



Characterisation of European CO₂ storage

The SiteChar public engagement activities

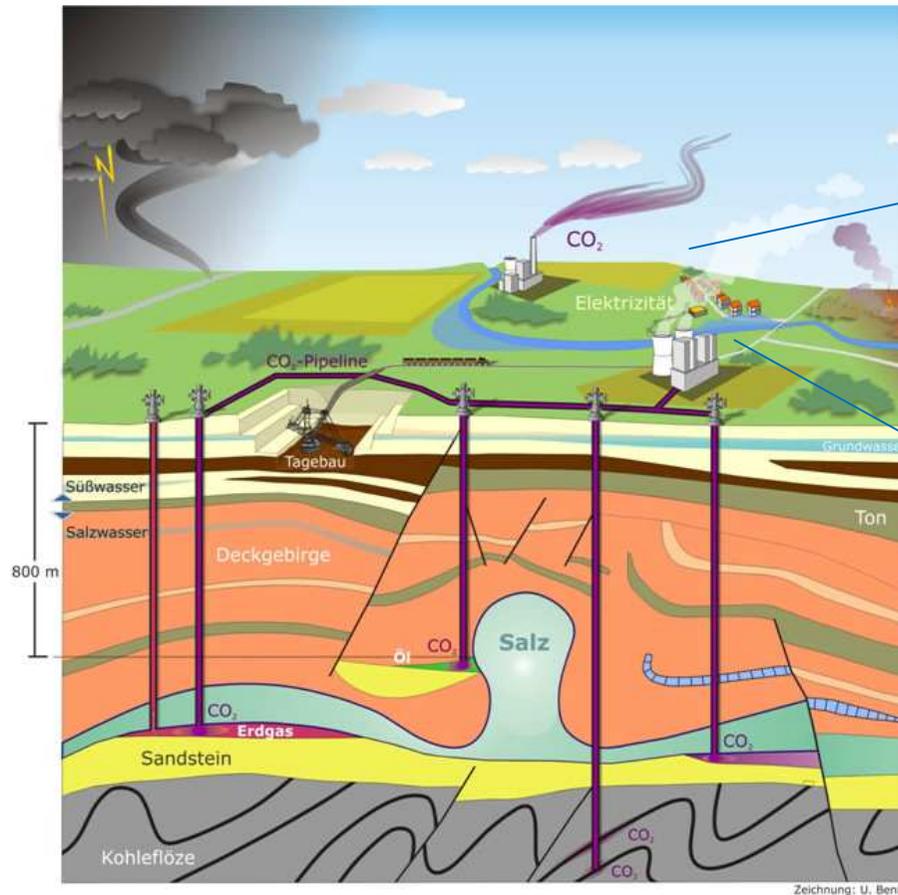
How to raise public awareness?

ECN UfU SCCS



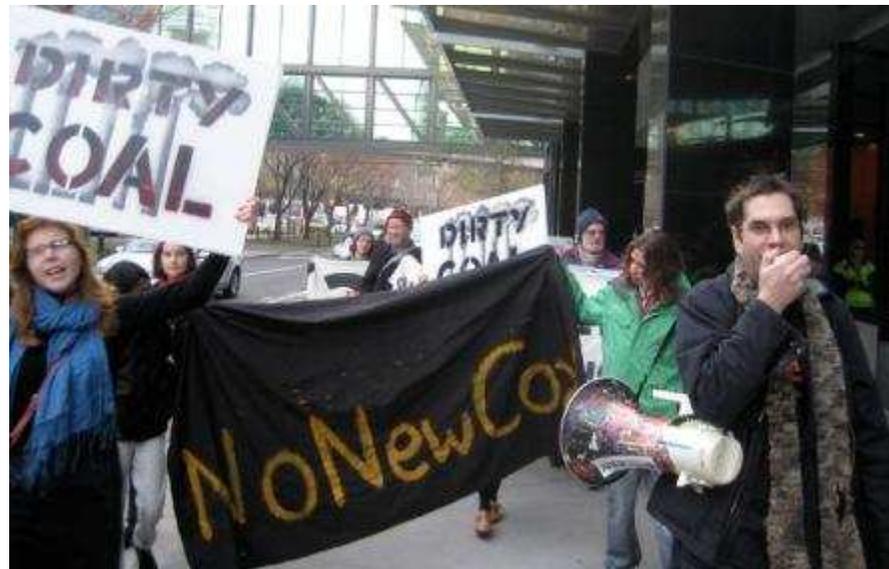
Why is the public important?

