

Smart City 2022

International Innovation Procurement Opportunities

Welcome

*Mr. Jordi Aguasca, Director of Technological Transformation and Disruption Unit
ACCIÓ Business Competitiveness Agency
Government of Catalonia*



What is ACCIÓ?

- We are the **agency of the Government of the Generalitat** and a public reference to boost the competitiveness of Catalan companies and contribute to their transformation → **public-private collaboration**.

ACCIÓ is...

Global and local

- 40 offices with a reach of more than 100 markets
- 7 delegations in the territory

Consolidated career, experience and talent

- We are the spearhead representation of Catalan companies in the world since 1988
- 35 years of experience, knowledge and talent at the service of business projects

Next to the company at key moments

- Leaders promoting and expanding the binomial internationalization-innovation
- Now, leading the business transformation towards digitalization and the sustainability

ACCIÓ: Catalonia Open Challenges



← → ↻ 🔒 openchallenges.accio.gencat.cat 🔍 ☆

Catalonia Open Challenges

Home Companies Marketplace Agenda

Online

Catalonia Open Challenges

Challenges, market demands, searches for partners and international trade and innovation opportunities for Catalan companies

Catalonia Open Challenges

Welcome to the Catalonia Open Challenges platform!

This space is the meeting point for those who pose challenges and those who generate opportunities between Catalan and international companies and organizations.


Here you will be able to publish, as well as find and present yourself to different international business challenges and opportunities:



- **Open Innovation Challenges:** challenges from different companies, administrations, and large corporations, Catalan and from all over the world, looking for innovative solutions and proposals.


LOCATION
Online

ORGANISED BY

ACCIÓ
Catalonia Trade & Investment

 **Generalitat de Catalunya**



Business Support on Your Doorstep

ACCIÓ: Open Innovation Challenge

SMART CITY CHALLENGES!
November 15 - November 24, 2022 | Hospitalet de Llobregat, Spain

Home Participants Marketplace Agenda Organisers Login Register

SMARTCITY
EXPO WORLD CONGRESS
15-17 NOV 2022 | BARCELONA & ONLINE

Brokerage
Event
Start networking!

ACCIÓ
Catalonia & Investment
Generalitat de Catalunya
Government of Catalonia

EUROPEAN UNION
EUROPEAN COMMISSION
EUROPEAN INVESTMENT BANK

15 November 2022 - 24 November 2022
Hospitalet de Llobregat, Spain

SMART CITY CHALLENGES!



ISE Open Innovation Challenge 2023

31 January 2023 - 8 February 2023
Hospitalet de Llobregat - Barcelona, Spain

ISE Open Innovation Challenge 2023



MWC Open Innovation Challenge 2023

27 February 2023 - 1 March 2023
L'Hospitalet de Llobregat-Barcelona, Spain

MWC Open Innovation Challenge 2023.

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Government of Catalonia

enterprise europe network
Business Support on Your Doorstep



Smart City Open Innovation Challenge

International Innovation Procurement Opportunities

HOSTS



Ms. Anna Monistrol
ACCIÓ Barcelona



Mr. Òscar Altimira
ACCIÓ Brussels

Smart City - Open Innovation Challenge

SMARTCITY
EXPO WORLD CONGRESS
15-17 NOV 2022 | BARCELONA & ONLINE

Brokerage Event
Start networking!

ACCIÓ
Generalitat de Catalunya
Government of Catalonia

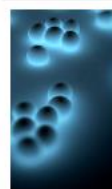
GOOSE
European Enterprise
Network

3 Challenges Pitch Sessions Catalonia Trade + EEN Public Tenders - GOOSE Mentoring2investors FAQ

15 November 2022 - 24 November 2022
Hospitalet de Llobregat, Spain

SMART CITY CHALLENGES

▼ Open Innovation Challenges
Can you solve any of the following 17 Challenges?



