



CONFERÊNCIA INTERNACIONAL

Roteiro Local para as Alterações Climáticas: **Mobilizar, Planear e Agir**

ALMADA.PORTUGAL | 28 e 29 Maio 2009
Teatro Municipal de Almada



Sessão Plenária 4

29 de Maio | 14h30 - 15h45

Instrumentos e Mecanismos para a Acção Local

Moderadora: Júlia Seixas, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Portugal

Ferramentas do ICLEI para apoio à acção local no combate às alterações Climáticas: a campanha "Cidades para a Protecção do Clima (CCP)", Maryke Van Staden, Equipa Ar & Clima, ICLEI Europa, Alemanha

O Pacto dos Autarcas e os objectivos europeus para a energia e o clima, Frédéric Boyer, Secretariado do Pacto dos Autarcas, Bruxelas, Bélgica

Financiamento da acção local para as Alterações Climáticas, Juan Alario, Divisão Eficiência Energética e Renováveis (Project Directorate), Banco Europeu de Investimento, Luxemburgo



ICLEI's Climate Action Toolbox: the Cities for Climate Protection™ (CCP) Campaign

International Conference 'Local Government Climate Roadmap
- A Time for Mobilization, Planning and Action', Almada, Portugal - 28 to 29 May 2009
Maryke van Staden, Coordinator Climate and Air
ICLEI-Local Governments for Sustainability
European Secretariat

**Energy
Efficiency**

**Sustainable
Transportation**

**Methane
Recovery**

**Renewable
Energy**

**Waste
Reduction
/ Recycling**

**Urban
Greening**

● Introducing ICLEI (1)

- ICLEI-Local Governments for Sustainability (ICLEI) is an **international local government association**.
- **Founded in 1990 by cities** at the United Nations (UN) in New York. Supported by United Nations Environment Programme (UNEP) and United Cities and Local Governments (UCLG).
- **Global membership:** 1073 Local Governments (LGs) representing over 400 million people worldwide and several LG associations - members are committed to local sustainability.
- **ICLEI Europe:** 200+ members from 34 countries, including most EU15 capitals and several LG associations. European Secretariat is based in **Freiburg, Germany**, also a **Brussels office**.

● Introducing ICLEI (2)

Staff: ± 130

WORLD Secretariat
+ Canada Office
Toronto, Canada

USA Office
Oakland,
California

LATIN AMERICA
and Caribbean
Secretariat,
Buenos Aires,
and Brazil office
in Sao Paolo

AFRICA Secretariat
Cape Town,
South Africa

Bonn Climate Centre, Germany

EUROPEAN Secretariat
Freiburg, Germany

Int. Training Centre
(ITC), Freiburg

Brussels Office, Belgium

Japan Office
Tokyo, Japan

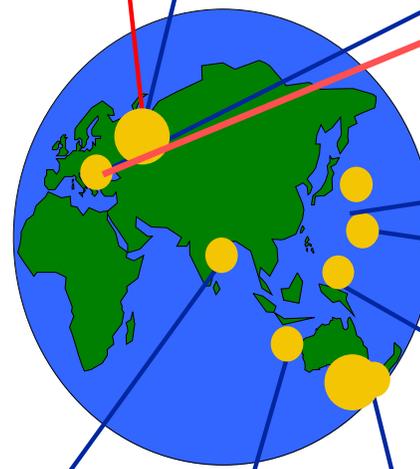
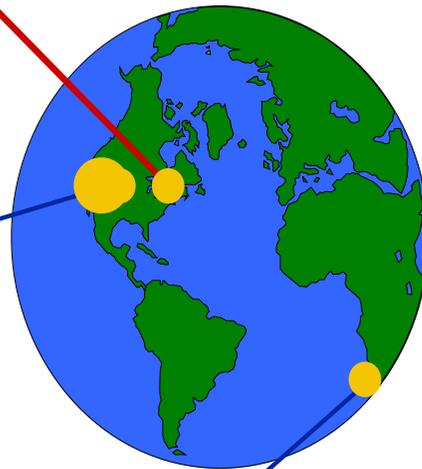
Korea Office
Jeju, Korea

SOUTH ASIA
Secretariat
Noida, India

SOUTH-EAST ASIA
Secretariat
Manila, Philippines

CCP Indonesia
Project Office
Jakarta

OCEANIA Secretariat
Melbourne, Australia



● Introducing ICLEI (3)

- **ICLEI acts as:**
 - an **association** of LGs dedicated to sustainable development;
 - a **movement** of cities, towns, counties, provinces and LG associations accelerating sustainable development through local action; and
 - an **agency** for sustainable development.
- **Global advocacy role:** ICLEI is the Local Government and Municipal Authorities (LGMA) Constituency Focal Point of the UNFCCC. Also has its own Observer status, whereby **ICLEI acts on behalf of Local Government** facilitating dialogue with national governments and the UNFCCC Secretariat.

