

From the Sustainable Energy and Climate Action Plans (SECAPs) how to best implement a Smart City Plan.

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Who we are, short introduction of SPES





Sustainable Goals and initiatives



Main pillars:

Extension to innovation and wellbeing (Smartness)

Quality management and monitoring Stakeholders engagement



Examples and lessons learnt



Materials available













SPES Consulting: company's background







SPES is a fifteen years old company with a technical expertise whose core business is spreading innovation to the PAs and monitoring their achievements (CoM, eea, ...), promoting experience exchange and QMS/EMS (national manager of European Energy Award). We work with institutional partners at every level (national, regional, local), research centres and agencies and ONLUS-ONG. SPES is certified ISO 9000 (quality) and 14001 (environment)

SPES has been very active at EU level since the beginning: we have been involved, as leaders or partners, in IEE, Interreg, FP7, H2020, cooperation programs projects aimed at supporting municipalities in energy planning, environmental impact definition, mobility actions, stakeholders' involvement,...

Actually we're coordinating the H2020 CoME EAsy and leading WP7 "cross cutting activities and roll ut plans" in H2020 SCC1

REPLICATE







































UN SUSTAINABLE DEVELOPMENT GOALS



SDGs: 17 global goals set in 2015 by the United Nations for 2030

Urgent global challenges are addressed in an holistic and global approach. For each goal a list of targets and indicators is defined.



GOAL 7

Ensure access to affordable, reliable, sustainable and modern energy



GOAL 11

Make cities inclusive, safe, resilient and sustainable





GOAL 13

Take urgent action to combat climate change and its impacts













Source: https://www.un.org/sustainabledevelopment

THE ROLE OF MUNICIPALITIES



Energy and climate transition requires a multi-level efficient policy that must be led by the local level.

Local authorities should be FORERUNNERS in taking climate action.

Key role of local authorities in:

- supporting a <u>market transformation</u> through their policies and actions;
- stimulating a general <u>behaviour</u> in <u>favour</u> of a more <u>widespread</u> adoption of energy efficiency solutions;
- bringing together different stakeholders on its territory in a mutually beneficial action for the energy and climate transition













OBSTACLES AND NEEDS



The main obstacles in implementing energy and climate policies at local level are mainly related to:

- Local capacity
- Access to resources



Local authorities need support

An increasing number of energy and climate related initiatives, standards and approaches are available to engage and support municipalities and facilitate the daily operational work.













UN & EU GOALS: many initiatives for LAs



The main programs involving local authorities on climate and energy, sustainability and innovation:

UN Sustainable Development Goals SDGs



Ensure access to affordable, reliable, sustainable and modern energy



Make cities inclusive, safe, resilient and sustainable



Take urgent action to combat climate change and its impacts the European Commission's (Global) Covenant of Mayors (CoM)



Smart Cities and Communities and European Innovation Partnership
(EIP-SCC) with the EU Smart Cities Information System (SCIS)

















SMART CITIES AND COMMUNITIES (SCC)



The Smart Cities and community program in H2020 is aimed at the following goals:

- Improve quality of life of EU citizens in urban areas
- Reach energy and climate targets
- Increase competitiveness of Europe's industry and innovative small and medium-sized enterprises through tested business models for innovative solutions
- Share knowledge to replicate success, and prevent mistakes being repeated

Participating cities and regions will be expected to test and demonstrate the feasibility of going beyond the current EU energy and climate objectives.















SMART CITIES AND COMMUNITIES (EIP-SCIS)



European Innovation Partnership is an initiative supported by the EU Commission that brings together cities, industry, small businesses (SMEs), investors, researchers and other stakeholders to develop innovative and more sustainable integrated solutions and to participate in the city governance.

The Smart Cities Information System (SCIS) is a knowledge platform aiming to encourage the exchange of data, experience and know-how and wider collaboration in the creation of effective and replicable business models for smart cities. (6 project reported in Turkey)

















Source: EIP-SCC

SMART CITIES AND COMMUNITIES (EIP-SCC)



The **Smart City Guidance Package** (SCGP), developed by the integrated planning action cluster, supports city administrations and urban stakeholders in planning and implementing smart city and low energy district projects using an integrated approach.

