

BUILDING THE CCS(U) VALUE CHAIN IN THE BALTICS

SCHWENK Latvija

Evita Gosa

6 May 2025



SCHWENK

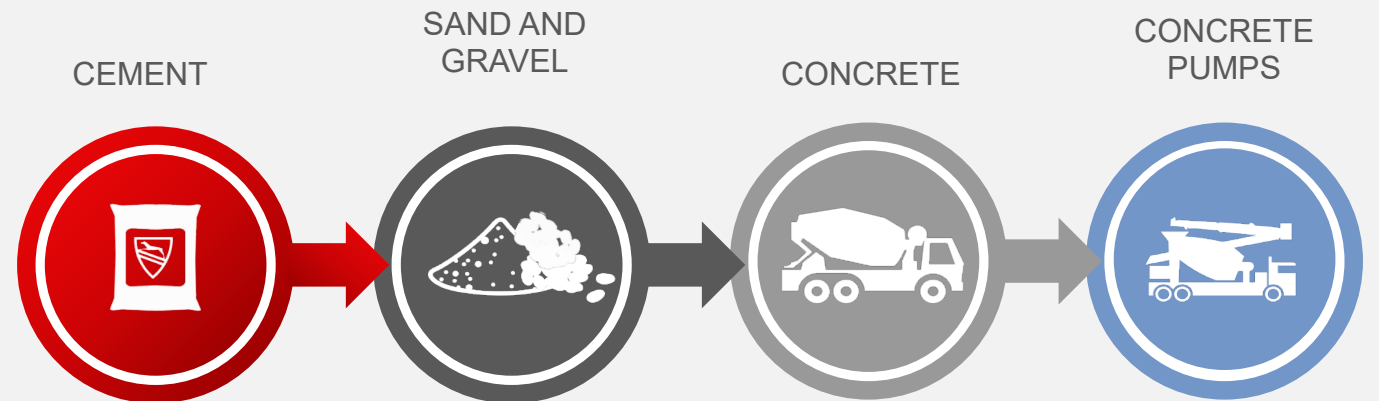
SCHWENK BUILDING MATERIALS GROUP

Founded by Eduard Schwenk
in 1847, Ulm, Germany

Employees worldwide ~ 4000

Leader in sustainability and
innovation

Since 2019 – in Northern
Europe





VISION

**Sustainable
building solutions
for generations to
come**

MISSION

**Combining excellent
people with innovative
technology, developing
net-zero CO₂ products
and processes with
our partners.**



VALUES



**FOR FUTURE
GENERATIONS**



**TWO STEPS
AHEAD**



**MORE THAN THE
SUM OF OUR PARTS**



FOUNDATION

**Family values: responsibility, honesty,
trust and mutual support**

SCHWENK NORTHERN EUROPE

One of the most advanced
cement plants in Europe – in
Broceni, Latvia

Cement plant in Akmenė,
Lithuania

12 seaport terminals in
Latvia, Finland, Sweden,
Norway



SCHWENK LATVIJA

EMPLOYEES ~360,
~650 SUBCONTRACTED
EMPLOYEES

TURNOVER 2024
139 M € (UNAUDITED)