● ICLEI as a Movement: 19 years

ICLEI's 4 Key Messages

Plan with your citizens



Projects & Campaigns

LA 21/Local Action 21
Participatory Governance

Use your natural
resources efficiently



Sustainable Management
Programme
ecoBudget

Spend taxpayer's
money sustainably



Sustainable Procurement
Campaign

Protect our
common global goods:
climate & air, water,
soil, biodiversity, ..



Cities for Climate Protection
(CCP) Campaign

● Working in Europe



Types of activity: Piloting, exploring barriers and opportunities, capacity development, peer-to-peer exchange, providing thematic expertise

- **The main global challenges we face today**

● Main global challenges

- **Two main challenges:**
 - increasingly scarce resources
 - climate change
- Earth Overshoot Day was reached in September 2008 – we **live beyond the means of Earth to support us**. Increasingly scarce resources increase the potential for conflict.
- **Climate change** – what is the impact? How will it affect us?
- Reach **critical mass of action** to protect people and environment.



● Climate protection - priority

- **Scientific agreement on human impact on climate**, and the need for urgent CO₂ reductions - International Panel on Climate Change (IPCC), Fourth Assessment Report (4AR) released in February 2007.
- **There is a limited time-frame to drastically reduce greenhouse gas (GHG) emissions** - about 7 years to act comprehensively according to IPCC Chair Dr. Pachauri, to avoid reaching the tipping point of 2 degrees Celsius increase. Else spiralling, uncontrollable climate change.
- **Climate change is non-linear in character, so non-action today means serious impact later on.** What you decide today can literally change the world of tomorrow ...
- **Climate change is not just an environmental problem.** It is also a social, security, economic and political challenge.

● Climate protection – in urban areas

- **In 2008 for the 1st time more than half the world's population lives in urban areas** (in Europe already two-thirds using 80% of energy = release of GHGs).
- **This is where climate protection action is needed.** Many options available for local action: Energy, Buildings, Urban and Land-use Planning, Transport, Waste and Water
- **Different actions are needed both in:**
 - **Climate change mitigation** – to reduce impact
 - **Climate change adaptation** – to respond to and plan for inevitable change

