

Interreg
Mediterranean



CESBA MED

Interreg
Mediterranean



IMPULSE

Interreg
Mediterranean



EUROPEAN UNION

Financial and operational opportunities for
local European mediterranean stakeholders

envirobat **bcdm**

Interreg MED Programme 2014-2020



- **13** countries **57** regions in **MED**
- **10** EU MS + **3** IPA countries
- 122 million inhabitants
- 860 000 km² ➔ 15 000 km coastal area
- 14 official languages

- **ERDF** funds: **224 M€**
- **IPA** funds: **9 M€**
- **TOTAL : 265 M€** (incl. national co-financing)

Interreg MED Programme 2014-2020

Green Growth

15

Blue Growth

7

Social &
Creative

12

projects



Urban
Transport

8 projects



Renewable
Energy

7 projects



Efficient
Buildings

11 projects



Biodiversity
Protection

12
projects



Sustainable
Tourism

18
projects



Governance
PANORAMED project

83

Modular
projects

8

Horizontal
projects

91

approved
projects

176 M€
invested
so far

878
partners

Interreg
Mediterranean



IMPULSE

Integrated Management Support
for Energy efficiency
in Mediterranean
Public buiLdings



envirobat**bdm**



envirobat**bdm**





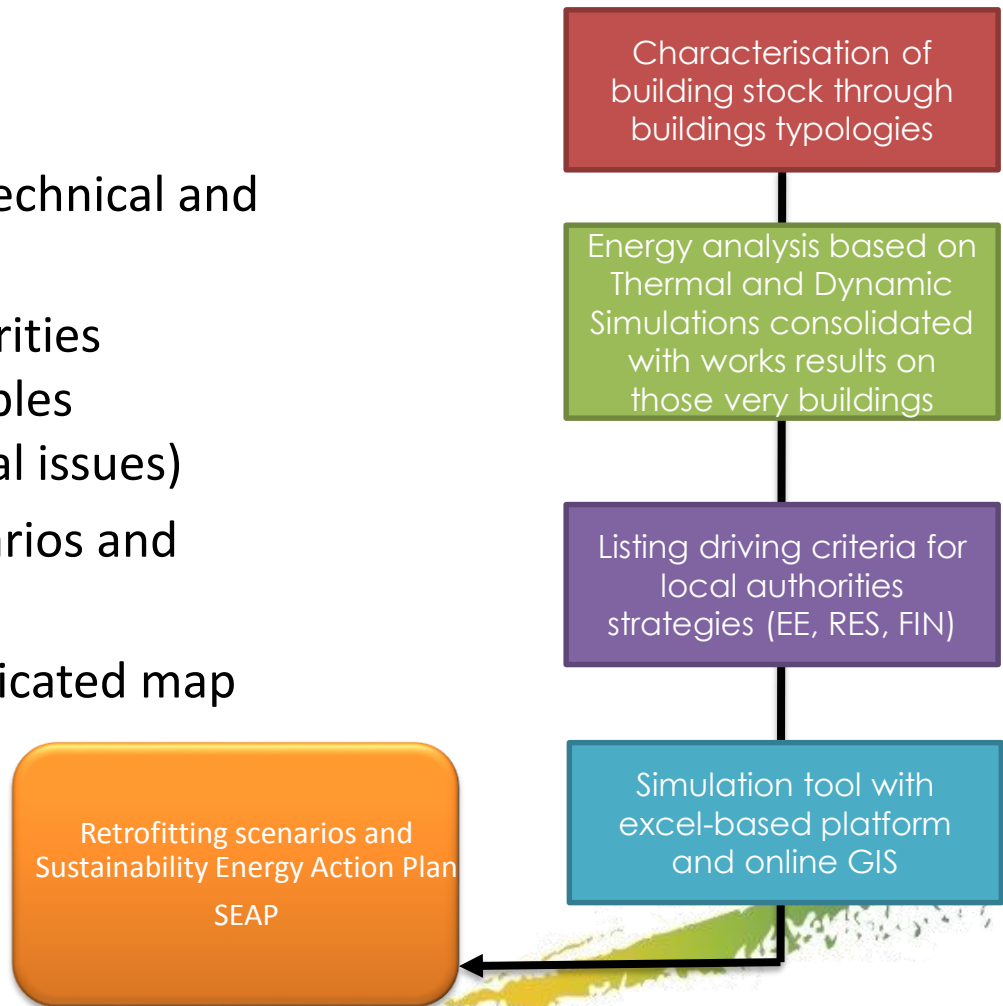
France	EnvirobatBDM, AREA Région SUD, City of Cannes
Greece	CRES, Municipality of Heraklion, RDFC
Spain	IVE, City of Elche, Anargy Agency of Alicante, Generalitat Valenciana
Italia	Municipality of Ravenna
Croatia	EIHP, City of Osijek, RDA SiB, DOOR
Bosnia and Herzegovina	City of Mostar



