

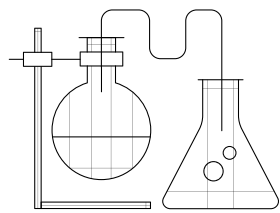


Elkem – Utilization of Soft Funding opportunities

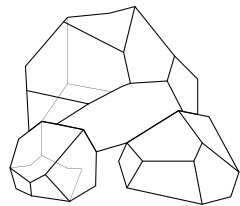
Dr. Håvard Moe, SVP Elkem Technology
16 February 2022

We are Elkem

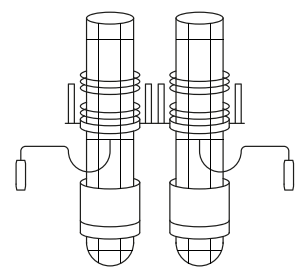
Advanced material solutions shaping a better and more sustainable future



Silicones



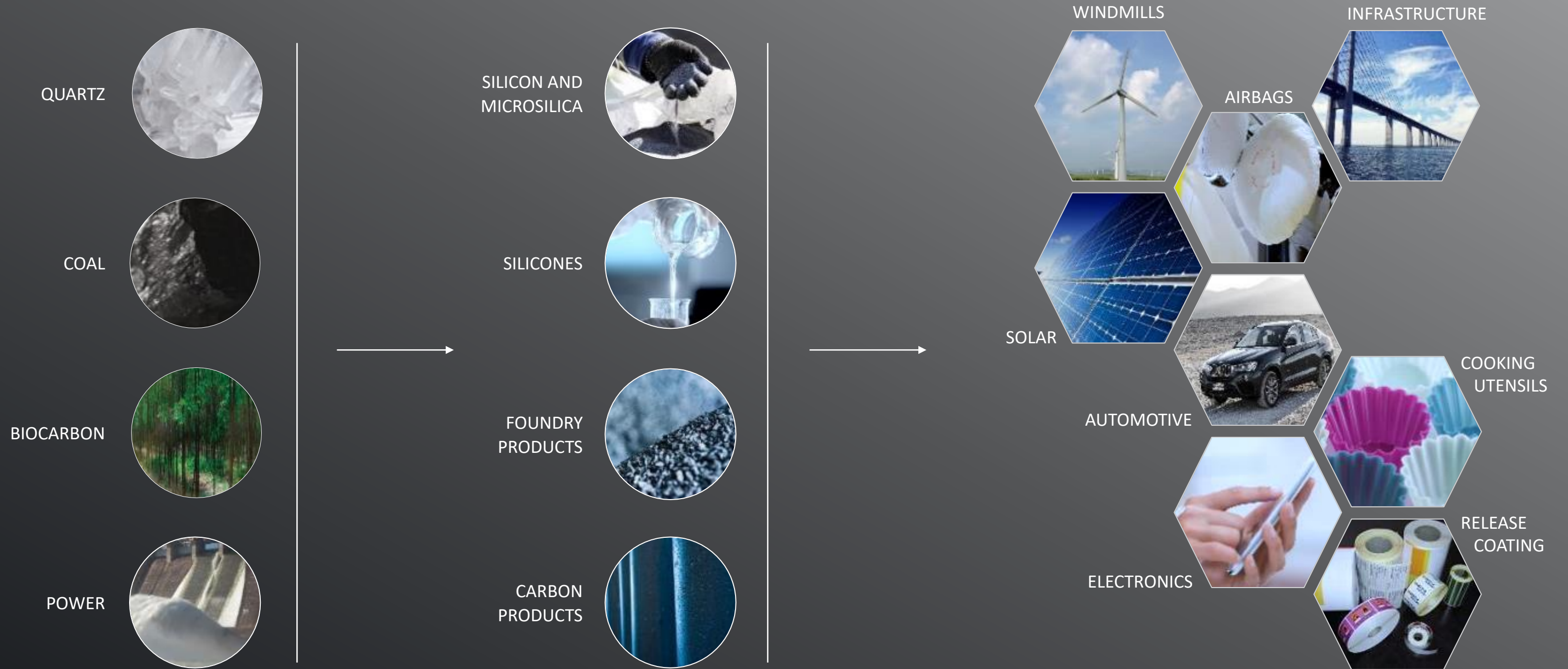
Silicon Products



Carbon Solutions



Our products are **vital for modern societies**



LOW COST SUSTAINABLE INPUT FACTORS

HIGH TEMPERATURE / CHEMICAL PRODUCTION PROCESSES

EXAMPLES OF HIGH VALUE APPLICATIONS AND MARKETS

This is Elkem

One of the world's leading providers of advanced material solutions

Who we are

- A global team of 6,800 people, with >500 in R&D
- 29 production sites, R&D centres and offices worldwide
- Headquartered in Norway, hubs in France and China

