

challenge

air-challenge.grandlyon.com

Leaders :



Developped with



Plan Oxygene

In Lyon, air quality improves, but efforts still need to be made.

A specific public policy “Plan Oxygene” [2016 - 2020] aims to reduce pollutants emissions of human activities on the territory, in order to join WHO’s standards.

Actions focused on transport sector, and individual wood heating.

Moreover, improve knowledge and change citizens' behaviors is necessary :

This challenge is addressed to the smart city

Aims of the [R]Challenge

A dynamic process to develop proof of concept of innovative digital services to answer 3 major keys

Change
citizen's behaviour

For an individual
participation in a
sustainable reduction of
emissions

Develop air quality
monitoring in
agglomerations

To prevent air pollution

Develop low emission
technologies

To decrease emissions at
source

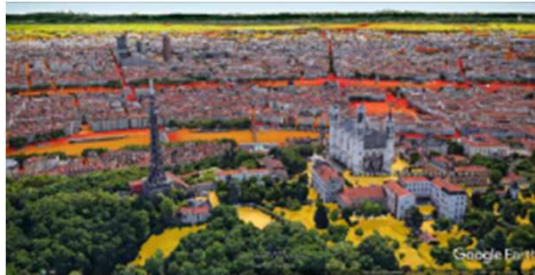


Waiting for projects (apps) aimed to answer innovation fields

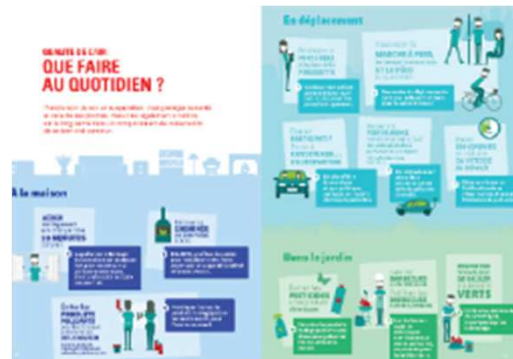


Waiting for projects (apps) aimed to answer innovation fields:

Measurement



Awareness raising



Involvement



How we help the projects

Co-design

Co-design and validation of the first and essential steps for each projects :

- the value proposition
- the business model
- the technical aspects

Prototyping

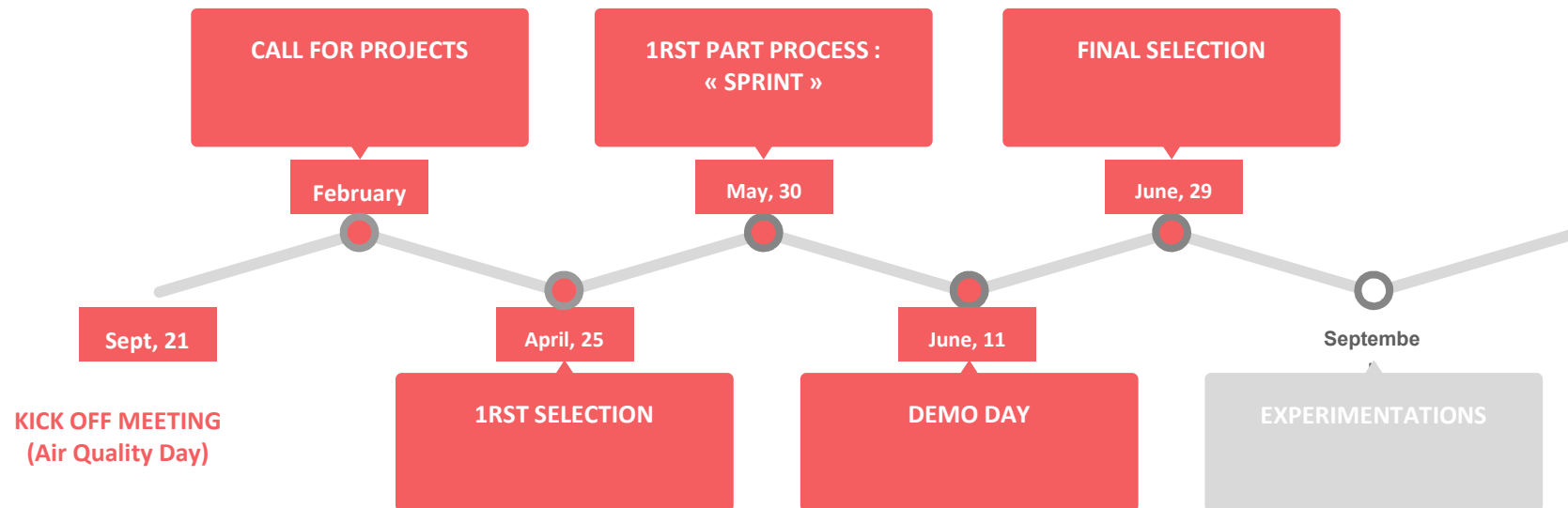
Back up for the production of the prototype for the chosen concepts or products (technical development)

