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Head of Communications

TCM is the world's largest facility for testing and improving **CO₂ capture**.

Knowledge gained will prepare the ground for **CO₂ capture** initiatives to combat climate change world wide.



TCM – Highlights

-  2005 Government policy: No carbon based power generation in Norway without CCS
-  2006 State and Statoil agreed 2-staged approach:
 - 1: Demonstrate and develop capture technologies (TCM)
 - 2: Build large scale (1 mTons CO₂/year) capture plant
-  2009 Investment decision taken for TCM: = USD1Billion
Partnership established (TCM DA)
-  2012 Five year initial test period started

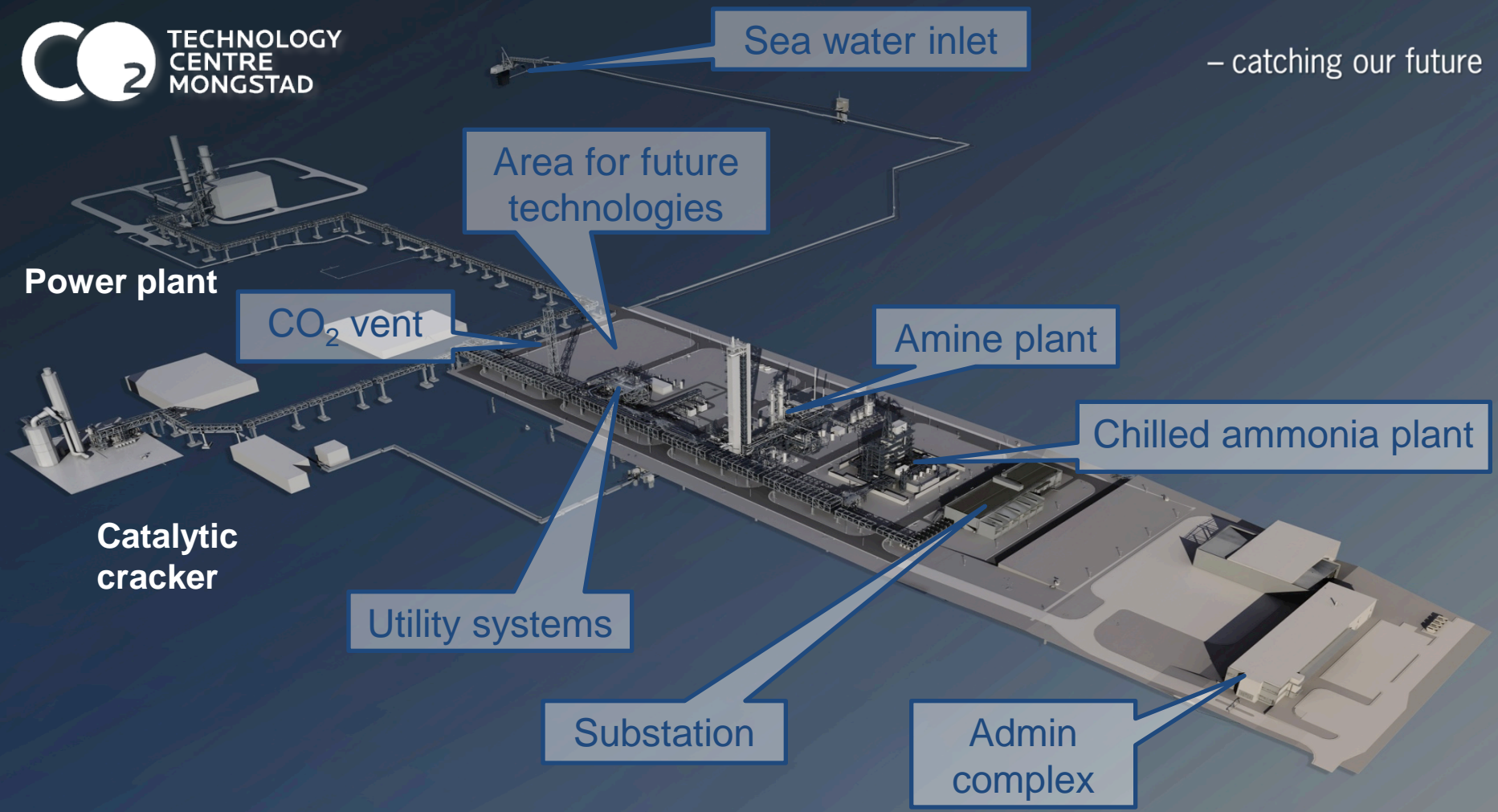


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Official inauguration in May 2012



