EU's role in ensuring climate adaptation and a resilient Europe

Presented by Claus Kondrup, DG Climate Action, Adaptation unit

EFCA Conference: Global challenges – sustainable solutions and the role of cities, companies and consultants

Copenhagen, 2 June 2017



EU Adaptation Strategy: promoting a resilient Europe

Priority 1: Promoting action by Member States

1. Encouraging MS adaptation strategies
2. Providing LIFE funding
3. Adaptation in the Covenant of Mayors

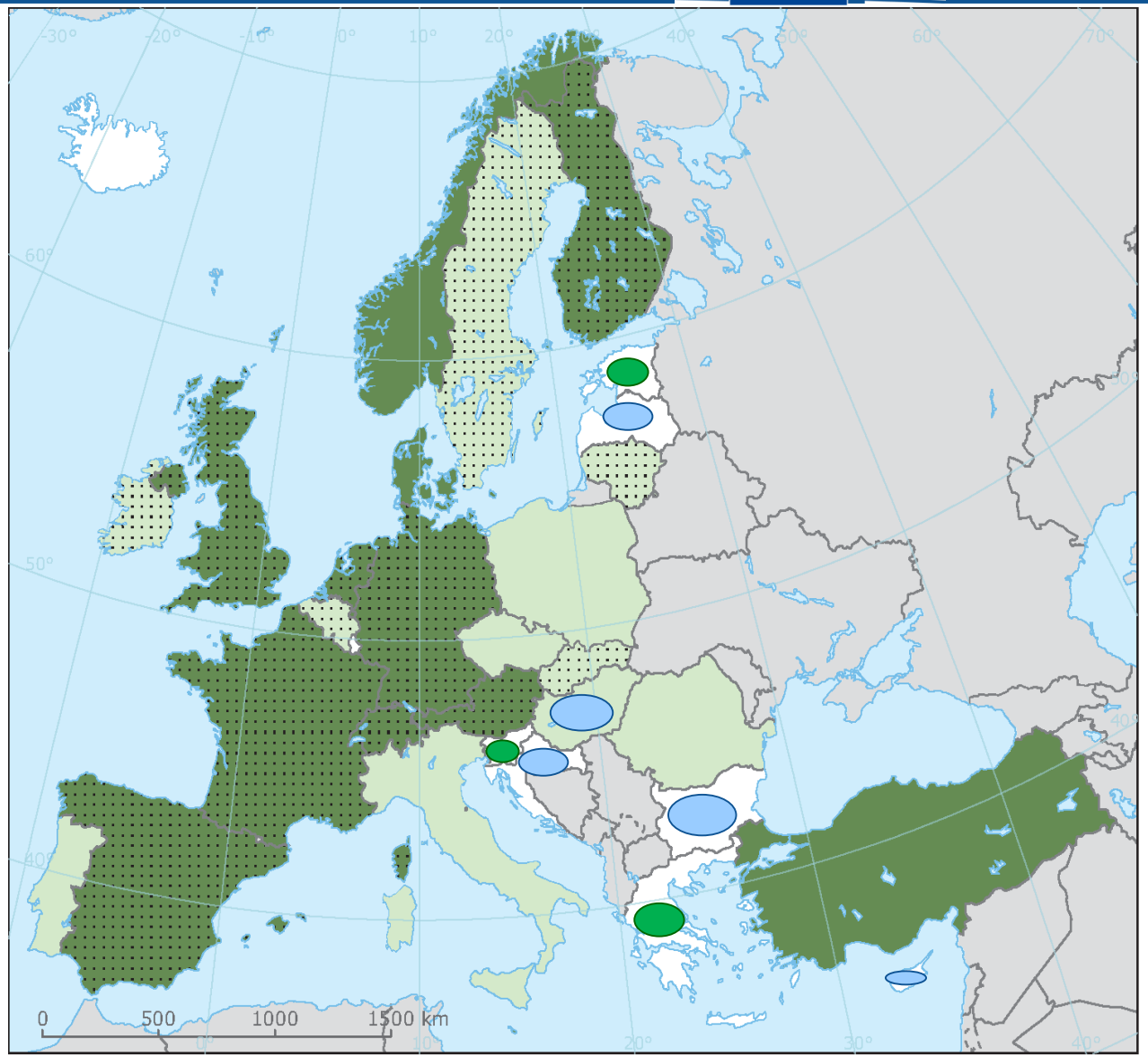
Priority 2: Better informed decision-making