Superbugs
Art. Microbial
resistance (AMR)

PPI
Health & Healthcare



Salut/ Health
Barcelona Health System



Green Tech
Environment

Climate Change
Sustainability



ATRE
Generalitat de Catalunya
Departament de Recerca i Innovació Tecnològica



Efficient Buildings
Sustainability

Worker comfort
Climate Neutrality



Plaça
Càmera Municipal



Road Safety
Prevent Accidents

Wild animals
Mobility



Generalitat de Catalunya
Departament de la Innovació i les Polítiques Digitals i Territori



Artificial turf
Sustainable innovations

Climate Change
Sport pitches



Gemeente Amsterdam



Climate Change
Mitigation of extreme events

Prevention
Resilient City



Agbar



Hydrogen
Energy efficiency

Storage Systems
Investment



GREAT PRODUCT VENTURES



Construction
CO2 Emissions

Efficient Buildings
Revaluation of waste



soriguè



Generalitat de Catalunya
Departament de Recerca i Innovació Tecnològica

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Departament de Recerca i Innovació Tecnològica

ATRE



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The Smart City Expo World Congress will host a chief Networking event:
It is the Brokerage 2022! Smart City Challenges, proposing...

The 3 Smart City Challenges:

► Cities' Challenges

► Open Innovation Challenges

► Green Transition Challenges

Brokerage 2022! Smart City Challenges

The **Brokerage** is the main international matchmaking activity within the SCEWC. A unique opportunity to set 30-minute, pre-scheduled B2B/B2G/G2G meetings, to foster valuable connections with potential business partners, clients and/or suppliers.

The onsite meetings will be on 15-17/Nov, while the week after 22-24/Nov will be for

ACCIÓ
Catalonia Trade & Investment



Generalitat de Catalunya
Government of Catalonia

GOOSE

Register now
Open until 13 November 2022

LOCATION Agora, Greece
Via, Av. Joan Carles I, 64

ORGANISED BY

ACCIÓ

Catalonia Trade & Investment

Generalitat de Catalunya
Government of Catalonia

enterprise europe network
Active Support for Trading

GOOSE



AGENDA

12:30 – 12:35

Welcome

- Jordi Aguasca
Director of International Innovation and Disruption
ACCIÓ, Government of Catalonia

13:20 – 13:30

Q&A

Closing

Innovation Procurement Opportunities

- Hiroyuki Suzuki, Executive Vice President, Representative Director at ATR - Advance Telecommunications Research Institute International, Japan
- Francisco Javier Ridruejo, General Coordinator at Ayuntamiento de Logroño, Spain
- Yurhan Kwee, Project Lead Startup in Residence at City of Amsterdam - Urban Innovation, Netherlands
- Ion Arrizabalaga, Project Manager and Coordinator at Agència de Qualitat i Avaluació Sanitàries de Catalunya (AQuAS), Spain
- Kate Williams, Challenge-Led Innovation Projects Manager, Welsh Government, United Kingdom
- David Monteau, Economic Development Policy and Digital Affairs, Greater Paris Metropolitan Region, France
- Graeme Jarvie, Challenge Manager, CIVTECH, Scotland, United Kingdom

12:35 – 13:20

Project 1:

Innovation Challenges in Kyoto and Kansai

*Mr. Hiroyuki Suzuki, Executive Vice President, Representative Director
ATR - Advance Telecommunications Research Institute International
Japan*