Sea water inlet

Area for future technologies

Power plant

CO₂ vent

Amine plant

Chilled ammonia plant

Catalytic cracker

Utility systems

Substation

Admin complex

Refinery
RCC flue gas
= 13% CO₂

Power plant flue
gas = 3.5% CO₂















Collecting data from 4000 online instruments



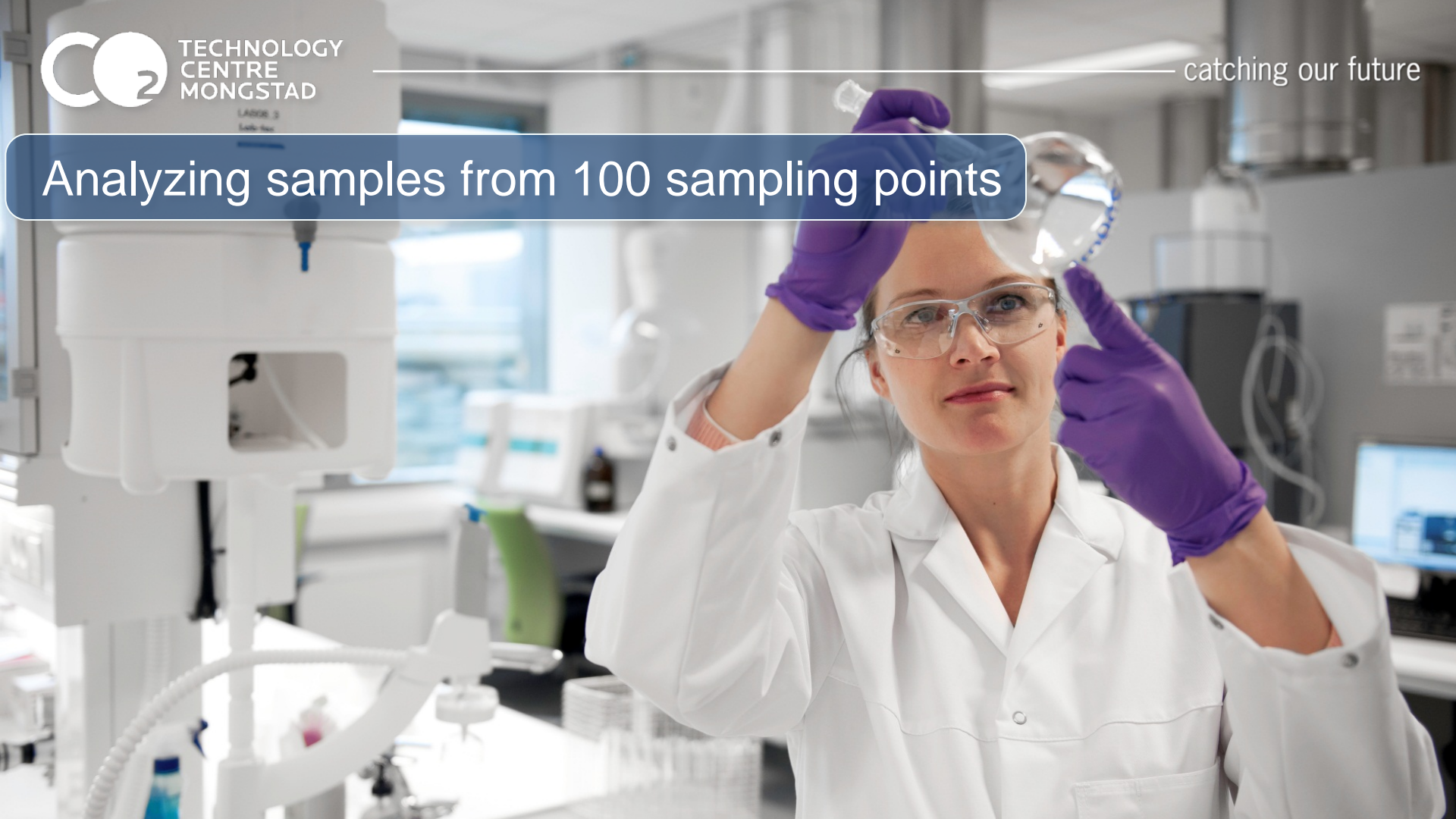


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LABOR 3
Løfte base

— catching our future

Analyzing samples from 100 sampling points

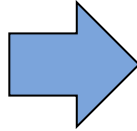


Multi-discipline technical staff



1

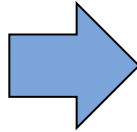
Establish CCS as cost efficient climate solution with acceptable risk



- Reduce costs (Cost/kWh)
- Mitigate risks preventing full-scale solutions

2

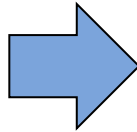
Drive technology development



- Take active part in shaping the technology landscape

3

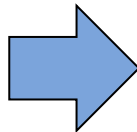
Position TCM at centre of a global knowledge network



- Be a centre in global network
- Exploit synergy with other players and institutions

4

Establish operating model which is attractive for users of TCM



- Set-up that is attractive for technology suppliers and R&D institutions to secure high activity level

Future utilization of Amine plant

- Good response to invitation (RFI) to use the Amine plant, e.g. Aker, Siemens, Hitachi, Mitsubishi
- Available for other users towards the end of 2013/beginning 2014.