It provides:

- a roadmap for integrated planning and implementation and to do's for each stage
- best practice examples and knowledge sharing related to the different stages (ex: EEA)















Source: EIP-SCC -NTNU

UN & EU GOALS: many initiatives for LAs



The **supporting methodologies**:

ISO standards www.iso.org

the European Energy Award (eea)

www.european-energy-award.org











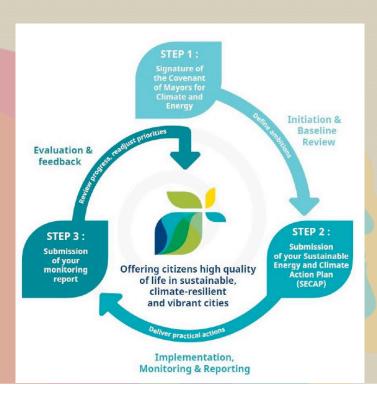




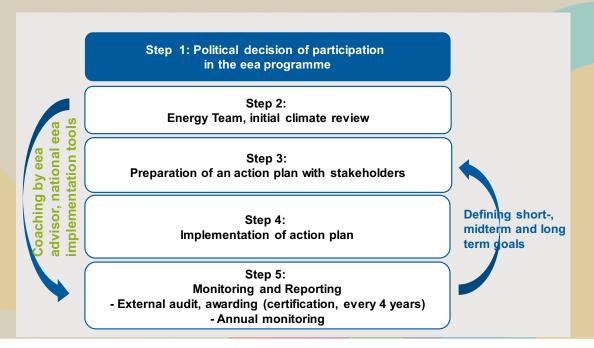


Combine forces of CoM, SCC and EnMS (eea, ISO)





Strong similarities in process















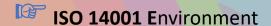
ISO standards











ISO 37120 Sustainable cities and communities —Indicators for city services and quality of life (World Council on City Data (WCCD) administers the ISO 37120 certification system and the Global Cities Registry™ www.dataforcities.org) with ISO

ISO 37120



37122 Indicators for Smart Cities and ISO 37123 Indicators for Resilient Cities











EEA: 1500 cities - 60 million EU citizens

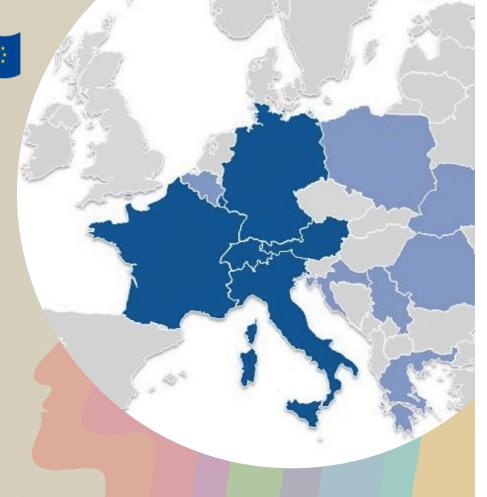


The eea is implemented in 1500+ European cities and communities, with a range 100 to 1+ million inhabitants, and representing a population of 60 million European citizens.

... largest municipality participating:

Lyon Metropolis (FR, 1.34 m inhabitants)

smallest municipality participating: Senèdes (CH, 156 inhabitants)













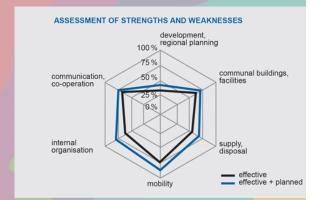






Why do local authorities choose to participate in Awarding or certification programs?

- ✓ Awarding/certification increases visibility
- ✓ International networking/ benchmarking
- ✓ Effective management procedures
- ✓ Regular training and support (tools, experts...)