The unfocused public



blurring of the social environment

Australia



USA



The Netherlands



Germany



Poland



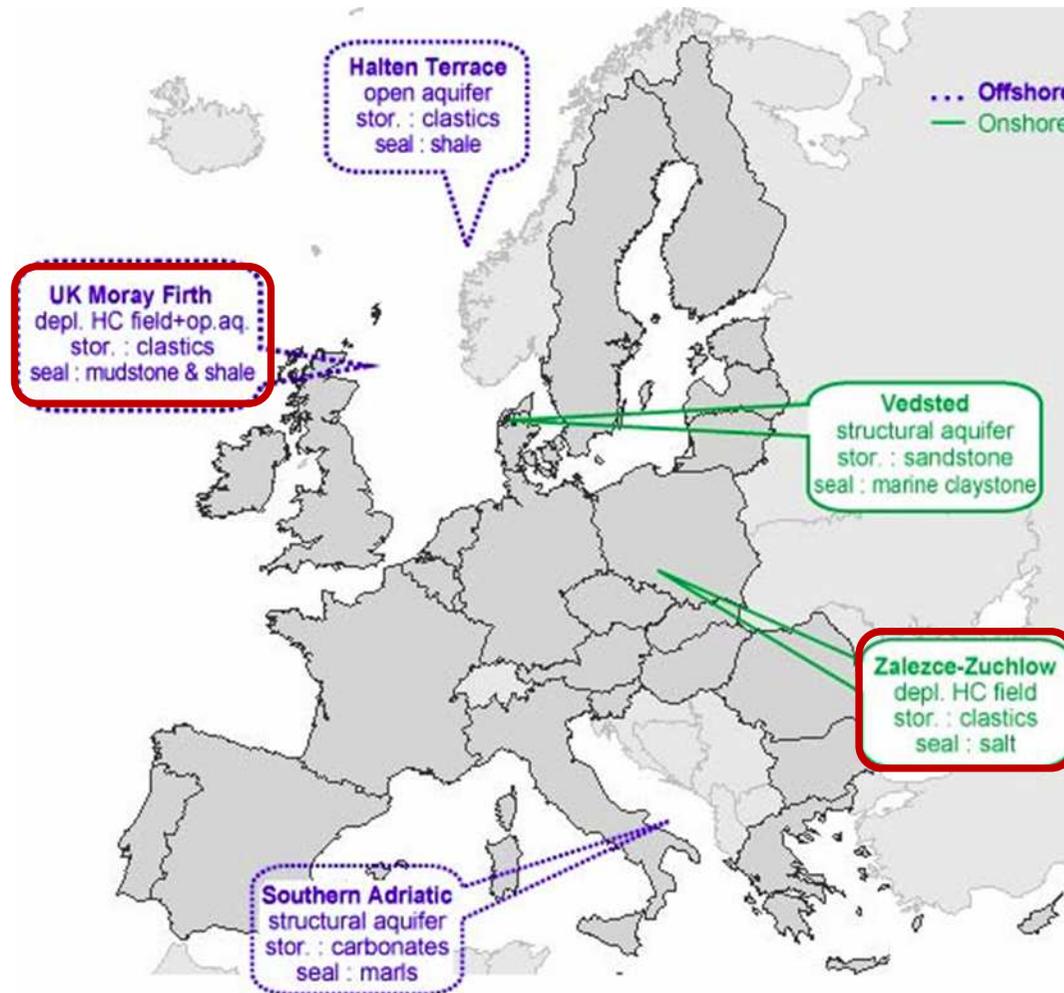


Social Site Characterization

- **Parallel activity to technical site characterisation**
- **process of collecting and incorporating information about public views and about socio-economic and political characteristics of a particular area**