Our commitments

- Our purpose: Advanced material solutions shaping a better and more sustainable future
- Our strategy: Growth driven by operational excellence and increased specialisation

What we do

- We create and deliver advanced material solutions
- We offer specialties and standards from fully-integrated value chains
- Our divisions: Silicones, Silicon Products and Carbon Solutions

Our performance

- Track record of continuous improvement since 1904
- 2020: NOK 24.7 billion in revenues (USD 2.9 billion)
- 2020: Ecovadis "Gold" rating on sustainability, CDP "A" on climate

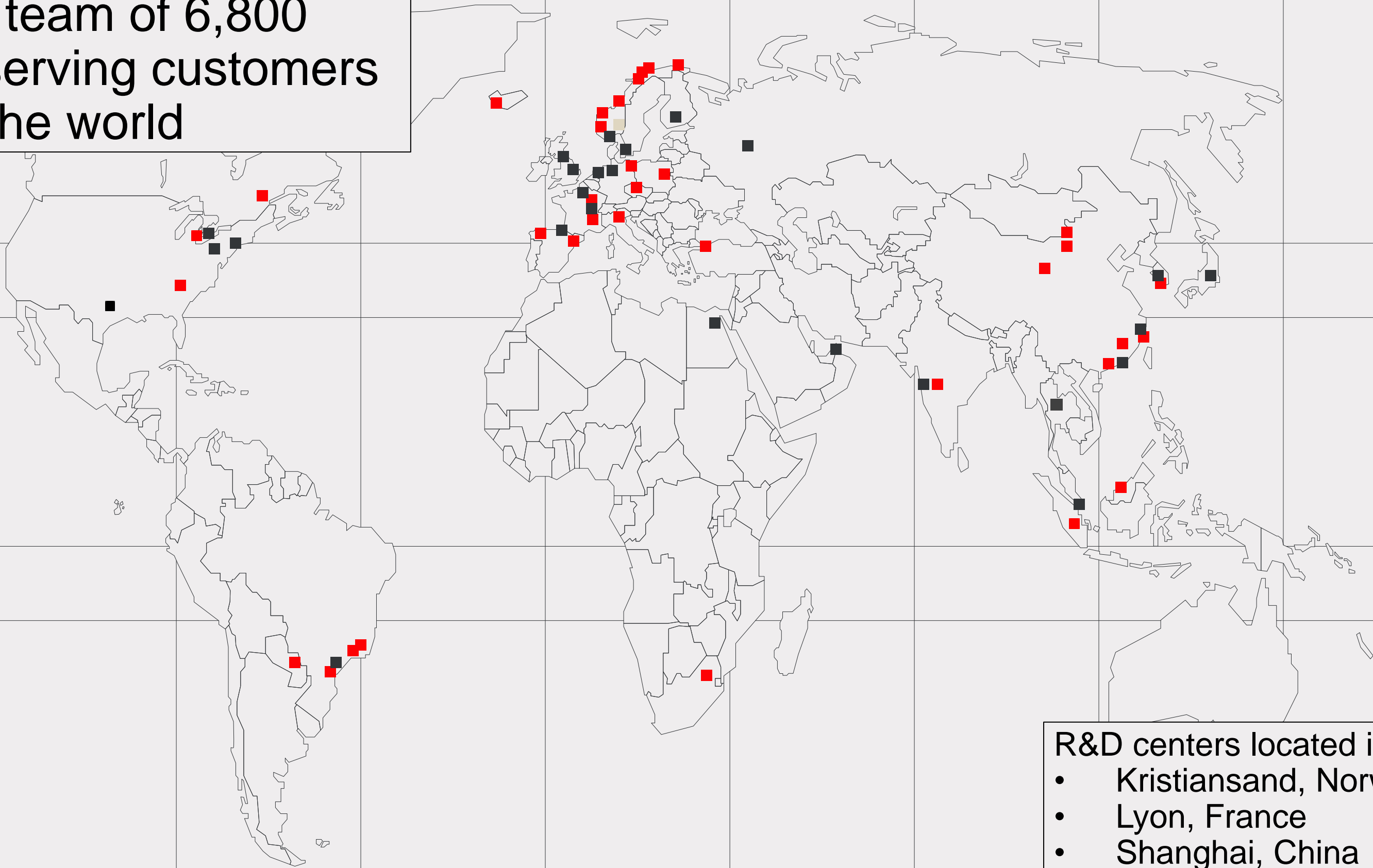


A global team of 6,800 people serving customers around the world

- Production site
- Sales office
- HQ



- R&D centers located in:
- Kristiansand, Norway
 - Lyon, France
 - Shanghai, China



Which support scheme is suitable?