A common decision making supportive tool for local actions plans

Goals :

- Userfriendly
- Contextualised regarding technical and financial parameters
- Able to integrate local priorities (energy efficiency, renewables development or economical issues)
- Providing renovation scenarios and related scheduling
- Displaying results on a dedicated map (GIS system)



IMPULSEONLINE.eu

- All tools:

Towards Social Networks



FORUM IMPULSE IMPULSE

Legend
Background



- Filters



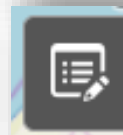
- Description sheet of the building



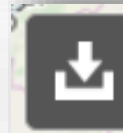
- Indicators



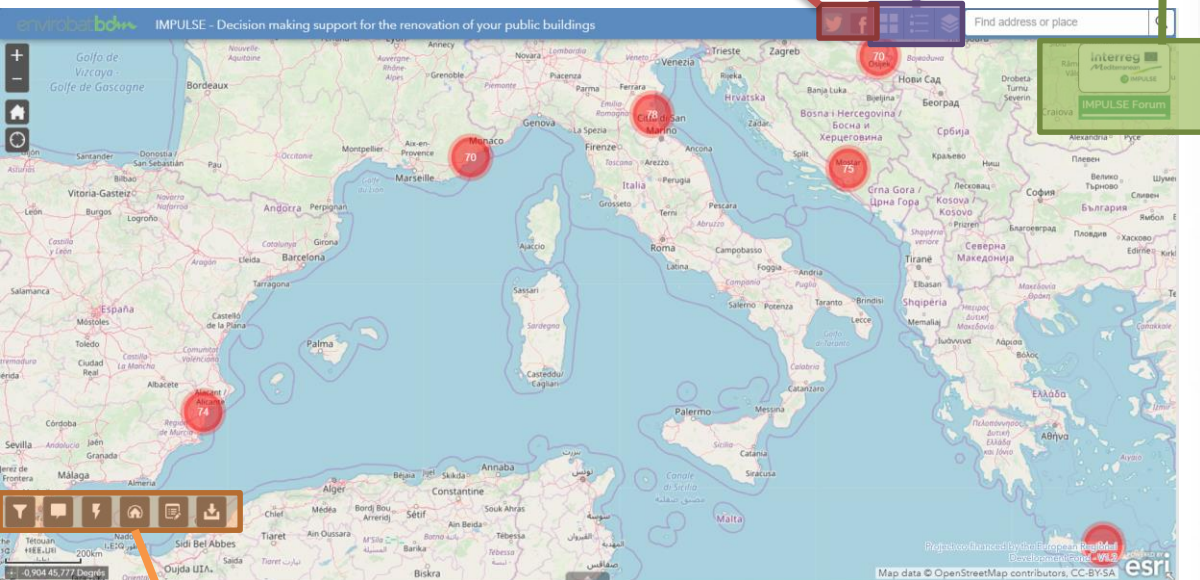
- Retrofit plans



- Entering your buildings stock « non-pilot city »



- Downloading files



Excel-based Platform Results

Name of excell PILOT CITY File:	D3.4.1 KPIs Cannes V3 FR.xlsx
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	Weight factor	Measures
54. Total investment cost per total annual energy saved - National	30	HRK/(kWh of energy saved)
7. Annual generation of Renewable Energy - kWh/m ² /yr	0	kWh/m ² /yr
12. Annual CO ₂ emissions from electricity consumption - kg/yr	20	kg/yr
6. Annual consumption of fossil fuel - kWh/yr	0	kWh/yr
53. Simple Payback period - yr	50	yr

	Option	Penalization ($\pm 30\%$)
Building Typology	PBT3	0%
Type of Retrofit	Deep retrofit	20%
RES	RES	0%

