





SINTEF

ONE OF EUROPE'S LARGEST **INDEPENDENT**  
**RESEARCH ORGANISATIONS**

**367,5 million**

EUR turnover

**2200**

employees

**6400**

projects

**3300**

customers

INTERNATIONAL

**70,7 million EUR**

NATIONALITIES

**80**

PUBLICATIONS (INCL. DISSEMINATION)

**6200**

CUSTOMER SATISFACTION

**4,6 / 5**



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# «Ugelstad-particles»



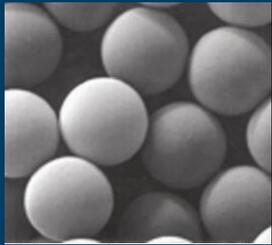


# Legacy of the “Ugelstad particles”

DRUG DELIVERY  
NANOMEDICINE

CRS

ETPN

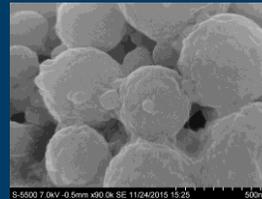


DYNABEADS

PARTICLE TECHNOLOGY  
EXPERTISE

NOVEL DYNABEADS  
FOR DRUG  
DELIVERY

DRUG DELIVERY  
PLATFORMS AND  
PATENT FAMILIES

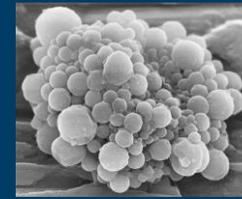
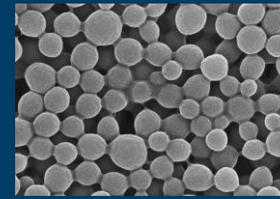


PACA

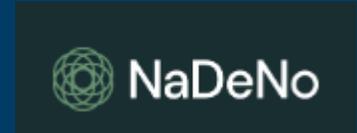
+

MINIEMULSION

INTERESTING FIT



IDEA FOR FIRST  
PATENT FAMILY



SPIN-OFF  
COMPANY

SUBMICRON  
PARTICLES BY  
MINIEMULSION  
MANY DIFFERENT  
MATERIALS



PVC, BINDERS

PROCESS TECHNOLOGY  
EXPERTISE

1980

1996

2006

2012

2022



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# The success of oil and gas – cooperation with Equinor

- Experimental activities since 1980/ 1990 supporting the refineries
  - Octaneprosesses
  - Hydrotreatment





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# Carbon Capture and Storage - Solvit

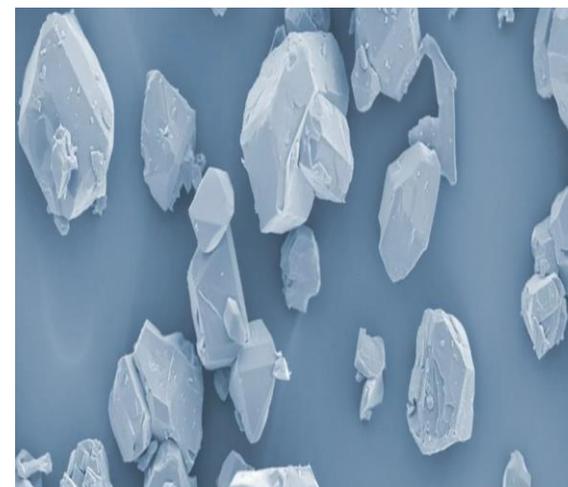
Elkem successfully completes the world's first pilot for carbon capture and storage in a smelter



Elkem, a leading producer of advanced silicon-based materials, has completed its first pilot for carbon capture and storage (CCS) at its plant in Rana, Norway. The pilot recorded high capture rates of CO<sub>2</sub>, up to 95%, indicating technical viability of CCS in smelters.