MARKETS – LATVIA,
ESTONIA, LITHUANIA,
SWEDEN, FINLAND

CEMENT EXPORTS - ~70%



1

cement plant

5

ready-mix
plants

6

aggregates
quarries

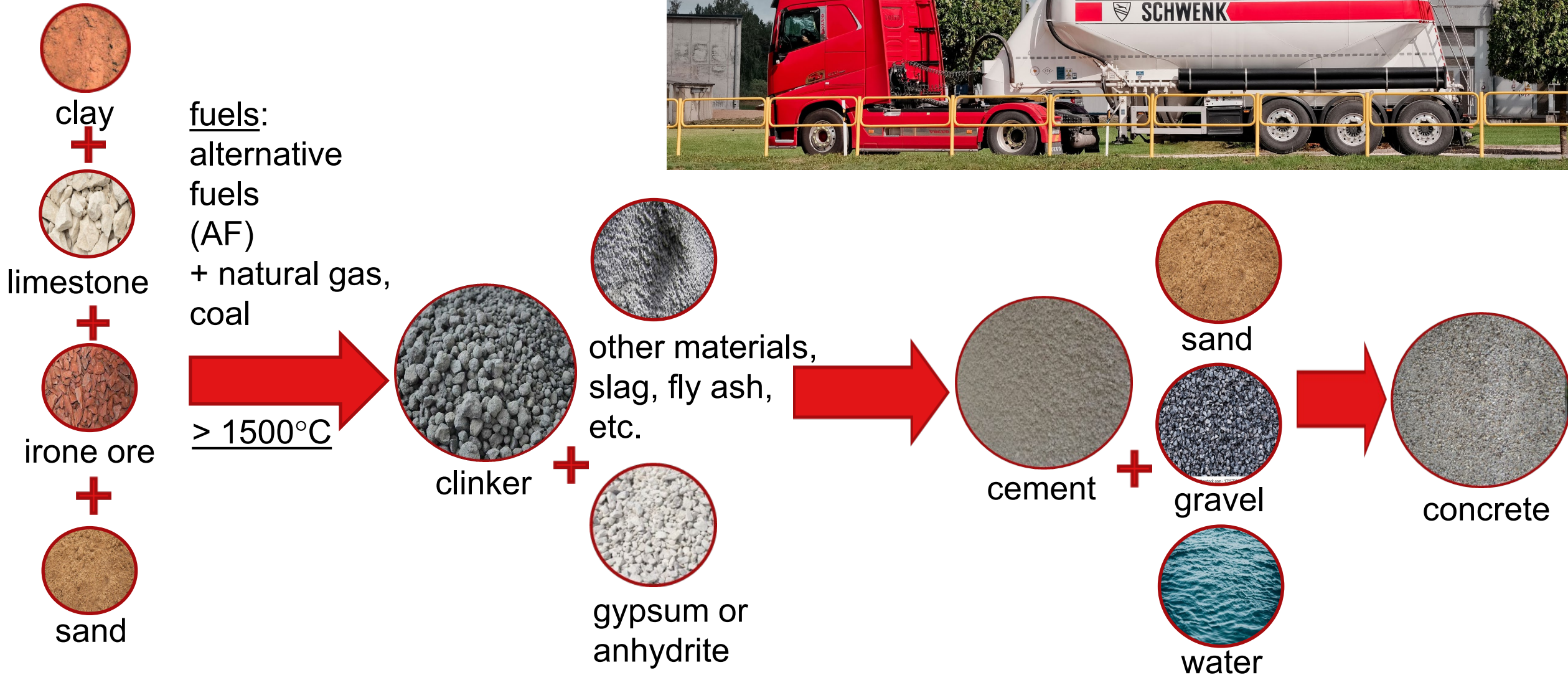
1

seaport
terminal

SUSTAINABILITY MISSION ZERO



PRODUCTION OF CEMENT AND CONCRETE



SCHWENK GROUP'S DECARBONISATION STRATEGY

FOUR PILLARS



Decarbonisation – traditional methods

- All SCHWENK plants are leaders in the use of alternative fuels
- Development and implementation of market and pricing strategies
- Ensuring future supplies of SCM (supplementary cementitious materials)
- Increasing the use of green electricity >30%

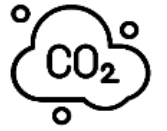


Circularity & recycling

- Increasing the use of recycled aggregates in the production of our ready-mix concrete >10%
- Participation in value chains



Decarbonisation – CCUS



- Being first: the first carbon capturing cement plant in 2030
- Two-tech approach: Oxyfuel + Tail-end (flue gas purification process)
- Top priority carbon management: key factors - cost and dependence on infrastructure

Innovation – safe future value



- Creating new value from SCHWENK's innovations (Celitement & MeCaClay)
- Visibility & partnerships with tech startups

EMISSIONS IN CEMENT PRODUCTION

WHERE DOES CO₂ ORIGINATE IN OUR PRODUCTION PROCESS?

FUEL DETERMINED EMISSIONS

Emerge through use of fossil and alternative fuels in rotary kiln.

