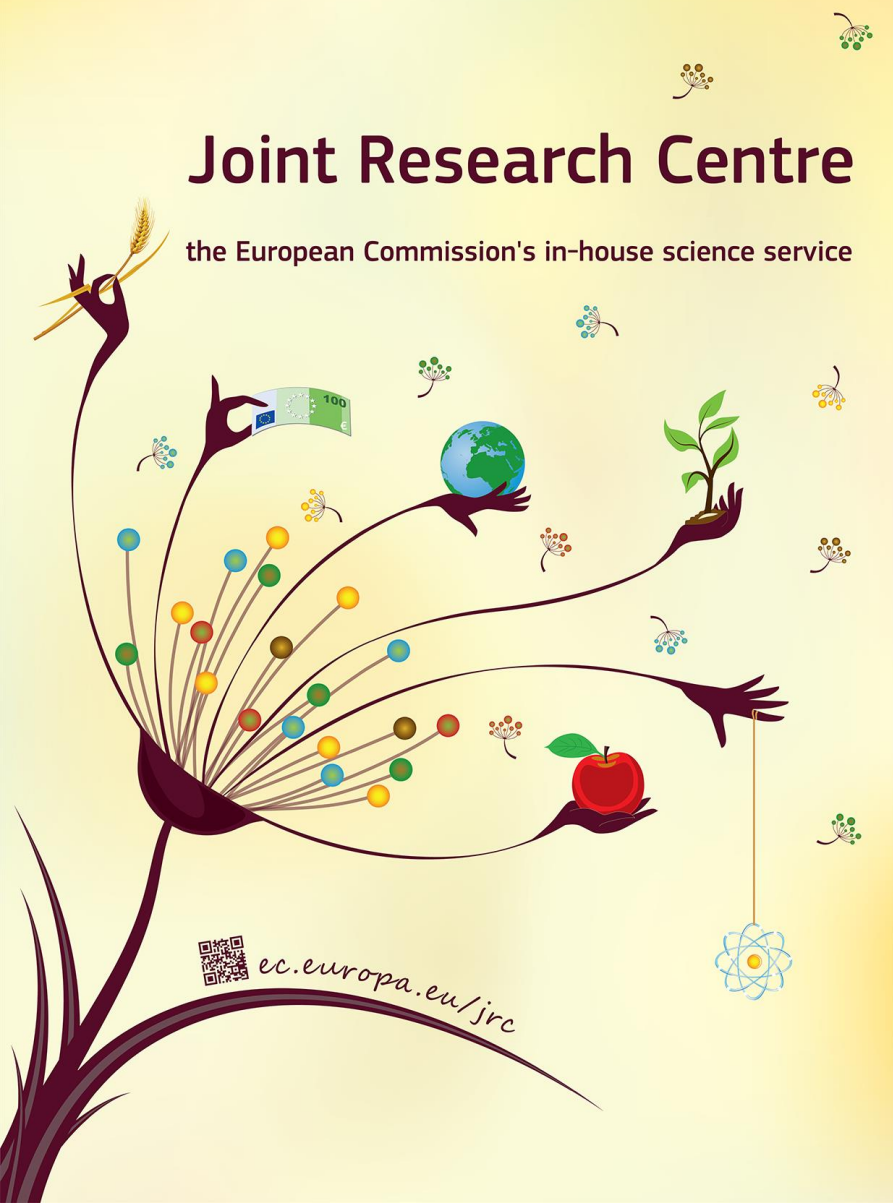


Joint Research Centre

the European Commission's in-house science service



ec.europa.eu/jrc

Covenant of Mayors reporting tool: The SECAP template

Silvia Rivas

JRC training for IUC contractors and
FPI Programme managers

Brussels, 13 February 2017



Covenant of Mayors
for Climate & Energy

Objectives



- 1. To have a first contact with the SECAP template contents: mitigation and adaptation**
- 2. To understand the categories of data**
- 3. To get used to the excel template version : key concepts and main sections**
- 4. Introduction of the On line reporting tool**



- **Relevance of reporting and monitoring**
JRC validation and assessment of the Initiative
- **Added value of a systematic reporting**
 - **robustness**
 - **coherence**
- **Type of data: quantitative/qualitative requirements**
- **Main sections:**
Overall strategy, Mitigation, Adaptation, Progress indicators, Financial indicators

TIMELINE

Colour codes







Commitments

Urban Adaptation Support Tool

Commitments:

- ☐ [2020 CO₂ reduction](#)
- ☐ [2030 CO₂ reduction](#)
- ☐ [Long-term CO₂ reduction](#)
- ☐ [Climate Adaptation](#)

Colour codes:

-  Mandatory input cells
-  Optional input cells
-  Output cells
-  Pre-filled cells
-  Definitions (visible when clicking)
-  Monitoring Fields

Template Structure & Minimum Reporting Requirements:

Template Structure		Minimum Reporting Requirements			Link to Tab
		At the registration stage	Within 2 years	Within 4 years (and then every 2 years)	
Mitigation	Strategy	optional	*	*	→
	Emission Inventories	optional	*	*	→
	Mitigation Actions	optional	(BEI)	(MEI every 4 years)	→
	Mitigation Report		*	*	→
	Monitoring Report				→
Adaptation	Adaptation Scoreboard	*	*	*	→
	Risks and Vulnerabilities	optional	*	*	→
	Adaptation Actions	optional	optional	*	→
	Adaptation Report			(min. 3 Benchmarks)	→
	Adaptation Indicators				→

* mandatory

Objectives

- IDENTIFY & ASSESS local climate and energy challenges and priorities
- MONITOR & REPORT progress towards commitments
- INFORM & SUPPORT decision-makers
- COMMUNICATE results to general public
- ENABLE self-assessment & FACILITATE experience-sharing with peers
- DEMONSTRATE local achievements to policy-makers

Developed by: Covenant of Mayors & Mayors Adapt Offices, Joint Research Centre of the European Commission

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- 1. COMMON FOR MITIGATION AND ADAPTATION**
- 2. MEDIUM AND LONG TERM TARGETS**
- 3. GENERAL VISION**
- 4. ADMINISTRATIVE PRINCIPLES, STAFF, STAKEHOLDERS..**
- 5. FIRST ECONOMIC INDICATORS**
- 6. FIRST SIGNATORY SELF ASSESMENT**



SECAP template



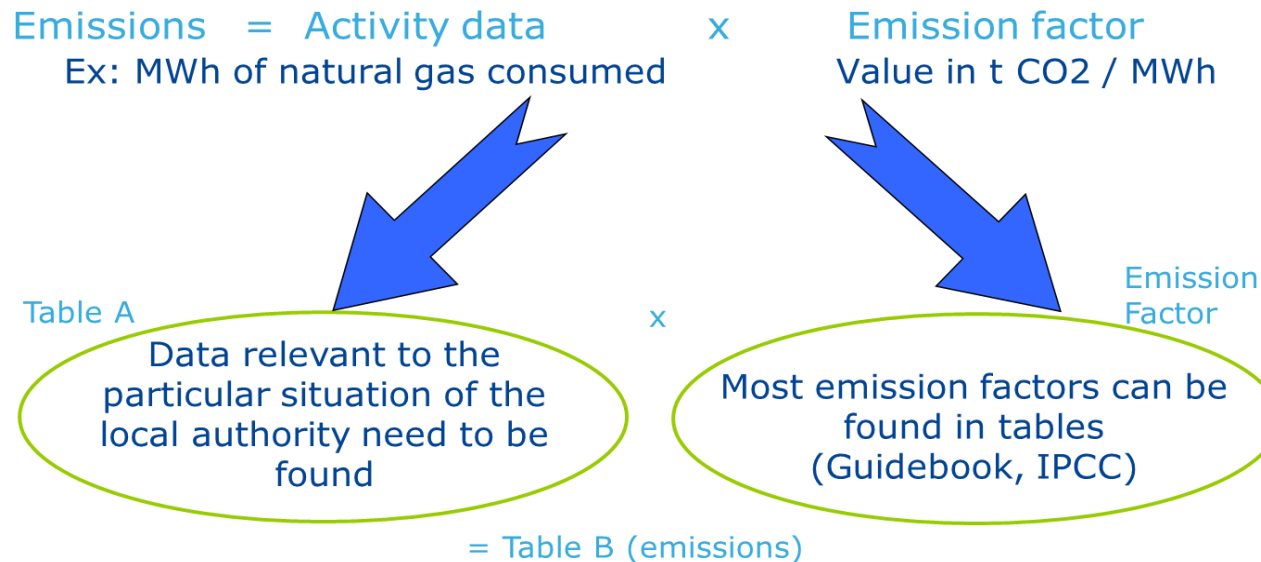
Baseline emission inventory QUANTITATIVE APPROACH



SECAP template

How to calculate the emissions?

It is just a multiplication!



MEI :Monitoring emission inventory
Emissions inventory reported for a different year



Summary of the energy action plan developed and submitted by the signatory

Include actions tackling the CoM sectors, trying to reduce the total emissions by the selected year in at least 40%.

