

**TRANSrisk:
A European Research
Partnership**

TRANSRISK OVERVIEW



- ❖ **Title:** Transitions pathways and risk analysis for climate change mitigation and adaptation strategies (TRANSrisk)
- ❖ **Funding:** H2020 - Societal Challenges
- ❖ **Started:** September 2015
- ❖ **Duration:** 36 Months
- ❖ **Coordinator:** SPRU – Science Policy Research Unit, University of Sussex
- ❖ **Partners:** 12
- ❖ **Budget:** € 7,454,000 H2020, plus €520,200 additional funding

UK based partners awarded 22.4% of EU funding (€1.67m)



BACKGROUND

The EU has an ambitious policy goal:

An 80% emissions cut from 1990 levels by 2050, through domestic reductions alone (COM (2011) 112). The Paris Agreement strengthens the needs to meet this goal.

But there are many uncertainties and risks on the road to a low carbon future:

There is a high degree of uncertainty in models concerning the future evolution of climate and its impacts, and also in models assessing the costs & benefits associated with different mitigation pathways.

Public acceptance of low-carbon (technology) options is untested – promising technologies could fail if the public turns against them.

There is an urgent need to understand **costs** and **risks** associated with **climate change**, and risks, uncertainties and co-effects related to different **mitigation pathways**

ACTIONS AND OUTPUTS



TRANSrisk aims to *innovatively transform* the way in which climate change policy pathways are developed:

TRANSrisk actions

Assess **low emission transition pathways** that are technically & economically feasible & socially & environmentally acceptable.

Bring together **quantitative** models and **qualitative** approaches, focusing on participatory consultations with stakeholders.

A **novel assessment framework** for analysing the costs and benefits of transition pathways while considering risks and uncertainties.

A **decision support tool** to assist policy makers to include risk assessments when designing policy and policy mixes.