# The GEMINI collaboration

- The Gemini centre is a model for strategic cooperation between research groups at NTNU, SINTEF, University of Oslo, St. Olav's Hospital and NTNU Social Research.
- Internationally, both clients and students call for outstanding research communities. It is the best communities that succeed in increasingly fierce international competition. This is why the Gemini Centre works in line with the vision of «global excellence together»
- There are a total of 51 Gemini Centres, from climate neutral cities and batteries to big data, AI and green aviation, and lots more



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Geminisenter HyProS

## CO<sub>2</sub> Impact

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Gemini Centre



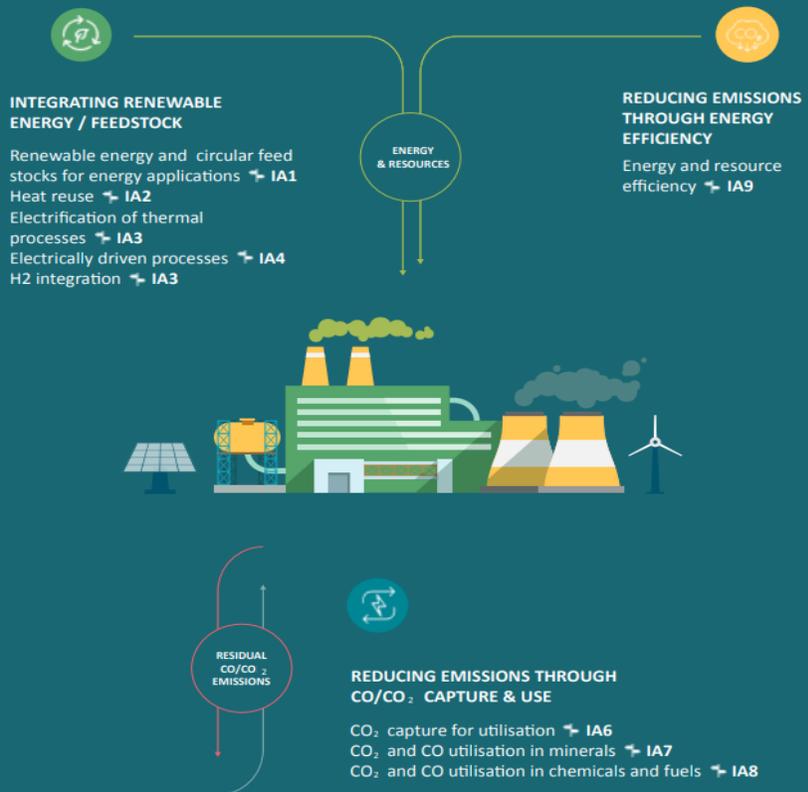
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# The next 75 years



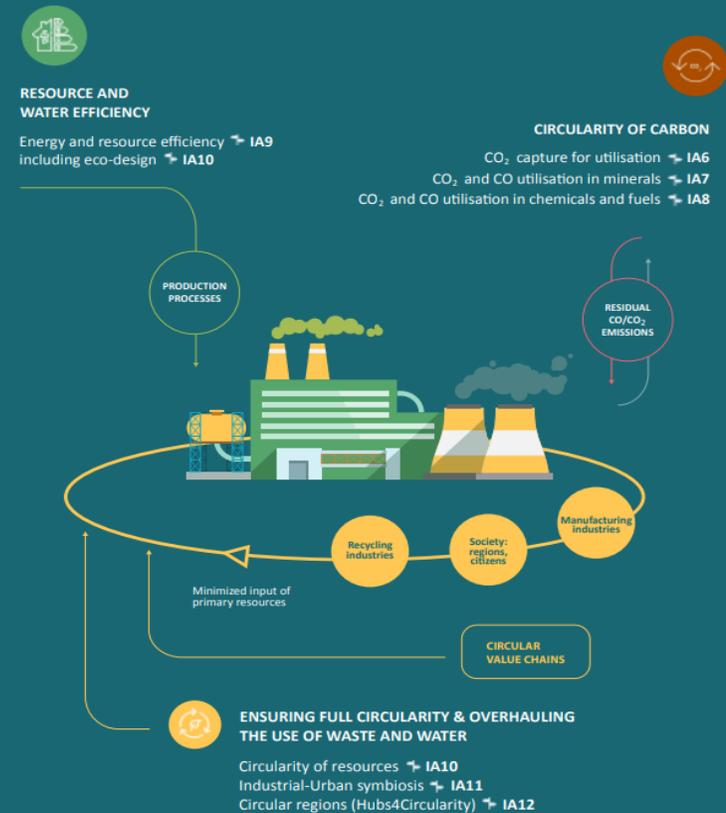
## The Climate Neutrality Pathway

The process industries will redesign industrial processes and rethink their interaction with the energy system (sector coupling)



## The Circularity Pathway

Process industries will develop and deploy sustainable circular business models through technological and non-technological innovations, cross-sectoral collaboration and engagement with the local ecosystem





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Teknologi for et bedre samfunn