

Low Carbon Societies Network



Low Carbon Scenarios for Germany - Social and Stakeholder Acceptance

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Engaging Civil Society in the EU Roadmap Process
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<http://www.lowcarbon-societies.eu/>



POTSDAM-INSTITUT FÜR
KLIMAFOLGENFORSCHUNG



Outline

1. Philosophy of the Project
2. Project Structure
3. Way to the scenarios
4. Scenarios results

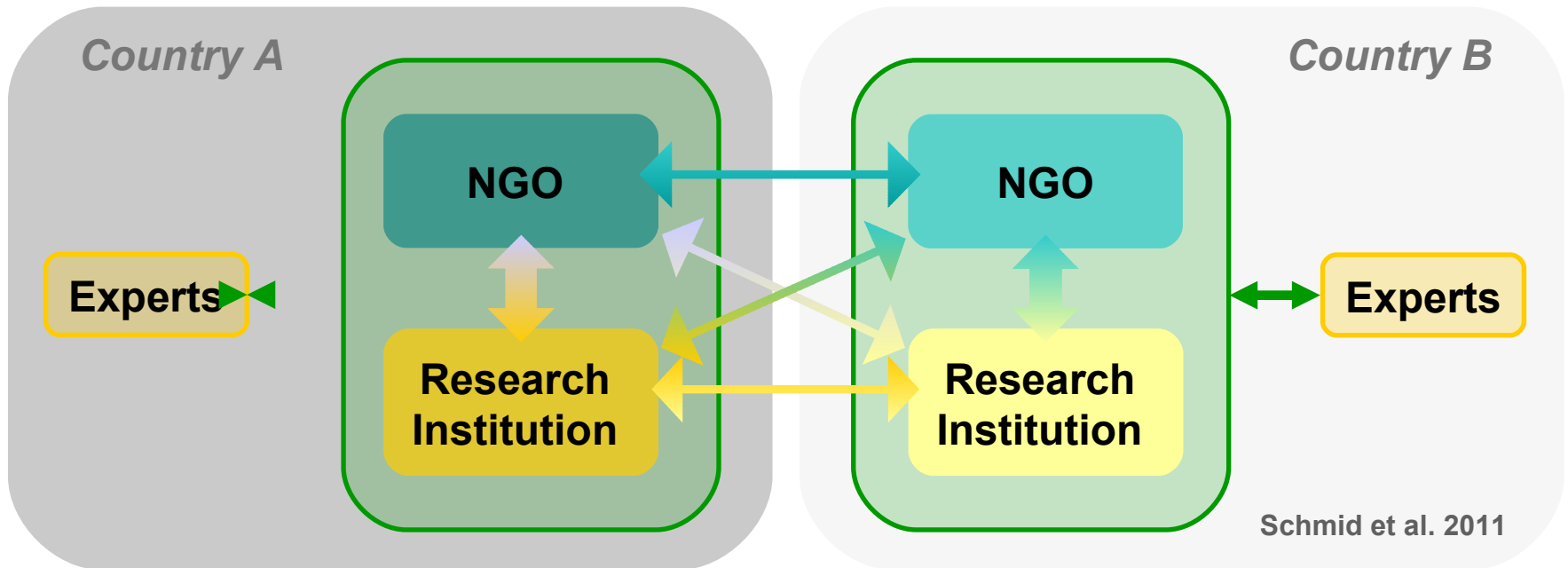
Philosophy

- Including stakeholders from Environmental NGOs, Churches, Trade Unions, Economy and consumer organisations to create scenarios with a high social acceptance.

