

REMOURBAN		UNITED KINGDOM		ACTIVE
<b>BUSINESS MODEL CATEGORY</b>		One Stop Shop Model provided by Public-Private-Partnership		
<b>TARGET BUILDINGS RENOVATION</b>		Single-family to multi-family houses, built from 1900 to the 70s		
<b>DESCRIPTION</b>		<p>REMOURBAN (REgeneration MOdel for accelerating the smart URBAN transformation) is a smarty city project and its ultimate goal is to design and deliver a model to show how sustainability can be integrated into the regeneration of towns and cities to develop 'Smart Cities'. The REMOURBAN model will take advantage of the crossover between energy, mobility and ICT to develop a new method for developing smart cities.</p> <p>The project triggers strategic partnerships between innovative organisations both public and private and it draws on pioneering solutions from the Energy, ICT, and Mobility sectors in three "Lighthouse" cities, identified as demonstrators, Valladolid (Spain), Tepebasi/Eskisehir (Turkey) and Nottingham (UK), and two Follower cities, Seraing (Belgium), and Miskolc (Hungary), as replicators.</p> <p>In Nottingham the project is a partnership between NCC (Nottingham City Council), NTU (Nottingham Trent University), NCH (Nottingham City Homes), NEP (Nottingham Energy Partnership), INFOHUB Ltd. and SASIE Ltd. (two local SMEs).</p> <p>The project is focusing on a variety of property typologies in Nottingham within the Sneinton area ranging from single-family to multi-family houses, and in age, from 1900 to the 70s. A large number of the properties (65%) in the area are social housing, owned by Nottingham City Council (public owner) and managed on their behalf by Nottingham City Homes. However, the energy efficiency retrofit work will be open to all tenures, including private owners, within the defined streets and property types so that households, regardless of ownership, will benefit from the project.</p> <p>In each of the retrofitted property a centralized intelligent control system will be installed, which will optimize energy use and storage to suit predicted demand profiles. The project will include both Energy Efficiency measures (mainly walls insulation) and renewable energy technologies (RET) measures: the connection to a district heating pipeline. The intervention will use a single buffer vessel at each of the low raise blocks to act as a thermal storage unit regarding the distribution into the individual flats. The thermal storage unit will be connected to larger scale solar thermal installation on the roof of the blocks to add additional onsite generation from renewables.</p> <p>The project will address at the same time the cities of Valladolid in Spain, Nottingham in United Kingdom and Tepebasi/Eskisehir in Turkey. Two follower cities, Seraing in Belgium and Miskolc in Hungary, will act as model for European cities in replicating the model.</p>		
<b>SERVICE PROVIDER</b>		Municipality		
<b>KEY PARTNERS IN THE SUPPLY CHAIN</b>		Contractors: RET installer and construction company		
<b>COST AND REVENUES</b>		The costs for the service providers are that related to the renovation work (prefabricated components and heating plant), salaries, etc. Revenues are based on a standard remuneration for each intervention.		
<b>CONTACTS</b>		<p><b>Website:</b> <a href="https://www.ntu.ac.uk/research/groups-and-centres/projects/remourban-city-demonstrator-project">https://www.ntu.ac.uk/research/groups-and-centres/projects/remourban-city-demonstrator-project</a></p> <p><b>Email:</b> <a href="mailto:Ruth.Stallwood@nottinghamcity.gov.uk">Ruth.Stallwood@nottinghamcity.gov.uk</a></p>		



## SWOT Analysis

<p><b>S</b></p> <ul style="list-style-type: none"><li>• Strategic partnership between public and private sectors, with special benefit for SMEs proposing innovative solutions in the field of RET or EE measures</li><li>• Central control of the project by the public authorities</li></ul>	<p><b>W</b></p> <ul style="list-style-type: none"><li>• For a successful implementation, this business models requires strong involvement of the different stakeholders , in particular of the public building owner</li><li>• Possible increase of time and costs associated to the strong involvement required by all the players involved</li><li>• Higher risk associated to the collaborative approach of the model</li></ul>
<p><b>O</b></p> <ul style="list-style-type: none"><li>• Large scale retrofitting projects, targeting both public building and private building belonging to the neighboring area, permitting strong impact for the project and high visibility</li></ul>	<p><b>T</b></p> <ul style="list-style-type: none"><li>• Part of the model success is based on the responsiveness of other building owners interested to renovate their house, success of involvement has to be carefully evaluated</li><li>• Scarce adhesion of building owners in the area could affect the whole results achieved by the project</li></ul>