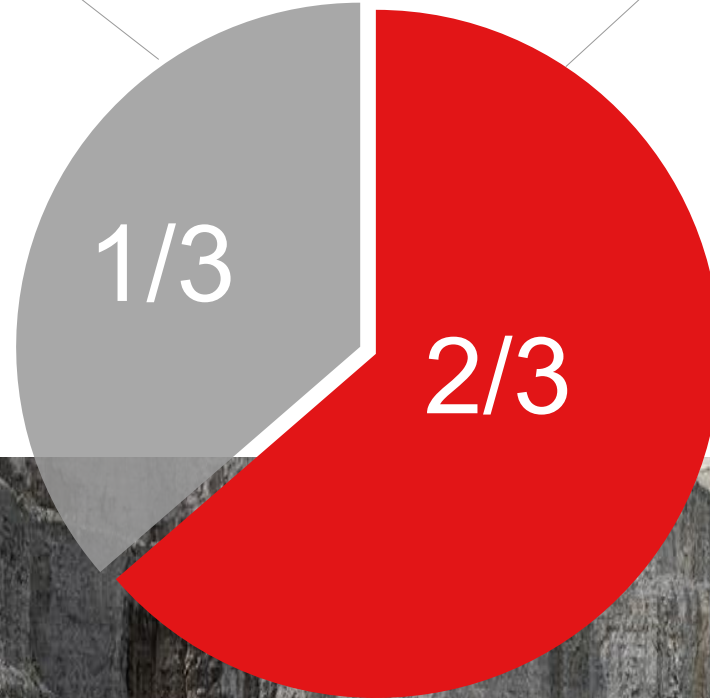
The further reduction of these emissions is our first priority.



RAW MATERIAL DETERMINED EMISSIONS

Bound in limestone and are released in burning processes

The possibility to reduce these emissions is rather limited.



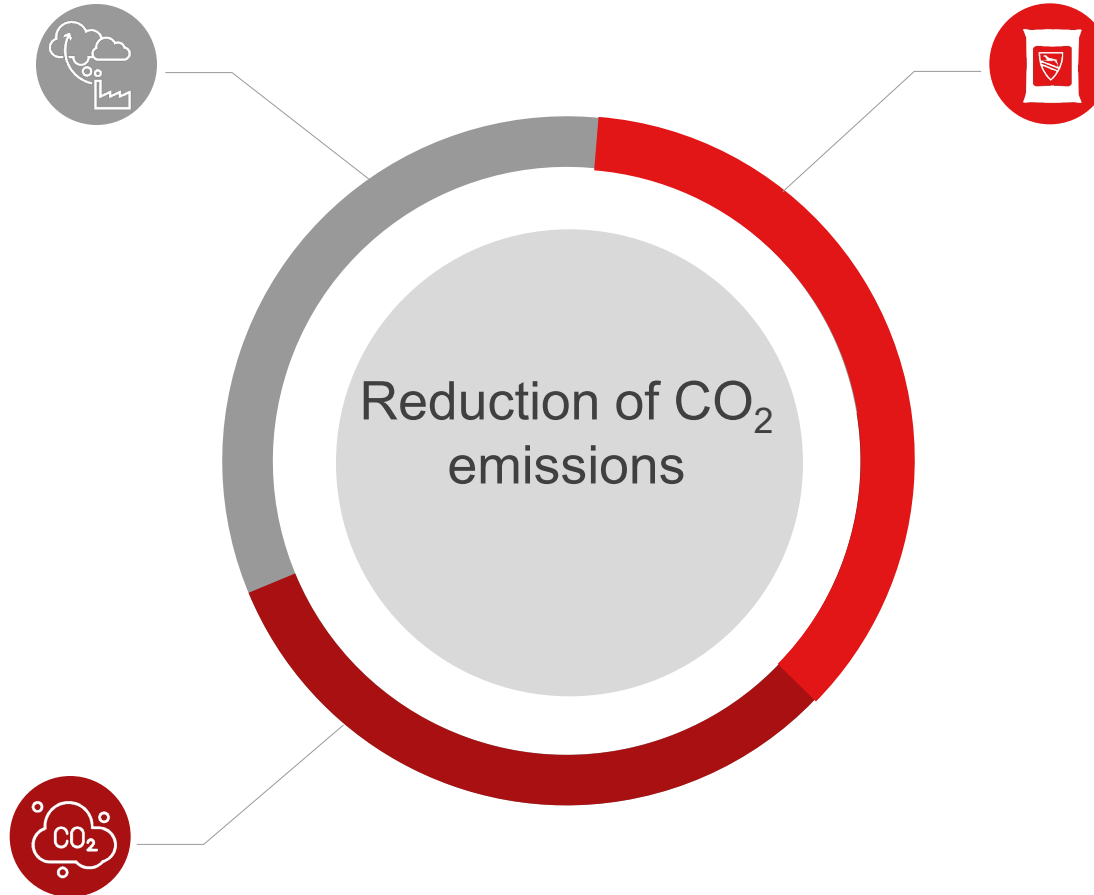
GOALS FOR REDUCING CO₂ EMISSIONS IN BROCENI PLANT

