



TEMPLATES STEP 1. MARKET SEGMENTATION FOR VALENCIA CITY PROJECT

<p>Market segmentation 1</p>	A. The overall strategy	Which are your targeted buildings? Which building typology should be renovated first to get greatest effectiveness in the impacts through the renovation process? Which are your targeted subjects? Which user's profiles should be targeted to get the greatest effectiveness in the onboarding and engagement with the renovation process? Which are your targeted suppliers? Which segment of suppliers should be targeted to get the greatest effectiveness in the implementation quality and user satisfaction?	<input type="checkbox"/>
	B. The top-down approach	Which are your official/ statistical data sources? How can you combine and filter them in order to qualify, quantify and measure your targets?	<input type="checkbox"/>
	C. The bottom-up approach	Which are your participatory processes? What kind of information you got from them? How can you use these data to derive/ extrapolate market behaviour, needs or expectations?	<input type="checkbox"/>
	D. The opportunity	What would move citizens into renovation? Why would move suppliers into the energy renovation?	<input type="checkbox"/>

Figure 1. Test materials for step 1

This step (and its sub-steps) aims to map demand and supply side of the **Valencian renovation market** towards designing an OSS service in its context. The document is an example of the application of the templates to Valencia (Spain) and serves as model for the transferability of the Citizen Hub concept. Additional information is available in [D2.1. Demand & supply side mapping: Methodology & results from the 2 pilots](#) and its corresponding spreadsheet.

The list of documents submitted for Step 1 in Valencia is described below:

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A. Presentation

1 Presentation			
Before starting this journey, present yourself and your friends:			
Organization	Activity	Geographical scope	Contact
VCE	providing the OSS service	Municipality of Valencia	alejandro.gomez@canviclimatic.org http://canviclimatic.org/es/
IVE	supports the network of OSS offices through knowledge, expertise and tools for deep renovation	Region of Valencia (NUTS2 ES52)	asanchis@five.es mnavarro@five.es lramirez@five.es https://www.five.es/
VRCP	main contact point with communities of individual owners	Region of Valencia (NUTS2 ES52) Castellon & Valencia (NUTS3 ES522 & ES523) Alicante (NUTS3 ES521)	gerencia@icafv.es contadorcensor@icafv.es https://aaffvalencia.es/
Unió de Consumidors de la Comunitat Valenciana	representing the demand side	Region of Valencia (NUTS2 ES52)	
Asociación Valenciana de Consumidores y Usuarios (AVACU)	representing the demand side	Region of Valencia (NUTS2 ES52)	
Ajuntament d'Onda	representing the public sector	Municipality of Onda	
Ajuntament de Gandia	representing the public sector	Municipality of Gandia	
Ajuntament d'Alcoi	representing the public sector	Municipality of Alcoi	
Diputació de València	representing the public sector	Valencia Province (NUTS3 ES523)	
Promociones e Iniciativas Municipales de Elche (PIMESA)	representing the public sector	Municipality of Elche	
Federació Valenciana de Municipis i Províncies (FVMP)	representing the public sector	Region of Valencia (NUTS2 ES52)	
Conselleria d'Habitatge i Arquitectura Bioclimàtica	representing the public sector	Region of Valencia (NUTS2 ES52)	
Basque Government - Environment, Territorial Planning and Housing	representing the public sector	Basque Country (NUTS2 ES21)	
Consejo Valenciano de Colegios de Agentes de la Propiedad Inmobiliaria (API)	representing the supply side	Region of Valencia (NUTS2 ES52)	
Asociación española de Gestores Públicos de Vivienda y suelo (AVS)	representing the supply side	Spain (ES)	
Colegio Oficial de Arquitectos de la Comunidad Valenciana (COACV)	representing the supply side	Region of Valencia (NUTS2 ES52)	
Colegio Territorial de arquitectos de Castellón (CTAC)	representing the supply side	Castellon Province (NUTS3 ES522)	
Colegio Oficial Ingenieros Industriales (IICV) - contacto VCE	representing the supply side	Region of Valencia (NUTS2 ES52)	
COGITI - contacto VCE	representing the supply side	Region of Valencia (NUTS2 ES52)	
Unión Profesional (contacto VRCP)	representing the supply side	Region of Valencia (NUTS2 ES52)	
Asociación Valenciana de Empresas del Sector Energético (AVAESEN)	representing the supply side	Region of Valencia (NUTS2 ES52)	
Asociación de empresas Promotoras de Valencia (APROVA)	representing the supply side	Region of Valencia (NUTS2 ES52)	
Federación Valenciana de Empresarios de la construcción (FEVEC)	representing the supply side	Region of Valencia (NUTS2 ES52)	
Asociación de Promotores Inmobiliarios de la Provincia de Alicante (PROVIA)	representing the supply side	Castellon Province (NUTS3 ES522)	
Plataforma Tecnológica Española de Construcción (PTEC)	representing the supply side	Spain (ES)	
ATECYR – Spanish Technical Association of Air Conditioning and Refrigeration	representing the supply side	Spain (ES)	





