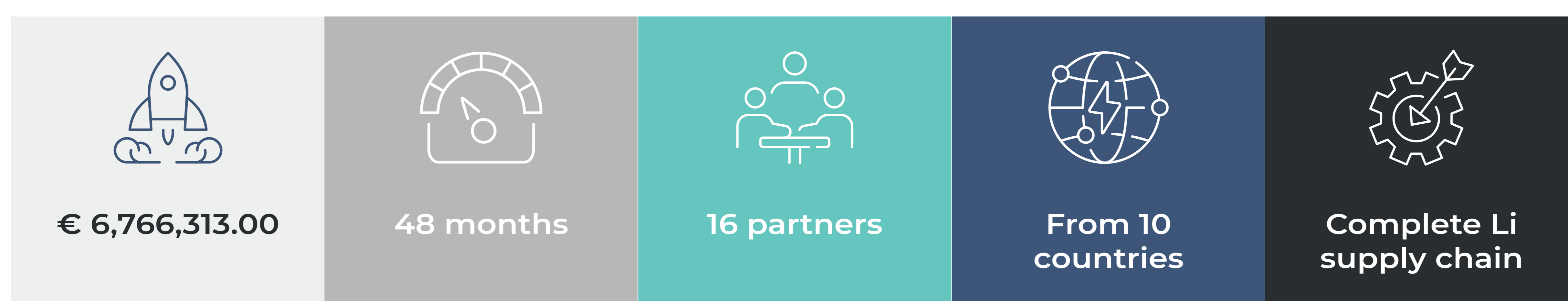




# Building up strategic reserves of Lithium to ensure the green and digital transformation of the European economy



Lithium recovery and battery-grade materials production from European resources



## OBJECTIVES

The LiCORNE project aims to establish the first ever Li supply chain in Europe, increasing the European Li processing and refining capacity for producing battery-grade chemicals from ores, geothermal and continental brines, tailings and off-specification cathode materials (waste).

## CONCEPT

### 14 different ground-breaking technologies



## IMPACT

### Building up the competitive production of Li from European resources

LiCORNE will allow European Li to be mined, processed, and refined in the EU at a competitive cost and environmentally friendly way, and in the vicinity of gigafactories, securing therefore materials supply and reducing significantly the cost of transport and associated GHG emissions.

#### EXPECTED MID-TERM OUTCOMES



Process development and validation on a wide range of feedstock to demonstrate the robustness and flexibility of innovative technologies, that are equally safe and cost-effective



Reduced GHG emissions, increased energy efficiency, and more efficient resource use and yield



Establishment of a unique platform built on combined knowledge and resources to produce battery-grade materials (LiOH, Li<sub>2</sub>CO<sub>3</sub> or Li-metal) from European sources



New business opportunities and models for the European industry, creating additional jobs from increased processing and refining capacity

#### EXPECTED LONG-TERM OUTCOMES



Increased competitiveness of the European battery ecosystem through generated knowledge and leading-edge techs.

Accelerated growth of innovative, competitive and sustainable battery manufacturing industry in Europe

Increased overall sustainability and improved LCA of each segment of the battery value chain



Development and establishment of innovative recycling network and technologies in line with the European Circular Economy Action Plan (March 2020)



## STAY IN TOUCH

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Funded by the European Union under Grant Agreement No 101069644. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.