FEEM-UNIVE Side Event UNFCCC COP18 The cost of climate change adaptation: new findings, old gaps and policy implications 5th December 2012

Impacts, Vulnerability and Adaptation: European Overview

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EEA member and cooperating countries





The European Environment Agency is an Agency of the European Union.

Our task is to provide sound, independent information on the environment to policymaking agents and the public.

Currently 32 member countries and 7 cooperating countries.

Network of c. 400 national institutions.



Climate change, impacts and vulnerability in Europe 2012 (indicator based report)

Objectives:

- present past and projected climate change and impacts through indicators
- identify sectors and regions most at risk
- highlight the need for adaptation actions
- identify main sources of uncertainty
- demonstrate how monitoring and scenario development can improve the knowledge base

Report on adaptation actions (EU, national, sectoral) to be published early 2013

See: <u>http://www.eea.europa.eu/pressroom/newsreleases/climate-</u> <u>change-evident-across-europe</u> Climate change, impacts and vulnerability in Europe 2012 An indicator-based report





EEA Report No 12/2012

Europe's key past and projected impacts and risks/vulnerabilities



Mediterranean region

Temperature rise larger than European average Decrease in annual precipitation Decrease in annual river flow Increasing risk of biodiversity loss Increasing risk of desertification

Increasing water demand for agriculture Expansion of habitats for southern Decrease in crop yields Increasing risk of forest fire Increase in mortality from heat waves

disease vectors Decrease in hydropower potential Decrease in summer tourism and potential increase in other seasons



Urban adaptation to climate change (EEA report published May 2012)

- Heat waves, flooding, water scarcity and droughts
- Planning urban adaptation
- Multi-level governance enabling urban adaptation





European Union Adaptation Strategy

EU Strategy expected first half of 2013, building on 2009 White Paper:

Knowledge Base

Mainstreaming

Mix of policies

Co-operate with Member States and external partners



European Climate Adaptation Platform Climate-ADAPT

- Supports governmental decision-makers in developing and implementing climate change adaptation strategies, policies and actions.
- Guided by advise from countries (agencies and ministries), Adaptation Steering Group (chaired by DG CLIMA), other organisations (e.g. WHO Europe), experts EU FP projects.
- EEA to maintain with Joint Research Centre of the European Commission.



http://climate-adapt.eea.europa.eu



Sectoral coverage in Climate ADAPT

Sectors	Number of countries mentioning sector	List of countries
Water management and	21 countries	AT, BE, BG, CH, CY, CZ, DK, ES, FI, GR,
water resources		HU, IE, IT, NL, NO, LV, PL, PT, SK, SI, UK
Forests and forestry	19 countries	AT, BG, CH, CY, CZ, DK, ES, GR, HU, IE,
		IT, LT, LV, PL, PT, RO, SK, SI, UK
Agriculture	18 countries	AT, BG, CH, CY, CZ, DK, ES, GR, HU, IE, IT, LV, PL, PT, RO, SK, SI, UK
Biodiversity, ecosystem services	16 countries	AT, CH, CY, CZ, DK, ES, GR, HU, IE, IT, LT, NO, PL, PT, SK, UK
Human health and wellbeing	15 countries	AT, BE, CH,CZ,CY, DK, ES, HU, IT, LT, PL, PT, SK, SI, UK



Sectoral coverage in Climate ADAPT



Comparison of countries actions

- National adaptation strategies: 14 (AT, BE, CH, DE, DK, ES, FI, FR, HU, MT, NL, PT, SE, UK)
- Some of these also have adaptation action plans
- Impacts, vulnerability and adaptation assessments : 17 (AT, BE, CH, CZ, DE, DK, ES, FI, FR, HU, LT, NL, NO, RO, PT, SE, UK)
- Research programmes: 4 (FI, NL, NO, SE)
- Web Portal
 - Broad: 7 (AT, DE, DK, FI, NO, SE, UK)
 - Narrow: 8 (BE, ES, FR, HU, LT, NL, PT, SI)
- Monitoring of adaptation (indicators): 2 (DE, UK)