B. Objectives

2 Objectives	
Now, draft the main objectives pursued through the implementation of the OSS concept. This is important to orientate the search below.	
My first objective is to	boost renovation rate
Also, I would like to	ensure quality of those renovation
And, if possible, I would try to	involve and aware demand side on the renovation benefits for the long term
	eradicate energy poverty
add rows if needed...	

C. Study area

3 Study area			
This one is important to define your limits			
Do you already have a physical office in place?			
YES			
define geographical area around it:			
	name	code	comment
Meters from the office:			
Districts:	Poblados Maritimos	4625011	CP 46011 aprox
	Camins al Grau	4625012	CP 46023 aprox
	Algros	4625013	CP 46021, 46022 aprox
add rows if needed...			
The whole city:			
add rows if needed...			
NO			
define the wider geographical area under your scope:			
	name	code	comment
Districts:			
add rows if needed...			
The whole city:	Municipality of valencia	4625000	
add rows if needed...			
The whole region:	Comunidad Valenciana	NUTS2 ES52	
add rows if needed...			

D. Mapping

D.1. Object (buildings)

4 Mapping	
1 Buildings	
The objective for mapping and segment buildings is to get the greatest effectiveness in the impacts achieved through the renovation process	
First collect information about your building stock context (regulations, history, grants schemes, bureaucracy, or other programs related to buildings):	
building regulations around 1980; mandatory IEE for 50 years old buildings; EP Certificates not so extended, just when owner wants to rent or sell; good climate so usually no heating systems and bad insulation (mostly windows); protecting from sun heat should be important; mostly condominiums with difficult collective decision making; grants for some components; tax benefits for some components	





Then select your characterization criteria:

component approach for step-by-step renovation replicability	morphology approach for integral renovation replicability
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And list the attributes related to previous approach that you would need to analyse:

Attribute	availability	thresholds/ cat.	source	format	granularity	date	comments
age	Y	50	INE - cadaster	xls - shp	building		
quality	Y	6	INE - cadaster	xls - shp	building		
energy efficiency	Y	E	ICV	WMS	building/dwelling		excel table under request
roof space	Y	30	cadaster	shp	building		to be cooked in the future
heating & DHW	Y	NO; gas or butane	Valencia statistics	xls	districts		
orientation	N	SE to SW					flat city, so homogeneously distributed
TABULA	Y	AB, MFH, TH, SFH	cadaster	shp	building		
add row if needed...							

Now is time to mix, overlap, cluster: define your typologies, keeping in mind which context circumstances or potential impact related to your approach are interesting for you:

Typology	Attribute (interval)	Attribute (interval)	Attribute (interval)	Attribute (interval)	Attribute (interval)	solution COMPLEXITY	comments
old	age (> 50)	TAB (MFH)				high	for IEE analysis
all bad quality roof	quality (> 6)	TAB (TH)				low	roof intervention?
inefficient	EP (> E)					medium	for EPC analysis
no heating	heating (NO; not electric)					low	
pot PV	roof (> 30)					low	
no windows	all res					low	
sunscreen?	orient (S to W)	TAB (AB)				low	have all the orientations
add rows if needed...							

And finally, you need to quantify (& locate):

Typology	4625011 (Poblados Maritimos)	4625012 (Camins al Grau)	4625013 (Algiros)	City	Rate	IMPACT	comments
old	1.889	813	241	13.923	21	high	
all bad roof	1.288	6	0	2.061	63	very high	
inefficient	551	375	261	5.309	22	high	
'no' heating	413	20	162	2.531	23	high	all city (grants)
pot PV	5.840	3.352	1.910	59.210	19	medium	roofs, not buildings
no windows	4.441	1.339	636	28.440	23	high	all city (grants)
sunscreen?	109	100	299	2.904	17	medium	
add rows if needed...							
Res buildings	4.441	1.339	636	28.440			
Rate	29	26	47				

According to previous data, select your QUICK WINS* zones and/or typologies:

Typologies:	all bad roof	pot PV	sunscreen?			
Zones:	4625011	4625012	4625013			





D.2. Subject (citizens, owners, occupants...)