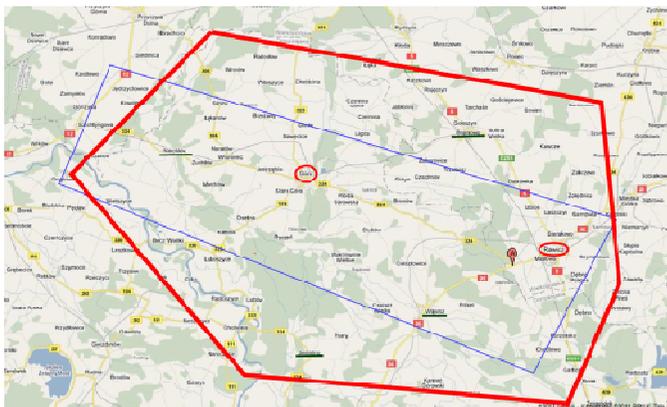
Sites for Social Site Characterization



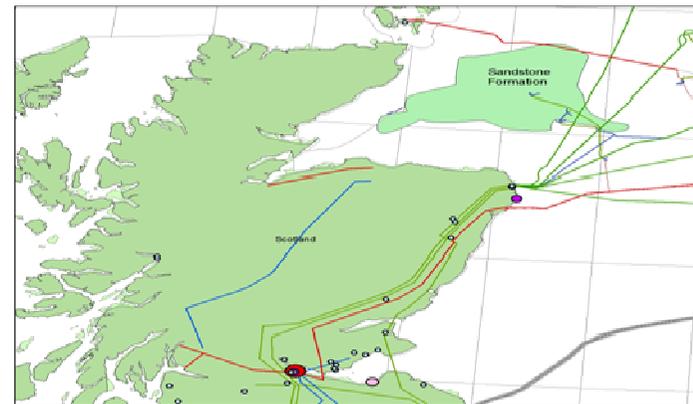
- on two sites:
Scotland & Poland
- one off-shore site
- one on-shore site

Status of WP8

- Description of the sites (e.g. recent local history, statistical data)
- Media analysis (local / national)
- Interviews with local stakeholders
- Representative survey of the local public