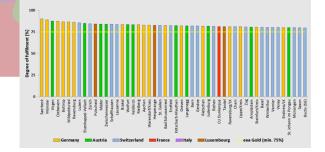












CoME EAsy Project: Goals Company Compa









CONNECT INITIATIVES AND FACILITATE CROSS FERTILISATION

NO SILOS











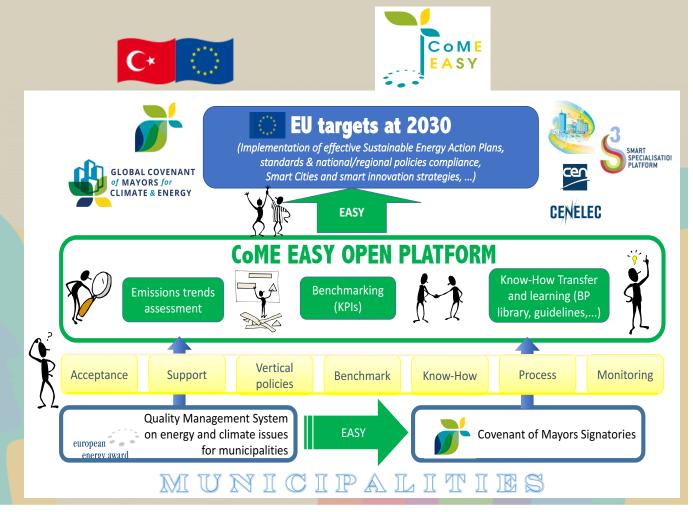


Mutual reinforcement How?

CONNECT INITIATIVES AND FACILITATE CROSS FERTILISATION

TOOLS UNDER DEVELOPMENT

- Assess trends:
 - ✓ Emission Path tool
- Facilitate reporting:
 - ✓ SECAP creator / Iso facilitator
 - ✓ Mitigation impacts calculator
 - ✓ Buildings database
- Benchlearn:
 - ✓ Best Practices library
 - ✓ KPIs dashboard
 - Stakeholders' engagement guidelines (co-production)















CoME EAsy GUIDELINES for stakeholders' engagement



The guide (April 2019) has been designed for people involved in energy and climate planning, supporting working teams and leaders in the engagement of relevant stakeholders for a **trans-disciplinary co-production process**.

The aim is to transfer from partners knowledge good practices and lessons learnt, together with practical tips and tricks that can be used by further municipalities in this fundamental, but also difficult, process. There is no unique solutions, but methodologies and tools that have been already tested and that can be easily adopted with few adaptations.

It is important to know that <u>engagement processes must be managed</u> to achieve good results and should have clear rules, dedicated resources and realistic expectations (from both sides).

The doc has been written in parallel with the Smart Cities Guidance Package, coordinated and cross-referenced thanks to EIP people involved in our Advisory Board.















HOW?



CoME

Different levels and options for public involvement in the decision-making process

Collaboration, cooperation

Individual projects

- initiated by the community
- supervised

Consultation

Long- term programmes

- initiated by the community
- supervised

Engagement, involvement

Planning processes

- Attendance at proceedings
- Design participation
- Decision making co-production

Public involvement options

Information

Communication processes

- Citizens meetings
- Discussion forums
- Surveys
- Media and socials













HOW?



Different stakeholders engagement methods are available.

CoME	Information (communication processes)	Consultation (long term processes)	Cooperation (specific projects)	Engagement (planning)
Media and socials	XXX	XXX	X	X
Interviews		XX	XXX	
Surveys		XXX	XX	X
Events/meetings		XX	XX	X
STEEP (Modeling)		X	X	XXX
EMT	X		XX	XXX
SWOT, USP, PESTEL	XX		XXX	X
KPIs	X	X	XX	XXX
MAPs	Х	X	XX	X

Example of the most suitable methodologies for each public involvement level targeted.















Example: Florence path

SUSTAINABILITY in Florence is a never-ending story

- 1998 Aalborg Chart
- 2005 Aalborg commitments
- 2010 Mayor's Adapt
- 2011 Sustainable Energy Action Plan
- 2015 Compact of Mayors and Global Covenant of Mayors for **Climate and Energy**
- 2016 Smart City Plan of Florence (roadmap to 2050)
- 2016 SUD Sustainable Urban Development Strategy (PON Metro framework)
- 2017 Covenant of Mayors for Climate and Energy
- 2019 SECAP on going (approval 2020)





















