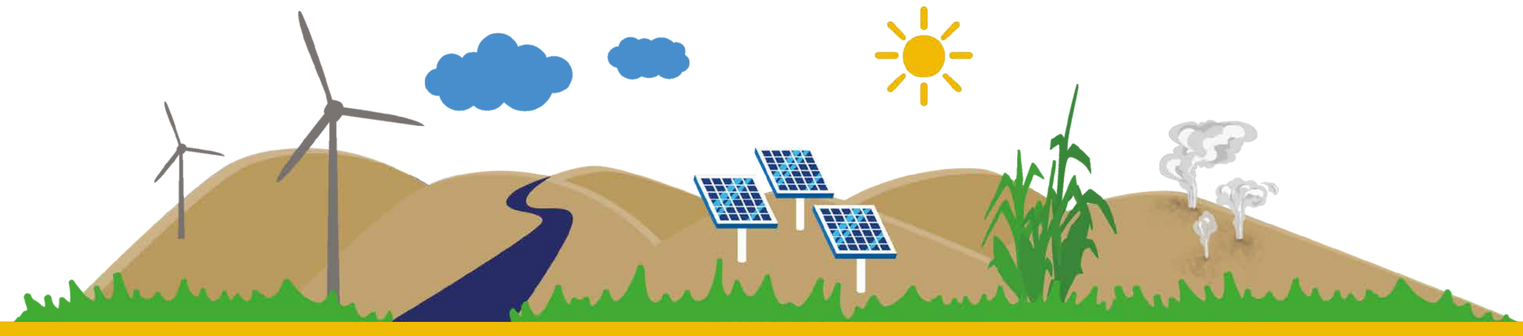
COST Action TU 1401

RELY

Renewable Energy and Landscape Quality



Working Group 3

Socio-cultural aspects of sustainable renewable energy production

Working Group 3 integrates specific aspects of renewable energies into participatory toolkits by elaborating a better understanding of the socio-cultural aspects of RE production in context specific settings throughout Europe.

Objectives

- **Better understanding of the socio-cultural aspects** of RE production
- **Identification of context specific acceptance problems** of RE-projects in Europe
- **Reveal innovative practices of and tools** for improving the local support of RE projects
- **Disclose region-specific cultures and constraints** of involving the public in planning
- **Create a participatory toolkit** by integrating specific aspects of renewable energy
- **Elaborate a participatory tool based on Public Participation GIS** (PPGIS) to identify the best site for wind farms (in the framework of a project financed by COST Switzerland)

Methods

- **Review** of international and national literature on socio-cultural aspects of RE planning
- **Inventorisation and analysis** of best practices of public participation
- **Surveys and group discussions** with national experts

Results

- **Five main types of acceptance problems** were identified:
  - Adverse effects on place image
  - Loss of landscape authenticity
  - Lack of local integration
  - Poor social justice
  - Impact on environmental quality
- These problems **are not sufficiently addressed**
- **Lack of tools** stimulating the bottom-up elaboration of local energy visions
- **Toolkit for participatory planning** of RE-projects defining a recommended context-specific best practice procedure and suggesting problem-specific tools and measures.
- **Public participation GIS tool** for identifying best sites for wind farms

