The Open Call

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IoT Week – 7 June 2018 – Bilbao
Synchronicity opens up a global IoT market where cities and businesses develop shared digital services to improve the lives of citizens and grow local economies.

**TARGET**
- SMEs & Large Businesses
- New Cities
- Pilot Groups

**OPEN CALL**
1st June 2018

**CITIES**
- Helsinki
- Manchester
- Eindhoven
- Antwerp
- Carouge
- Milan
- Santander
- Porto

**FUND**
3M€

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No732240
SynchroniCity opens up a global IoT market where cities and businesses develop shared digital services to improve the lives of citizens and grow local economies.
European Large-Scale Pilots

IoF
Internet of Food & Farm

ACTIVAGE
Project

AUTOPilot

IoT

SYNCHRONICITY

MONICA
SYNCHRONICITY
OPEN CALL AT A GLANCE FOR SME & LARGE BUSINESS APPLICANTS

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No732240

OPEN CALL OPENS
1st June 2018 - 17:00 CEST*

OPEN CALL CLOSES
30th September 2018 - 17:00 CEST*

*Brussels Time
Objectives

Model for **Large-scale standards-based innovation and procurement**

Demonstrate **Interoperability, Replicability, Reusability** and **Scalability** of IoT human-centric solutions across cities

Ecosystem building for **Expansion** and **Sustainability**

Help **shape and adopt new smart city standards**
Who is it for?

Lead SMEs working in IoT (apps or full-stack solution), TRL≥6
Other complementary SMEs

New cities wanting to become part of Synchronicity

Large Businesses wanting to become part of Synchronicity

Lead SME (MUST) + SME and/or City and/or Large Business

Pilot Groups
Main characteristics?

- **€3 M**
  Open Call

- Selection of **10-25 city solutions**

- Piloting in at **at least 2 cities** simultaneously (but preferably more)

- Up to 6 month demonstration period

- End Nov 2018

- Feb-Sept 2019
Scope

Themes:
- Sustainable Mobility
- Environment & Wellbeing
- Citizen Engagement
- Open Theme

Challenges:
- Enabling and improving mobility as a service
- Climate Change mitigation
- Encouraging more non-motorised transport
- Reducing noise and air pollution
- Increasing citizen engagement in decision making
- Increasing a greater level of diversity in political engagement
- Open challenge
Funding

Each application can be funded with:

- up to €100,000 if an SME applies alone
- up to €200,000 for a Pilot Group of 2 organisations
- up to €300,000 for a Pilot Group of 3 organisations or more

SMEs, cities and large businesses that are not from EU or H2020 associated countries are welcome to participate in the open call but are not eligible for funding.

- Co-fund 80% of the total individual budget. The remaining 20% must be provided by the applicants either as in-kind support or by bringing in funding to the project.
- Cities and large businesses eligible for funding can claim a maximum of €60,000 of the total allocated budget for fundable activities.
Where can I learn more?

- Come to our booth – IoT Week 2018
- Visit our website: http://synchronicity-iot.eu/open-call
- Read “Open Call at a Glance”
- Webinar for Applicants: Introducing SynchroniCity Open Call

**Date and time**
Tuesday **12th of June** 2018
10:00 – 12:00 CEST (Brussels’ time)
Partners
Visit our website
synchronicity-iot.eu

Follow us on Twitter
@SyncCityIoT

Follow us on Facebook
@SynchronicityIoT

Or send us an email
info@synchronicity-iot.eu

Thanks!
Timeline

- **WHAT ACTIVITY**
  - Pre-market consultation
  - Open Call announcement
  - Official Open Call launch
  - Applications period
  - Submission

- **WHEN DATE**
  - JUN - NOV 2017
  - JAN 2018
  - 1st JUN 2018
  - JUN-SEPT 2018
  - SEPT 2018

- **HOW ACTIONS/TASKS**
  - Complete online survey and help us shaping the Open Call
  - Online official communications with dates and main timeline
  - Download Open Call documentation, including Open Call Toolkit for applicants, and start preparing your application.
  - Become familiar with the online application platform
  - Ask any questions to Synchronicity Team via our portal.
  - Attend clinics in the 8 cities across Europe, learn more about the Open Call, ask questions and identify potential partners
  - Join the webinar and ask questions
  - Submit your final application via portal
Timeline

