City of Helsinki in Horizon2020 SCC-1 Lighthouse Call

17.4.2014

Scope of SCC1-call

- Identify, develop and deploy **replicable, balanced and integrated** solutions in the energy, transport, and ICT actions
- Creating **partnerships between industries, academics and cities**, empower citizens and ensure the replicability of the solutions, **ensure the funding from various sources**
- These solutions at the intersection of the three sectors will have a holistic approach and are still facing **first mover risk**.
- These will be the **lighthouse projects** as identified by the Communication on Smart Cities and Communities
- Lighthouse projects will target primarily **large scale demonstration** of replicable SCC concepts in city context
- **Existing technologies** or very near to market technologies (TRL 7 and more) will be integrated in an innovative way.

Objectives of SCC-1 Call

- to successfully demonstrate in **partnerships between cities and industry *substantial, innovative, integrated and replicable solutions* in ambitious lighthouse projects**, **aiming at the realisation of low energy districts, integrated infrastructures and sustainble mobility**. These solutions make the urban system more efficient while offering **better quality of life to its citizens;**

- to ***monitor the performance and impact*** of solutions during implementation, and evaluate them on a regular basis, in order to support evidence-based decision-making on plans and investments, and to assess the suitability of the chosen solutions for other European cities, given differences in local situations and economic conditions;

- to **create *active and involved communities of practice*** around smart solutions of cities in different stages of the smart innovation process (early adopters, early majority, etc.);

- to prepare the uptake of the demonstration results in ***replication plans, financial-economic models and roadmaps*** for follower cities and guidelines for other European cities;

- to **contribute to *economic growth and business opportunities*** by stimulating more widespread application of smart solutions.

Expected impacts

Impacts on implementation and investments and society

- Deploy wide-scale, innovative replicable and integrated solutions in the energy, transport, and ICT;
- Trigger large scale economic investments with the repayment of implementation costs in acceptable time lines (to facilitate the bankability of the projects);
- Create stronger links between cities in Member States with various geographical and economical positions through active cooperation.
- Reduction of energy bills for all actors and especially for citizens and public authorities;
- Increase quality of life by creating local jobs (that cannot be delocalised) in cities;
- Increase (improve) air quality.

Impacts on energy and CO2-emissions

- Increase the energy efficiency of districts and of cities and foster the use of renewables and their integration energy system and enable active participation of consumers;
- Increase mobility efficiency with lower emissions of pollutants and CO2;
- Reduce the energy costs;
- Decarbonise the energy system while making it more secure and stable;

Scale-UP

Three cities as Lighthouses

Amsterdam –

Knowledge Mile and Amstel 3

Helsinki - Kalasatama

Lyon – Part Dieu

Follower cities:
Warsow
Athens
Rome

List of Participants 17.4.2014

List of full participants

Participant No *	Participant organisation name	Acronym	Country
1 (Coordinator)	Municipality of Amsterdam	AMS	NL
2	Municipality of Helsinki	HEL	FI
3	Municipality of Lyon	LYO	FR
4	City of Warsaw		
5	City of Athens		
6	City of Rome		
7	Netherlands Organisation for Scientific Research TNO	TNO	NL
8	VTT	VTT	FI
9	AIT	AIT	AUS
10	Steinbeiz Europa Centrum	SEZ	DE
11	ICLEI	ICLEI	DE
12	Geodan		
12	Alliander		
13	Thales		
14	Siemens		
15	ABB		
16	SRV		
17	Alstom		
18	EDF		
19	ATOS		
20	Philips		
22	Hogeschool Amsterdam		
23	Waag Society		