Research, innovation and business development



Basic research



Applied research



Innovation



Commerciali-zation



Growth

The Research Council of Norway

Regional Funds

SkatteFUNN

ENOVA

EU-Funding (Horisont 2020)

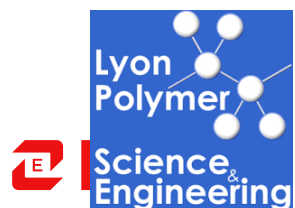
Innovation Norway

SIVA – Norwegian Catapult Centres

Eksfin



Selected R&D partners (RTOs)





*SFI = The Centres for
Research-based
Innovation scheme*

- Elkem is part of the SFI which is co-funded by the industry, the R&D-partners and the Norwegian Research Council
- Vision: Resource efficient metal production from a clean industry
- Overall objectives:
 - Strengthen the innovation of one of Norway's largest land based industries
 - Give access to world-class fundamental competence and candidates
 - Be a collaborative platform for the Metal producing industry, Academia and research communities in Norway
- Project owner: SINTEF Industry



Hydro



- Total budget 25,6M€ / 256MNOK
- Project duration 2015-2023
- www.elkem.com/innovation/long-term-rd/sfi-metal-production/

KPN

TAPI

*Towards **A**utonomy in the **P**rocess **I**ndustries*

*KPN = Knowledge-
building Projects for
Industry*

- Project scope: The aim of TAPI is to move Norwegian land-based process industries towards more autonomous operations by exploring the intersection between machine learning (ML) and more traditional model-based control methods.
- Elkem role: Advanced analytics, improved furnace control
- Project owner: SINTEF Digital