Załączce & Żuchłów region

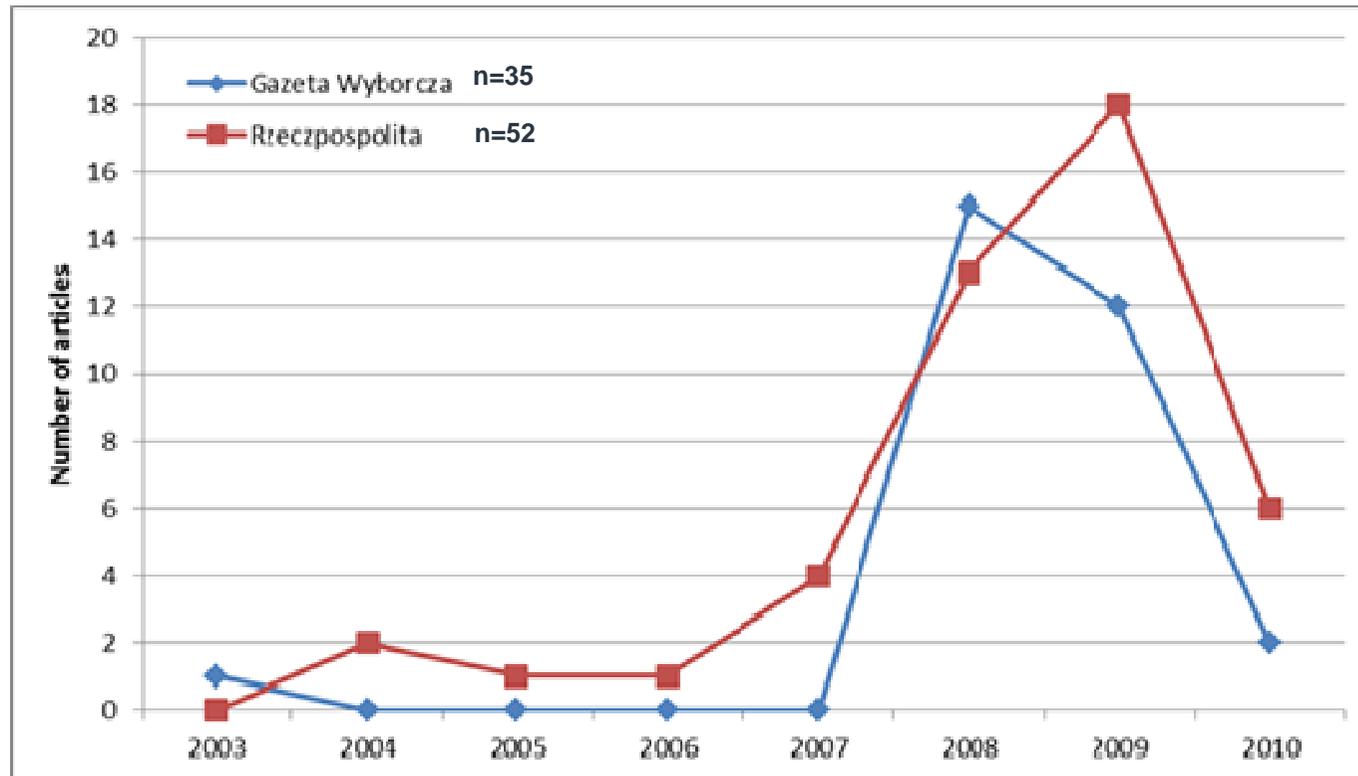


Moray Firth region



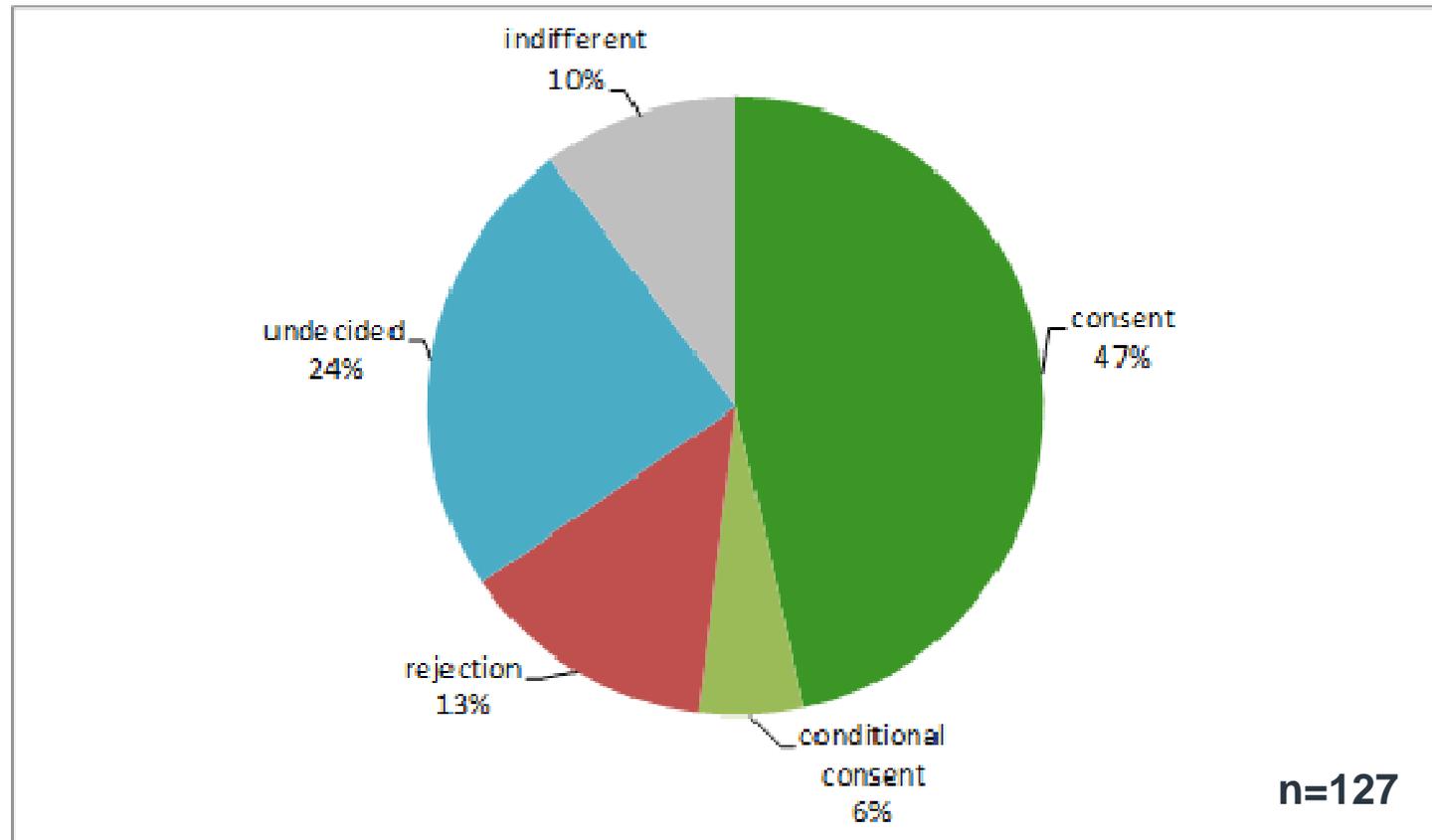
Media analysis

Media attention - Poland



- low media attention and only on national level

Positions in media statements - Poland



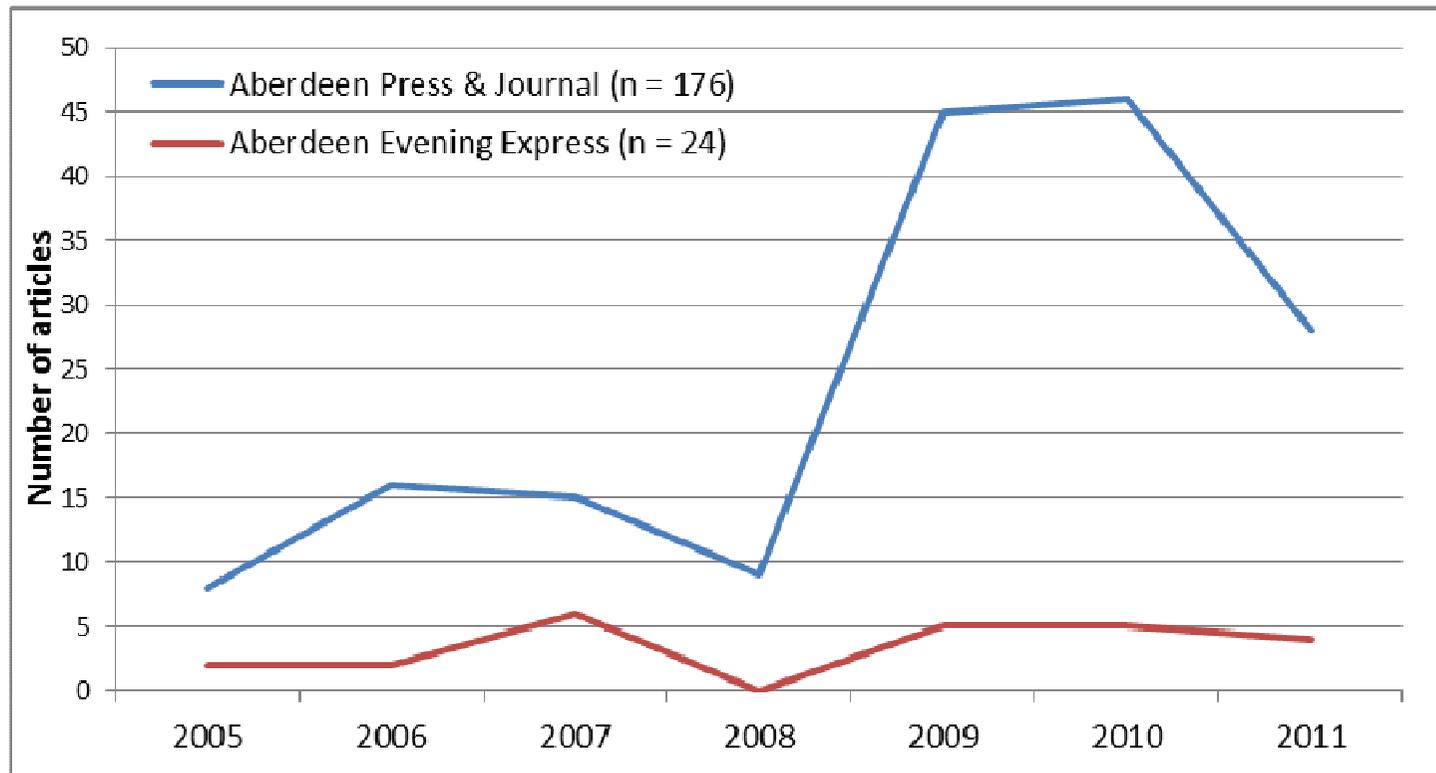
- **broad approval with CCS in media statements**



Most frequent arguments- Poland

Argument	Connotation	Frequency	Percent
CCS is a climate friendly technology	+	49	16.4%
CCS technology is very costly	-	28	9.4%
Thanks to CCS technology coal can be used cleanly	+	20	6.7%
CCS allows further use of coal	+	14	4.7%
CCS technology is a guarantee for prosperity and safety in Poland	+	13	4.4%