GOAL 1

- ✓ Reduce the CO₂ emission factor of the clinker by 50 kg/t CO₂ until 2025 compared to 2018
- Keep alternative fuel rate close to 100%

GOAL 3

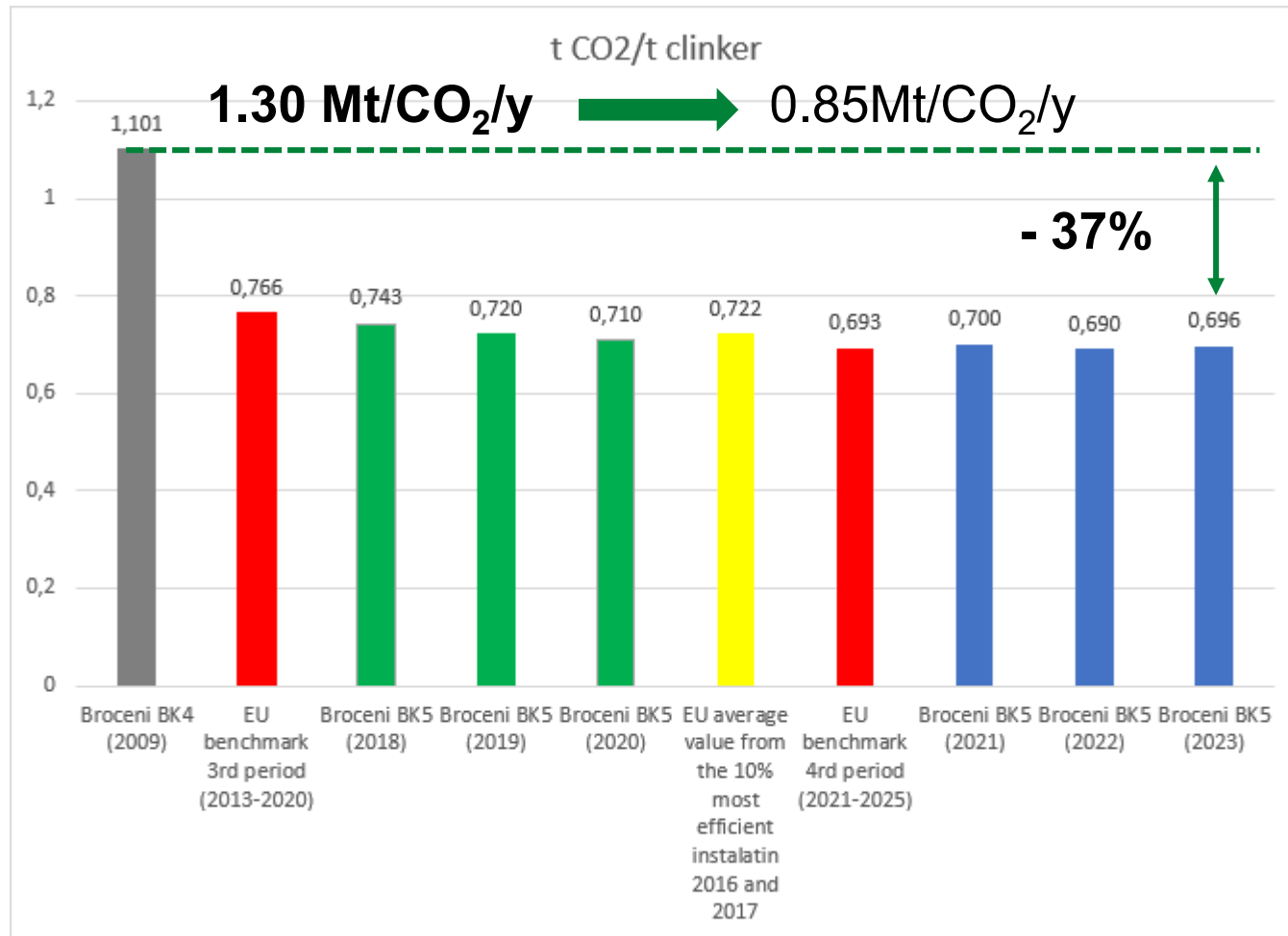
By 2030 – the first CO₂ capturing plant in the group (Broceni) catching yearly 800.000 t CO₂



GOAL 2

- ✓ Until 2025: Reduce the average clinker factor (% of clinker in cement) by 10% compared to 2018
- Until 2030: reduce by another 15%

CO₂ REDUCTION DYNAMICS IN BROCENI CEMENT PLANT



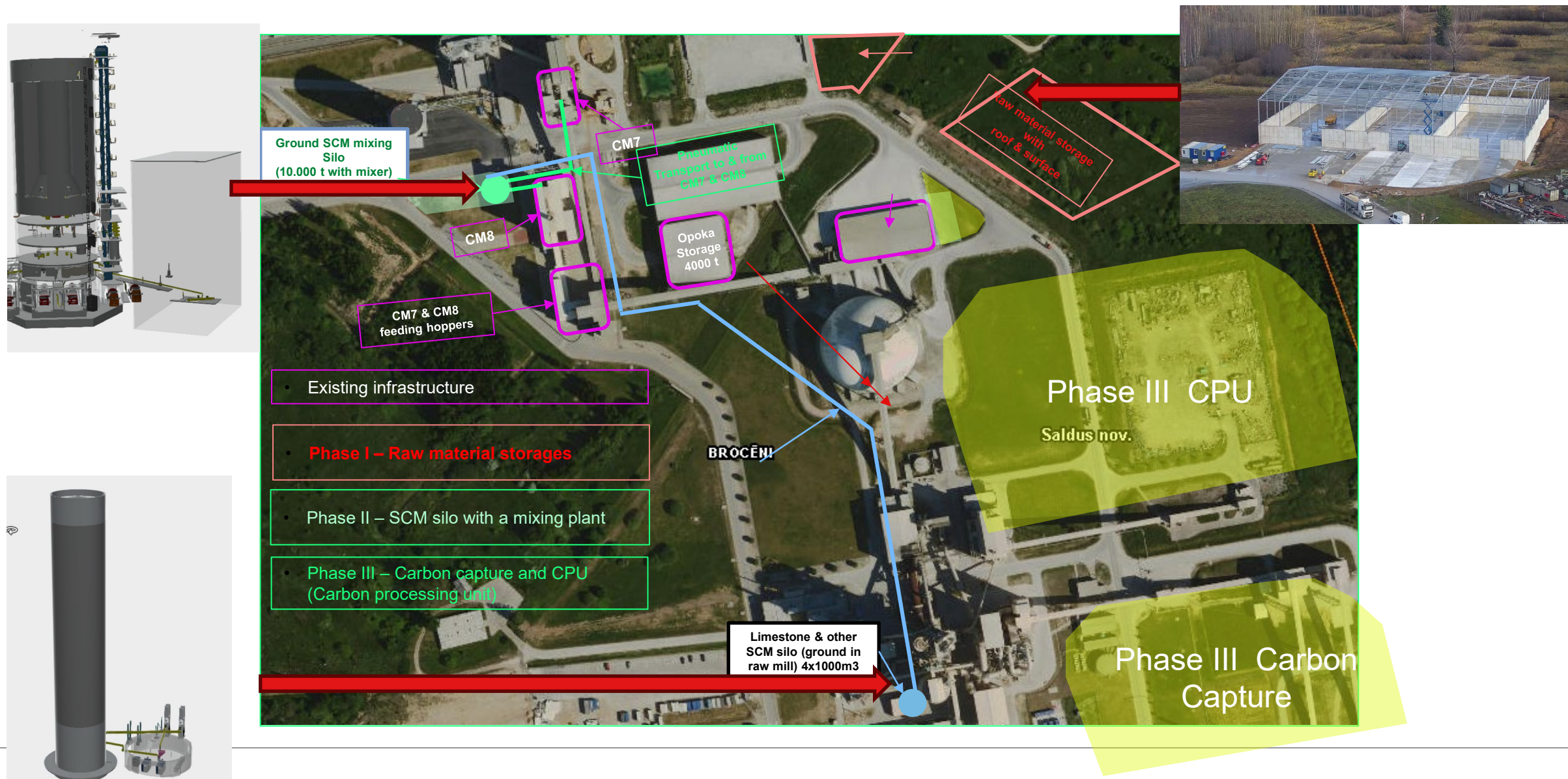
Since 2009 the amount of CO₂ emissions per ton of clinker has decreased by >37%

Since 2018 we decreased by another 50kg/ t clinker

➤ Broceni among best 3% in Europe

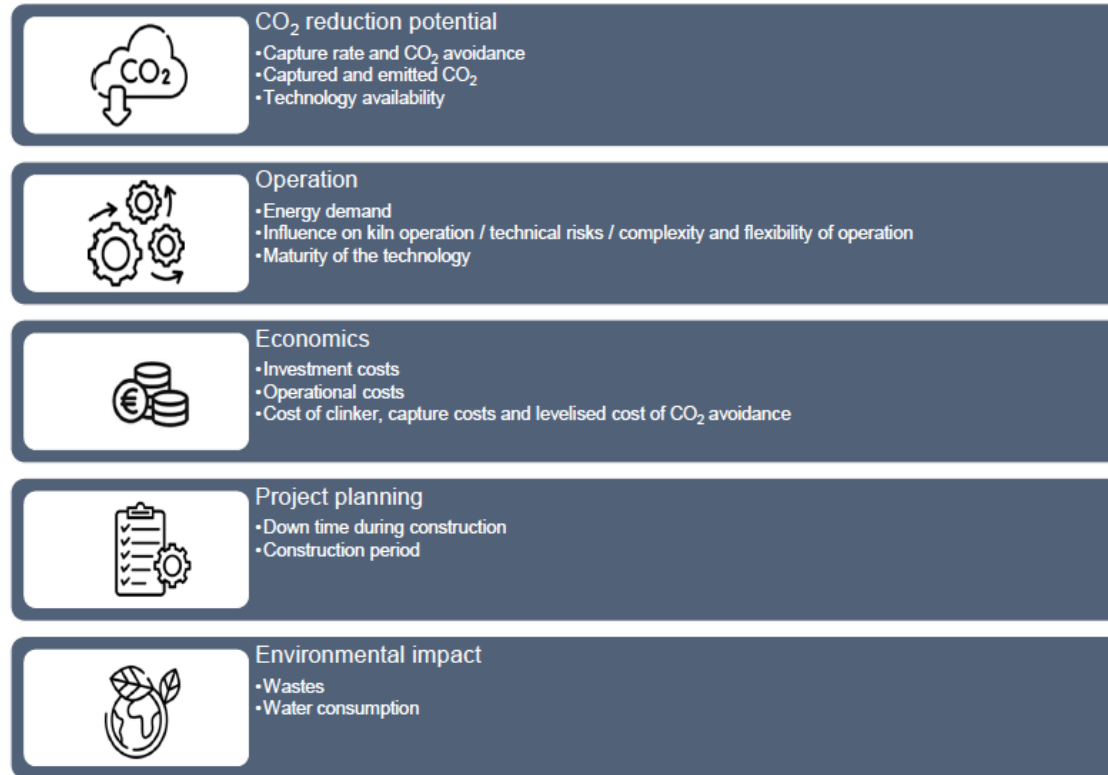
BROCENI CLINKER FACTOR REDUCTION PROJECT