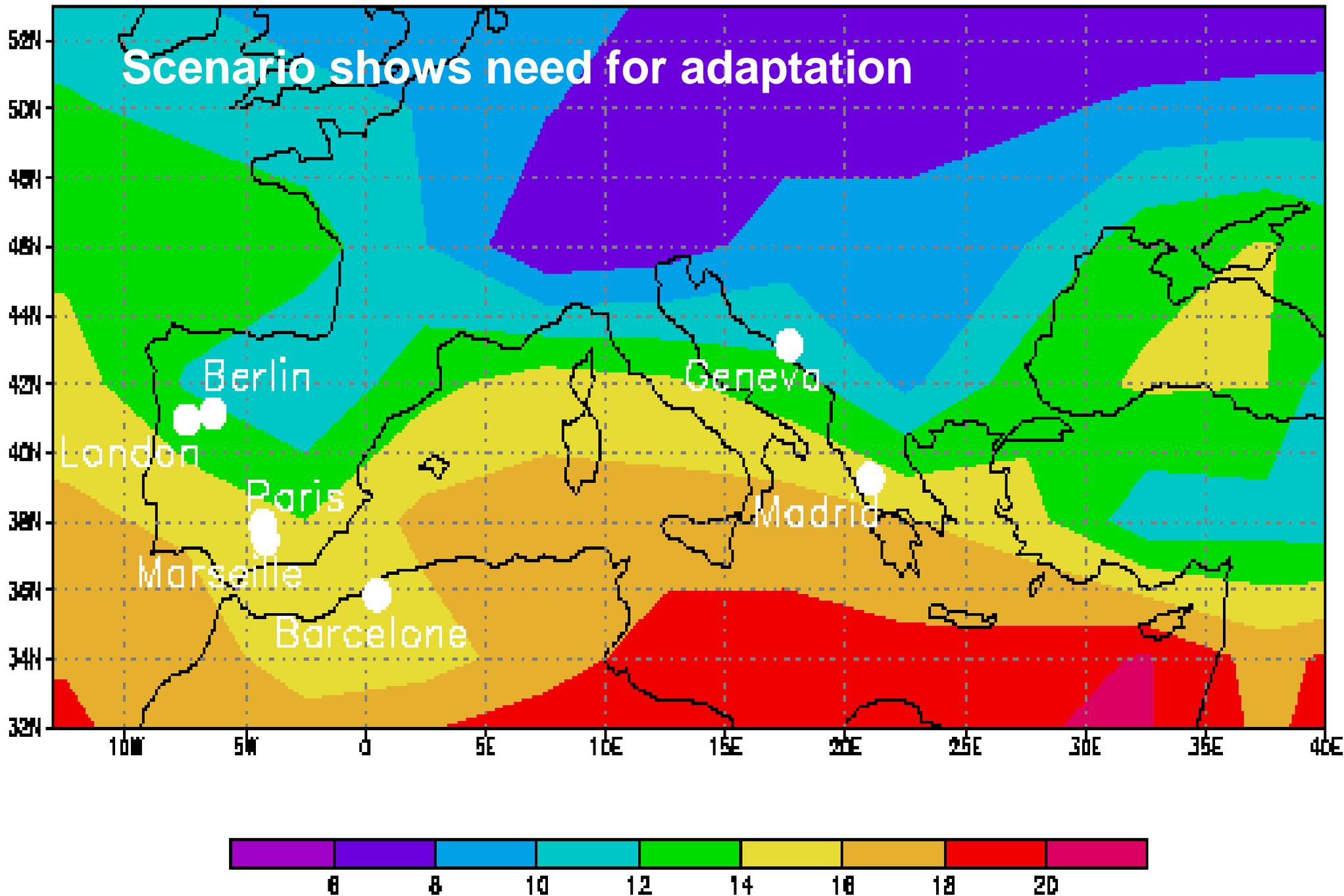
● Impact of climate change

⇒ **Temperature increase:**

- ✧ 10 hottest years on record since 1991.
- ✧ Temperatures have risen by 0,6° in the past century.
- ✧ Oceans have warmed down to 3,000 metres.
- ✧ Mountain glaciers and snow cover have declined.
- ✧ Arctic ice cover is shrinking (in depth and in extent).
- ✧ Acceleration in sea level rise (10 - 20 cm in 20th century)
 - may be related to increase in global mean temperatures
- ✧ Lengthening of growing seasons.

⇒ **More extremes in weather patterns and changing precipitation:**

- ✧ More intense and longer droughts have been recorded.
- ✧ More intense rainfall.
- ✧ 150 million people affected by floods world-wide (*only 7 million in 1960s*).



Source: PRUDENCE (Christensen et al, 2002) EU 5FP

HadRM3H-model

- **ICLEI's Cities for Climate Protection (CCP) Campaign**

● A global campaign

- ICLEI has been addressing climate protection **since 1993**. Launched Cities for Climate Protection (CCP) Campaign as a:
 - ⇒ **Movement**: working together, gaining momentum
 - ⇒ **Network**: peer-to-peer exchange and learning
 - ⇒ **Framework for action**: using 5 milestone process, case studies, replicate good examples, comparable results
- Today the international CCP Campaign has more than **800 LGs from 29 countries**, representing about 9% of the world's population.
- CCP Europe has **170 participants from 19 countries** (EU27, rest of Europe, Middle East, former Russian States).
- **National campaigns in Europe**: New: CCP Israel, CCP Italia and CCP Turkey. CCP France and CCP Portugal under discussion.

● Objectives

To develop a **worldwide movement of local governments** that **adopt policies** and **implement measures**, to address climate change mitigation and adaptation to:

- reduce local greenhouse gas emissions (GHGs),
- improve air quality,
- enhance urban liveability (quality of life),
- improve the resilience of local communities.