	Minor retrofit	Medium retrofit	Major retrofit	Deep retrofit
PBT1	✓	✓	✓	✓
PBT2	✓	✓	✓	✓
PBT3	✓	✓	✓	✓
PBT4	✓	✓	✓	✓
PBT5	✓	✓	✓	✓
PBT6	✓	✓	✓	✓
PBT7	✓	✓	✓	✓
PBT8	✓	✓	✓	✓
PBT9	✓	✓	✓	✗
PBT10	✓	✓	✗	✗
PBT11	✗	✗	✗	✗
PBT12	✗	✗	✗	✗
PBT13	✗	✗	✗	✗
PBT14	✗	✗	✗	✗
PBT15	✗	✗	✗	✗

Choose typologies of buildings and KPIs for your city (referenced to one of the pilot city)

Results presented in
a table programming
years by years
which actions have
to be taken

Relative retrofit area annually		5%	1%						
Total floor area			51 323 m ²						
Retrofit area annually			2 566 m ²						
Combination		Year		1	2	3	4	5	
Minor	15%	Floor area retrofitted	m ²	2 904,80	2 651,09	2 995,48	2 922,67	2 707,62	
Medium	30%	Annually investment	NC	49 144	345 373	194 288	176 103	371 019	
Major	90%	Savings - currency	NC/a	37 838	40 196	21 964	14 933	19 193	
Deep	100%	Savings - CO ₂	tCO ₂ /a	27	106	37	37	39	
		Savings - kWh	kWh/a	709 682	719 187	373 479	275 100	355 167	
1 PBT9 - Espace Miramar - Minor Retrofit				PBT3 - Villa Toscana, bleu - Minor Retrofit		PBT4 - GS Bocca Pace - Elementaire à Materielle - Minor Retrofit		PBT5 - Ecole élémentaire de la Venerie - Minor Retrofit	
2 PBT10 - Villa Demergue - Minor Retrofit				PBT11 - Marie Annexe La Locomotive - Minor Retrofit		PBT12 - Villa Trossas, bleu - Medium Retrofit		PBT13 - Espace Miramar - Medium Retrofit	
3 PBT10 - Moulin Fendille - Minor Retrofit				PBT13 - Groupe scolaire Maurice Alice - Materielle 2		PBT17 - Marie Annexe La Locomotive - Medium Retrofit		PBT17 - Groupe scolaire Marcel Pagnol - Materielle 1	
4 PBT10 - Médiaquadrôle Rofschold - Minor Retrofit				PBT17 - Orchele Les Carlettine - Major Retrofit		PBT15 - Habé-garderie les Elfes - Major Retrofit		PBT10 - Moulin Fendille - Medium Retrofit	
5 PBT10 - Place municipale Immeuble qui St Pierre - Minor Retrofit				PBT15 - Habé-garderie les Elfes - Minor Retrofit		PBT11 - Groupe scolaire la Frayère - Materielle - Minor Retrofit		PBT10 - Villa Demergue - Medium Retrofit	
6 PBT10 - Immeuble DSI - Medium Retrofit				PBT15 - Ecole maternelle Bocca Centre - Minor Retrofit		PBT11 - Groupe scolaire Miti Vagliaro - Materielle - Minor Retrofit		PBT10 - Médiaquadrôle Rofschold - Medium Retrofit	
7 PBT10 - Centre Communal d'Action Sociale - Medium Retrofit				PBT15 - Orchele les p'tits Mousses la ruche - Minor Retrofit		PBT11 - Groupe scolaire Coustale - Materielle - Minor Retrofit		PBT12 - Médiaquadrôle Rofschold - Minor Retrofit	
8 PBT10 - Hôte de Ville principal - Medium Retrofit				PBT15 - Groupe scolaire Marcel Pagnol - Materielle 1		PBT11 - Groupe scolaire St Exupéry - Materielle - Minor Retrofit		PBT12 - Groupe scolaire les Muriers - Medium Retrofit	
9				PBT15 - Ecole élémentaire de la Venerie - Minor Retrofit		PBT11 - Groupe scolaire Mutual - Materielle - Minor Retrofit			
10				PBT15 - Gymnase les Broussailles - Minor Retrofit		PBT15 - Ecole maternelle Bocca Centre - Major Retrofit			
11				PBT15 - Gymnase Pagnol - Minor Retrofit					
12				PBT11 - Groupe scolaire Maurice Alice - Materielle 1					
13				PBT14 - Groupe scolaire Maurice Alice - Materielle 1					

[illegible]

Sustainability Assessment of the built environment

CESBA MED,
ASSESSING
FOR PROGRESSING



A project built under the umbrella of the CESBA association

CESBA, Common European Sustainable Built environment Assessment, is a collective European bottom-up initiative that promotes local contextualised assessment systems as well as the setting of a common frame allowing participants to work collectively.

