



# URBAN CO-CREATION DATA LAB

Beneficiaries:



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# AGENDA

- Project status update
- Challenges presentation and data available
- Co-Creation Data Labs process methodology and calendar

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MODERNIZAÇÃO  
ADMINISTRATIVA  
PRESIDÊNCIA DO CONSELHO DE MINISTROS



Barcelona  
Supercomputing  
Center  
Centro Nacional de Supercomputación



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# Project status update

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# 6 Activities

Activity	Title	Objective
1	Data preparation and open data infrastructure assessment	To prepare data and open data infrastructure for Smart Management Platform
2	Services analytics refinement and HPC preparation	To deploy the identified services in the co-creation labs and to connect them with the HPC infrastructure and with, the applications and the city services to be provided to users and stakeholders
3	Co-Creation Labs: perform experiences and validation by cities	To validate the Co-Creation Labs proposed services in selected cities (Lisboa + 2) and adding new use cases
4	Communication of results	To maximise dissemination of the Action results to a wide audience of researchers, city authorities, business organizations, EC and citizens
5	Future sustainability	To ensure that Action results are exploited beyond the duration of the Action and will be sustainable in long-term
6	Project Management	To ensure the quality levels of the Action's results through the continuous monitoring of the Action activities and their proper execution, the coordination of the work plan, and the optimum coordination of the beneficiaries

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# Activity 1

## Data Preparation and open data infrastructure assessment

Starting date	Indicative ending date	Milestone (MS)	Means of verification
01/10/2019	31/12/2019	MS 2 - Data sets and requirements defined for all 3 cities	Data sets definition and requirements definition completed and available for all 3 cities
01/10/2019	30/03/2020	MS 4 - Service and Use Cases full definition for all 3 cities	Service and use cases full definition completed and available for all 3 cities

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# Activity 1

## Data Preparation and open data infrastructure assessment

Task	Output	Partners Role				
		NOVA IMS	CML & Cities	AMA	NEC	BSC
1.1 Data definition and requirements definition	Data sets defined and harmonized for the 5 services, with stakeholders and end-users' needs and requirements definition	Lead and orient data sets and requirements full definition	Define data sets and requirements		Define technical requirements	Define requirements regarding air pollution and social media
1.2 Services and Use Cases refinement	Service and Use Cases full definition	Lead and orient Service and Use Cases full definition	Participate in use Cases full definition			Work in Service and Use Cases refinement regarding air pollution and social media

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# Challenges presentation and data available

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# Five challenges to be addressed

## **MOBILITY**

Evaluation and prediction of patterns and behaviors of micro mobility

## **WASTE MANAGEMENT**

Identification of patterns/profiles and solid waste production prediction

## **PARKING**

Identification of patterns and prediction of parking in the city of Lisbon to improve surveillance efficiency

## **POLLUTION**

Elaboration of predictive models for the propagation of liquid and atmospheric pollutants

## **CROWD MANAGEMENT**

Evaluation and elaboration of models for predicting the impact of major events

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# Co-Creation Data Labs process methodology and calendar

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# Urban Data Labs

- For each challenge will be organized a thematic urban data lab (5 in total)
- Selected multidisciplinary experts will work together to discuss and present their analytical methodologies and models, to show the best practices and improve the methodology that will be implemented in each specific challenge of the Urban Co-Creation Data Lab project
- The Urban Data Labs will be directed at the academic community but also to municipalities and their technical staff, as well as companies and citizens (how?).
- The results of the Urban Data Labs will be promoted in the project network and published in a scientific journal

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# Provisional calendar

<b>Invitation content, website Urban Data Lab page, application form</b>	Reference terms of the <b>five</b> challenges, access conditions, evaluation criteria. Selection of the jury that will assess the applications from the candidates that will apply to the Urban Data Labs	15 March	List of panel members for Challenges
<b>Public announcement/engagement of the Challenges and Labs at a European level</b>	Public disclosure of the Challenges and Labs at a European level	60 days before the date	Online publication project network
<b>Public call for applications to the Labs</b>	Project site adapted for on line applications Public call for applications	55 days before the date	Site specific section for applications submissions Online publication project network
<b>Creation of a list of applications received to Challenges</b>	Reception and evaluation of candidates/proposals List and content of all the applications received to Challenges	35 days before the date	List and contents of all applications received to Challenges
<b>Creation of a list with the selected candidates for the Challenges</b>	Creation of a list with the selected candidates who will be supported to participate in Co-Creation Labs in Lisbon (maximum 12 per Lab)	30 days before the date	List of selected candidates to Challenges
<b>Co-Creation Labs in Lisbon</b>	2 days workshop (13 presentations, 1h per presentation and discussion) 1 day public seminar for municipalities and academy	13 –15 May, 15 – 17 June, 15 – 17 July, 14 – 16 October and 16 - 18 November 2020	
<b>Publication of the Labs results</b>	Scientific journal (Springer?)		