Research partners

 **SINTEF**  **NTNU**

International collaboration

 **UNIVERSITY OF OXFORD**  **LINKÖPING UNIVERSITY**

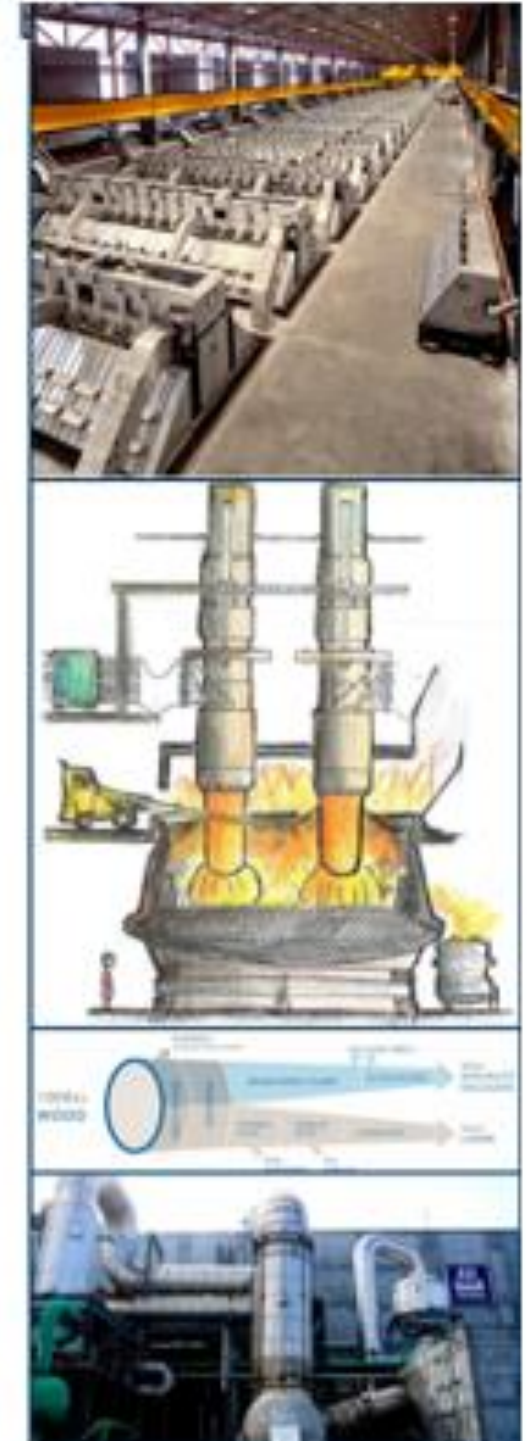
Project funding
Total 29.25 MNOK



Industry partners

 **Borregaard**  **Elkem**  **Hydro**  **YARA**

- Total budget 2,9M€ / 29MNOK
- Project duration 2019-2023



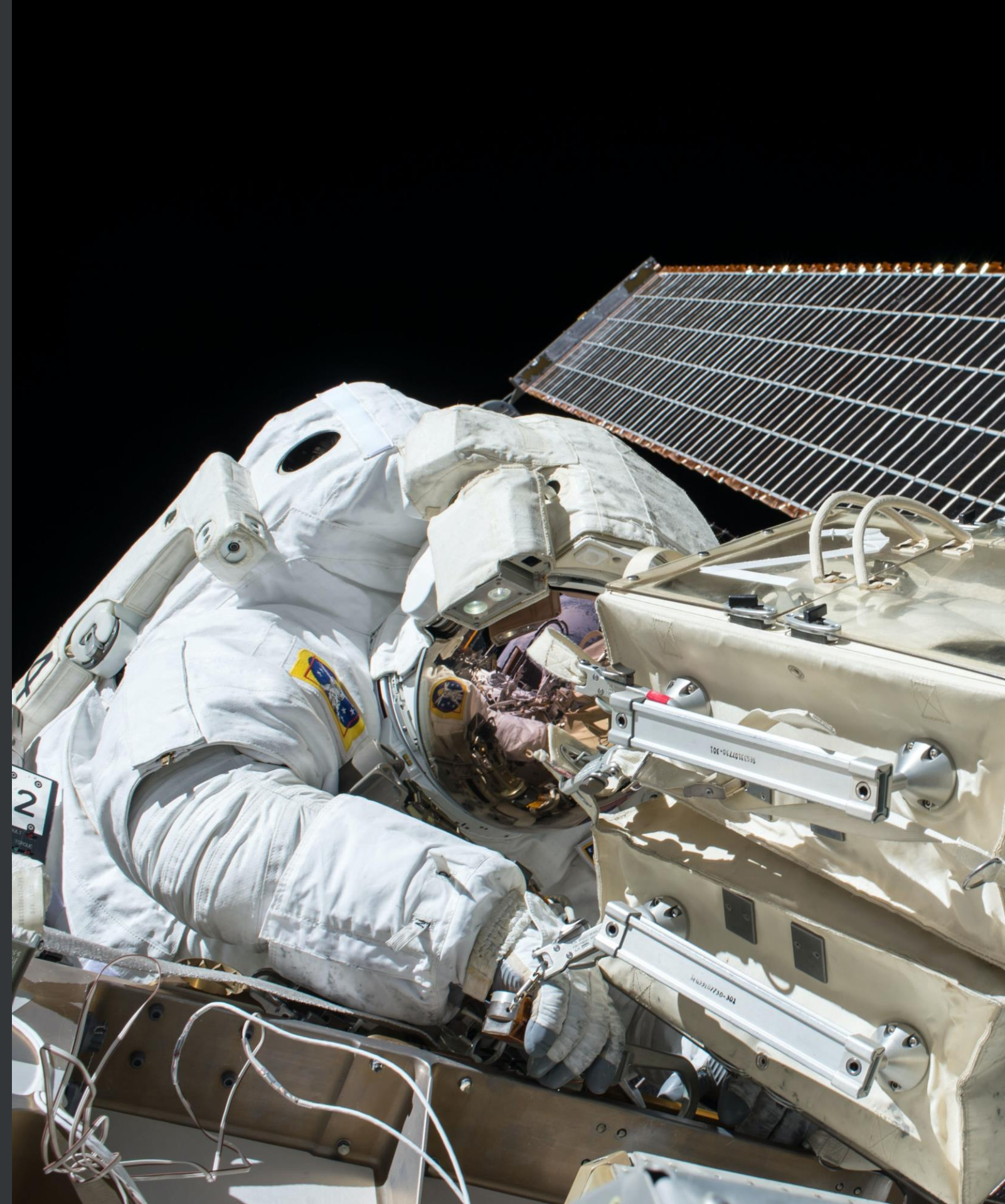
Soft Funding

Since 2010, Elkem has received > NOK 800 million in soft funding from Norwegian governmental institutions and EU Horizon Europe:

- Research Council of Norway
 - Portfolio of R&D projects (process, product and digital), both joint industry projects and projects managed by Elkem
- Innovation Norway
 - Biocarbon feasibility study
 - Battery Materials pilot (Vianode)
- SIVA
 - Future Materials Norwegian Catapult
- ENOVA
 - Salten Energy Recovery (NOK 350 million)
 - Implementation of new and climate-friendly technologies at Elkem's Norwegian plants
- EU funding
 - Portfolio of projects with strategic academic and industrial partners



Delivering your
potential





Delivering your potential