.eurodia.com

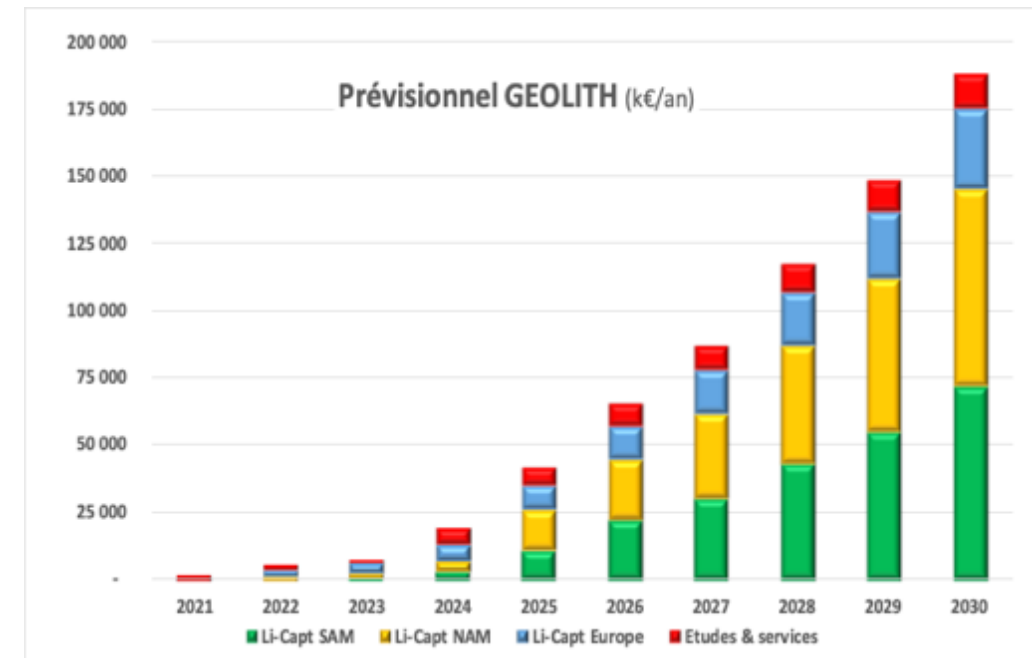
GEOLITH Shareholding



Lithium extraction facilities from well to market as an EPC

Business Plan: Sales

- 1 M€ in 2021
- 20 M€ in 2024
- 180 M€ in 2030
(10% of new lithium projects)





GEOLITH

Jean-Philippe Gibaud (CEO)

Office and Lab : Paris-Saclay (91)

Pilot testing and manufacturing : Haguenau (67)

Contact: jpgibaud@geolith.fr

Tel: +33 6 87 83 65 01

www.geolith.fr