Glasgow’s Smart City Journey & H2020 SCC-1-2016 RUGGEDISED Project

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Glasgow City Council, Project Officer
“The smart city can be defined as the integration of data and digital technologies into a strategic approach to sustainability, citizen well-being and economic development.”

Scottish Government, 2014
Glasgow’s Smart City

• Glasgow has been working on ‘Smart City’ projects for many years now
• First funding was secured in 2013 from Innovate UK
• £23 million awarded for the creation of ‘Future City Glasgow’
• Aim was to increase safety, liveability and sustainability of Glasgow through use of technology
4 demonstration projects

- Intelligent Street Lighting
- Active Travel
- Energy Efficiency
- Integrated Social Transport
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731198. The sole responsibility for the content of this document lies with the Ruggedised project and does not necessarily reflect the opinion of the European Union.
GLASGOW’S SMART STREET

Through RUGGEDISED, Glasgow will continue on its journey – transforming from an industrial city to a sustainable, resilient and low carbon city, focused on the future, growing from its past, and delivering a greener and smarter city.
Glasgow’s Smart Street.
## Project Deliverables

<table>
<thead>
<tr>
<th>Glasgow Deliverables</th>
<th>WP</th>
<th>Owner</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4.1 Business Model allowing buildings selling heat</td>
<td>4</td>
<td>GCC</td>
<td>M17</td>
</tr>
<tr>
<td>D4.2 Business Model allowing use of battery storage as grid balancing mechanism</td>
<td>4</td>
<td>SIE</td>
<td>M36</td>
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<tr>
<td>D4.3 Business Case allowing power transfer from CHP to battery</td>
<td>4</td>
<td>GCC</td>
<td>M36</td>
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<tr>
<td>D4.4 Plan ready for innovative renewable installation (netting off energy generation against consumption)</td>
<td>4</td>
<td>GCC</td>
<td>M36</td>
</tr>
<tr>
<td>D4.5 Decision support Platform (ICT solution) for informing strategy and decision making</td>
<td>4</td>
<td>GCC</td>
<td>M36</td>
</tr>
<tr>
<td>D4.6 Implementation Report Glasgow (1/3)</td>
<td>4</td>
<td>GCC</td>
<td>M36</td>
</tr>
<tr>
<td>D4.7 Deployment of EV chargers in city centre car park</td>
<td>4</td>
<td>GCC</td>
<td>M40</td>
</tr>
<tr>
<td>D4.8 Street lights (70,000) replaced by intelligent LED columns</td>
<td>4</td>
<td>GCC</td>
<td>M40</td>
</tr>
<tr>
<td>D4.9 Implemented Management system to integrate domestic properties into a 'smart grid'</td>
<td>4</td>
<td>SIE</td>
<td>M42</td>
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<tr>
<td>D4.10 Implemented Management system to integrate non-domestic properties into a 'smart grid'</td>
<td>4</td>
<td>SIE</td>
<td>M42</td>
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<tr>
<td>D4.11 Analysis tools on LED street lighting implemented (to support demand-side management)</td>
<td>4</td>
<td>SIE</td>
<td>M48</td>
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<tr>
<td>D4.12 Implementation Report Glasgow (2/3)</td>
<td>4</td>
<td>GCC</td>
<td>M48</td>
</tr>
<tr>
<td>D4.13 Implementation Report Glasgow (3/3)</td>
<td>4</td>
<td>GCC</td>
<td>M60</td>
</tr>
</tbody>
</table>
Designing smart, resilient cities for all

EV Charging
Dashboards under the theme of EV charging.

EV Charger Data
Real Time Traffic Analysis across Glasgow of EBV Charger Data. Currently uses only data from Duke Street.

Transport
Dashboards under the theme of transport.

Traffic Congestion around Car Parks
Real Time Traffic Analysis across Glasgow. Looks at congestion, flow and a view over time.

Analysis
Analytical environment.

Spatial Analysis
Spatial analysis of a dataset.

Pollution Traffic Analysis
Analysis of pollution with traffic data in Glasgow City Centre.

Energy & Environment
Dashboards under the theme of the environment.

PV Potential
Analysis of potential to deploy PV across City Parking estate.

Battery Storage Potential
Analysis of potential to deploy Battery Storage across City Parking estate.

Public - Parking / EV Charging Availability
Dashboards that could be used to display information to the public.

Parking & EV Charger Availability
Map showing current parking & EV charger availability.

Charge Place Scotland
A link to Charge Place Scotland (Transport Scotland EV resource).

City Parking (Glasgow) LLP is a wholly-owned subsidiary of Glasgow City Council, formed in June 2007 to manage and develop the off-street public car parks previously operated by the Council. Our status as an autonomous company with its own Board and Managing Director helps us to bring flexibility and innovation to delivering quality parking services to the business community and public alike.

Find out more at http://www.cityparkingglasgow.co.uk/
Innovation Platform: Setting up an institutional cooperation arena for partners to foster cross-border work within and between relevant stakeholders.
• All smart solutions and technologies should be able to be up-scaled across the city and also other cities

• When thinking of new solutions, consider whether it is possible to develop them within your organisation, instead of buying ‘off the shelf’ products

• Collaboration is the key to success
Thank You
CONTACT

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