- Actions can be grouped by sectors
- Business and usual approach (BAU)
- Administrative fields
- Economic fields
- Data fields
- Synergies with adaptation ("Adaptigation")



SECAP template

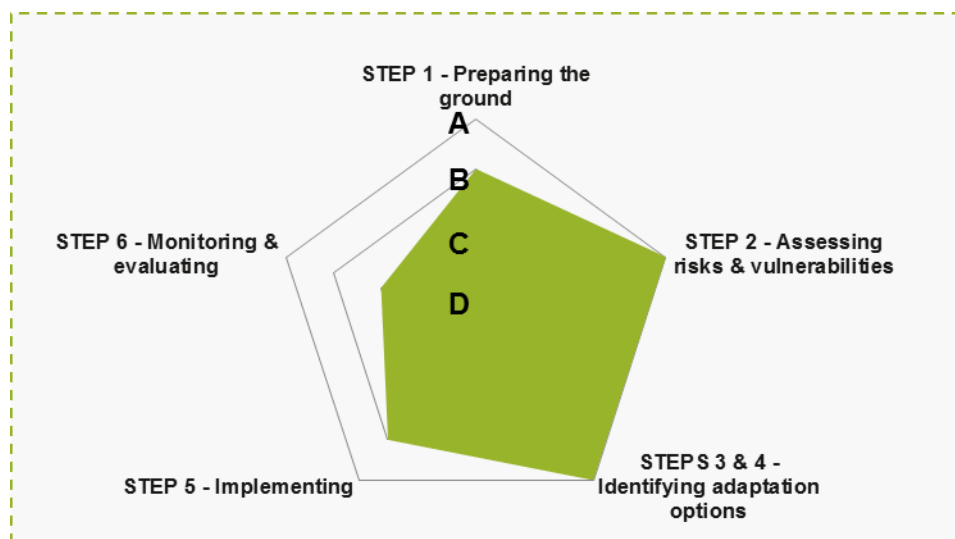
**The more accurate , the better
(but just some fields mandatory)**



SECAP template

Adaptation self- assessment QUALITATIVE APPROACH

**Overview of the capacity, status and principals of the
Risk and vulnerability study developed**



From SECAP of GHENT (Belgium)

Summary of the risk and vulnerability assessment developed and submitted by the signatory

- Qualitative systems
- Drop menu based
- Main sections:

Climate hazard
Vulnerabilities
Impacts



SECAP template

Climate Hazard Type	Current hazard risk level	Expected change in intensity	Expected change in frequency	<u>Timeframe</u>	Risk-related indicators
<u>Extreme Heat</u>	Low	Increase	Increase	Long-term	
<u>Extreme Cold</u>					
Extreme Precipitation	Moderate	Increase	Decrease	Medium-term	
<u>Floods</u>	Moderate	Increase	Increase	Medium-term	Pluvial flooding
Sea Level Rise	Moderate	Increase	Increase	Medium-term	
<u>Droughts</u>					
<u>Storms</u>	Moderate	Decrease	Decrease	Medium-term	Severe wind, rain storm
<u>Landslides</u>					
Forest Fires					
<u>ther</u>	[please specify]	[Drop-Down]	[Drop-Down]	[Drop-Down]	
<small>rows that do not concern your local authority</small> <small>① To be completed for the climate hazards that concern your local authority only.</small> <small>① Click here to see examples of risk-related indicators</small>					

From municipality of Bologna SECAP

Summary of the adaptation actions proposed in the plan

Same scheme as for mitigation
Synergies with mitigation



SECAP template

Adaptation Actions								
<div> <div></div> <div>500 characters left</div> </div>								
2) Adaptation Actions ⓘ List your adaptation actions in the table below. Actions can be comprehensive or representative, taken from one or more of the documents cited by the local authority in the section above.								
Sector	Title (max. 120 chars)	Short description (max. 300 chars)	Responsible body/department	Implementation timeframe		Implementation status	Select as <u>Key</u> <u>Action</u> (↔)	Sta
				Start	End			
Other	Developing indicators for monitoring, review and risk prevention within the Municipal Strategy for Adaptation to Climate Change (EMAAC)	It allows you to frame the future response to all kinds of events, impacts and vulnerabilities identified for the municipality.	Municipality of Barreiro	2016	Not known	Ongoing	[Please select]	
Water	Monitoring and analysis of the Tagus-Sado aquifer, incorporating the potential impacts arising from climate change (lack of scenarios and / or contamination of the aquifer - only producer of drinking water in the region)	Regional study in order to assess / monitor the Tagus-Sado aquifer for research on the potential effects of climate change on groundwater	Municipality of Barreiro	2016	Not known	Ongoing	[Please select]	
Other	Education and awareness of adaptation to climate change in schools and for the general population	Awareness of the impacts generated by the climatic events that affect the municipality of Barreiro, and better perception of the type future vulnerabilities, responses and adaptation needs the most significant (sea level rise, excessive rainfall, strong winds and heat waves).	Municipality of Barreiro	2016	Not known	Ongoing	[Please select]	
Land Use Planning	Systems of water retention basins, the	Promoting a naturalized infrastructure in some cases with double function, retention of rainwater and leisure, will allow for a sustainable solution	Municipality of Barreiro	2014	Not known	Ongoing	[Please select]	

From municipality of Barreiro SECAP



Benchmark of excellence

Signatories need to select 3 mitigations measures/actions
On those, a first approach is applied to obtain financial
figures to assess the economic potential of the initiative

National Funds & Programmes
 EU Funds & Programmes
 Private Partnerships
 Other
 Public-Private Partnerships
① Select x for the ones that are applicable.

Website
 Video link

Key energy and financial figures

U₂ reduction (t/a)
 Energy savings (MWh/a)
 Renewable energy produced (MWh/a)
 Implementation cost (€)
 Jobs created (number)
 Other figures Please specify Unit

② In order to visualize the outcome of the table below and to make a financial assessment of the results achieved/forecasted by measure you will need to fill in all the relevant white cells related to the year of investment.

Life expectancy of the action (years)	Discount rate applied (%)	First year of investment	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Financial savings (€)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Investment costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Additional costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net cash flow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PV of Financial savings
 NPV of investment
 Discounted Payback period years months
 Return on Investment (ROI)

ESCT involved?

Upload Benchmarks of Excellence related files

Upload document
 Upload picture



SECAP template



Monitoring reports

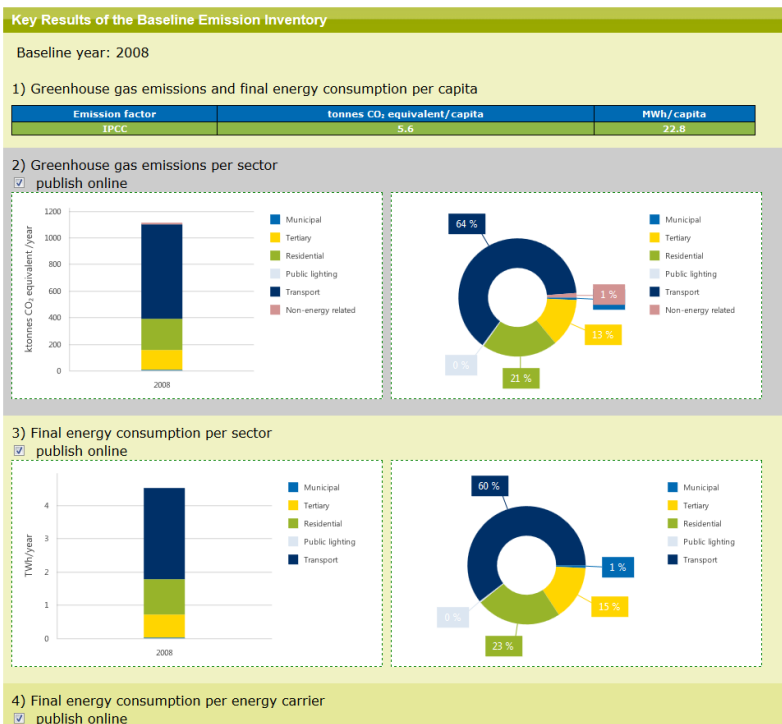


For mitigation and adaptation

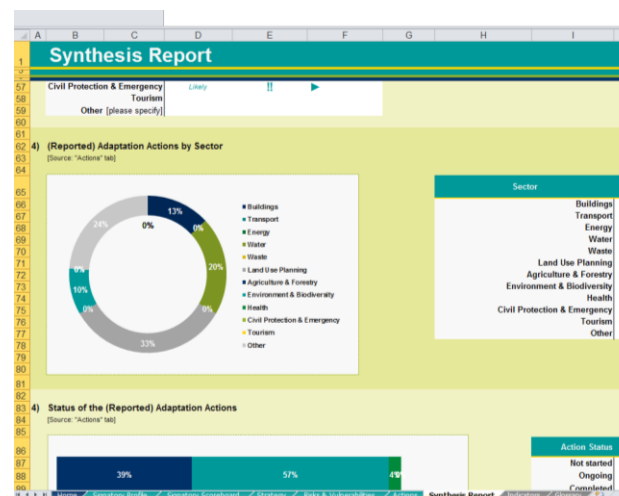
Automatically generated figures showing the progress regarding commitments, estimations and achievements made by the signatory



SECAP template



Mitigation report. City of Pamplona, Spain



Adaptation report. City of Ghent, Belgium



**Covenant of Mayors
for Climate & Energy**

Thank you!



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Joint Research Centre (JRC)