

Accelerating CCS Technologies

**ACT – A European R&D
cooperation on CCS**

**Ragnhild Rønneberg, Aage Stangeland,
Åse Slagtern**

Research Council of Norway

Co-funded by the
European
Commission within
the Horizon 2020



What is an ERA-NET Cofund ?



- Several Member states in a consortium (ministries/funding agencies) establishing one or several **common calls** with top up financing from EC
 - EC finances 50% of the MS total budget.
- Focus on **demonstrating and validating solutions.**



Partners of ACT– Commitments to 1st Joint Call January 2017

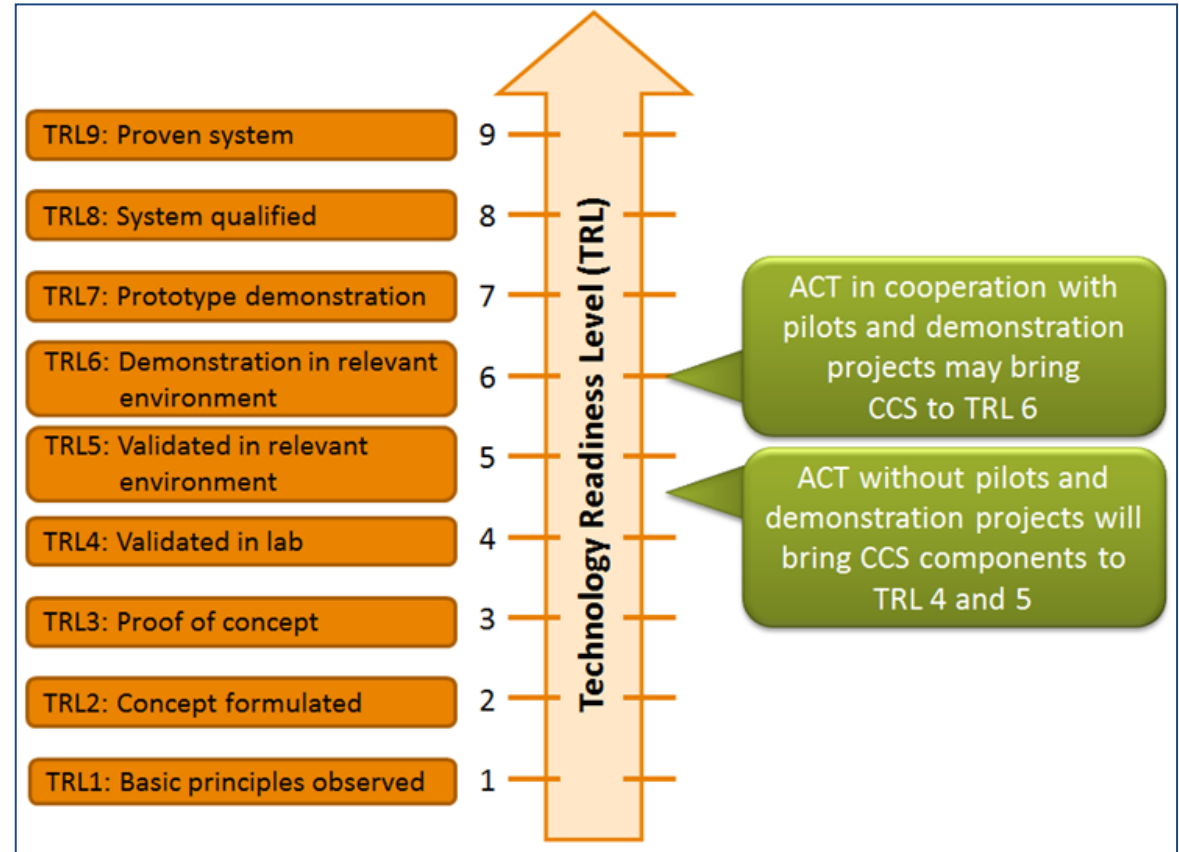
NO	RCN (coordinator)	3 M€
NO	Gassnova	3 M€
DE	FZJ/PtJ	6 M€
NL	RVO	4 M€
CH	DETEC	4 M€
UK	DECC/BEIS (4M£)	5.5 M€
RO	UEFISCDI	1 M€
TR	TUBITAK	2 M€
ES	MINECO	0.35 M€
GR	CERTH	0
EC	Contribution:	12,8 M€



Total budget for projects, 1st call: 41.2 M€

Canada, US, Italy and France have showed interest in ACT,
yet none of these have joined as partners