- **Evaluation and selection period by expert jury**
- **Notification of selected projects**
- **Submit the rescope proposal**
- **Financial and legal checks and signature of pilot agreements of successful applicants**
- **Bonding and customisation workshop**
- **Implementation phase**
- **Finalisation of projects**

**2018**
- OCT-NOV 2018
- END OF NOV 2018
- mid-DEC 2018
- DEC 2018 - JAN 2019
- FEB 2019
- FEB-SEP 2019
- SEP 2019

- **Wait for your application results**
- **Via email**
- **Project rescope period (in case of changes)**
- **Submit financial and legal documentation and sign pilot agreement**
- **2-day workshop in London with the cities where you will deploy your solutions**
- **Implementation of pilot projects and submission of financial and technical progress reports**
- **Submission of final report**

Note: The pilot period will be 6 months only (between Feb - Sep 2019)
Support during application

**OPEN FORUM**
Ask questions or review answers to previous questions. This repository will be the quickest way to find answers.

**HELPDESK**
helpdesk@synchronicity-iot.eu
For private questions.

**CLINICS**
Launch Event and Clinic where applicants will receive support in person during the open call application period.

**WEBINARS**
There will be two webinars for those applicants that cannot physically attend some of the Launch Events and Clinics.

**CONNECT**
Section on the website to facilitate the encounter of other SMEs and partners which want to participate in the open call. It is though the responsibility of each applicant to find the right partner if they wish to form a Pilot Group.
Who is it for?

**SMEs**
- **Lead SME**: IoT applications or full-stack solutions
- **Not Lead SME**: complementary to Lead SME, either IoT enabled or expert knowledge on the application
- Solutions that have already been demonstrated in a relevant environment (TRL≥6)

**New cities** wanting to become part of Synchronicity

**Large Businesses** wanting to become part of Synchronicity

**Lead SMEs** can apply alone or in a pilot group

New Cities and Large Businesses can only apply in a Pilot Group

**Pilot Groups**
- Lead SME + SME and/or City and/or Large Business
Common Technical Ground

1. Neutral branding (OASC – based on standards and consensus specifications)
2. Minimal Interoperability Mechanisms (MIMs)
   • Open APIs
   • Common data models
   • Objective: interoperability, replicability, reuse
3. Reference implementation (standards-based)
4. Hosted cloud option
Technology Readiness Level

TRL 1 – basic principles observed
TRL 2 – technology concept formulated
TRL 3 – experimental proof of concept
TRL 4 – technology validated in lab
TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
TRL 7 – system prototype demonstration in operational environment
TRL 8 – system complete and qualified
TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)
SynchroniCity Framework

- **IoT Management**: to interact with the devices that use different standards or protocols making them compatible and available to the SynchroniCity platform.

- **Context Data Management**: to manage the context information coming from IoT devices and other public and private data sources.

- **Data Storage Management**: to provide functionalities related to the data storage and data quality interacting with heterogeneous sources.

- **Marketplace**: to implement a hub to enable digital data exchange for urban data and IoT capabilities providing features in order to manage asset catalogues, orders, revenue management.

- **Security**: to provide crucial security properties such as confidentiality, authentication, authorization, integrity, non-repudiation, access control, etc.

- **Monitoring and Platform management**: to provide functionalities to manage platform configuration and to monitor activities of the platform services.

Baseline: SynchroniCity Cities/Reference Zones, OASC, FIWARE, EIP-SCC, NIST IES-CF.


Spec. doc.: Reference Architecture for IoT Enabled Smart Cities (D2.10)

http://synchronicity.iot/about
Interoperability Points represent the main interfaces that allow a city and IoT solutions to interact with SynchroniCity platform.

Cities are currently adopting the minimum interoperability points and mechanisms of the SynchroniCity framework.