4 Mapping							
2 Demand side							
The objective for mapping and segment people is to get the greatest effectiveness in the onboarding, involving and engagement with the renovation process							
First collect information about your demographic context (regulations, history, habits, traditions, problems...):							
Then select your characterization criteria:							
Economic approach, for affordability			Social approach, for motivation			Organizational approach, for simplification	
And list the attributes related to previous approach that you would need to analyse:							
Attribute	availability	thresholds/ cat.	source	format	granularity	date	Other
age	Y	women	INE	xls	district (SC)		
gender	Y	36-60	INE	xls	district (SC)		
income	Y	<7500	INE	web Map service	district (SC)		
household size	Y	1; 2; >2 /children)	INE	xls	district		
vulnerability	Y	Y	calab.es	web Map service	district (SC)		
visits/ inquiries	Y		OSS	xls	person		
propert admin?		Y	VRCP		building		
add rows if needed...							
Now is time to mix, overlap, cluster: define your profiles, keeping in mind which context circumstances or potential drivers related to your approach are interesting for you:							
Profile	Attribute (interval)	Attribute (interval)	Attribute (interval)	Attribute (interval)	Attribute (interval)	solution COMPLEXITY	comments
local hero	visits (Q4)					low	
power couples or with children	size (<3)	children (NO)	income (high)			medium	
	size (>2)	children (YES)				high	
absent landlord						medium	
vulnerable						low	
condominium	property admin? (YES)					high	with proper tools, AF could lower this
add rows if needed...							
And finally, you need to quantify (& locate):							
Profile	Area/ District	Area/ District	Area/ District	City	Rate	IMPACT	comments
add rows if needed...							
Households							
Rate							
According to previous data, select your target profiles:							
Profiles:							





D. 3. Means (products, services, tools...)

4 Mapping							
3 Supply side							
The objective for mapping and segment suppliers is to get the greatest effectiveness in the implementation quality and user satisfaction through the renovation process							
First collect information about your construction sector context (regulations, history, market, business, traditions, problems...):							
Then select your characterization criteria:							
Process approach, for accompanying and providing customized solutions (based on the strategies to be defined from the buildings' typologies analysis). This approach is much related with the morphological approach for building characterization, intended for a full deep renovation.				Solution approach, for providing specific products and/or services to be defined from the buildings' typologies analysis. This approach is much related with the components approach for building characterization, intended for a step-by-step renovation.			
And list the attributes related to previous approach that you would need to analyse:							
Attribute	availability	thresholds/ cat.	source	format	granularity	date	Other
add rows if needed...							
Now is time to mix, overlap, cluster: define your supplier's profiles, keeping in mind which context circumstances or benefits related to your approach are interesting for you:							
Profile	Attribute (interval)	Attribute (interval)	Attribute (interval)	Attribute (interval)	Attribute (interval)	solution COMPLEXITY	comments
add rows if needed...							
And finally, you need to quantify (& locate):							
Profile	Area/ District	Area/ District	Area/ District	City	Rate	IMPACT	comments
add rows if needed...							
Households							
Rate							
According to previous data, select your target profiles:							
Profiles:							





E. Summary

3 Summary												
This last step consists of putting everything together to have a better overview												
Table												
Zones	Area (km2)	Dwellings	Residential Buildings	Population	households	Contractors	Focus Building Typology	N Building T	Focus Demand profile	N Demand p	Focus Supplier profile	N Supplier P
46011	3,968	31.135	4.441	58.440	24.255	22.097	all bad roof	1.288				
46023	2,367	30.950	1.339	64.335	25.925	22.097	pot PV	350				
46021	2,978	22.100	636	38.160	15.835	22.097	sunscreen?	299				
Energy Office Area	9,313	84.185	6.416	160.935	66.015	22.097	old	2.943				
Valencia	134,650	419.955	28.440	790.755	328.975		old; inefficient	13.923				
Valencia Reg.						22.097	grants					
add row if needed...							To solutions		To comunity		To network	