CESBA's mission is to facilitate diffusion and adoption of sustainable built environment principles through the use of harmonized assessment systems in the whole life cycle of the built environment.

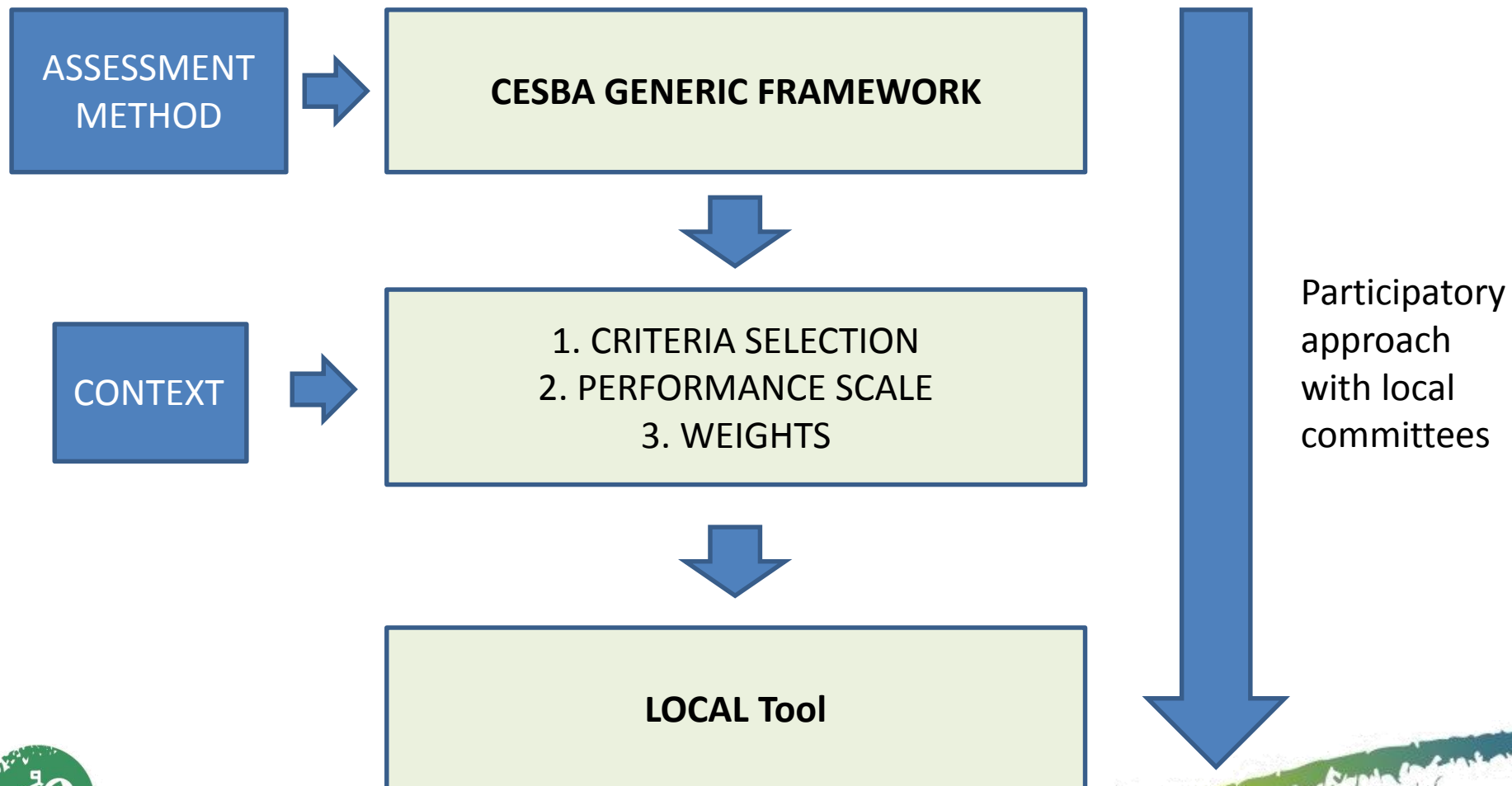
<https://www.cesba.eu/>



Partners

- City of Torino
- City of Udine
- Urban Community of Aix-Marseille
- Government of Catalonia
- City of Sant Cugat del Vallès
- Association of Common European Sustainable Built Environment Assessment(CESBA)
- iiSBE ItaliaR&D srl
- EnvirobatBDM
- Energy Institute Hrvoje Požar (Croatia)
- Auvergne-Rhône-Alpes Énergie Environnement
- University of Malta
- NATIONAL OBSERVATORY OF ATHENS