Media attention - Scotland



- **media attention also on regional level**



Media coverage on CCS - Scotland

- **more positive messages than negative**
- **positive - CCS seen as creating new industrial sector with significant opportunities for new jobs**
- **negative – uncertainties about commercial feasibility**



Stakeholder interviews



Stakeholder perception - Poland

- **CCS technology and the plans for carbon storage are still largely unknown**
- **reactions to the information about the CCS technology and the possibility of its application in the area were mostly neutral**
- **they were not able to debate advantages or disadvantages**
- **some concerns about risks of CO₂**
- **every development that brings jobs to the area is perceived to have a positive effect on the region**



Stakeholder perception - Scotland

- all had heard of CCS and knew that it was about storing carbon
- key priorities for stakeholders are jobs, enterprise, inward investment, etc.
- to the extent that CCS will bring the above it seems to be welcomed by most stakeholders
 - e.g. opportunity to re-vitalise local ports
- environmental issues need to be assessed but unlikely to be a show-stopper
- more research on impacts on fishing industry and of seismic needed



Representative public survey



Important local issues - Poland

Top issues in local area Poland	(n= 1000)	%
Unemployment/factory closure/lack of industry		47
Transport/public transport		38
Lack of infrastructure e.g. drainage		14
Lack of facilities/opportunities young people/they have nothing to do		9
Environment/climate change/global warming/pollution		6
Ring road in Góra		5
Economy/economic situation/credit crisis/crunch		5
Lack of leisure facilities/entertainment/culture		4
Crime/law and order/violence/vandalism/ anti-social behaviour		4
Lack of investment/development in area		3
CCS development		0,5
Wind farm		0,4