Phase 1

- Wish-List
- Development of REMIND-D
- Different project meetings

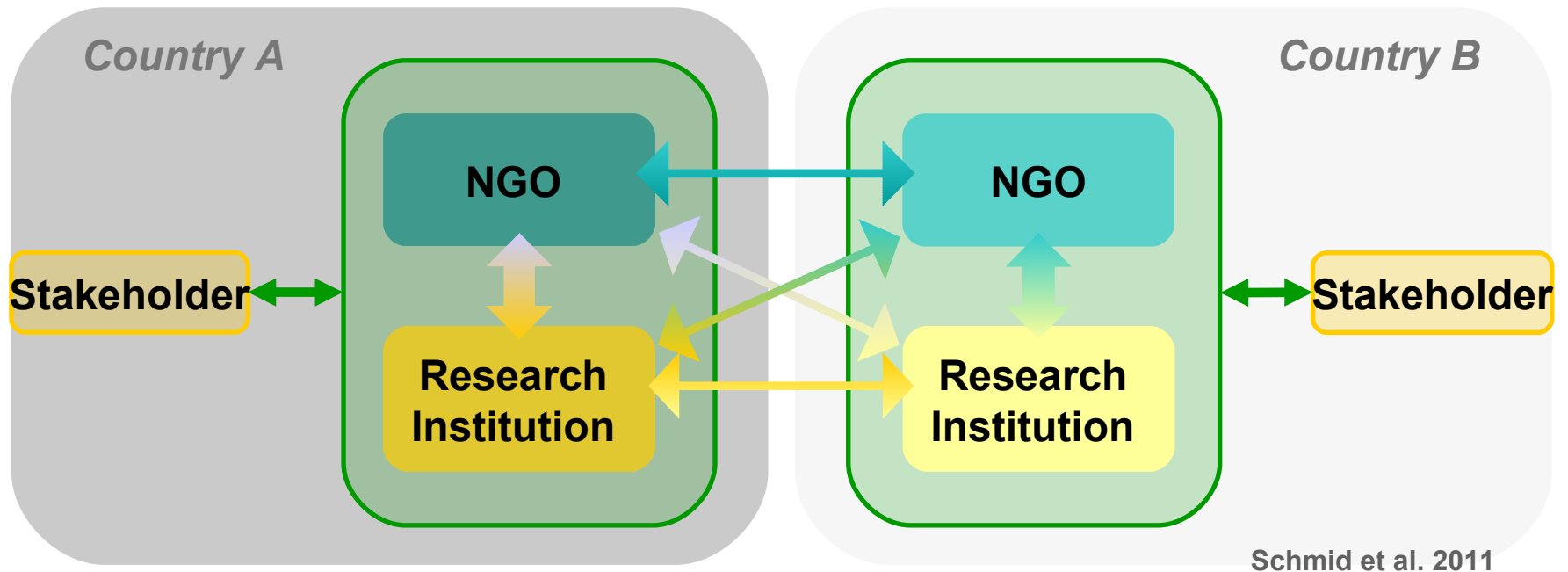
Social Acceptance in Quantitative Low Carbon Scenarios



Phase 2: “What is technologically possible in the future?”

- Expert Workshops
- Translation rules from “model” to “real-world” and vice versa

Social Acceptance in Quantitative Low Carbon Scenarios



Phase 3: “What is socially desired in the future?”

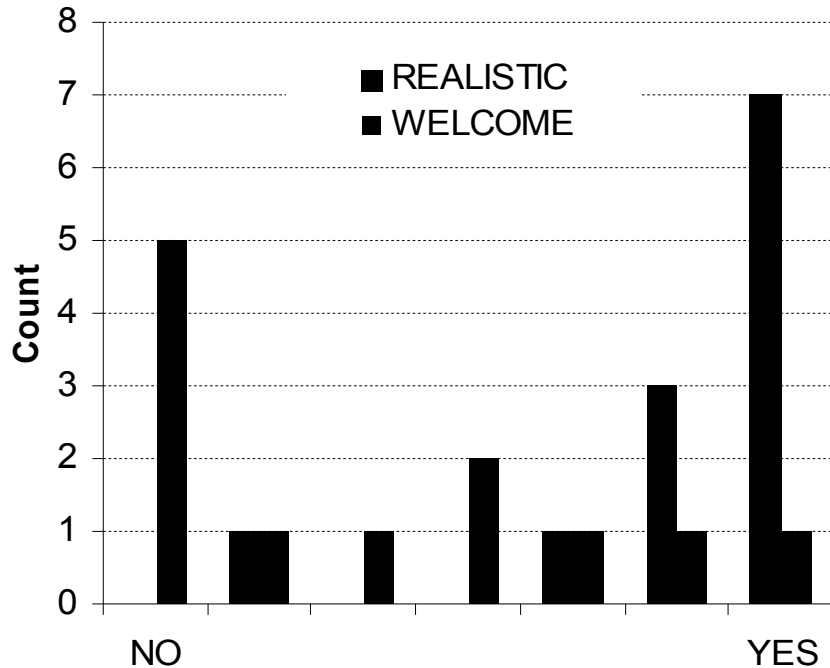
- 2 stakeholder workshops per sector
- Give instructions on political framework conditions
- Evaluate integrated scenarios with regard to social acceptance

