	STEPS	ACTIONS	REFERENCES	MAIN OBJECTIVES	
ysis	Background				
•	Directive for Energy Performance of Buildings, and other UE directives/specifications	Literature	http://europa.eu/scadplus/leg/en/lvb/l27042.htm http://eur- lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32002L0091:IT:HTML	Focus on the problem:  - To understand the official background  - To analyze the main general problems (standard, how to calculate efficiency, ecc.)	1
	Standards to calculate the energy efficiency	Literature	ISO/TS 21931-1	- To understand the relations between buildings energy	ay
	National Energy Certification and evaluation systems	Literature	Sustainable Building Method (SB Method) Green Building Challange (GBC), Sistema casa qualità <a href="http://www.itaca.org/documenti/news/protocolloITACAsintesiagosto08.pdf">http://www.itaca.org/documenti/news/protocolloITACAsintesiagosto08.pdf</a> <a href="http://www.itaca.org/news+dettaglio.asp?ID=80">http://www.itaca.org/news+dettaglio.asp?ID=80</a>	efficiency and a (real or hypothetical) local energy plan	
	National law (Italian): buildings energy efficiency directives, national and	Literature	http://www.itaca.org/edilizia+sostenibile.asp		
	local energy plans	case studies analysis	http://www.itaca.org/documenti/news/audizione.pdf		
	Building energy efficiency: definitions and declensions		The property of the property o	-L	1
	Empirical models	Literature	http://www.iea-alep.pz.cnr.it/home.htm list of model create by universities and research centers	How to measure the building energy efficiency? Comparison among models (considering that the models must be understand by citizens) Comparison between certification and model (somebody gives you a certificate, you implement a model)	
	Real data models	Literature	on site sensors: <a href="http://smartlife.sentec.co.uk/smart-energy-monitoring.php">http://smartlife.sentec.co.uk/smart-energy-monitoring.php</a>		
	Other possibilities	Literature / Interview	http://www.e-u-z.de/ the kit for measure		
	Model critical analysis				
/ _	Data Quality analysis	Literature		Define a model to measure the energy efficiency, citizen	1
	Data Quantity analysis (territorial and environmental data that influence the measurements)  Data understanding (the target are the people)	Literature	Chris Butters, Sustainable Value Map <a href="http://www.sust.org/pdf/chris_butters.pdf">http://www.sust.org/pdf/chris_butters.pdf</a>	oriented, some questions are: - Is the energy efficiency equal for everybody? - Do the models consider the dwellers behaviour? - Do the models consider the external factors (territorial/environmental)?	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Data representation			- Do the models consider the buildings life cycle?  At the end of this step I'll probably choose a model that will be the starting point of my model	
n	Redefining an active energy efficiency participation model				
	Actors contribution to create new data	Literature/ Interview		This phase is very important to design the experiment, I'll do some interviews in loco to analyze in deep how to build a participation strategy	
	Actors contribution to collect data and information (considering the same problems of data quality)	Literature/ Interview	Possible Case studies: Hedebygade, Copenhagen, Denmark Solar buildings Gårdsten, Gothenburg, Sweden**		
	Strategy to participate <b>using NT</b> (using multiplication rather than addition)	Literature/ Interview /design	http://www.mysusthouse.org/game.html	How to involve citizen o participate	
	From a model for measuring to a model for improving (design)	Literature/ Interview /design			
	Building an energy plan by scenarios				
	From the participation model to community scenarios				
	The technological platform architecture to manage the model and the scenarios	Design			
xperiment					
	First scenario: improving the building energy efficiency	Experiment			
	Second scenario: distributed /democratic energy	Experiment			

\*\*Solar buildings Gårdsten, Gothenburg, Sweden:

"In another renovation project, this time in Sweden, Solar Buildings Gårdsten, individual metering was also used as a solution for affecting the consumption of the inhabitants. Space heating is metered by room temperature measured in living rooms and bedrooms. Temperature measurements are transmitted from this sensor to a memory in the stairwell. Information from here is passed on to a receiving station, where all the measurements are processed. The final result shows how warm it is and how much the tenant will pay. The tenant decides on the temperature in the apartment with the aid of thermostats on the radiators. An incentive was made that the basic rent is based on a temperature of 21 degrees. If the tenant wants it warmer it will cost extra, if the tenant wants it cooler there will be a rebate. Similarly, measurement of cold water, hot water, and electricity are taken and reported.

DATA AND ARCHITECTURE T HOW RUST BE A PLATFORM? ACTOR O RIENTED

TO INFORM AND BE INFORMED - TO BE RESPONSIBLE Arasing the awareness seeingh Sievie of the au

TO BE CONSCIOUS > 10 TO BUILD NEW RUBLIGHING RAW DAFA · Keasury · Collecting data . Trypoming each others

SCENA RIOS · understanden He deferent contributions . To stone Jake miepaly data · h mu lairen of defension. · suldry personal scenes. 03

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