4. Bridge the knowledge gap
5. Climate-ADAPT development

Priority 3: Climate-proofing EU action

6. Mainstreaming to Common Agricultural Policy, Cohesion, Common Fisheries Policy
7. Resilient infrastructure
8. Insurance and financial products for resilience

EU Adaptation Strategy
Action 1
National Adaptation Strategies



Overview of national adaptation strategies and plans and monitoring, reporting and evaluation systems (MRE) in Europe

Adaptation policy

- National adaptation strategy (NAS) and national and/or sectoral adaptation plans (NAP/SAP)
- National adaptation strategy (NAS)
- MRE system of adaptation at national level or implemented under development
- No policy
- Outside coverage

Source: EEA (2016)

NAS recently adopted

NAS in progress

European Commission

Action 2: Provide LIFE funding to support capacity building and step up adaptation action in Europe

- Total LIFE Climate Action envelope for 2014-2020: € 864 million (split between mitigation and adaptation)
- Demonstration, best-practice, pilot or governance and information projects awarded through annual calls
- 'Integrated Projects' implement climate change adaptation strategies at regional or MS level

  (for example Coast-2-Coast Climate Challenge in Denmark)
- Natural Capital Financing Facility: a pilot instrument financing loans and equity for investments contributing to biodiversity and/or climate change adaptation

Action 3: adaptation in the Covenant of Mayors

- 2015: launch of the Covenant of Mayors for Climate & Energy:
- to inform, mobilise and support cities
  - It integrates Mayors Adapt initiative (launched in 2014)
  - Signatories now pledge to:
    - Reduce CO2/GHG emissions by at least 40% by 2030
    - Adapt to the impacts of climate change
    - Translate their political commitment into local results by developing local action plans and reporting on their implementation
- **600+ EU cities**, covering **50+ million inhabitants**, **from 25 Member States** have already committed to **develop local adaptation plans**, some have started submitting them. Potential of thousands of cities joining.
- Going global…

EU Adaptation Strategy
Action 3
Urban Adaptation (Globally)

European Commission

GLOBAL COVENANT *of* MAYORS *for* CLIMATE & ENERGY

- Brings together 2 Global Climate Action Agenda initiatives: the Covenant of Mayors and the Compact of Mayors
- Covers climate change mitigation and adaptation, and universal access to sustainable and affordable energy
- Cities commit to go beyond their respective national targets (as defined through Nationally Determined Contributions under the Paris Climate Agreement) & develop an adaptation strategy
- Website launched: www.globalcovenantofmayors.org (under development)

7,445 cities, representing **673,835,042** people worldwide and **9.30%** of the total global population, have committed to the Global Covenant of Mayors for Climate & Energy.

EU Adaptation Strategy
Action 4
Bridge the knowledge gap

European Commission

Covenant of Mayors for Climate & Energy

Major Projects/REGIO/JASPERS

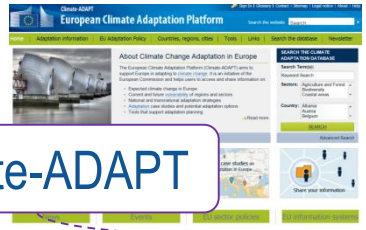


Other services (ECHO, DEVCO, …)

OECD …



IPCC



Climate-ADAPT

Life

CLIMA

Policy making

EEA

"Available data"

European Topic Centre on Climate Change impacts, vulnerability and Adaptation (ETC/CCA)