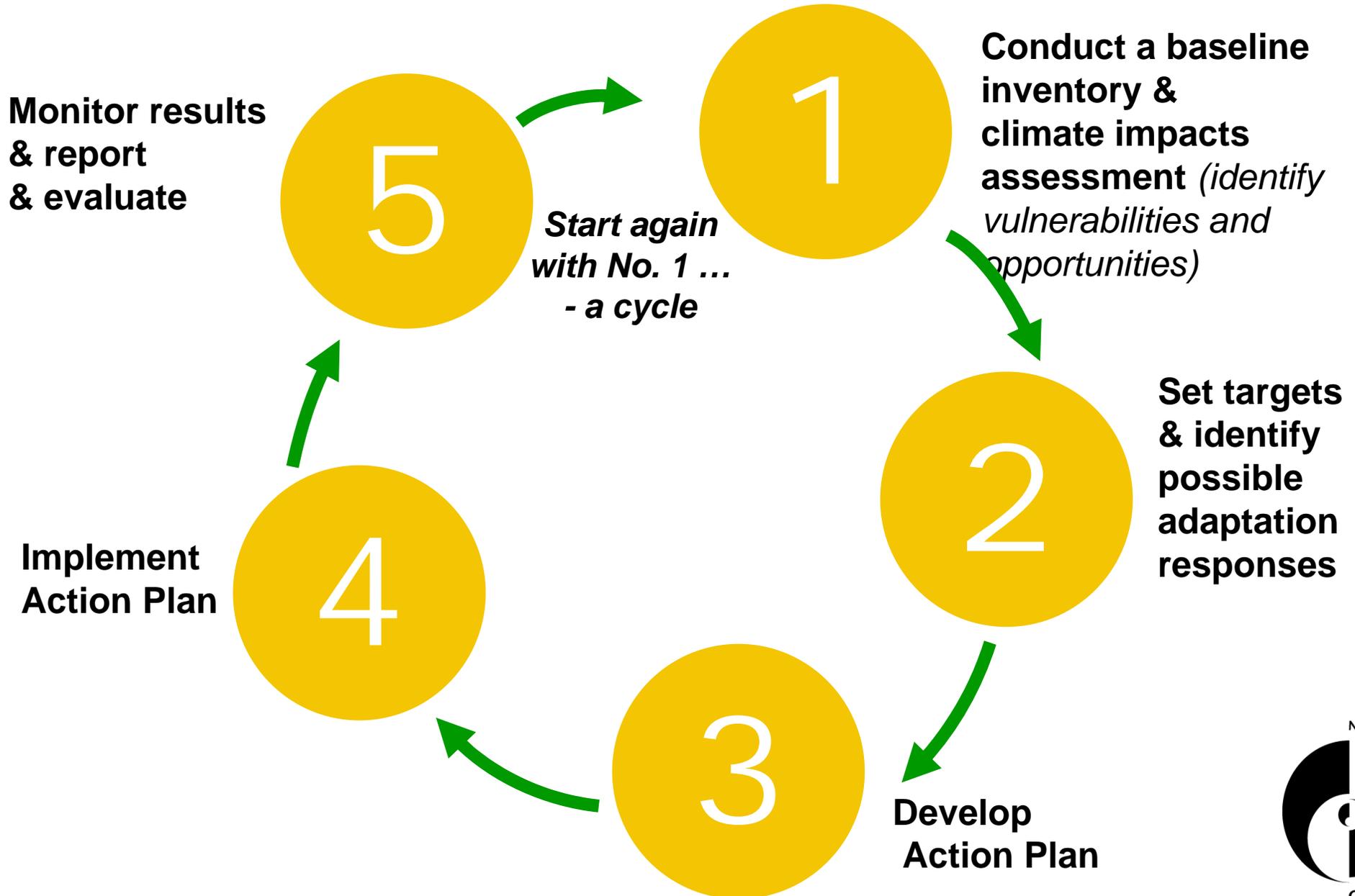


● CCP Europe

- **Encouraging local climate protection through:**
 - setting and achieving **ambitious targets** – both municipal (corporate) and for the whole community
 - increasing the overall **tempo of action**
 - use and improving **network** interaction, learning and exchange
- **Main elements of CCP Europe:**
 - **Political commitment as key step.** Need Council decision that climate protection is a priority. Preferably unanimous agreement.
 - Local governments **set own targets**, and **act on these** using the CCP 5-milestone process.
 - Address: **policy, strategies, methods and measures in all sectors** - focus on energy savings, energy efficiency (EE), renewable energy (RE).



● CCP 5 Milestone Process



● LG GHG Analysis Protocol

- In 2008 ICLEI released the 1st **international Local Government Greenhouse Gas Emissions Analysis Protocol** for public review and comments. Compiled specifically for LGs. Components also relevant to other levels of government and institutions.
- Aim is to **set a global standard** for LGs executing climate protection work, link to GHG software tools. So designed to **provide guidance** and establish a **standard for LG management programs**.
- **Peer reviewed**, drawing upon expertise and experience of experts and ICLEI's world-wide membership. Protocol will **continue to evolve** as new issues are raised and resolved.
- **Freely available** on website: www.iclei.org/ghgprotocol

● Protocol structure

- **Protocol has two levels:**
 - **International Emissions Analysis Protocol (IEAP)**
 - **Country / regional supplements:**
 - to address some protocol issues in **appropriate local context.**
 - description of how principles outlined are to be implemented in each country/region, incl. **appropriate data sources.**
 - ***Supplements include:***
 - ⇒ ***IEAP Country Supplement (e.g. Local Government Operations Protocol for a Region or Country)***
 - ⇒ ***Local Community Protocol***

● GHGs and comparisons

- **GHGs to be quantified and included:** carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), sulfur hexafluoride (SF₆), hydrofluorocarbons (HFCs) and perfluorocarbons (PFCs).
- **Most significant sources of GHGs** at local level are carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O).
- When counting GHG emissions and reductions, the individual gases must be **converted to CO₂ equivalent** in order to calculate a single number (represents total amount GHGs released or avoided).
- **Two boundaries are applicable to LGs:**
 - **Organisational boundary** – functions directly under LG control, consistent with private sector reporting. Where functions are shared, a *proportional share approach* may be needed.
 - **Geopolitical boundary** – consisting of the *physical area* or region over which a local government has jurisdictional authority.

● GHG monitoring tool developments

- The 1st tool used - **Torrie Smith software**. Steadily improved and used in Canada, the USA and tested in UK.
- From the lessons learnt it the need for an **on-line, multi-country, multi-lingual Internet-based software tool** was identified.
- **2005: HEAT (Harmonised Emissions Analysis Tool)** was developed by ICLEI USA and Oceania, with support from USAID (US Agency for International Development) – used in Brazil, India, Indonesia and South Africa.

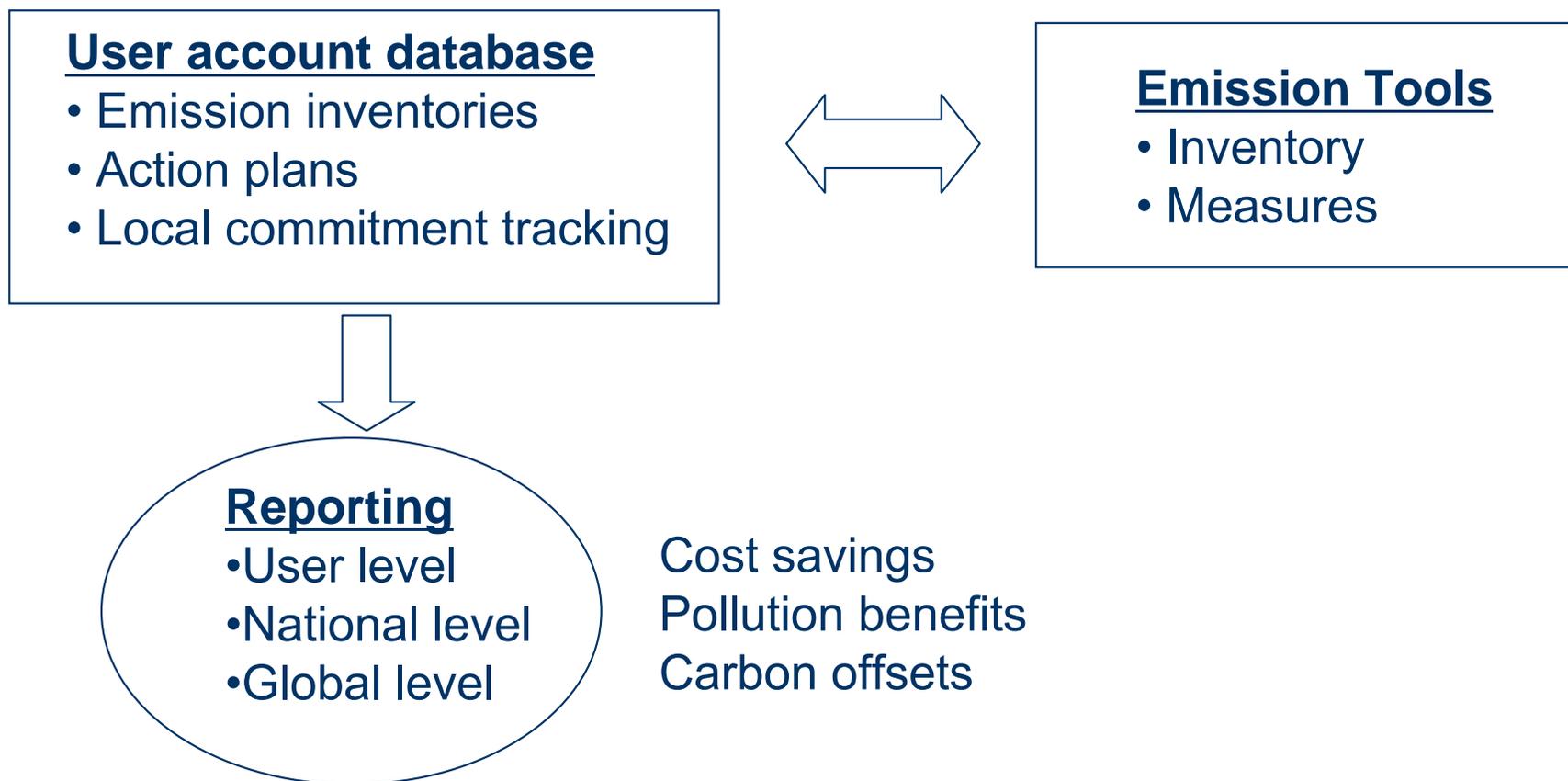


HEAT

HARMONIZED EMISSIONS ANALYSIS TOOL



● HEAT - framework



HEAT

HARMONIZED EMISSIONS ANALYSIS TOOL



● CCP participation opportunities (1)

CCP Europe Campaign - basics:

- Open to **all local governments in Europe**: EU-27, Switzerland, Norway, former NIS states, Mediterranean countries, including Middle East and North Africa
- **CCP Basic = free**
- **Basic tools**:
 - 5 milestones process = methodology
 - International LG GHG Analysis Protocol – guidelines on which GHGs to look at in the community context
 - CCP Europe mailing list - get and share news
 - Working Groups (Adaptation; Changing citizen behaviour)
- **Other levels of CCP involvement**: fee-for-service



● CCP participation opportunities (2)

National CCP Campaigns:

- **Address LG needs:** in country, own language, own culture.
- **Cooperation:** learn together, share results, motivate each other, and improve together.
- **Exchange:** National Coordinator ↔ CCP Europe ↔ global CCP.

Networking and representation:

- At ICLEI **events and platforms:** national, regional, international
- ICLEI has Official Observer status with UNFCCC (UN Framework Convention on Climate Change), and acts as Facilitator **representing LGs around the globe** at the UNFCCC Conference of the Parties (COP), e.g. COP15 – Copenhagen, December 2009.
- ICLEI: facilitator of **Local Government Climate Roadmap**



● CCP participation opportunities (3)

Project cooperation - main opportunities:

- ICLEI can support:

- project concept development and partner facilitation
- roles: coordinator, project partner or subcontractor

- Wide range of ICLEI expertise:

- Themes: climate protection, improved air quality, energy, transport, waste, water
- Local Agenda 21 (LA21)
- Urban planning, integrated sustainable management
- Sustainable procurement
- Dissemination, international visibility
- Event organisation
- Training and capacity-building.



