Carbfix

European Framework Programme for R&I – Innovation Fund Synergies Workshop

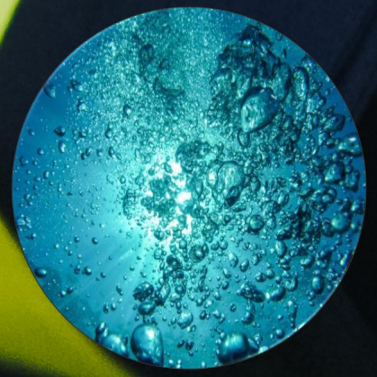
Ragna Björk Bragadóttir

Basalts and other reactive rock formations

CO_2 dissolved in water

Solid carbonates

+



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$CaCO_{3\,(s)}$
$MgCO_{3\,(s)}$
$FeCO_{3\,(s)}$

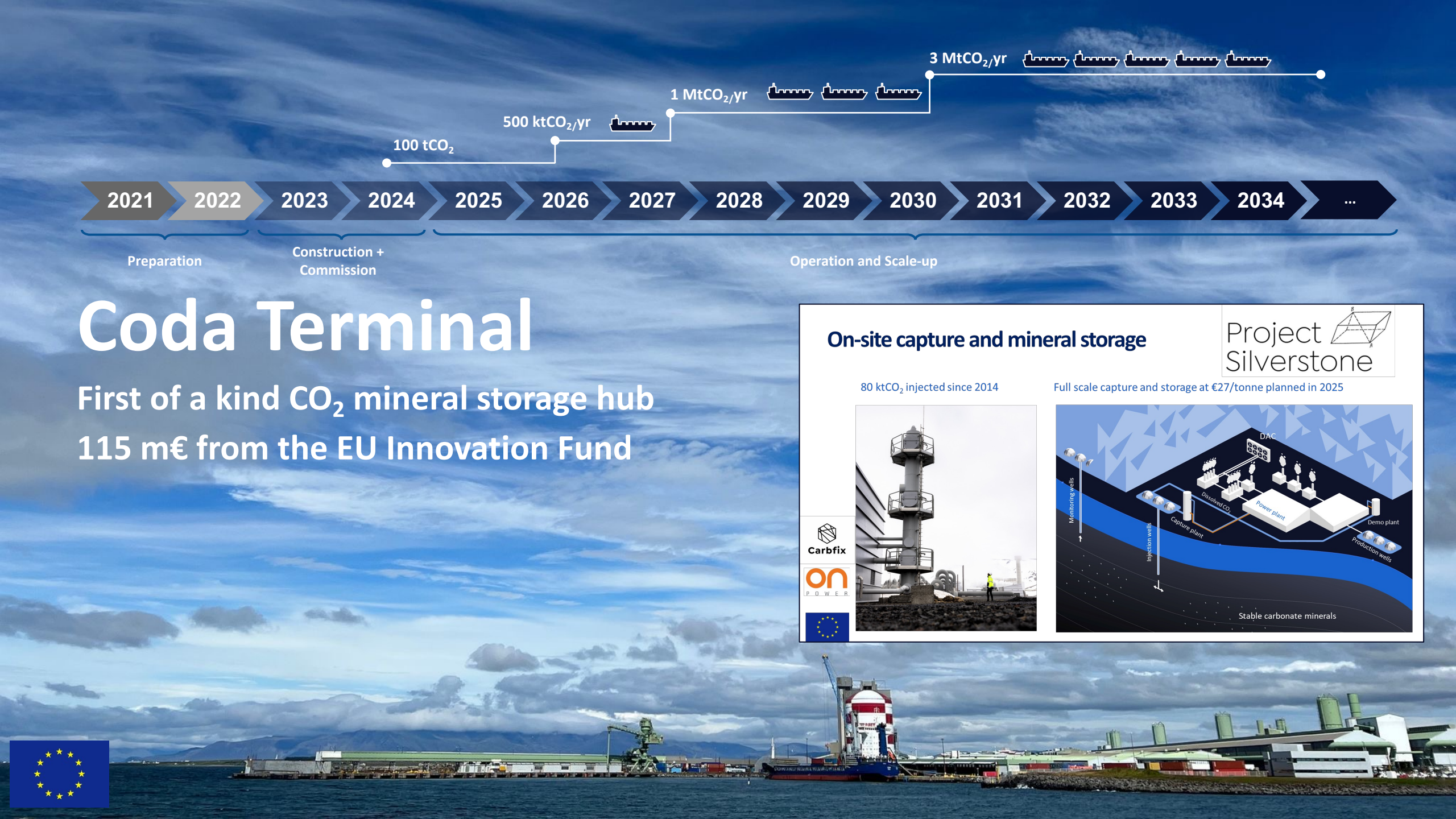
Ca^{2+}, Mg^{2+}, $Fe^{2+}_{(aq)}$

$CO_3^{2-}{}_{(aq)}$

Carbfix

Carbfix captures CO_2 and turns it into stone underground in under two years through proprietary technology that imitates and accelerates natural processes, providing a permanent and safe carbon storage solution.

Carbfix



Coda Terminal

First of a kind CO_2 mineral storage hub

115 m€ from the EU Innovation Fund

On-site capture and mineral storage

Project Silverstone

80 $ktCO_2$ injected since 2014

Full scale capture and storage at €27/tonne planned in 2025

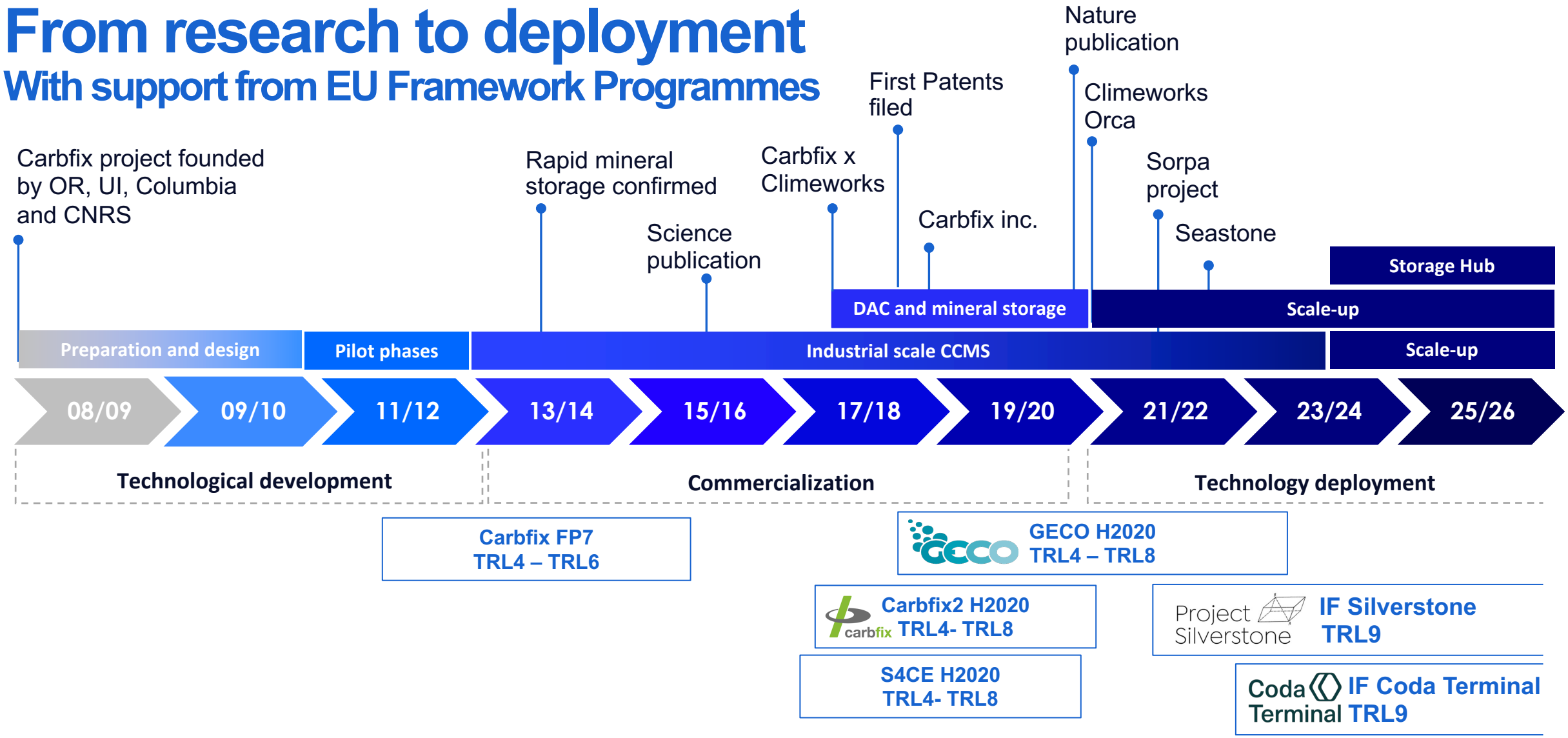
Carbfix

ON POWER

Carbfix

From research to deployment

With support from EU Framework Programmes



Carbfix

carbfix

Carbfix2

- Direct Air Capture
- On shore injection
- Off shore injection
- Economic/feasibility of the entire CCS cycle
- Dissemination and public acceptance