JRC

"Modelling"
PESETA
Knowledge Centres

RTD

"Research"
FP7/Horizon 2020

FP7/H2020 Projects

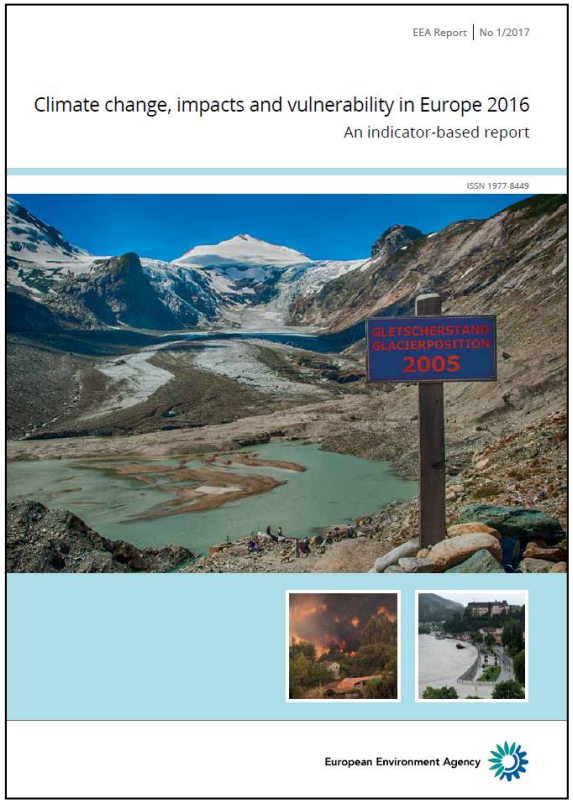
ADAPTATION FUTURES 2016

European Climate Change Adaptation Conference (ECCA)

Paris, Sendai, SDGs

European Commission

Climate science



The main conclusions of the report are:

- Humans have significantly changed the climate and increased the magnitude of many extreme weather events;
- Climate change has wide-ranging impacts on ecosystems, economic sectors and human health;
- Different regions and sectors in Europe are affected differently by climate change;
- Climate change impacts interact with other developments inside and outside Europe;
- Mitigation of climate change is required to limit the long-term risks from climate change.

https://www.eea.europa.eu/publications/climate-change-impacts-and-vulnerability-2016

EU Adaptation Strategy
Action 5
Further develop Climate-ADAPT

CLIMATE-ADAPT
European Climate Adaptation Platform

Intended users: Adaptation stakeholders (transnational, national and sub-national): governmental organisations (ministries and public agencies), research institutes and practitioners

Content: Sector policies; Projects; Countries, regions and cities; Knowledge tools (e.g. adaptation support tool), and databases; Networks

Repository of information: One of the most visited EEA thematic sites

Geographical scope: EU28 (+ IS, LI, NO, CH, TR)

Next steps: 2017 Evaluation by EEA (including a survey)



Portal for Members States action, sectors and projects, hosted by the European Environment Agency and co-managed by DG CLIMA
http://climate-adapt.eea.europa.eu/

EU Adaptation Strategy
Action 6 – Mainstreaming: agriculture, cohesion, fisheries

European Commission

- Europe 2020 Strategy for smart, sustainable, inclusive growth;
- 2030 Climate & Energy Framework (extended targets 40%-27%-27%)
- EU Budget 2014-2020: at least 20% climate-related expenditure;