Set up of an assessment system

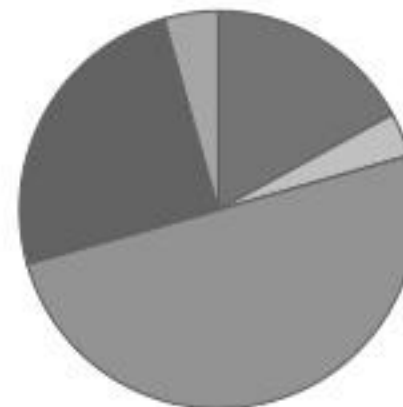


Area name

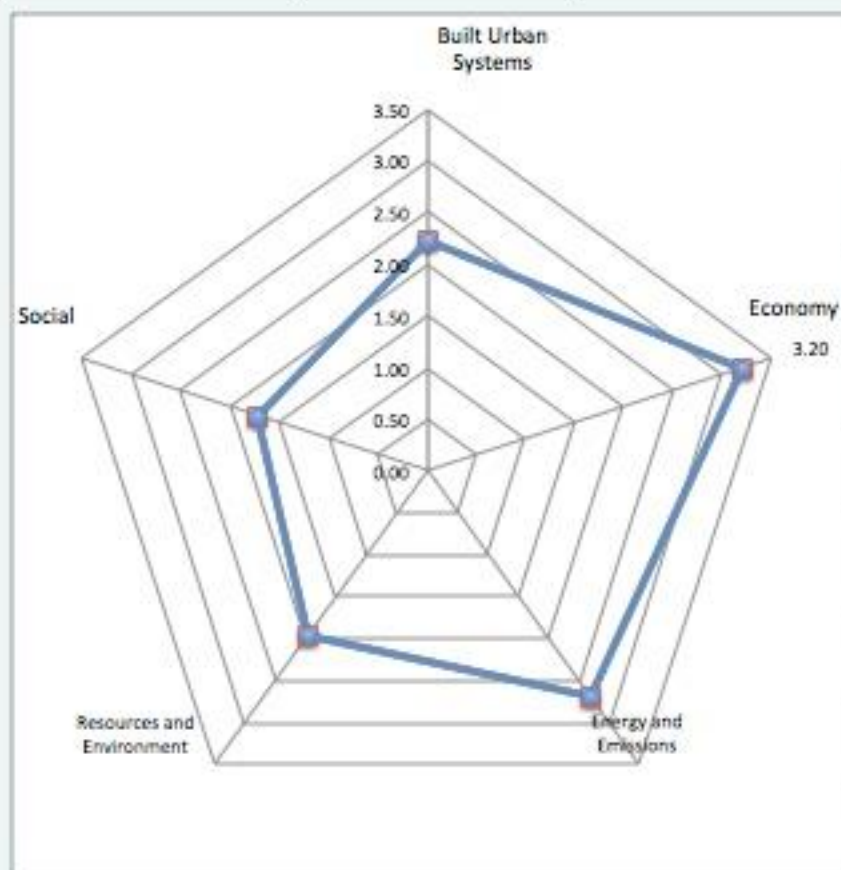
CESBA MED SNTool

Min

10Nov17



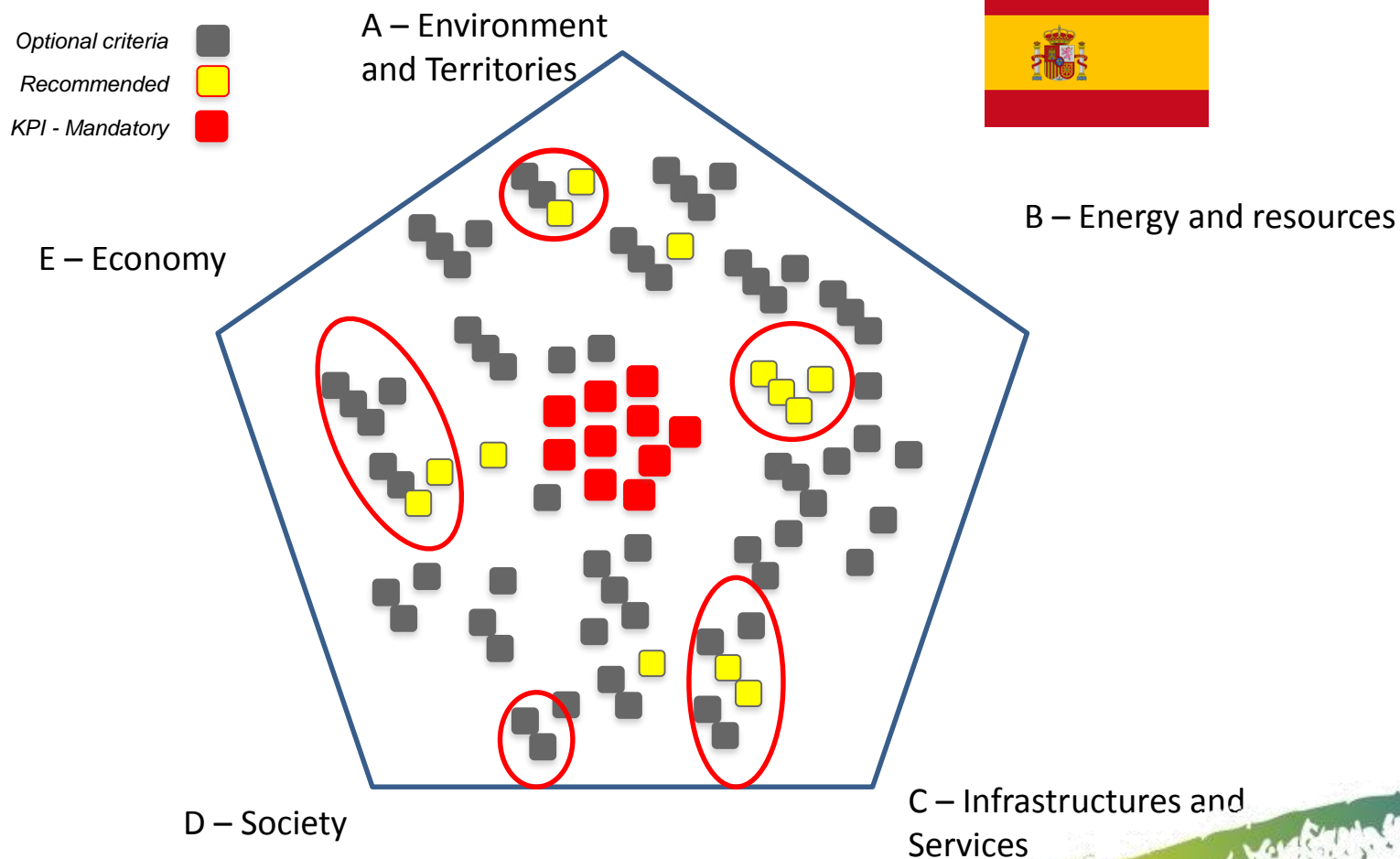
■ A ■ B ■ C ■ D ■ E



0 = Acceptable Practice; 3 = Good Practice; 5 = Best Practice

The number available criteria is:		42	The number active criteria is:		38
The number of active mandatory criteria with a score of less than 3 is:		3	Active low-level mandatory parameters:		0
Issue			Active Weights	Weighted scores	
A	I	TERRIT./ENV.	17.0%	2.23	
B	I	ENERGY/RES.	3.6%	3.20	
C	I	INFRASTR.	50.0%	2.69	
D	I	SOCIETY	24.9%	1.96	
E	I	ECONOMY	4.4%	1.73	
Weighted total score					2.41

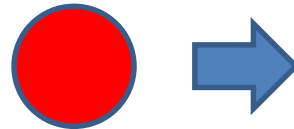
Key Performance Indicators



CESBA Passport

KPIs expressed in
absolute values.

Use: to compare the
performances and to
measure the
progress towards the
common
sustainability goals.



Find out more on CESBA

The tool is now available online on the project website and will be hosted on the CESBA Association website after the end of the project:

<https://www.cesba.eu/>



TESTS PROJECTS

6 projets diversifiés pour tester la grille:

Zac Bel Air à Avignon porté par
CITADIS

Quartier Chalucet de la
connaissance porté par TPM et la
ville de Toulon

Pole d'Echanges Multimodal de
Cagnes-sur-Mer porté par l'AREP

Ecoquartier de Volonne porté par la
commune

« Derrière la colline » à Jouques
porté par Logeo

Pôle d'activités Morandat à
Gardanne porté par la SEMAG



SUMMER COMFORT

Un rendez-vous annuel



Vient de paraître:

