

Making a Climate Plan for Venice

Storm Surge Networking Forum 2013

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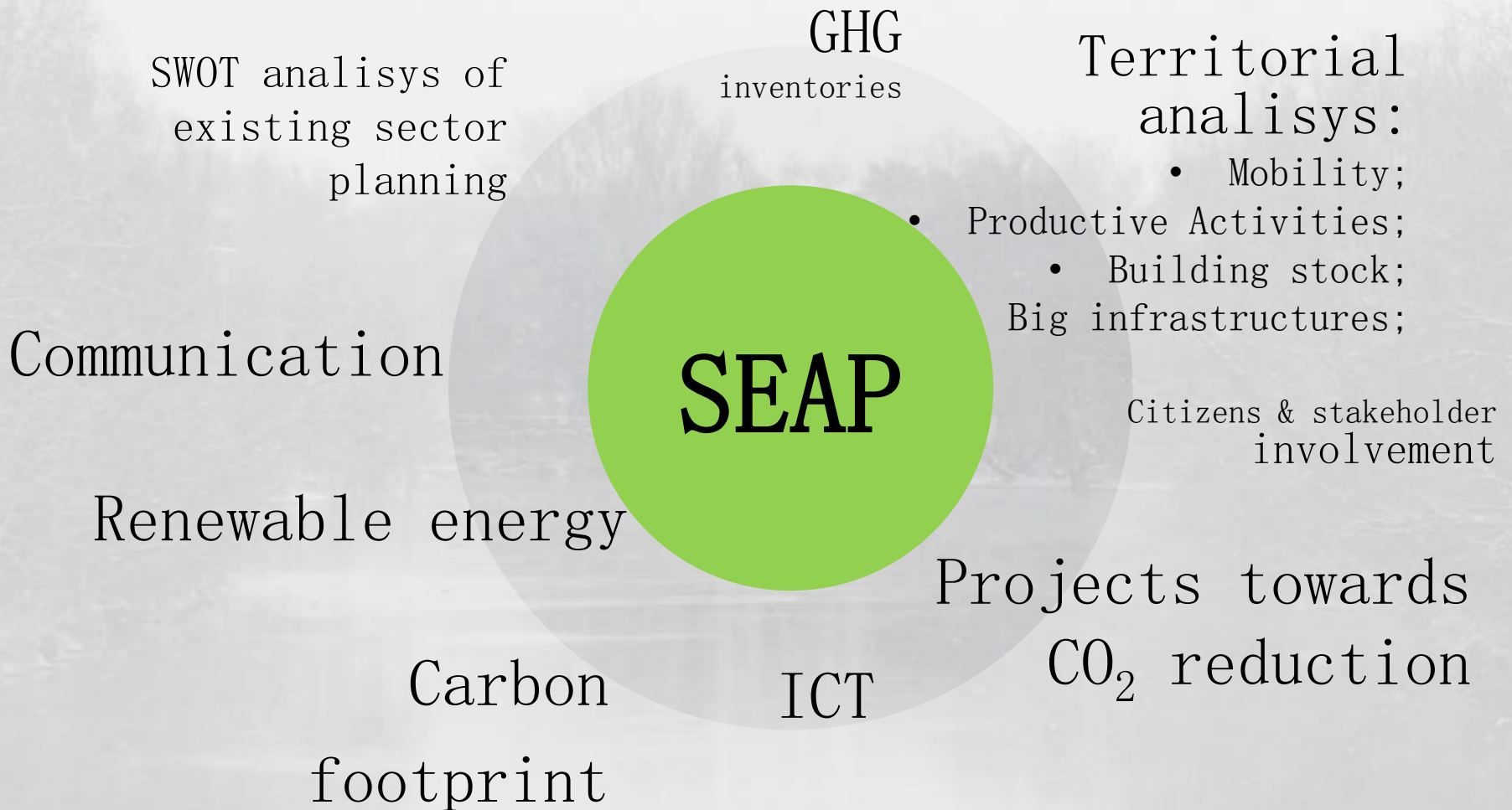
Mitigation & Adaptation

The City of Venice has established a several initiatives toward climate related issues;

- Actions towards GHG emissions reduction;
- Actions to adapt to climate change;

At this moment there is an existing mitigation plan called SEAP while the adaptation plan is being developed.

