Smart Sustainable Districts

The Value Proposition
The Smart Sustainable Districts (SSD) programme works closely with highly ambitious districts across Europe to identify solutions to their sustainability and climate change challenges.

The SSD team and district partners co-develop integrated / systemic solutions to be applied with measurable environmental, social and economic benefits.

These solutions provide exemplars that can also be replicated city-wide or in other districts.
The Challenge: Smart and Replicable

- The size and complexity of cities currently makes it extremely challenging to deliver city-wide integrated solutions.
- Many current and future challenges can be met by moving away from siloed planning to integrated solutions.
- Integrated approaches at a district and neighbourhood can deliver real (shared) value.
- The ability to replicate solutions is also a key goal.
Building the District Team

- Key Account Manager – fundamental to approach
- Broker expertise to match district needs
- 16 SSD expert partners
- Plus access to >200 other C-KIC partners
- Expertise external to C-KIC sought as needed
- SSD team also works with the District team’s experts
Our Approach

- Opportunity framing & prioritisation
- Co-development of integrated solutions
- Solution delivery
- Capture and disseminate feedback

District Collaboration
<table>
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<tr>
<th>OFFER to Districts</th>
<th>ASK of Districts</th>
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| **1. Key Account Manager**  
Local C-KIC partner to help define challenges and link to SSD and wider C-KIC offer | **1. Collaboration - development**  
Utilises development & operations budgets to pilot high impact solutions |
| **2. SSD Network**  
- Shared platform for learning and collaboration  
- Demand-led challenges  
- EU/national funding bids  
- Market scanning  
- Access to C-KIC partner innovations | **2. Collaboration – partners**  
Bring district’s best people to the table to identify shared priority opportunities and co-develop solutions |
| **3. Developing integrated solutions**  
The districts with highest quality/impact opportunities offered most focus from SSD team | **3. Knowledge sharing**  
Bring real world demand-side feedback to Climate-KIC and be open to sharing & learning |
| **4. Publicity**  
Promotion of SSD Flagship and Network activity |
Utrecht Central Station

Total area: 90 Ha
Investments: € 3.2 Billion

**Phase 1:** Public transport terminal, in development (ready 2020)

**Phase 2:** Jaarbeurs area, in planning phase (ready 2030) main Dutch exhibition & conference centre, 100,000m², 2.5M visitors/annum
Investment: > € 300M

‘Restore, Connect and Give Meaning’
Utrecht Central Station

Opportunities for co-development:
1. Hybrid systems for heating and cooling at district level
2. Local PV-power production combined with local smart solar EV-charging
3. Green spots, cool spots, rooftop farming, water retention
4. Efficient & clean personal mobility
Queen Elizabeth Olympic Park

- Regeneration of urban built environment on 560 acre park including 65 km of waterways and 111 acres of woods and other habitats
- Global exemplar with 15,000 visitors per week
- €12 billion invested up to 2012 Games
- €15 billion estimated investment 2015 – 2030
- Delivering:
  - 5 new neighbourhoods
  - 12,000 new homes
  - 3 schools, 9 nurseries
  - 7 community spaces
  - 3 health centres
  - 9 million sq. ft commercial space

VISION

A pioneering model of urban regeneration: sustainable infrastructure for sustainable lifestyles
QEOP Priority Areas

- Priority Areas for co-development:
  - Data platform(s) delivered to support park operations, future development and allow 3rd party app development
  - Optimising the district energy system, to increase resilience, further decarbonise supply and maximise local benefits
  - Building performance optimisation within the context of whole district operation
  - Smart Park / Future Living – utilising digital technologies in areas such as wayfinding, IoT, community building and mobility

- Key outcomes:
  - More efficient venue/park operation
  - More efficient new development
  - Enhanced user experience
  - Learning to support replication and scale up
Collaborating with Districts
Key drivers of impact for Smart Sustainable Districts:
- Integration
- Factor 4 thinking
- Replicability
- Scalability
- Measurement via KPIs
- Business-led approach

FACTOR 4 - “...fourfold increase in ‘resource productivity’, brought about by simultaneously doubling wealth and halving resource consumption”
Amory Lovins & Ernst Weizsacker, 1997
Smart Sustainable Districts

THANK YOU