ACT asked for projects in cooperation with pilots

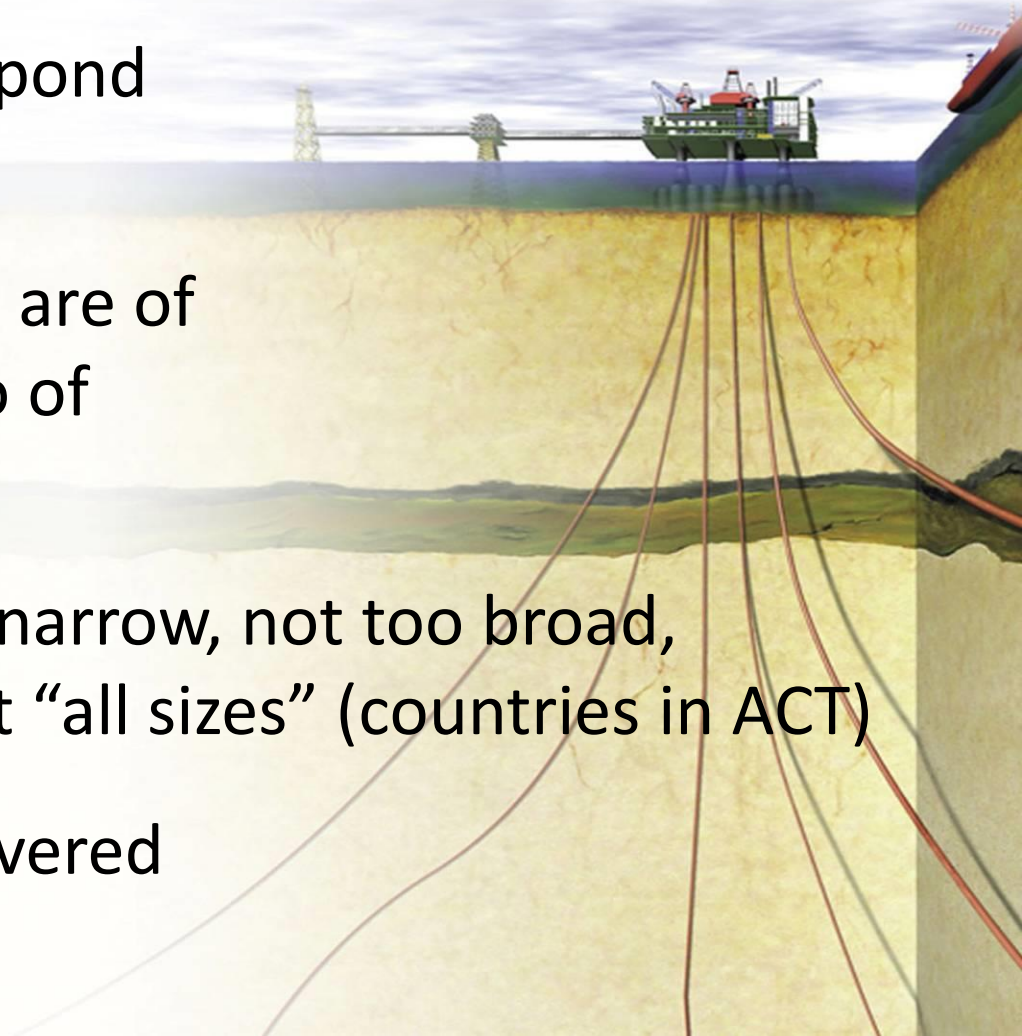


Big project – higher TRL
Smaller projects – lower TRL

Relevant to industry

Challenges

- Getting **industry** interested
- R&D institutions to respond to industry needs
- Address questions that are of national value, but also of international interest
- **The call text** – not too narrow, not too broad, but broad enough to fit “all sizes” (countries in ACT)
 - All areas of CCUS covered



New ACT projects

- 8 projects have been offered funding from ACT
- Contract negotiations ongoing
- The new projects will be kicked off Sep 2017
- In total: 36 M € from ACT

- 3 large projects (5-14 M€ in funding from ACT)
 - Full chain CCUS by combining pilots all over Europe
 - CCS combined with Hydrogen
 - Handling pressure build-up during CO₂-injection

- 5 smaller projects (1-2 M€ from ACT)
 - Design full scale CCUS for Northern Europe
 - CO₂ storage - Risk assessment and mitigation measures
 - Novel reactor technology for CO₂ capture
 - CO₂ EOR concept for South-East Europe
 - 3D printed CO₂ capture materials



ACT - additional activities

- Alignment with European CCS RD&D activities outside ACT
- Collaboration with European CCS initiatives, through common workshops
- Strengthen R&D collaboration with key stakeholders outside Europe
- Closer cooperation with the energy sector and industry
- New common call in 2018
- **Knowledge gained from ACT and ACT projects will be shared**





Thank you for your attention

Åse Slagtern
asl@RCN.no