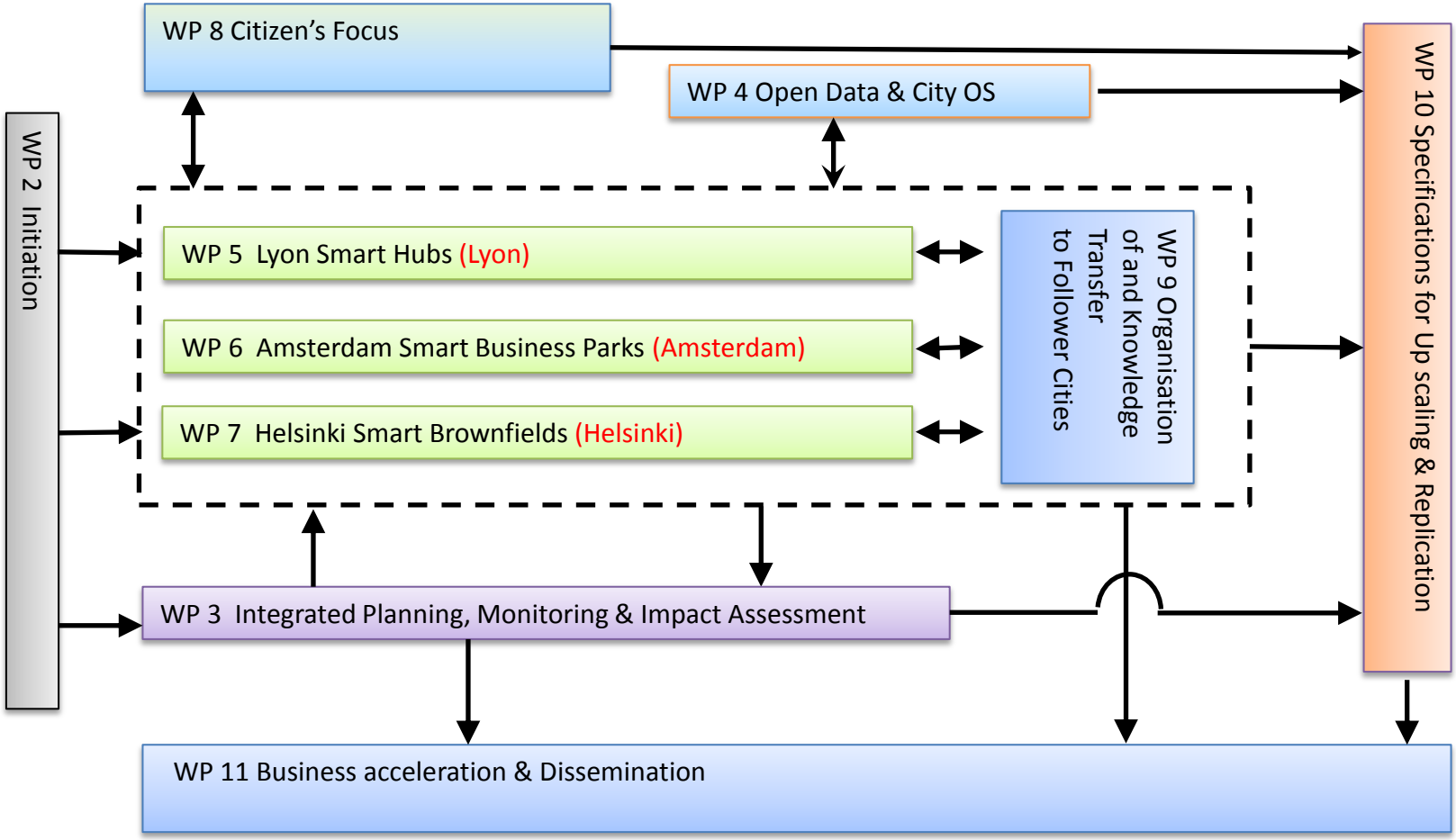
Provisional Consortium Budget

WP #	WP leader	WP title		Budget
5	LYON	Smart Hubs	20	€ 4 000 000,00
6	AMS	Smart Business Parks	20	€ 4 000 000,00
7	HEL	Smart Brownfields	20	€ 4 000 000,00
9	ICLEI	Know Transfer Followers	10	€ 2 000 000,00
3	TNO	Integrated planning, monitoring and impact ass	6	€ 1 200 000,00
4	VTT	City OS	10	€ 2 000 000,00
8	ENOLL	Citizen focus	4	€ 800 000,00
10	ATOS	Replication and Upscaling	5	€ 1 000 000,00
11	SEZ	Dissemination & Exploitation	5	€ 1 000 000,00
1	AMS	Project Man	7	€ 1 400 000,00
2	???	initiation	2	€ 400 000,00
			109	**€ 21 800 000,00**
				64,2%

Consortium timeline

Activity	F2F 6.Feb	telco 13.Feb	telco 20.Feb	telco 27.Feb	F2F 11.Mar	telco 18.Mar	telco 25.Mar	telco 1.Apr	F2F 8-9 apr	telco 15.Apr	telco 22.Apr	telco 29.Apr	deadline 7.May
Consortium													
Selection of consortium members													
LOI ready													
Members to confirm with Letter of intent													
Proposal													
Section 1: Defining concept, relation and objectives													
Section 1: Ambition													
Section 2: Impact													
Defining WBS and WP leaders													
WP Leaders to prepare WP descriptions													
Agree WP contents and participants													
Agree on Milestones													
Section 3.1 workplan													
Section 3.2 Management structure and procedures													
Section 3.3 Consortium as a whole													
Section 3.4 Resources to be commited													
Defining partner profile													
Writing partner profile													
Section 5													
First draft													
Reviewing													
Budget													
PM contributions proposal													
Partners provide contributions													
Overall PM contributions / costs analysed and reviewed.													
ECAS													
Partners to provide PIC to coordinator													
Coordinator to open proposal in ECAS													