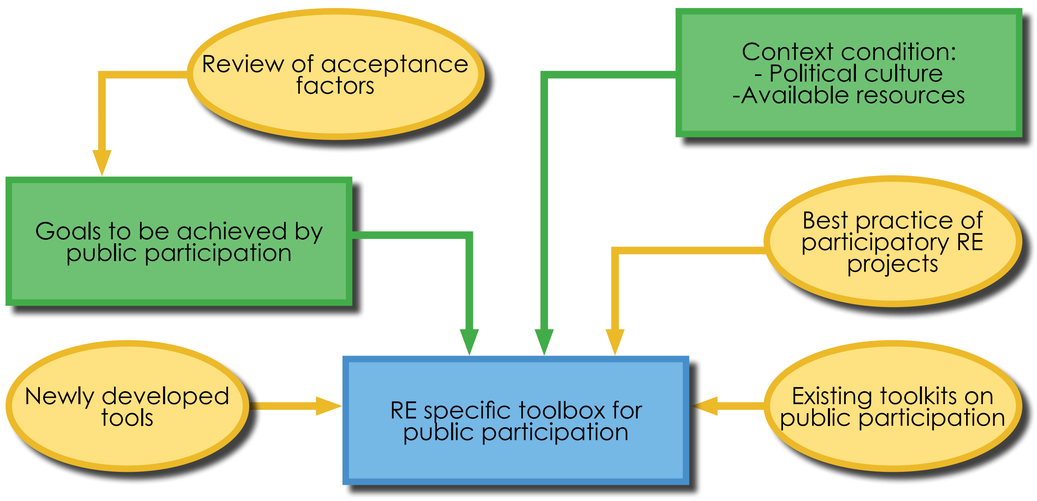


Figure 1: Scheme for the toolbox developed by WG 3

Figure 2: Public hearing to discuss wind planning proposal in Wicklow Uplands, Ireland (photo: Michael Roth)

Figure 3: Members of WG 3 during the fall meeting 2015 in Dresden, Germany (photo: Michael Roth)

Type of RE	ID (see map)	Name of the case study	Country
Wind power	1	Ailes des Crêtes wind farm	FR
	2	Interactive visual landscape assessment as a basis for the geodesign of wind parks	DE
	3	Participation guideline for wind energy	DE
	4	Energy Strategy Zellertal	DE
Small/micro hydropwer	5	Micro Hydro Pwer Plant Cajdras	BIH
Large hydropower	6	Linthal 2015 (extension of hydropower plant)	CH
	7	ELC implementation in spatial planning	NO
	8	Hydroplant Arges 1966	RO
	9	Barragem de Alqueva	PT
Solar-PV ground-mounted	10	Solarpark "La Boverie"	CH
	11	Central Solar da Amareleja	PT
Solar-PV on-roof	12	Energ'Ethique 04	FR
	13	L'Aquila Progetto C.A.S.E.	IT
	14	Construction of solar power plant "Solaris"	SR
	15	Solar power plant Kalesija	BIH
Solar-thermal	16	Coach-BioEnergy	HU
	17	Compulsary regulation for residential rooftop thermo-solar collectors	IS
	18	Intern. Competition f. Preliminary Architectural & Urban Planning Design f. Energy Efficient Kindergartens	SR
Other	19	Solar benches	BIH
Biomass	20	Cs. Vaszkó - bioenergy feed stock production in a landscape management framework	HU
	21	Biogas Gundinci	HR
	22	Small biogas power plant Dragagica	SR
	23	Ecoremediation of degraded areas by energy crops production	SR
Mix	24	The Energy Atelier Friesland	NL
	25	Energigarden (Energy garden) Eidsalm farm	NO
	26	Island Krk - Energy Independent Island	HR
	27	Dezent Zivil	DE
	28	Energy village Wildpoldsried	DE
	29	Energiekultur Kulmland	AT