TRANSrisk outputs



TRANSRISK PARTNERS



Who we are

US

University of Sussex
SPRU – Science Policy Research Unit



UNIVERSITY OF PIRAEUS
RESEARCH CENTER

ETH zürich

EPU
N · T · U · A

 **ECN**

 **Centro UC
CLAPES UC**
Centro Latinoamericano de
Políticas Económicas y Sociales

ce *cambridge
econométrics*

ibs *instytut
badań
strukturalnych*

JIN *Climate and Sustainability*

bc³
BASQUE CENTRE
FOR CLIMATE CHANGE
Klima Aldaketa Ikergai

 **SEI** **STOCKHOLM
ENVIRONMENT
INSTITUTE**



TRANSRISK PARTNERS

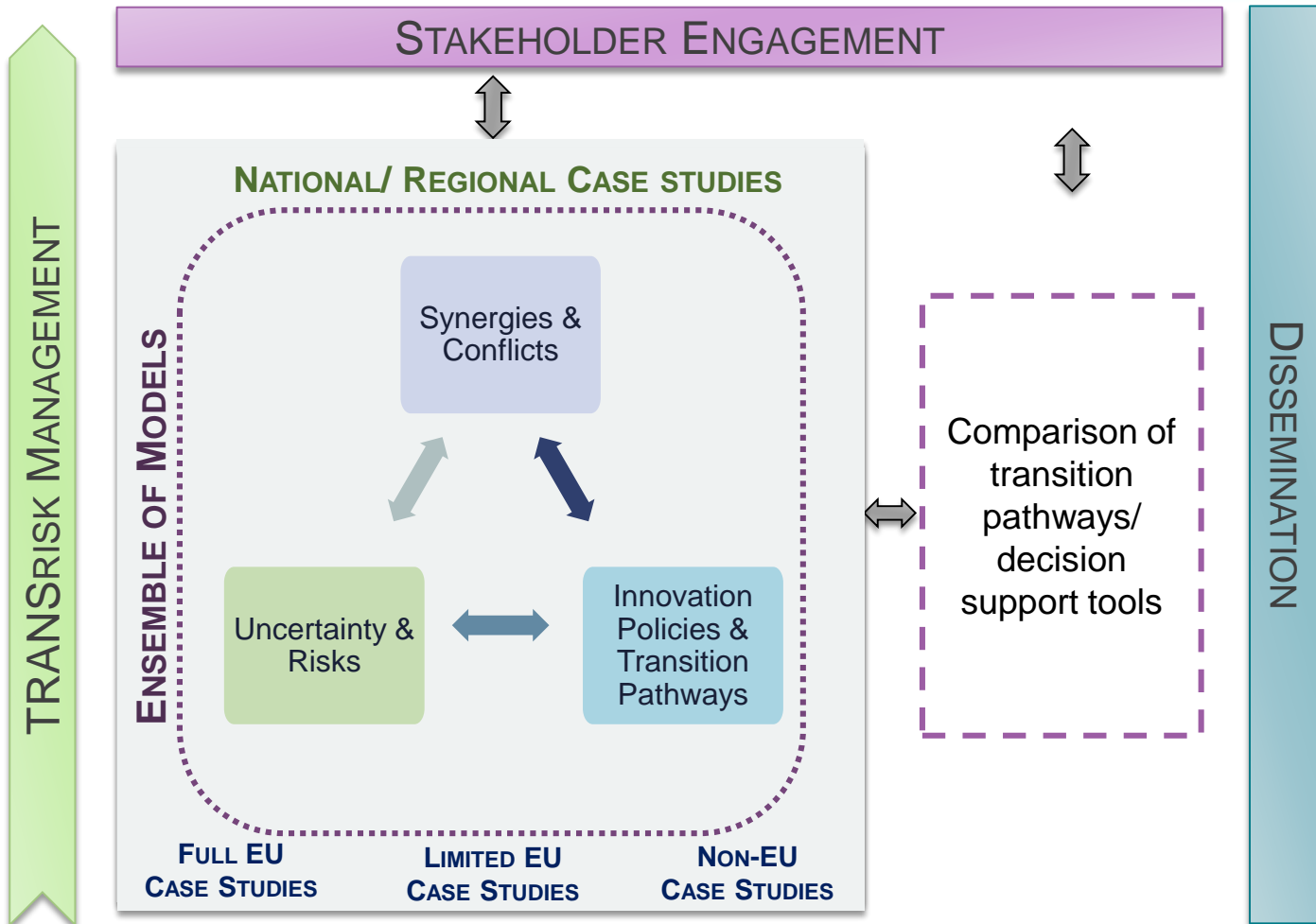


Who we are

SPRU - Science Policy Research Unit, University of Sussex	UK
BC3 - Basque Centre for Climate Change	ES
CE - Cambridge Econometrics	UK
ECN - Energy Research Centre of the Netherlands	NL
ETH Zurich - Swiss Federal Institute of Technology (funded by Swiss Gov't)	CH
IBS - Institute for Structural Research	PL
JIN - Joint Implementation Network	NL
NTUA - National Technical University of Athens	GR
SEI - Stockholm Environment Institute	SE, KE,UK
UniGraz - University of Graz	AT
UPRC - University of Piraeus Research Centre	GR
CLAPESUC - Pontifical Catholic University of Chile	CL



METHODOLOGICAL FRAMEWORK



EXPECTED OUTCOMES

TRANSrisk expects to have an impact across the policy, business, social and academic sectors:

- ✓ Provide insights on *mitigation pathways* across multiple sectors and geographical areas, based on *15 case studies* in the EU as well as Canada, Chile, China, India and Indonesia.
- ✓ Provide decision makers with a non-specialist "*tool box*" to assess and evaluate the socio-economic costs & benefits of mitigation options.
- ✓ Facilitate EU and global *climate policy goals* such as the implementation and review of the EC's "Roadmap for moving to a low-carbon economy by 2050".
- ✓ Contribute to major international *scientific assessments* (e.g. IPCC).



SCIENTIFIC PAPERS (TO DATE)

- ❖ González-Eguino, M., Neumann, M. B. (2016). *"Significant implications of permafrost thawing for climate change control"*, Climatic Change 136(2), 381-388.
- ❖ Markandya A., Arto I., González-Eguino M., Román M. V. (2016). *"Towards a green energy economy? Tracking the employment effects of low-carbon technologies in the European Union"*, Applied Energy, In Press.
- ❖ Nikas A., Doukas H. (2016). *"Developing robust climate policies - a Fuzzy Cognitive Map approach"*, In Doumpos, M., Zopounidis, C., Grigoroudis, E. (Eds.), Robustness Analysis in Decision Aiding, Optimization, and Analytics, Springer International Series in Operations Research & Management Science 241, 2016, In Press.
- ❖ Nikas A., Klironomou M., Marinakis V., Doukas H. (2016). *"Comparison of alternative pathways for the transition of EU countries to low carbon economies using Fuzzy Cognitive Maps"*, Book of proceedings - 4th Student Conference of the Hellenic Operational Research Society, 17-18 December 2015, Athens, Greece.

OTHER DISSEMINATION OUTPUTS (TO DATE)

- ❖ 1 TRANSrisk article in a scientific magazine;
- ❖ Participation in 10 external conferences/ events;
- ❖ Newsletters and press releases sent to more than 2,400 recipients;
- ❖ Organisation of two TRANSrisk workshops in Athens and Graz;
- ❖ Development and distribution of dissemination materials (website, social media, video);
- ❖ Brief descriptions, references or links to the official TRANSrisk website on 60 websites;
- ❖ TRANSrisk articles in 4 partners' newsletters.

BENEFITS OF EU (H2020) FUNDING



HOW TO CONTACT US



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