Stakeholder Dialogs

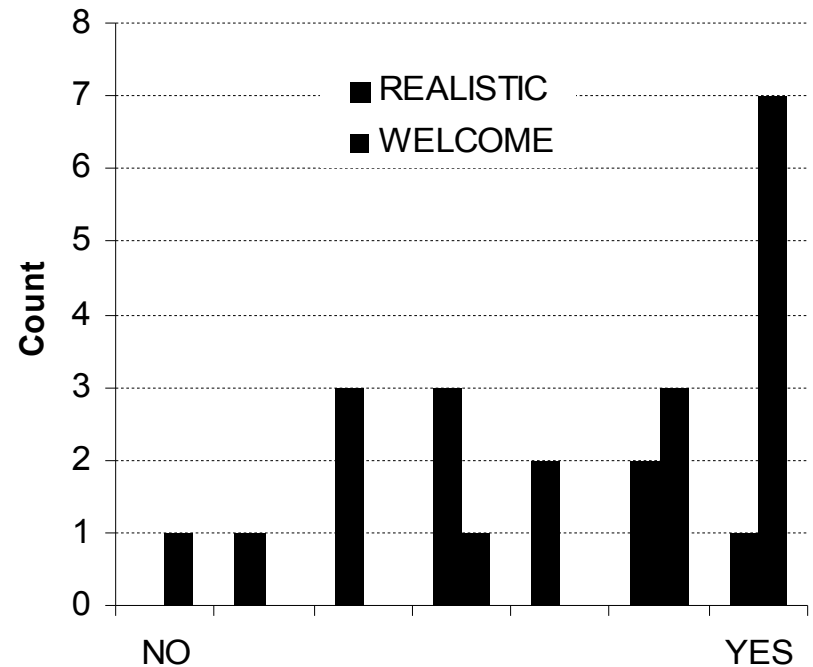
- Electricity (main topics)
 - Acceptance of RE and new grids
 - Energy efficiency
 - Bridge technologies
- Transport (main topics)
 - Freight transport
 - Passenger transport
 - Alternative Fuels