Carbfix

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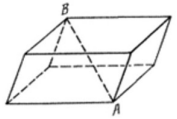
ORCA
Mammoth

Project Silverstone



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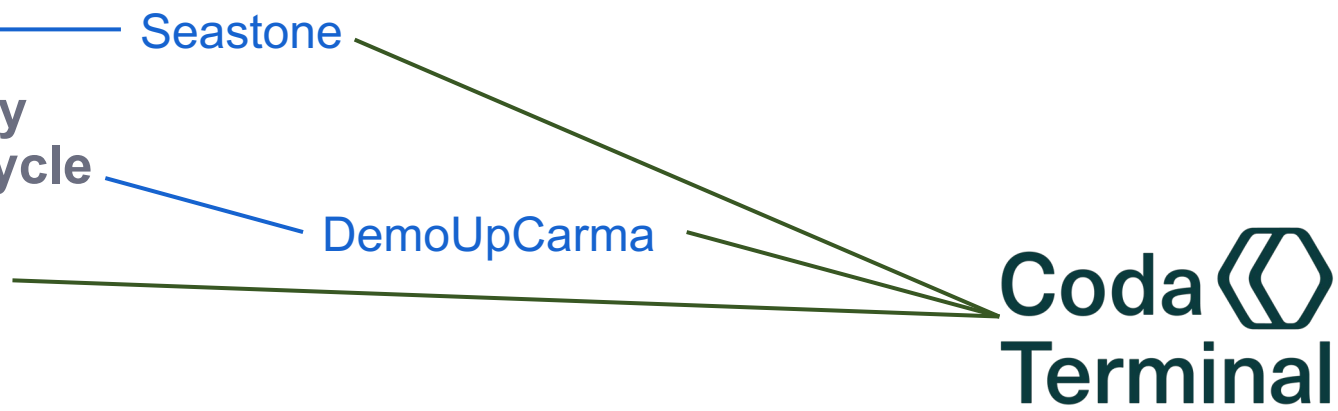

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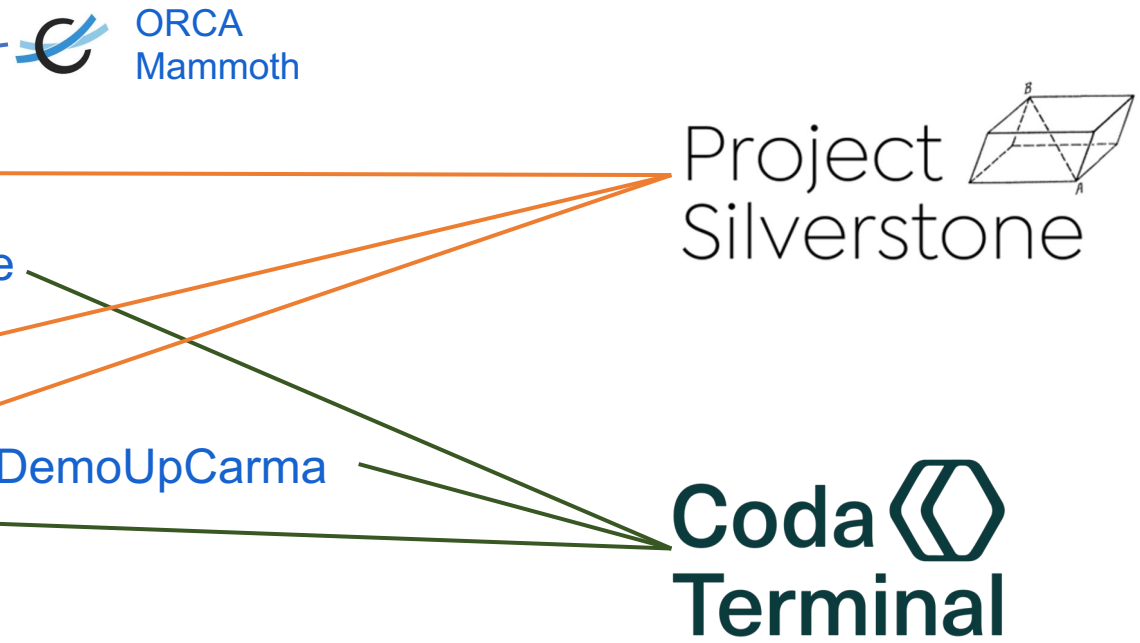