Partners to fill in A2 forms													
A2 forms completed													
Partners to fill in A3 forms													
A3 forms completed													
First submission													
Final submission													

Work Package-Breakdown



Proposed partners in WP's

WP	Lead	Partners
3 – Integrated Panning, Monitoring and Impact Assessment	TNO	Geodan, AIT, Alliander, VTT, Siemens, City of Amsterdam, City of Lyon, City of Helsinki,
4 – Open data & City-OS	VTT	Alstom, Thales, EDF, Siemens, Philips, TNO,
5 - Lyon	Grand Lyon	Alstom, Thales, EDF
6 - Amsterdam	City of Amsterdam	Philips, Alliander, HvA, Geodan, TNO, de Waag
7 - Helsinki	City of Helsinki	ABB, Siemens, VTT, HELEN, Forum Virium
8 – Citizen Focus	ENoLL	Waag, Forum Virium, City of Lyon, Warsaw, Athens, Torino, VTT, AIT,
9 – Follower Cities	ICLEI	Warsaw, Athens, (Torino), City of Amsterdam, City of Lyon, City of Helsinki, TNO
10 – Specifications for Upscaling and Replication	ATOS	Steinbeis, (industrypartners)
11 – Business Acceleration & Dissemination	Steinbeis	ENoLL, Startup Bootcamp,

City led Work packages

Scope: Identify, develop and deploy replicable, balanced and integrated solutions in the energy, transport, and ICT actions through partnerships between municipalities and industries.

WP 5 Lyon Smart Hubs (Lyon)

WP 6 Amsterdam Smart Business Parks (Amsterdam)

WP 7 Helsinki Smart Brownfields (Helsinki)

Prerequisites:

- Availability of ambitious Integrated plan and implemented projects
- Open data strategy
- Partners from industry, SME, RTO
- Follower city

Tasks:

- Requirements for system integration
- Organisation of relevant stakeholders
- Rollout low-energy districts, integrated infrastructure, mobility
- Testing/fine-tuning
- Monitoring & evaluation

Deliverables:

- Implemented and evaluated Lighthouse project
- Data input to monitoring
- Local smart community
- Contribution to replication plan