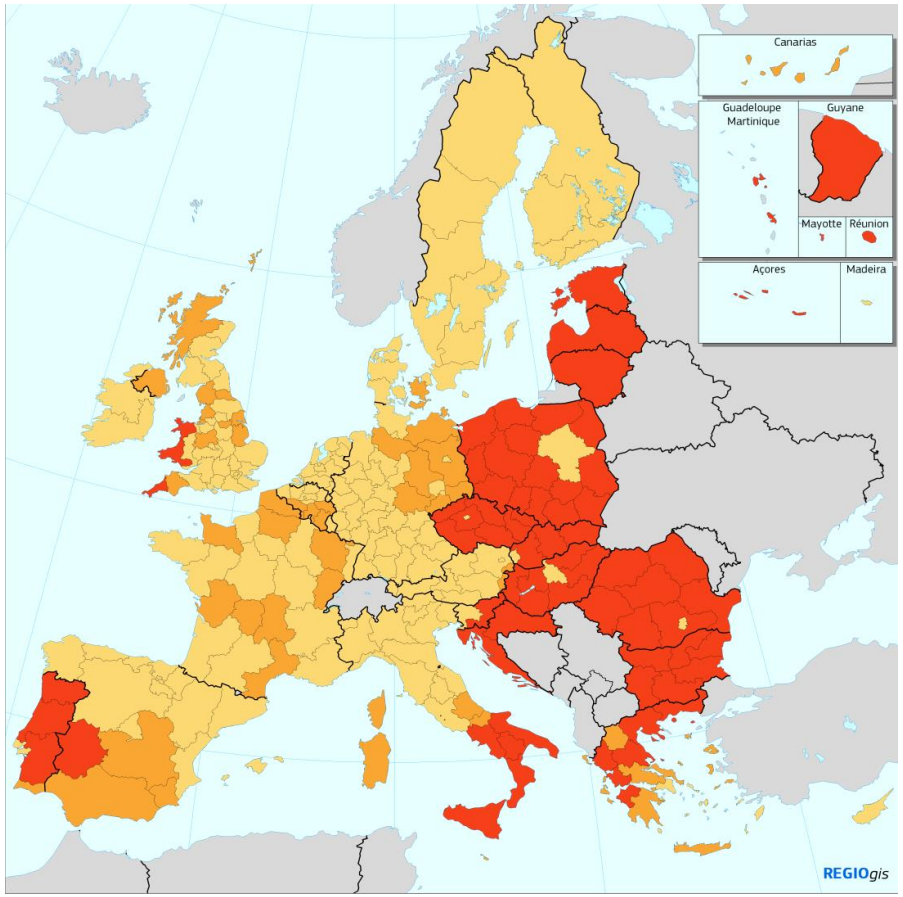
European Structural and Investment Funds (ESIF):

- European Regional Development Fund (ERDF)
- Cohesion Fund (CF)
- European Social Fund (ESF)
- European Agricultural Fund for Rural Development (EAFRD)
- European Maritime and Fisheries Fund (EMFF)
- European Territorial Cooperation (ETC)
- Major Projects

Mainstreaming:

Legislative package for ESIF 2014-2020 (ERDF, ESF, CF, EAFRD, EMFF);

Programming: 28 Partnership Agreements, 533 programmes – national, regional, territorial cooperation, rural, fisheries, maritime.



ERDF and ESF eligibility 2014-2020:

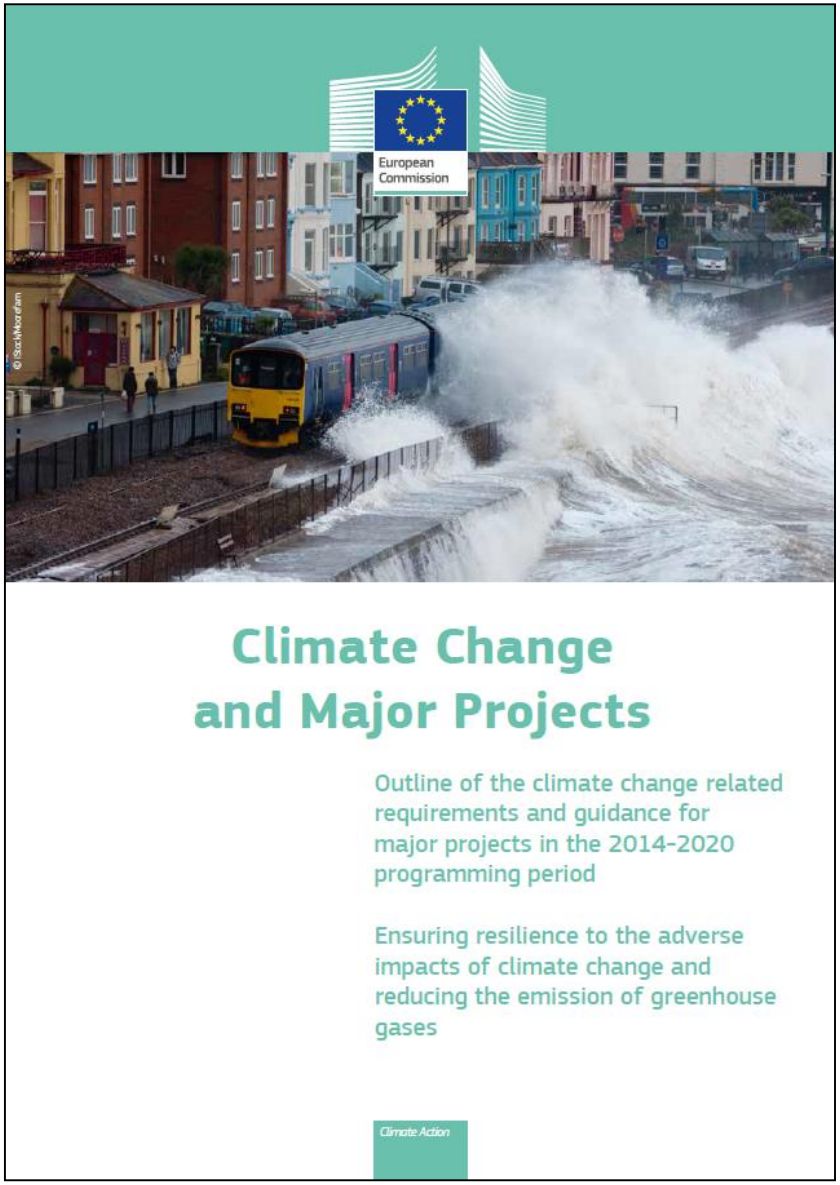
Category

- Less developed regions (GDP/head < 75% of EU-27 average)
- Transition regions (GDP/head between >= 75% and < 90% of EU-27 average)
- More developed regions (GDP/head >= 90% of EU-27 average)

EU support and climate related expenditure, EUR billion					
	Total ESIF	*"Regional"* ERDF/CF	*"Rural"* EAFRD	*"Social"* ESF	*"Fisheries"* EMFF
EU support	454	260	99	90	6
Climate related	115	55	57	1	1
- Mitigation	52	44	5	1	1
- Adaptation	**63**	**11**	**52**	**0**	**0**

EU Adaptation Strategy
Action 7
Climate resilient infrastructure

- Standardisation CEN/CENELEC
- Coordination with European Financial Institutions (EUFIWACC)
- Major Projects

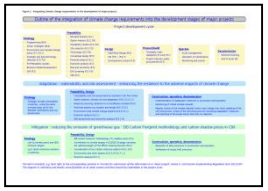


http://ec.europa.eu/clima/publications/docs/major_projects_en.pdf

European Commission



Introduction (major projects, climate change, …)



Project cycle, integrating climate change



Adaptation: vulnerability and risk assessment



Mitigation: EIB Carbon footprint methodology + carbon shadow price in CBA



Information on a major project (climate aspects)



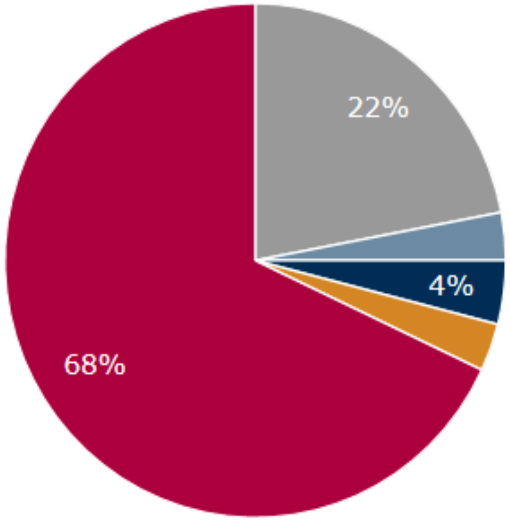
Legal and other references and explanatory footnotes

EU Adaptation Strategy
Action 8 – Insurance and financial products for adaptation

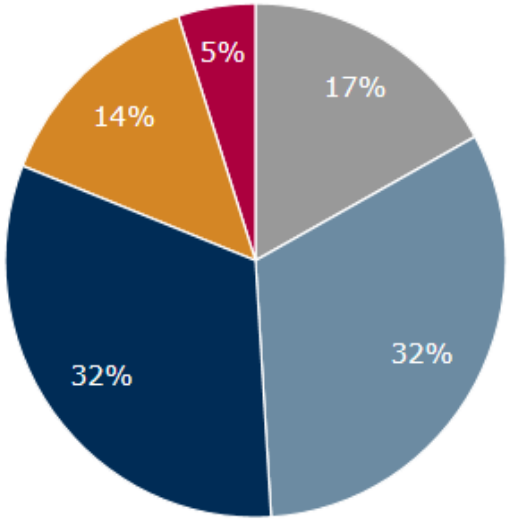
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Impacts of extreme events in EEA member countries
(climate-related and geophysical hazards; 1980–2015)