# Public Call for applications

- ✓ Name
- ✓ University/actual working place
- ✓ Contacts
- ✓ Resume of the CV (1 page)
- ✓ Related publications and projects
- ✓ Abstract 500 words (max) regarding the challenge

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# Urban Data Labs Candidates

- ✓ Selected per public call for applications
  - ✓ Jury: Marco Painho (NOVA IMS); Ivone Martins (EEA); João Tremoceiro (CML); Miguel de Castro Neto (NOVA IMS); ...
- ✓ Maximum of 12 experts per challenge
- ✓ Support to travel expenses plus *per diem*
- ✓ Maximum of 17.000€ per Challenge

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# Urban Co-Creation Data Labs Program Workshop

## Day 1

8h45 - 9h00 – Works opening	14h15 - 15h00 - Presentation N. 5
9h00 - 9h45 - Presentation N. 1	15h00 - 15h15 - Group discussion 5
9h45 - 10h00 - Group discussion 1	15h15 - 16h00 - Presentation N. 6
10h00 - 10h45 - Presentation N. 2	16h00 - 16h15 - Group discussion 6
10h45 - 11h00 - Group discussion 2	16h15 - 16h30 - Coffee break
11h00 - 11h15 - Coffee break	16h30 - 17h15 - Presentation N. 7
11h15 - 12h00 - Presentation N. 3	17h15 - 17h30 - Group discussion 7 and closure
12h00 - 12h15 - Group discussion 3	
12h15 – 13h00 - Presentation N. 4	
13h00 - 13h15 - Group discussion 4	
13h15 – 14h15 - Lunch	

## Day 2

8h45 - 9h00 – Works opening	14h15 - 15h00 - Presentation N. 12
9h00 - 9h45 - Presentation N. 8	15h00 - 15h15 - Group discussion 12
9h45 - 10h00 - Group discussion 8	15h15 - 16h00 - Presentation UCD Lab
10h00 - 10h45 - Presentation N. 9	16h00 - 16h15 - Group discussion UCD Lab
10h45 - 11h00 - Group discussion 9	16h15 - 16h30 - Coffee break and closure
11h00 - 11h15 - Coffee break	
11h15 - 12h00 - Presentation N. 10	
12h00 - 12h15 - Group discussion 10	
12h15 – 13h00 - Presentation N. 11	
13h00 - 13h15 - Group discussion 11	
13h15 – 14h15 - Lunch	

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# Urban Co-Creation Data Labs Program Seminar

## Morning

9h00 - 9h15 – Opening  
9h15 - 9h25 – Presentation N. 1  
9h25 - 9h35 - Presentation N. 2  
9h35 - 9h45 - Presentation N. 3  
9h45 – 9h55 - Presentation N. 4  
9h55 – 10h15 - Discussion  
10h15 - 10h35 - Coffee break  
10h35 - 10h45 - Presentation N. 5  
10h45 - 10h55 - Presentation N. 6  
10h55 - 11h05 - Presentation N. 7  
11h05 - 11h15 – Presentation N. 8  
11h15 – 11h35 - Discussion  
11h35 – 11h45 - Presentation N. 9  
11h45 – 11h55 - Presentation N. 10  
11h55 – 12h05 - Presentation N. 11  
12h05 – 12h15 - Presentation N. 12  
12h15 – 12h35 - Discussion

## Afternoon

14h30 - 14h50 – Presentation UCD Lab  
14h50 – 15h00 - Discussion  
15h00 – 15h20 – Guest 1 (municipality)  
15h20 – 15h40 – Guest 2 (municipality)  
15h40 – 16h00 – Discussion and closure

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