Mitigation: SEAP



SEAP: main outcomes

- Clear strategy;
- Data;
- People from different department working together toward the CO₂ reduction target;
- New approach to cross-cutting themes;
- Use of indicators;
- Constant monitoring and improvement;
- Stakeholder involvement;

TO BE IMPROVED:

- Strengthen communication;
- Real-time monitoring of municipal facilities;
- Data gathering from power and gas distributors;

SEAP: main outcomes

CATEGORIE	EMISSIONI DI CO ₂ O EQUIVALENTI DI CO ₂ [t]													TOTALE		
	ELETTRICITÀ	CALORE/FREDDO	COMBUSTIBILI FOSSILI							FONTI RINNOVABILI						
			GAS NATURALE	GAS LIQUIDO	OLIO DA RISCALDAMENTO	DIESEL	BENZINA	LIGNITE	CARBONE	ALTRI COMBUSTIBILI FOSSILI	OLI VEGETALI	BIOCARBURANTI	ALTRE BIOMASSE		ENERGIA SOLARE TERMICA	ENERGIA GEOTERMICA
EDIFICI, ATTREZZATURE/IMPIANTI E INDUSTRIE																
Edifici, attrezzature/ impianti comunali	9.338		12.083													21.421
Edifici, attrezzature/ impianti terziari (non comunali)	311.603		144.486		56.770											512.859
Edifici residenziali	151.269		362.576	3.075		7.225										524.145
Illuminazione pubblica comunale	11.968															11.968
Industrie (escluse le industrie contemplate nel Sistema europeo di scambio delle quote di emissione - ETS) e piccole e medie imprese (PMI)																
Totale parziale edifici, attrezzature/ impianti e industrie	484.178		519.145	3.075	56.770	7.225										1.070.393
TRASPORTI																
Parco auto comunale			18			184	17									218,2
Trasporti pubblici						42.792										42791,9
Trasporti privati e commerciali			2.300	13.021		210.336	155.682									381340,1
Totale parziale trasporti			2.318	13.021		253.312	155.699									424350,2
ALTRO/ I SETTORE/ I																
Smaltimento dei rifiuti																
Gestione delle acque reflue																
Altre emissioni del vostro comune																
Totale parziale altro/ i settore/ i																0
TOTALE	484.178		521.444	16.096	56.770	260.537	155.699									1.494.744

PIANO DI AZIONE	SETTORE DI RIFERIMENTO	tCO ₂ /a
	Fonti Rinnovabili ed Efficienza Energetica	83.595
	Pianificazione Urbanistica e Regolamento Edilizio	93.552
	Mobilità sostenibile per Venezia	158.203
	Informazione e formazione	0
	Luce e illuminazione efficiente per Venezia	3.544
	TOTALE BASELINE	338.893

Venice SEAP website:

www.comune.venezia.it/pattodeisindaci/

RISULTATO

riduzione emissioni nel 2020
rispetto al 2005 pari a:

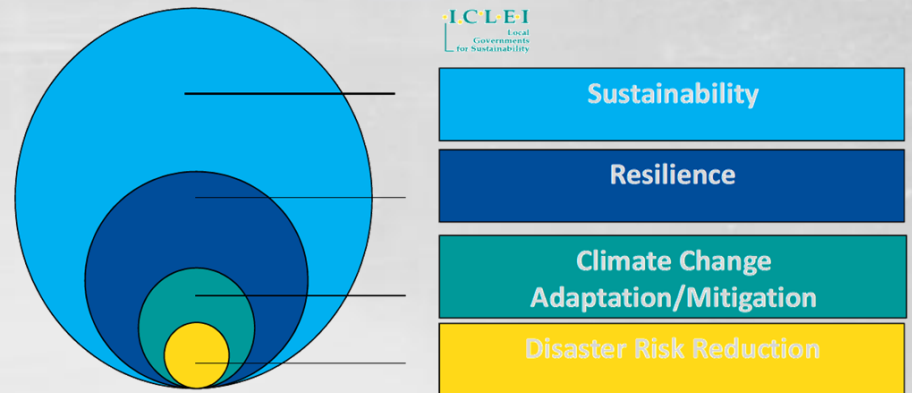
22.67%

tCO₂/a

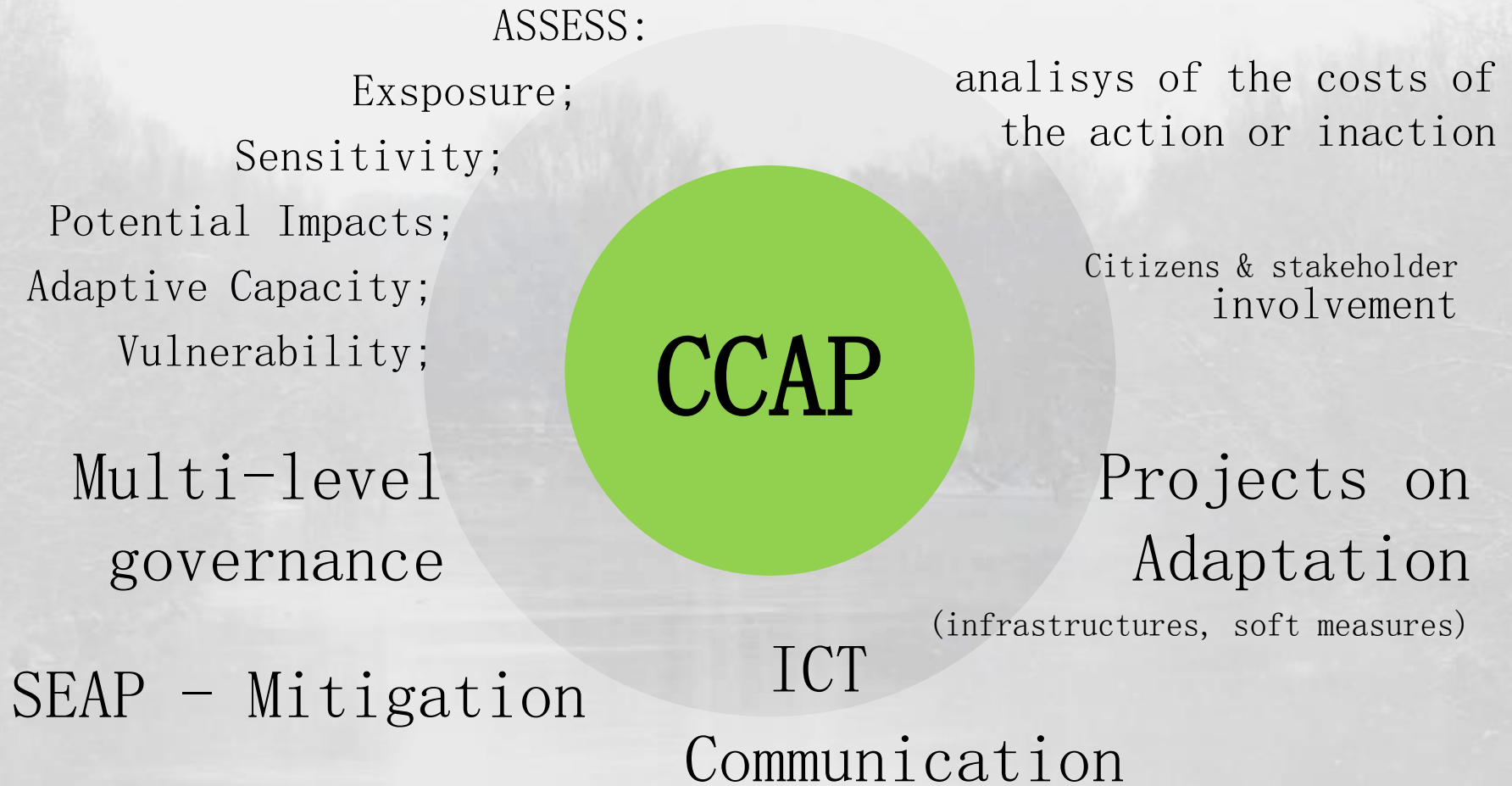
Adaptation: CCAP

The City of Venice on summer 2012 began working on the Climate Change Adaptation Plan (CCAP);

- Write a Manifesto to define the boundaries;
- Submit the Manifesto to the politic commitment;
- Working group within the city administration;
- Cooperate with scientific institutions;
- Assess risks;
- Find long-term solutions;



Adaptation: CCAP



Draft Manifesto 1/4: the GREEN CITY

[Topic: land use]

[Phenomena connected: heat waves, rising temperatures, flooding from extreme weather events, drought]

Purposes related to the risks posed by climate change can be summed up with:

- The enhancement of natural green areas and biodiversity;
- the increase of green areas multifunctional agricultural areas and urban areas;
- the elimination of land use;
- urban regeneration and the improvement of the energy performance of buildings;
- improving the quality of settlement;
- solutions for landslide risk;
- solutions to the phenomenon of heat islands;
- Promoting the sustainable use of agricultural land;
- promotion of organic food production;

Draft Manifesto 2/4: the BLUE CITY

[Topics: water, the relationship between the city, lagoon, sea and water resources]

[Phenomena connected: high waters for the increase in sea level, flooding of rivers]

The objectives to be pursued in this field of action then can be summed up with:

- the safety of the ancient city of Venice by the high tides and the mainland city from flooding;
- maintaining the lagoon morphology;
- the conservation of biodiversity in lagoon;
- the improvement of the water cycle;

Draft Manifesto 3/4: ENERGY & MOBILITY

[Topics: buildings, mobility, reducing the emissions of greenhouse gases]

[Phenomena connected: greenhouse]

The objectives to be pursued in this field of action then can be summed up with:

- the reduction of greenhouse gas emissions from residential and commercial buildings;
- the reduction of dependence on fossil fuels;
- the increased use of public transport or bicycle;
- in general, the reduction in consumption of fossil fuels for buildings and mobility;

Draft Manifesto 4/4: the GREEN ECONOMY

[Topics: industry, tourism, waste]

[Phenomena connected: greenhouse effect]

The objectives to be pursued in this field of action then can be summed up with:

- the repopulation of the area of Porto Marghera with industrial companies in the green sector;
- a closed cycle of waste that maximizes the share of recycling and reuse of materials;
- increase in the recovery of materials and energy;
- management of tourist flows that is compatible with citizens life;
- maintenance of the artistic and cultural heritage;
- the promotion of short chain in the food industry;

Thank you for
your attention

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