You will need to regularly check the website for live updates.

https://synchronicity-iot.eu/open-call/pilot-cities
# Interoperability Mechanisms

<table>
<thead>
<tr>
<th>Interoperability Point</th>
<th>Description</th>
<th>Specification document</th>
<th>Related Standards [and Baselines]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Context Management API</strong></td>
<td>This API allow to access to real-time context information from the different cities.</td>
<td>Reference Architecture for IoT Enabled Smart Cities (D2.10)</td>
<td>ETSI NGSI-LD prelim API, OMA NGSI, ITU-T SG20*/FG-DPM*</td>
</tr>
<tr>
<td><strong>Shared data models</strong></td>
<td>Guidelines and catalogue of common data models in different verticals to enable interoperability for applications and systems among different cities</td>
<td>Guidelines for the definition of OASC Shared Data Models (D2.2)</td>
<td>[SynchroniCity Cities + partner data models]</td>
</tr>
<tr>
<td><strong>Marketplace API</strong></td>
<td>It exposes functionalities such as catalog management, ordering management, revenue management, SLA, license management etc.</td>
<td>Basic Data Marketplace Enablers (D2.4)</td>
<td>[TM Forum API]</td>
</tr>
<tr>
<td><strong>Security API</strong></td>
<td>API to register and authenticate user and applications in order to access to the SynchroniCity-enabled services.</td>
<td>Reference Architecture for IoT Enabled Smart Cities (D2.10)</td>
<td>OAUTH2</td>
</tr>
<tr>
<td><strong>Data Storage API</strong></td>
<td>This API allows to access to historical data and open data of the reference zones.</td>
<td>Reference Architecture for IoT Enabled Smart Cities (D2.10)</td>
<td>ETSI NGSI-LD, DCAT-AP [CKAN]</td>
</tr>
</tbody>
</table>
Evaluation and Application Process
How am I going to be evaluated?

**Excellence (0-5 points)**
- What is the vision, ambition and value proposition of your solution? Is your project proposition clear in meeting the objectives of the call?

**Impact (0-5 points)**
- Does your project address a challenge recognised or prioritised by the cities? KPIs? Who will benefit from the implementation of your solution or service and how? How will your solution impact the life of citizens and communities?

**Feasibility (0-5 points) ! (Technical, Team, Budget & Workplan)**
- Can you demonstrate that the project is feasible within the budget? If it is not, can you demonstrate that you have the additional necessary resources to make it feasible? Is the budget clearly described?

**Sustainability (0-5 points) !**
- How credible is your methodology in proving the scalability of product/service? How can you demonstrate the interoperability, replicability and reusability of your solution? What’s your exploitation/commercialisation plan for this solution? How clear is your revenue model and monetisation strategy? Will your solution support the goal of creating more jobs across Europe?
OPEN CALL
APPLICATIONS

TECHNICAL REVIEWERS
GO/NO GO
CITY REVIEWERS
COMMERCIAL REVIEWERS

- Anonymisation
- Eligibility check (GO/NO GO)

OCEC DISCUSSION

Finalist List
List Projects from Highest Score to Lowest
SCORE ≥ 14/20 (GO/NO GO)

COLLECTION OF AVERAGE SCORE + FEEDBACK BY OCEC

Considerations:
- Geographical balance
- Themes & Challenges
- Pilot Cities views
- If equal score: feasibility and sustainability prevails

WINNING PROJECTS LIST

ETHICS & PRIVACY CHECKS BY EPB
ETHICS & PRIVACY CHECKS 2 (GO/NO GO)

OUTCOME COMMUNICATION

1st week of Nov 2018

30 Sept 2018

End Nov 2018

OCEC = Open Call Evaluation Committee
EPB = Ethics and Privacy Board
What next?

• Download the **Open Call Toolkit for Applicants** package
  • For SME and Large Business Applicants
  • For New City Applicants

1-pager on how to read the documentation?

Open Call at a Glance

Open Call Guidelines

SynchroniCity Framework

Templates and Visuals

Only read if you want to apply for the open call

1st June
4 pm UK time
Become a New Open Call Applicant City