Transport

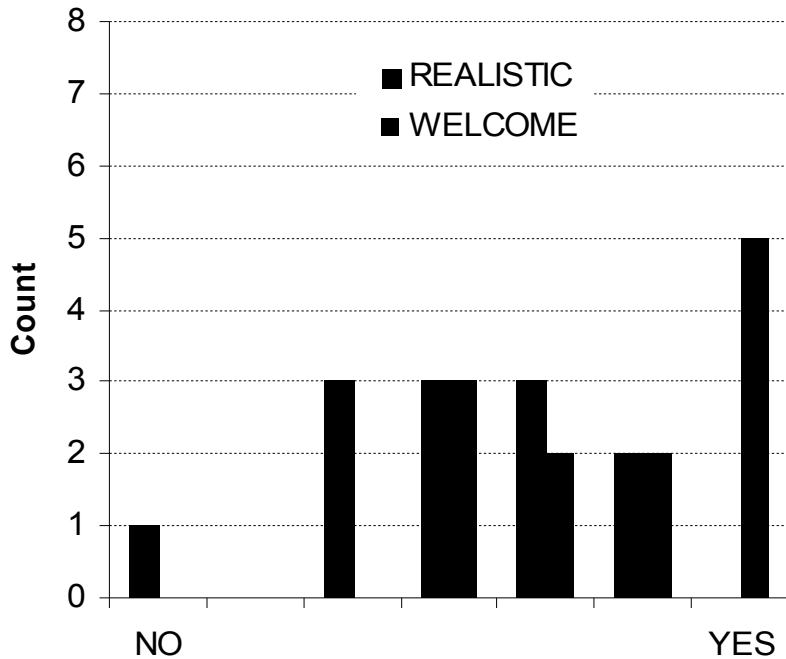


The t-km mileage of freight transport will increase.

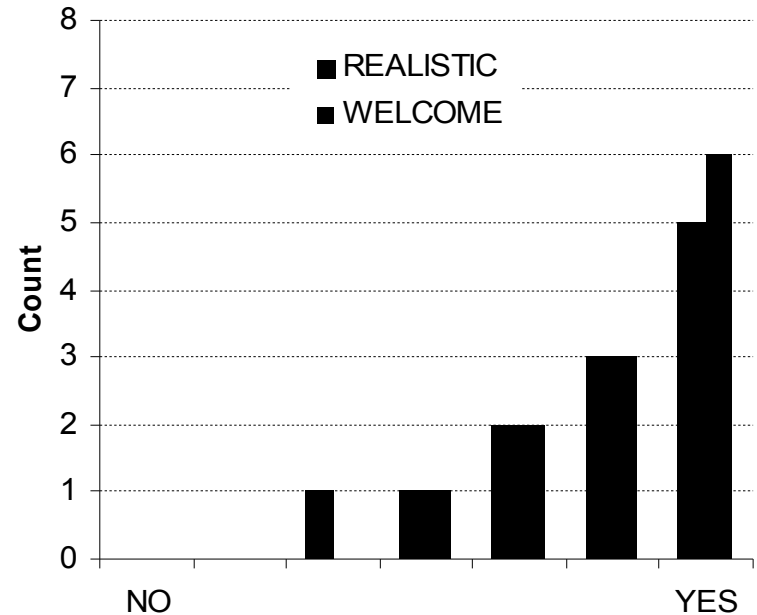


Economic growth will be decoupled from growth in freight transport

Transport II

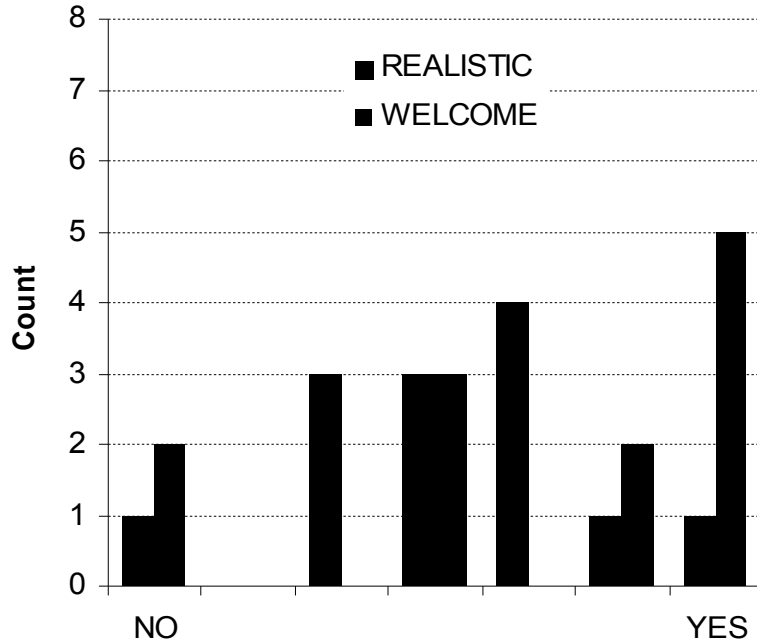


Regional economic cycles will be strengthened.