Experimentation

Projects deployment on local experimental field

Implementation of the users beta-test

Agenda



Call for projects



28 projects submitted

16 projects pre- selected
accordance with the innovation challenges adressed
and the support field of the [R]Challenge program



10 projects selected
After the auditions
Going to Sprint phase



[R]Challenge selection process based on :

Match with [R]Challenge
process

Match with innovation fields
Match with the purpose of the process

Value for the user

Value for final user
Added value for public policies of air quality, smart city and Health an environment

Business model

Economic viability
Number of users – Replicability on other agglomerations

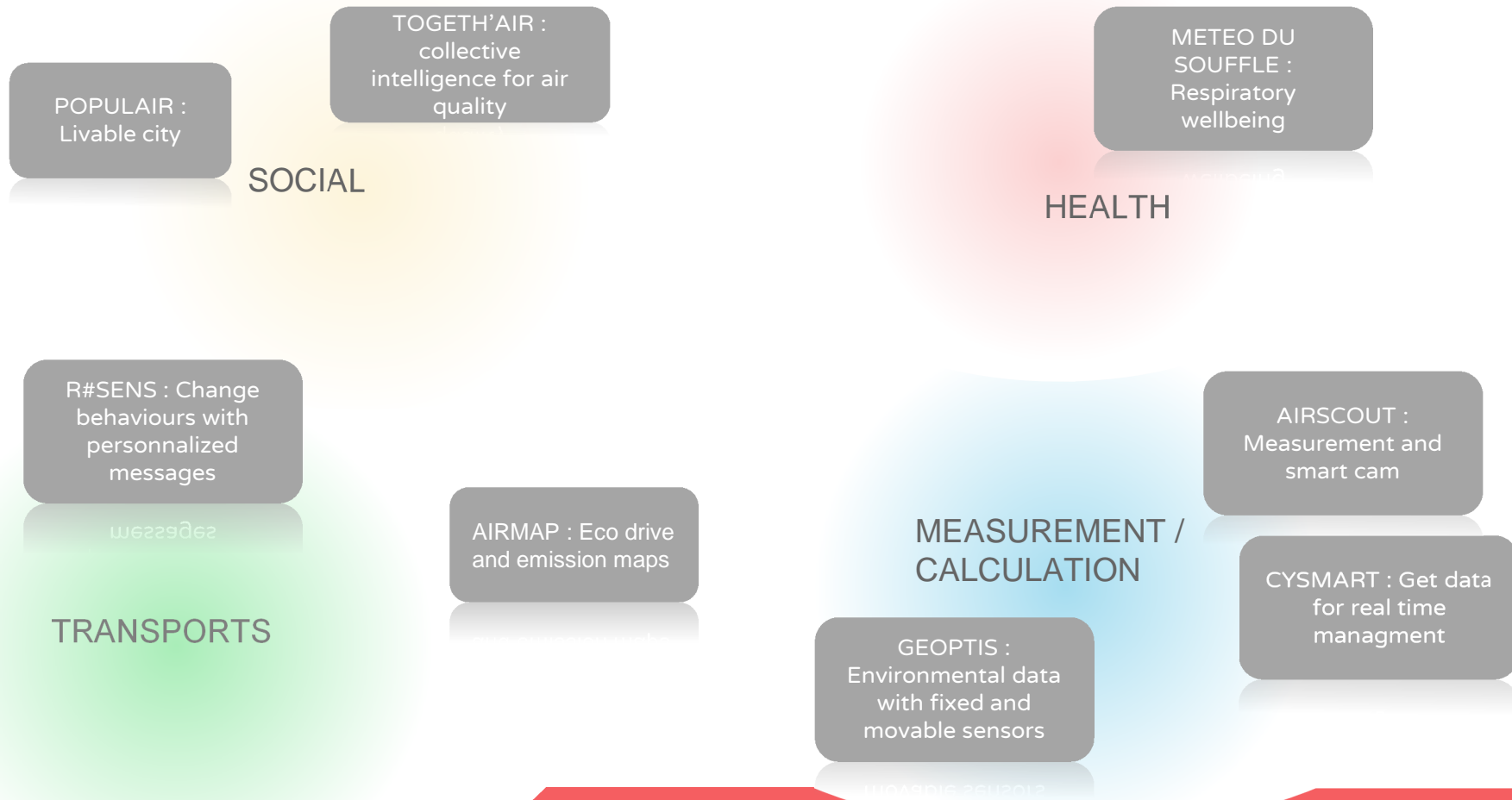
Technological fiability

Technological relevance of equipment, sensors, and other technological solutions
Reliability of the technical and technological elements used

Faisability of the
experiment

Maturity of the project with a functional prototype in autumn 2018
Needs of resources and support in accordance with experimental sites

Different fields of the projets



Support process : 1rst Step

3 days to speed up your project, collaborative work

May, 30 to June, 1rst



Support by experts : working time according to your needs



Specific Tools
« **Makestorming** » to improve and challenge your project



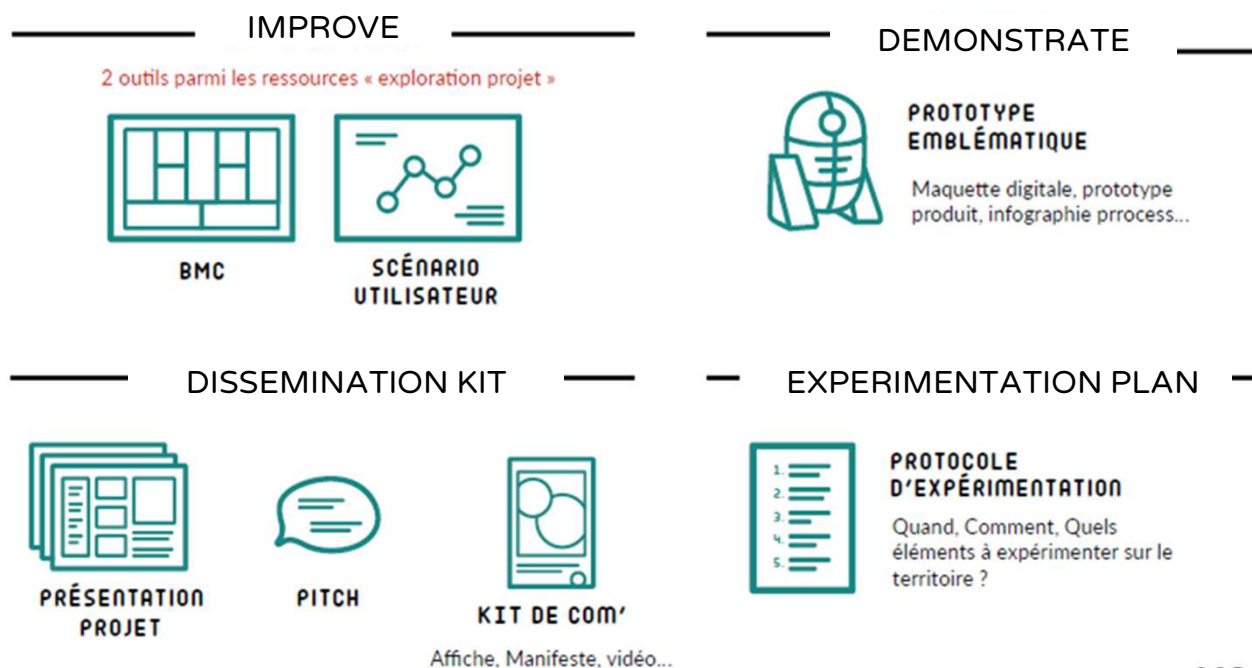
Deliverables (value for user, technical and economic) to be presented during the demo-day



MOD-A

Support process : 1rst Step

Deliverables



Support process : partners and experts

Facilitate - Fix

- 4 ux designers to facilitate the process
- 4 persons to help to stabilise the project

Topics experts

- Air quality (data, measuring, analyse, calculate, communication)
- Value for users, (Metropole civil servants, Centre Max Weber, IFSTTAR – CEREMA, 107, ADEME)
- Technological and Data (INRIA, IGN, ATMO Aura, Quantmetry)
- Economic model (CDC, BPI, 1kubator)

Experiment experts

- TUBA
 - SPL Part Dieu
 - SPL Confluence
 - Campus de la Doua
 - Ville de Villeurbanne
 - Ville de Venissieux
 - Vallée de la Chimie
 - Métropole de Lyon – Ville d'Oullins pour quartier Saulaie
-

Support process : 1rst Step

June, 11
Demo- day

Dedicated ½ day with all partners (institutional, industrial, private,...)

June, 29
Smart City Event

Event concerning Smart City in Metropole de Lyon

**Projects
presentation**



**Benefits due to
[R]Challenge process**



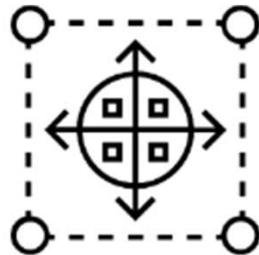
**Discussion and
dissemination**



Support process : 2nd Step

Real work

- Data implementation
- Hard/Soft achievement
- Implementation plan
- Economic model



Experiment

- Protocol execution :
 - Users tests
 - Technical tests
 - Economic performance
- Analyse with stakeholders



challenge

<https://air-challenge.grandlyon.com/>

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GRANDLYON
la métropole

Atmo  votre parten'air
AUVERGNE-RHÔNE-ALPES

GRUPE

Caisse
des Dépôts

MAKE
STOR
MING
-100-10-