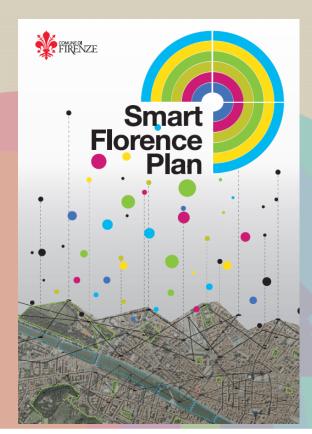






Florence Smart City Plan





FIRST PART

- •The vision (Mayor) and The city of the future (City Manager and SC WG leader)
- •The SCP and the system thinking approach
- •The Sustainability of the Plan: choices and financial tools
- Involvement of Stakeholders and Communication
- Monitoring and Control

Sectors

- 1) Integrated Planning
- PA Efficiency
- Energy efficiency
- **ICT**
- Mobility
- Prosperity
- Livability
- Communications

«REPLICATE» project Pilot action

http://www.spesconsulting.com/sites/default/files/Firenze%20Smart%20City%20Plan.pdf





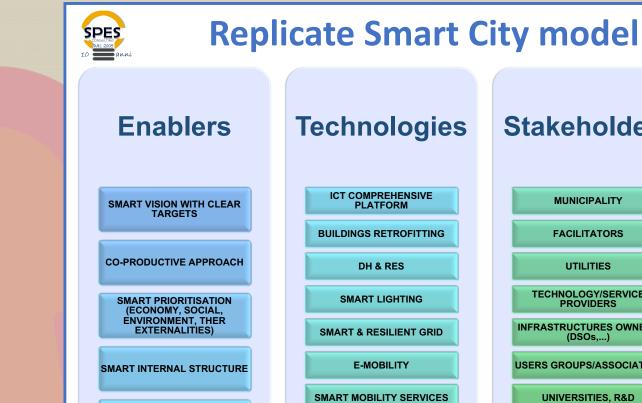






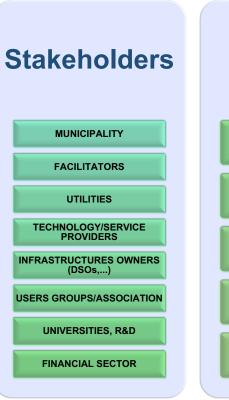


REPLICATE Project findings: the continuous process



SUPPORTING REGULATORY FRAMEWORK



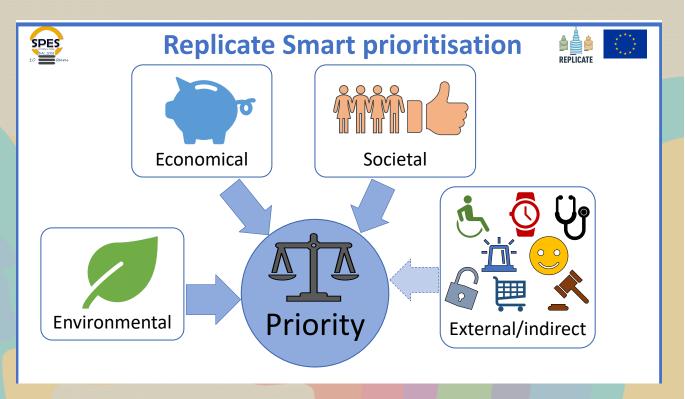




Replicate Project findings: the "motivation"

Wide and reliable analysis and model for externalities to look at investments holistically:

the internalisation of external costs means making such effects part of the decision making process

















MATERIALS



- ✓ CoME EASY project tools and stakeholders engagement guidelines (available in one month): https://www.european-energy-award.org/eu-project-come-easy
- ✓ Smart Cities and Commmunities project REPLICATE (San Sebastian, Florence, Bristol follwed by Essen, Lausanne, Nilufer): https://replicate-project.eu
- ✓ FP7 STEEP Smart City Planning open methodology: http://www.spesconsulting.com/node/34
- ✓ Smart Cities Guidance package: https://eu-smartcities.eu/sites/default/files/2019-07/Smart%20City%20Guidance%20Package%20LowRes%201v22%20%28002%29 0.pdf
- √ ISO 5001 applied to SECAPs: https://compete4secap.eu/resources/energy-management-systems/
- ✓ ISO 37120 data hub: https://open.dataforcities.org

















"The most difficult thing is the decision to act, the rest is merely tenacity"



Thank you!

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