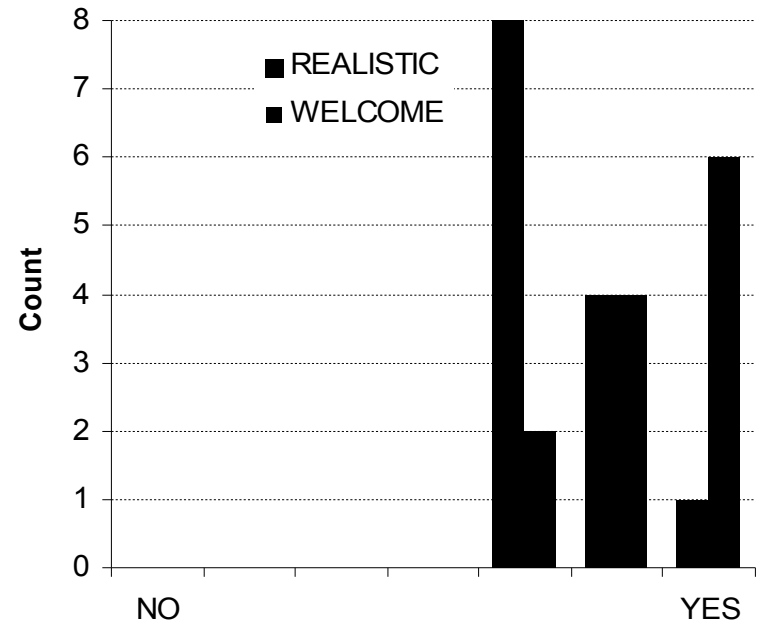


Emission reduction will have higher priority in regional and urban planning.

Electricity I

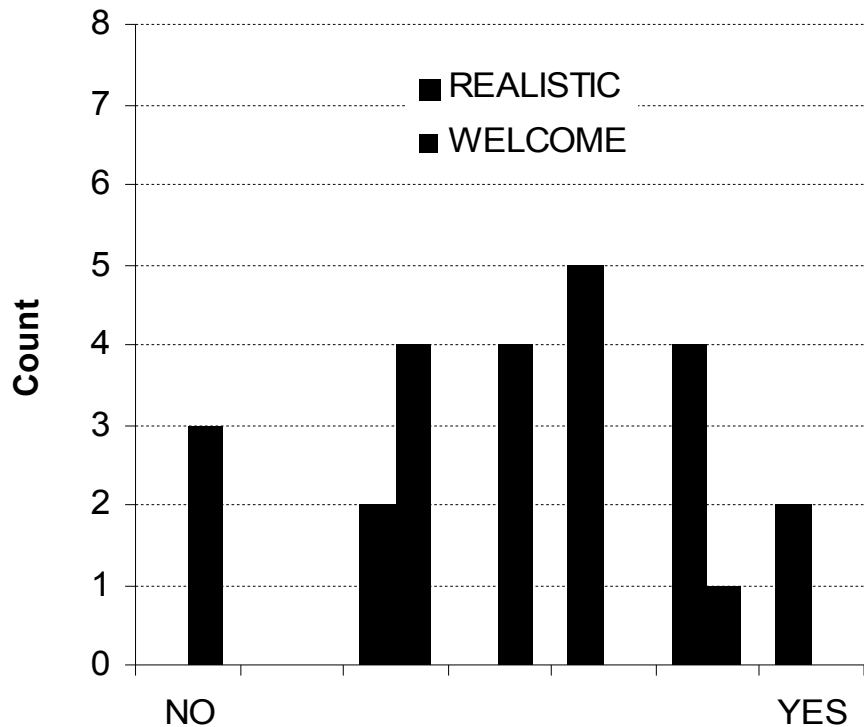


Existing coal power plants shut down before the end of their technical lifetime to reduce emissions.