Utilization of available site

- Invitation to vendors to use the available open slot/land, utilities and other infrastructure
- Open for acceptance until 31.12.2012
www.tcnda.com/Global/Dokumenter





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More than 4000 visitors to date



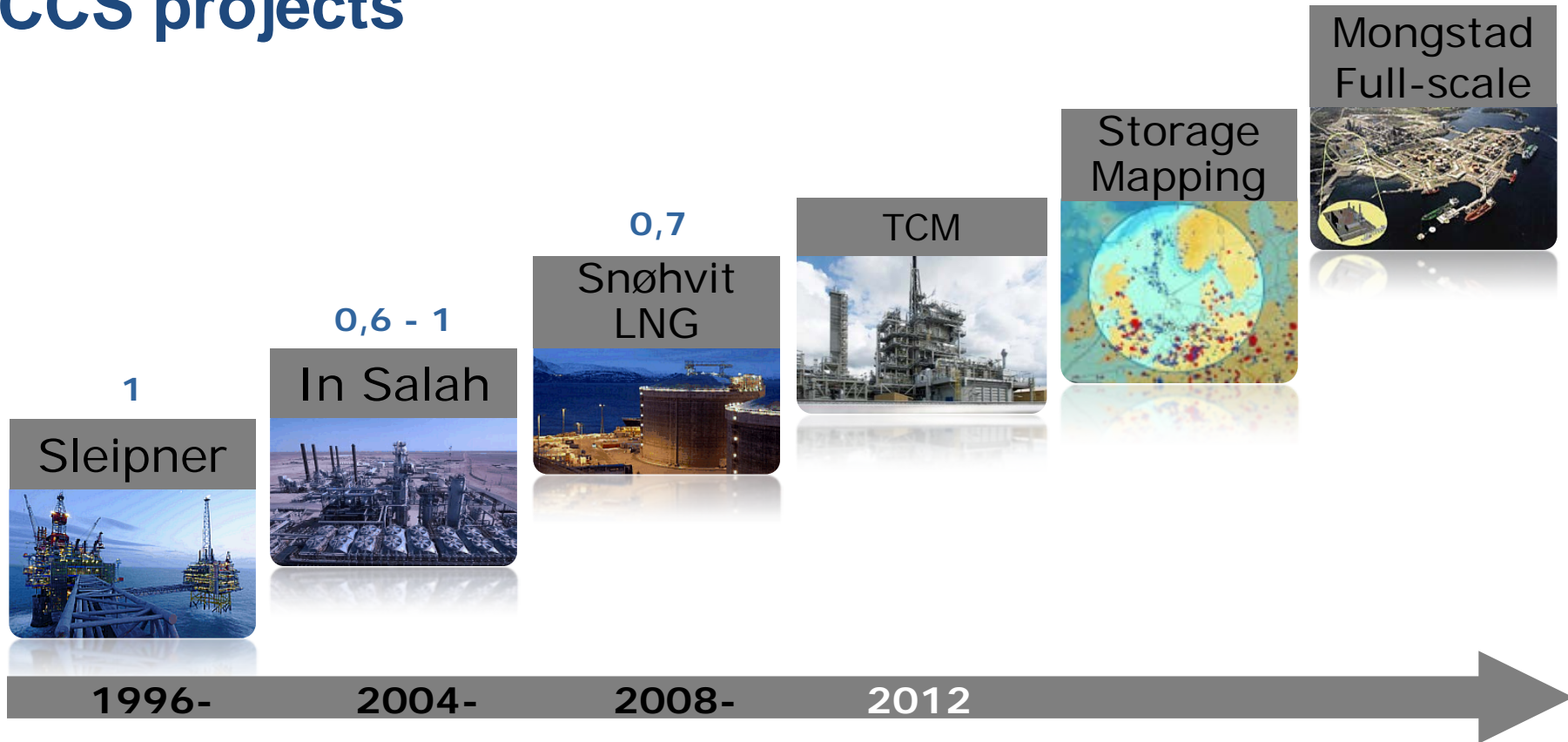
Norway Punching Above its Weight in CCS



- Financial resources
- Technical competence and resources
- Fossil fuels and Norwegian gas export sustainable in the long term

Source: Gassnova SF

CCS projects



1

Sleipner



1996-

0,6 - 1

In Salah



2004-

0,7

Snøhvit
LNG



2008-

TCM



2012

Storage
Mapping



Mongstad
Full-scale



Combat climate change through technology

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[Carbon Capture](#)

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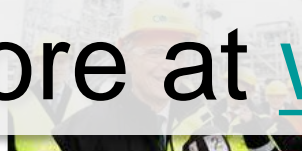
MILE STONE MONGSTAD

NEWS



Groundbreaking environmental surveys

TCM has during the last year, prior to the start-up, conducted environmental surveys of air, vegetation and water in a



TCM Inauguration makes headlines globally

News about the inauguration of the world's largest carbon capture test facility at Mongstad, Norway, has spread



Stoltenberg: TCM is important for the world

Yesterday, the Norwegian Prime

ABOUT TCM



Combat climate change. TCM is a joint venture between the Norwegian state, Statoil, Shell and Sasol.

EXTERNAL NEWS

Read more at www.tcmda.com