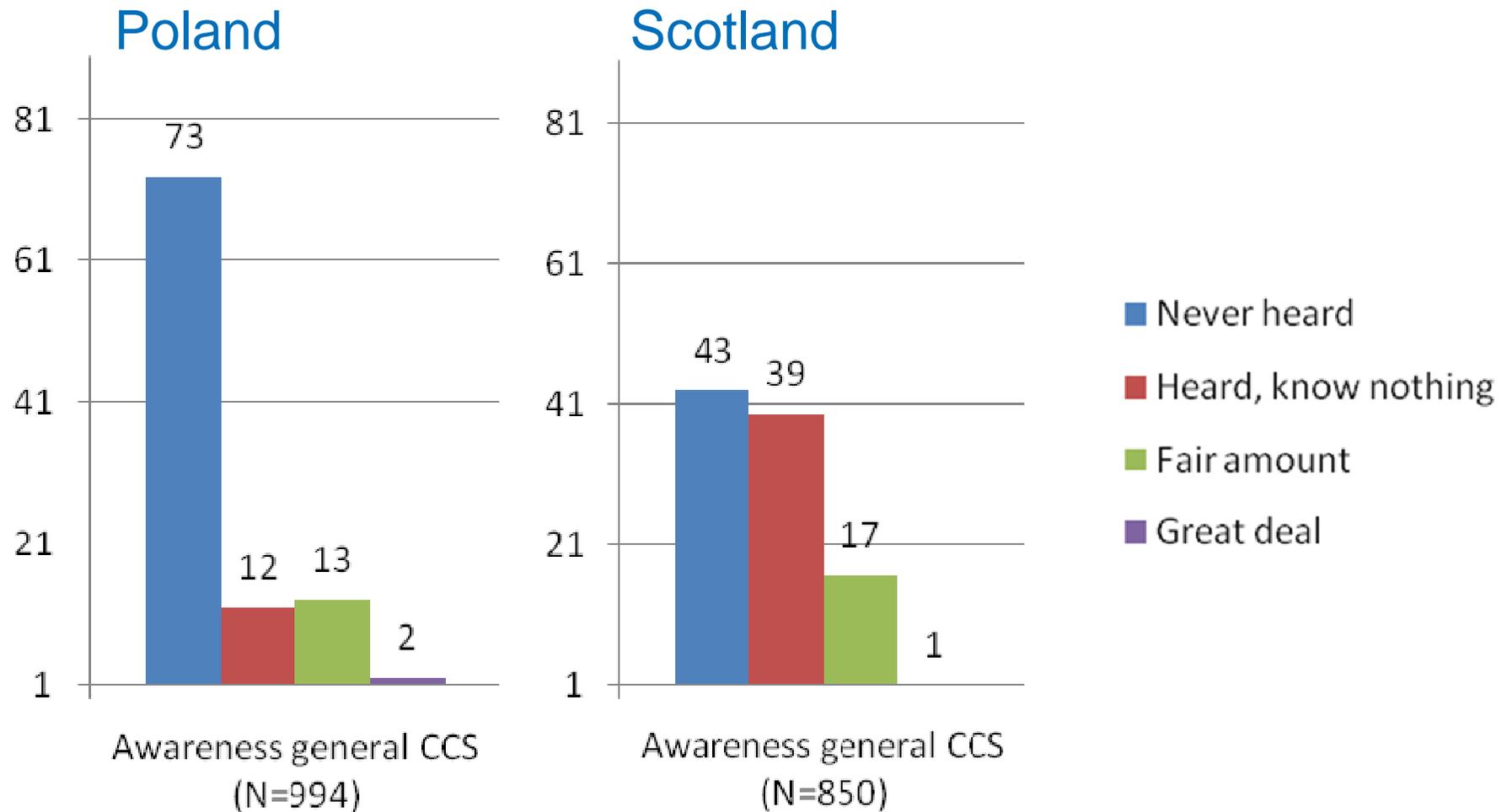
Important local issues - Scotland



Top issues in local area Scotland	(n= 782)	%
Unemployment/factory closure/lack of industry		39
Closure of RAF Kinloss/Lossiemouth/air force bases		21
Lack of facilities/opportunities for young people/they have nothing to do		20
Economy/economic situation/'credit crisis'/crunch		14
Crime/law & order/violence/ vandalism/anti-social behaviour		13
Drug abuse		10
Transport/public transport		8
Lack of shops/shops closing down		8
Immigration/immigrants (race relations)		7
Education/schools		5
Environment/climate change/global warming/pollution		2
Moray Firth being designated as a Marine Protection Area (MPA)		0,7
CCS		0,1



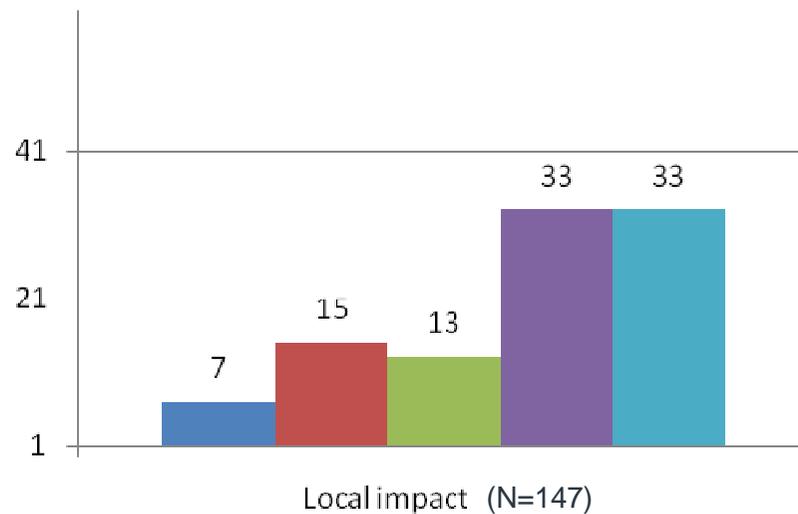
Awareness of CCS





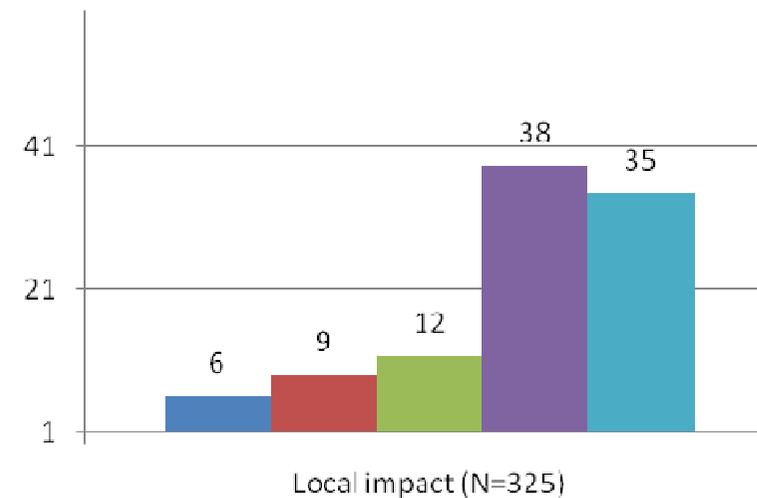
Expectations of local impact of CCS

Poland



■ very negative ■ slightly negative ■ No impact
■ slightly positive ■ very positive