Figure 4: Table of case studies

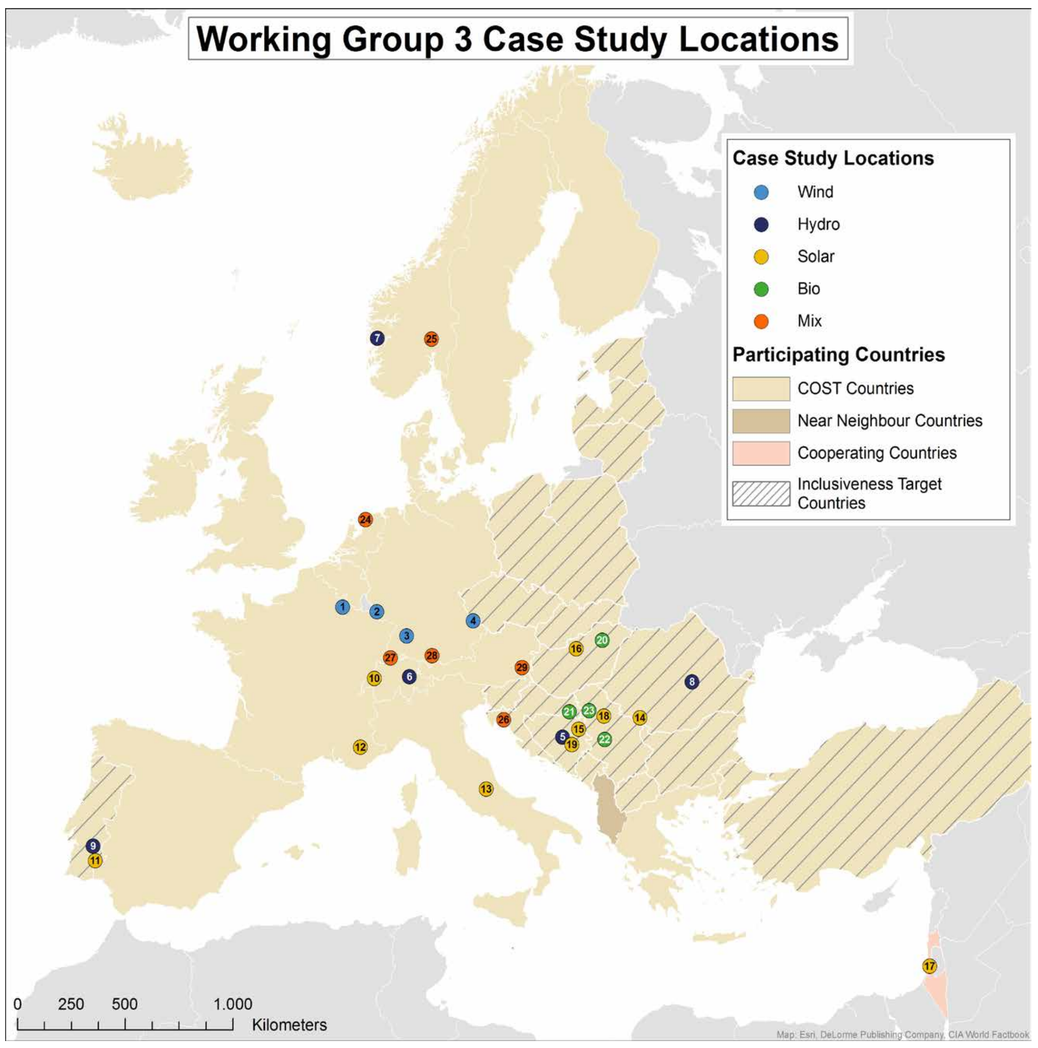


Figure 5: Map of case studies

Contact

Action Chair:
Prof. Dr. Michael Roth
Nürtingen-Geislingen University - School of Landscape Architecture, Environmental and Urban Planning
Schelmenwasen 4-8 michael.roth@hfwu.de
72622 Nürtingen, Germany Phone: +49 7022/201-181

Website: http://www.cost-rely.eu

Action Vice Chair: Dr. Sebastian Eiter, NIBIO - Norwegian Institute of Bioeconomy Research, see@nibio.no

WG 1
Chair: Dr. Marina Frolova, University of Granada, Spain - mfrolova@ugr.es
Co-Chair: Csaba Centeri, Szent Istvan University, Hungary - centeri.csaba@mkk.szie.hu

WG 2
Chair: Dr. Dan Van der Horst, University of Edinburgh, United Kingdom - dan.vanderhorst@ed.ac.uk
Co-Chair: Bohumil Frantal, Academy of Sciences of the Czech Republic, Czech Republic - frantal@geonika.cz

STSM Coordinator: Prof. Dr. Serge Schmitz, University of Liege, Belgium, s.schmitz@ulg.ac.be

WG 3
Chair: Dr. Matthias Buchecker, Swiss Federal Research Institute WSL - matthias.buchecker@wsl.ch
Co-Chair: Dina Stober, University of Josip Juraj Strossmayer Osijek, Croatia - dstober@gfos.hr

WG 4
Chair: Dr. Alexandra Kruse, Institute for Research on European Agricultural Landscapes, France - kruse@eucalandnetwork.eu
Co-Chair: Dr. Isidora Karan, Research Center for Space, Bosnia and Herzegovina - isidora_karan@yahoo.com

About COST

COST is the longest-running European framework supporting transnational cooperation among researchers, engineers and scholars across Europe. It is a unique means to jointly develop own ideas and new initiatives across all fields in science and technology, including social science and humanities, through pan-European networking of nationally funded research activities. Based on a European intergovernmental framework for cooperation in science and technology, COST has been contributing - since its creation in 1971 - to closing the gap between science, policy makers and society throughout Europe and beyond.

cost EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

COST is supported by the EU framework Programme Horizon 2020