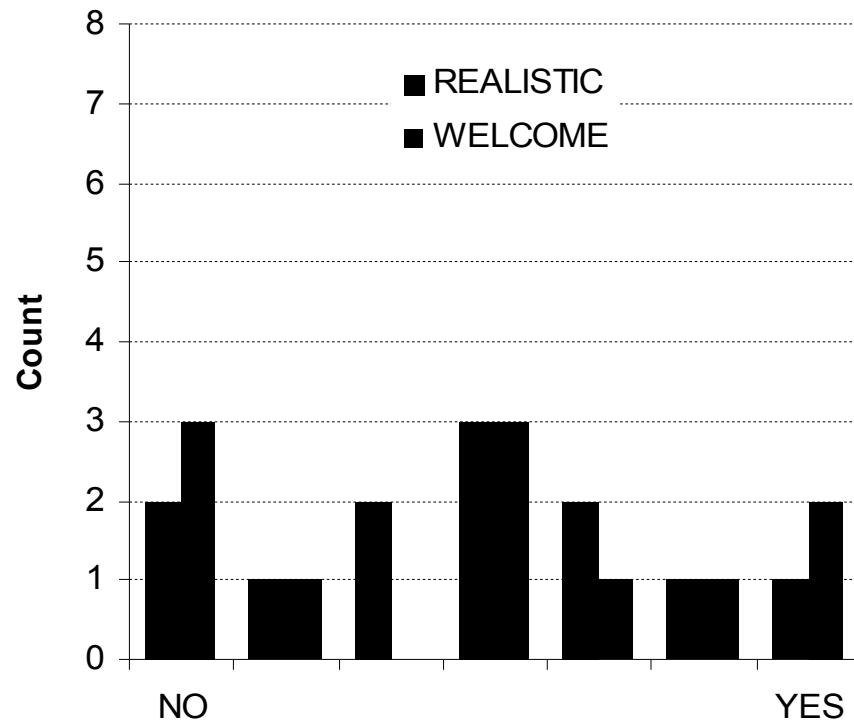


Demand-side management measures will be fully exploited.

Electricity II

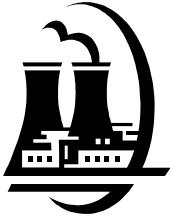

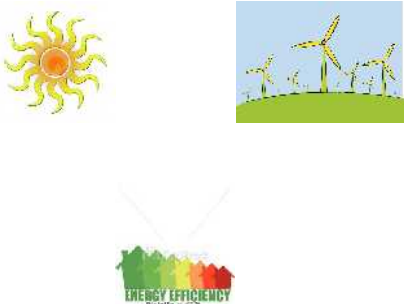





The rebound-effect will compensate efficiency improvements in the electricity sector.




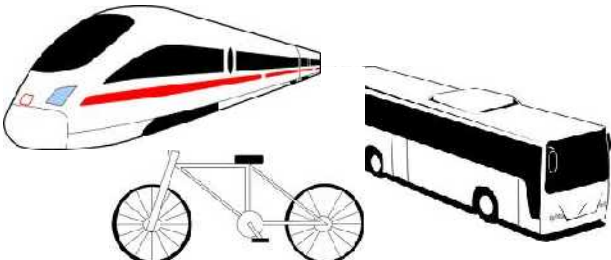




The CCS technology will be available in large scale in Germany.

Scenario bricks electricity sector








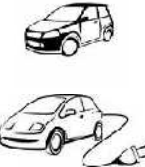





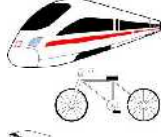

Scenario brick	Option “Continuation”	Option “Change”
Existing coal power plants		
Renewable energy potential & energy efficiency		
CCS		

Scenario bricks Transport Sector

Scenario brick	Option "Continuation"	Option "Change"
Freight Transport		
modal split passenger transport		
Fuels used by the transport sector		

Thank You for your Attention!

Scenario-Matrix

Electricity Transport					
					
			CCS	CCS	CCS
			“Smart policy as usual”		
					“Green world”
					“All technology options”