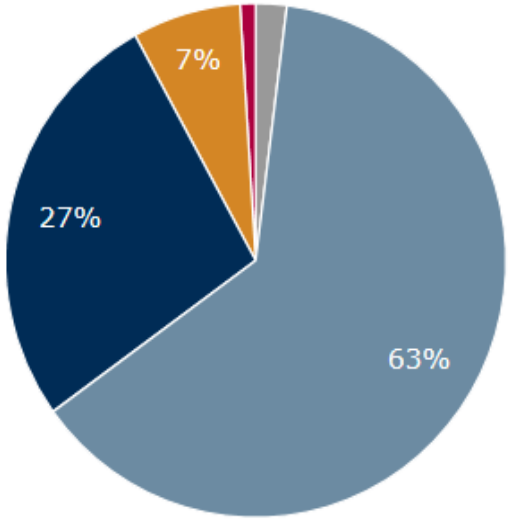
Fatalities
114 807



Total economic losses
EUR 520 billion (2015 prices)



Insured losses
EUR 155 billion (2015 prices)



Geophysical events | Meteorological events | Hydrological events | Climatological events | Climatological event (heat wave)

Source: Munich RE NatCatSERVICE

Examples of the integration of adaptation in specific policy areas, e.g. environment

- Implementation of the **Water Framework Directive** and its **River Basin Management plans** is essential to ensure a coherent approach to water management at hydro-geographic level
- **EU Floods Directive, Flood Risk Management Plans**
- **Ecosystem restoration**, **ecosystem-based adaptation**, **biodiversity protection** and **green infrastructure** (including water retention measures and other nature based solutions to increase ecosystem resilience to climate change)
- Implementation of the **Marine Strategy Framework Directive** and the activities on Integrated Coastal Management
- **International**:
  - UNCCD (UN Convention to Combat **Desertification**), desertification and land degradation, direct link to climate adaptation and resilience efforts. ELD initiative (www.eld-initiative.org).
  - Convention on **Biological Diversity** (where work on climate adaptation is going on)
  - UNECE, United Nations Economic Commission for Europe
- **Forest protection, land & soil protection**. Study on "Inventory and Assessment of Soil Protection Policy Instruments in EU Member States" includes references to soil measures relevant to adaptation

Ongoing Evaluation of the EU Adaptation Strategy

- The Strategy foresees that the Commission shall examine in 2017 its actual implementation and achievements.
  - ✓ *assesses the relevance, effectiveness, efficiency, coherence and EU added value of the overall Strategy, and*
  - ✓ *assesses the actual state and progress in the implementation of the 8 actions against what could reasonably expect to have been achieved by end 2016*.
- Inclusive and comprehensive stakeholders consultation:
  - Two stakeholders workshops (5 April 2017 and ~October 2017)
  - Three-month web based public consultation (~October to January 2017)
  - Interviews and surveys with different stakeholders groups (including MS, EU Institutions, NGOs, private sector, local/regional Authorities)
  - A Stakeholder Consultation Strategy is published on the DG Climate Action website. https://ec.europa.eu/clima/policies/adaptation/what_en#tab-0-0
- Study started in January 2017, Final report in 2018
- The Roadmap of the evaluation is published: *http://ec.europa.eu/smart-regulation/roadmaps/docs/2016_clima_011_evaluation_adaptation_strategy_en.pdf*

Thank you
for your attention

European Commission

Directorate-General for Climate Action ("DG CLIMA"):
http://ec.europa.eu/clima

EU Strategy on Adaptation to Climate Change:
http://ec.europa.eu/clima/policies/adaptation_en

European Climate Adaptation Platform:
http://climate-adapt.eea.europa.eu

Covenant of Mayors for Climate & Energy:
www.covenantofmayors.eu