COMPLETE OVERVIEW OF PHASE I – II INVESTMENTS 27 MEUR IN 2024 - 2026

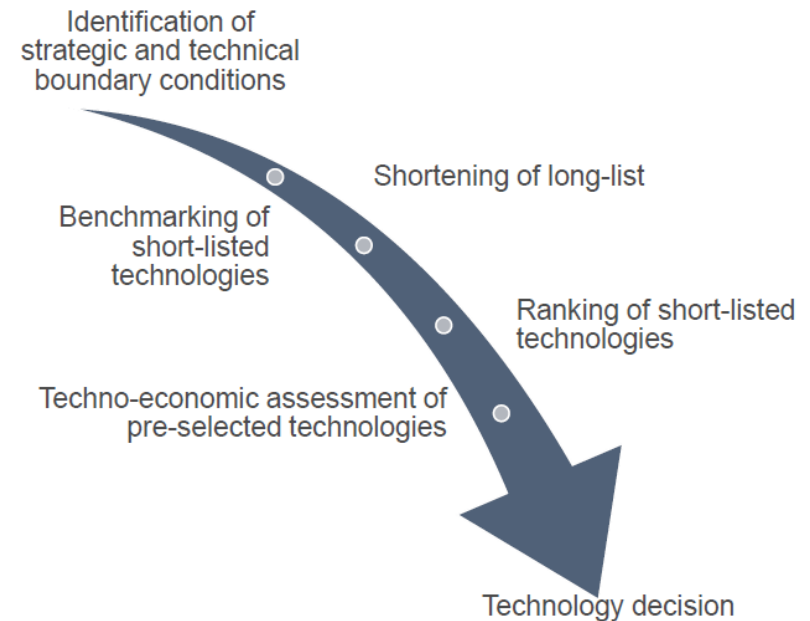


CHOICE OF CARBON CAPTURE TECHNOLOGY

9 DIFFERENT TECHNOLOGIES EVALUATED

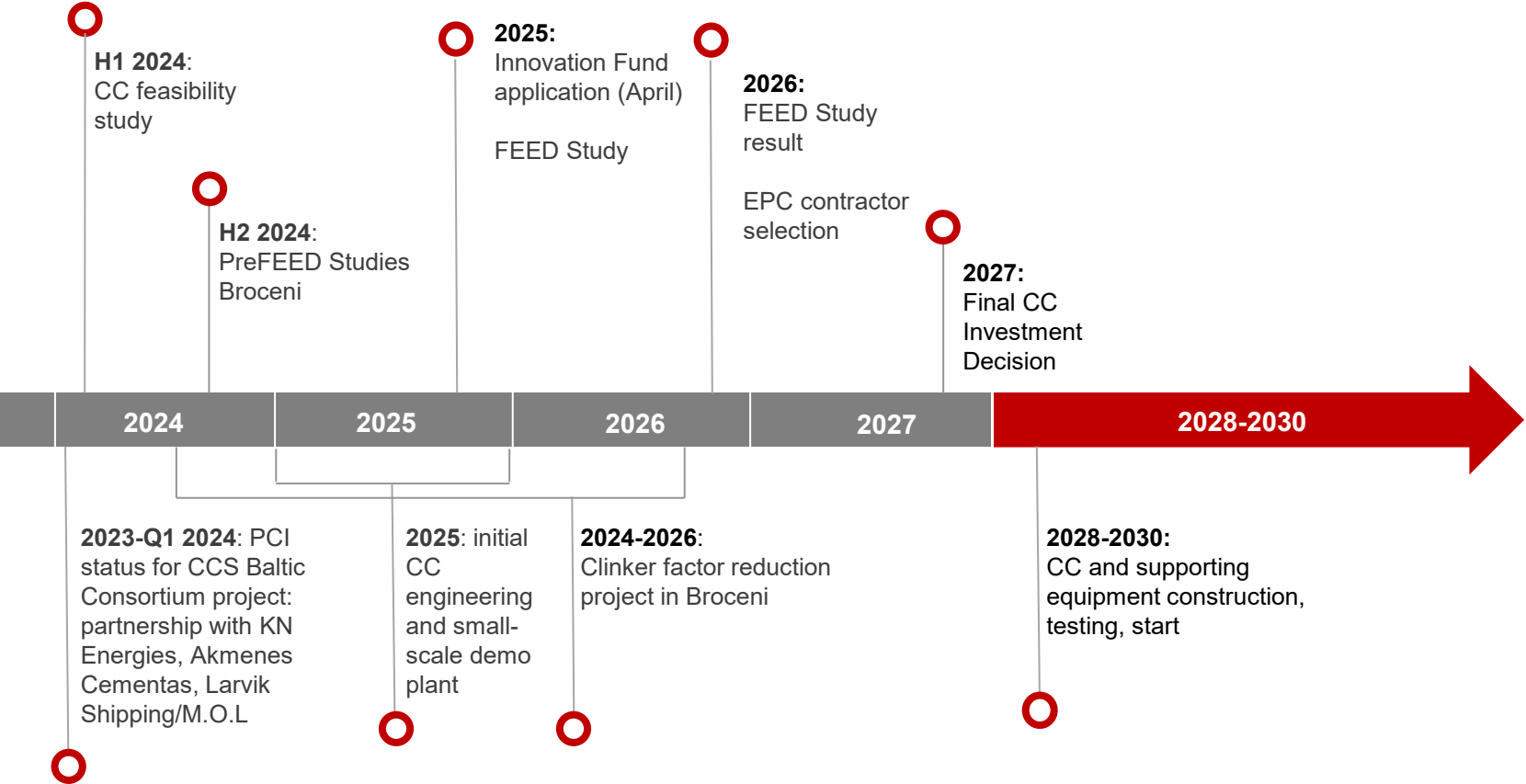


Technology selection process



PROJECT TIMELINE

BROCENI DECARBONIZATION LONG-TERM INDICATIVE TIMELINE





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