● Project example

The Sustainable NOW Project European Sustainable Energy Communities - Effective Integrated Local Energy Action Today

Some activities:

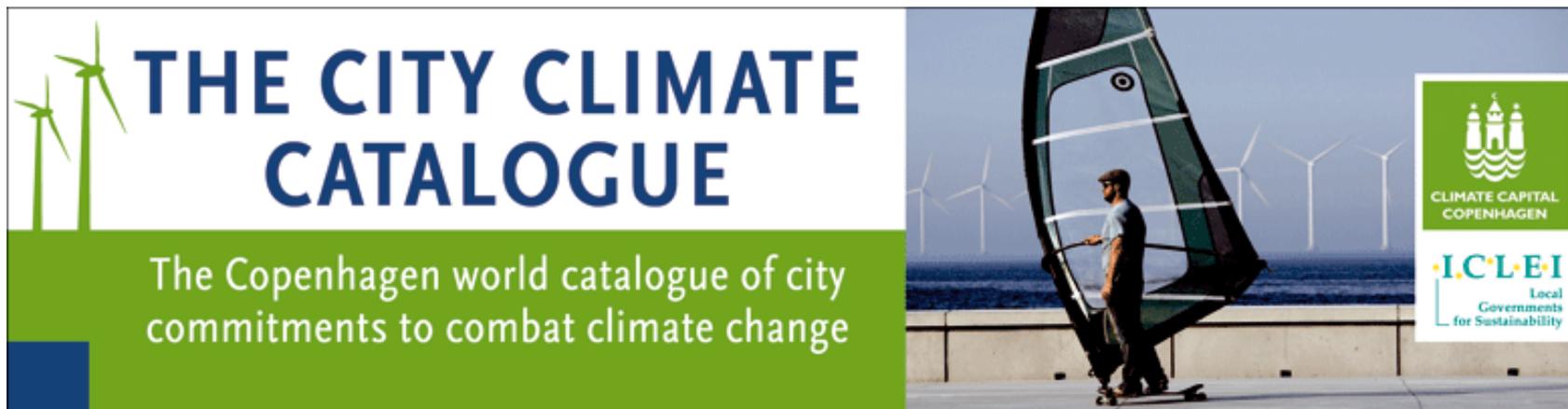
- **Create instruments** that build on state-of-the-art Local Energy Action Plan (LEAP) developments - support LGs in decision-making for integrated energy management, climate protection and securing local energy supply.
- **Guide Local Energy Action Plan (LEAP) implementation**

Supported by: Intelligent Energy Europe



● Global - City Climate Catalogue

- Linked to the **Local Government Climate Roadmap**
- **A collection of local action:**
 - Targets (CO₂ reduction, Renewable Energy, Energy Efficiency, .)
 - Results and good practices from around the globe.
- **Join this action!** Share your community targets and developments
- **Website:** www.iclei.org/climate-commitments



● Some ambitious cities in CCP



City of Heidelberg, Germany

Target: Decision in 1990 to reduce CO₂ by 25%
One of 1st German cities to develop a Climate Protection Plan. Effective involvement of community, business and industry.



Municipality of Växjö, Sweden

Target: Fossil fuel free municipality, decrease emissions from fossil fuels by 50% per capita by 2010 (70% by 2025). Already achieved: 32% CO₂ reduction by 2007 (from 1993).



Woking Borough Council, United Kingdom

Excellent targets: 60% CO₂ equivalent reduction by 2050 and 80% by 2100; 100% green energy by 2010
Effectively combining mitigation and adaptation measures.



Available for use by all Local Governments:

International LG GHG Protocol: www.iclei.org/ghgprotocol
LG Climate Roadmap: www.iclei.org/climate-roadmap
City Climate Catalogue: www.iclei.org/climate-commitments

In LG Action we are exploring the link between:

Global Mayors Climate Agreement: www.globalclimateagreement.org
Covenant of Mayors: www.eumayors.eu

For our members – a framework for action and visibility:

ICLEI's CCP Campaign: www.iclei.org/ccp
Also many other ICLEI campaigns, initiatives and projects ...

● Conclusion

- Local governments **must act in climate change mitigation and adaptation**. Take on responsibility for own actions and protecting the community. There is a limited time-frame in which to act.
- **Many action opportunities**, e.g. as owners of buildings and infrastructure, service providers, leaders of communities.
- **Prioritise climate change in Council** – ideally have cross-party political consensus, ensure continuity of direction.
- **Develop a short to long-term vision**. Set clear targets and steps – and act on these.
- **Empower staff working on this**. Structure, budget, ideally have two champions – one political and one staff person.
- **Invitation: join the CCP Campaign, learn, share, act together**. Or join other activities – but engage!
- Call on provinces, state level and national / federal level to **improve framework conditions** now to support LG action.

● Contact



ICLEI's European Climate & Air Team

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Website: www.iclei-europe.org/ccp

Thank you!