Carbfix

- Lower emissions from geothermal power
- Feasibility of using Carbfix in older basalts
- Improved re-injection design
- Quantify subsurface reactions
- Developing new monitoring methods

Carbfix

GECCO

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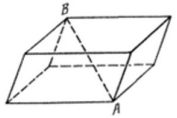
Project Silverstone



Carbfix

GECCO

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Sorpa Project

Coda Terminal

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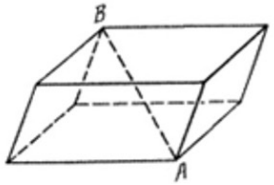
Sorpa Project

Project Silverstone

Coda Terminal

Carbfix

Project Silverstone



- Former H2020 projects had showed us that the technology was ready for industrial application
  - advances in reservoir management
  - further understanding on geochemical processes
  - optimisation of surface systems
- Logical decision to chose Innovation Fund since the foundation of the project was mostly researched under the H2020.
- Main challenge for the IF application was to illustrate its readiness while explaining the steps needed to make it even better

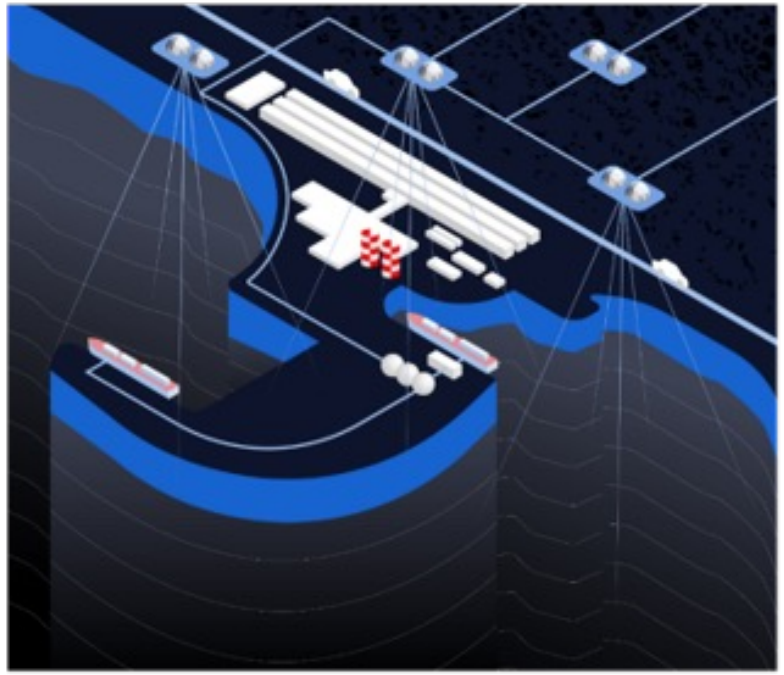
>80 $ktCO_2$ injected since 2014

Carbfix

ON POWER

Carbfix

Coda Terminal



- The Innovation Fund provided the necessary funding mechanism
- Coda Terminal was our idea of a continued scale up of the Carbfix technology
- Isolated puzzles related to the Carbfix Technology had been studied and demonstrated in former H2020 projects
  - Economic/feasibility of the entire CCS cycle
  - Improved re-injection design
  - The feasibility of using Carbfix in older basalts
- Main challenge for the IF application was to fulfil all the different requirements needed for the application.

Carbfix

DAN-UNITY CO_2

Carbfix

Lessons learnt

- Start early
- Get a good overview of the internal and external workload
- Scope the additional documents needed as soon as possible
- Seek advice from your national contact points early
- Submit a draft application a few days before the deadline
- **Be confident in your project!**

- If you don’t succeed the first time around, remember:
  - You have now identified the strengths and weaknesses of your project.
  - You can use the application documents or parts of it as a baseline for future applications
  - This is a huge team building exercise

Icelandic Silverstone Carbon Capture Project Receives €3.9 Million

by **Violet George** · January 11, 2022 · 2 minute read

04.11.2021

EUR 3.9 million EU Grant to Carbfix

12.07.2022

Carbfix's Coda Terminal awarded large EU grant

Carbfix has been selected for grant award from the European Innovation Fund to build the Coda Terminal, a la transport and storage hub at Straumsvík, Iceland the first of its kind in the world. Operations are se

Carbfix gets the biggest EU grant any Icelandic company has been awarded

Project Silverstone

Coda Terminal

Turning CO_2 into stone

Carbfix

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@Carbfix #Carbfix