Scotland



■ very negative ■ slightly negative ■ No impact
■ slightly positive ■ very positive



Positive expectations on CCS

Poland	n	Scotland	n
Better for the environment	49	It will bring jobs/employment	164
Reduce toxic waste	15	Better for the environment	59
Help stop/reduce climate change	8	Improve the local economy	50
Reduce smog	7	Help stop/reduce climate change	26
Create green/cleaner energy	7	Create green/cleaner energy	14
Influence the health and wellbeing	6	Raise profile area	12
			
CCS is good for the environment		CCS is good for the (local) economy	



Negative expectations on CCS

Poland	n	Scotland	n
Bad for environment	20	Bad for marine life/environment	15
CO ₂ will escape to the surface	4	Bad for fishing	8
CO ₂ will escape to the ground water	3	Ugly/visual impact/eyesore	7
Risks of leaks (in general)	2	Not a real solution to the climate problem	5
Ugly \ visual impact \ eyesore	2	Unproven technology/risky technology	4
Bad for the people and health	2	Bad for tourism	4
↓		↓	
more general description		detailed negative impacts	



Next steps



Website

- general and site-specific information on CCS
- information in English and Polish

The screenshot shows the SiteChar website's FAQ page. At the top, there is a navigation menu with links for HOME, WELCOME PAGE, THE PROJECT, PARTNERS, NEWS & EVENTS, FAQ (highlighted), GLOSSARY, and CONTACT US. A login section is visible with fields for 'username' and 'password', and a 'Forgot Password?' link. The page title is 'CHARACTERISATION OF EUROPEAN CO2 STORAGE'. Below the navigation, a breadcrumb trail reads 'you are in: Home > FAQ'. The main heading is 'FAQ'. A text block asks if the user has questions and provides the email 'info@sitechar-co2.eu'. The content is organized into two sections: 'Science & Technology' and 'Policy & Regulation'. Each section contains a list of 14 numbered questions, each with a plus sign icon to expand the text. The questions cover topics like CCS definition, site selection, costs, and regulatory frameworks.

Do you have questions on the project or on site characterisation procedures?
Please, send your questions to info@sitechar-co2.eu

Science & Technology

1. What is CCS?
2. What is the difference between an onshore and an offshore storage site?
3. What does CO2 geological storage really mean?
4. How do you select a suitable site for CO2 storage?
5. Which are the important issues to be considered when selecting a CO2 storage site?
6. How do you know how much CO2 you can store in a site?
7. What does a CO2 storage site look like?
8. Where is CO2 going to be stored?
9. What does multicompartment storage complex mean?
10. What are the costs of CCS?
11. What are the costs of Capture?
12. What are the costs of Transport?
13. What are the costs of Storage?
14. Where can I find information on European CCS Demonstration Projects?

Policy & Regulation

1. EU Regulation - Directive
2. European Directive Guidance Document 1
3. European Directive Guidance Document 2
4. European Directive Guidance Document 3
5. European Directive Guidance Document 4
6. Is my national regulatory system ready for CCS?

Focus Conferences

- method for public participation
- raising public awareness on CCS
- each Focus Conference include 16 lay people and several experts
- 2 weekends
 - 30.-31. March 2012
 - 20.-22. April 2012
- recommendation paper on CO₂ storage



P A L A C E
PAKOSŁAWIU



RAMNEE
HOTEL

Information Meetings

- in June 2012
- presentation of the recommendation paper to a broader audience
- involving local citizens, journalists, politicians, key opinion makers, etc.





Repeated representative survey

- in September 2012
- evaluate effects of engagement activities

Q10

ASK ALL WHO HAVE AT LEAST HEARD ABOUT PLANS FOR CCS (CODES 1-3 AT Q8)

And, overall, do you think plans for carbon capture and storage in the North Sea in the Moray Firth would have a positive or negative impact on your local area?

READ OUT. SINGLE CODE ONLY

Very positive	1	GO TO Q11
Slightly positive	2	GO TO Q11
Slightly negative	3	GO TO Q12
Very negative	4	GO TO Q12
No impact at all	5	GO TO Q13
Don't know	6	GO TO Q13



Thank you for your attention

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