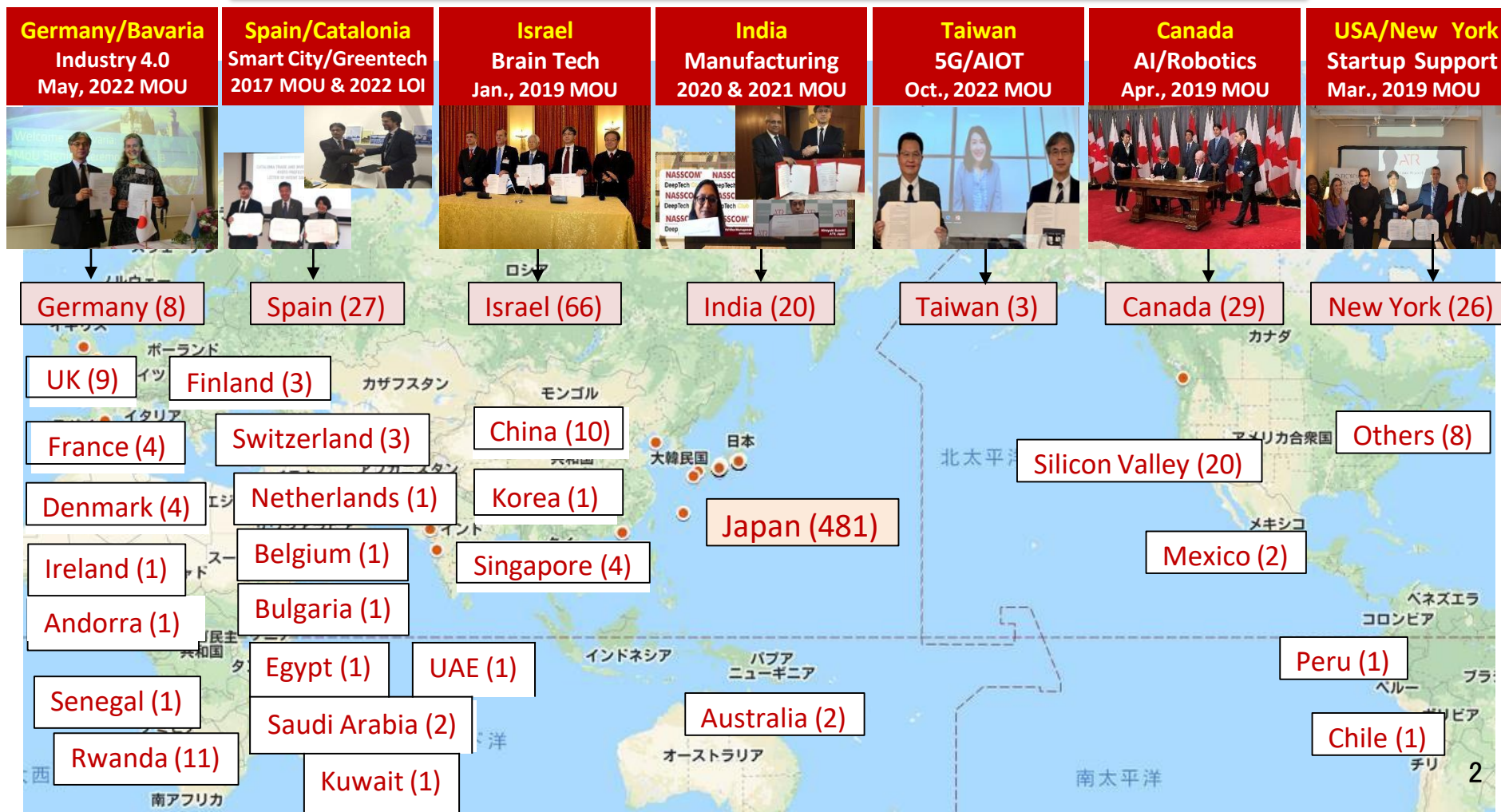
Innovation Challenges in Kyoto and Kansai Stage - Keihanna Global Open Innovation Platforms for Collaborations with Global Startups/SMEs -

Hiroyuki Suzuki, Ph.D

Executive Vice President, Representative Director
Advanced Telecommunications Research Institute International (ATR)

Total : 754 Organizations (as of September 2022)

- Domestic : 481 Organizations in 24 Prefectures
- Overseas : 273 Organizations in 30 Countries



Agreement on Cooperation with Catalonia Partners

□ MoU with Barcelona Activa (BA)

- Date : November 15th, 2017
- Signers : BA & ATR
- Areas : Startup Exchange Programme
Talent Internship Programme

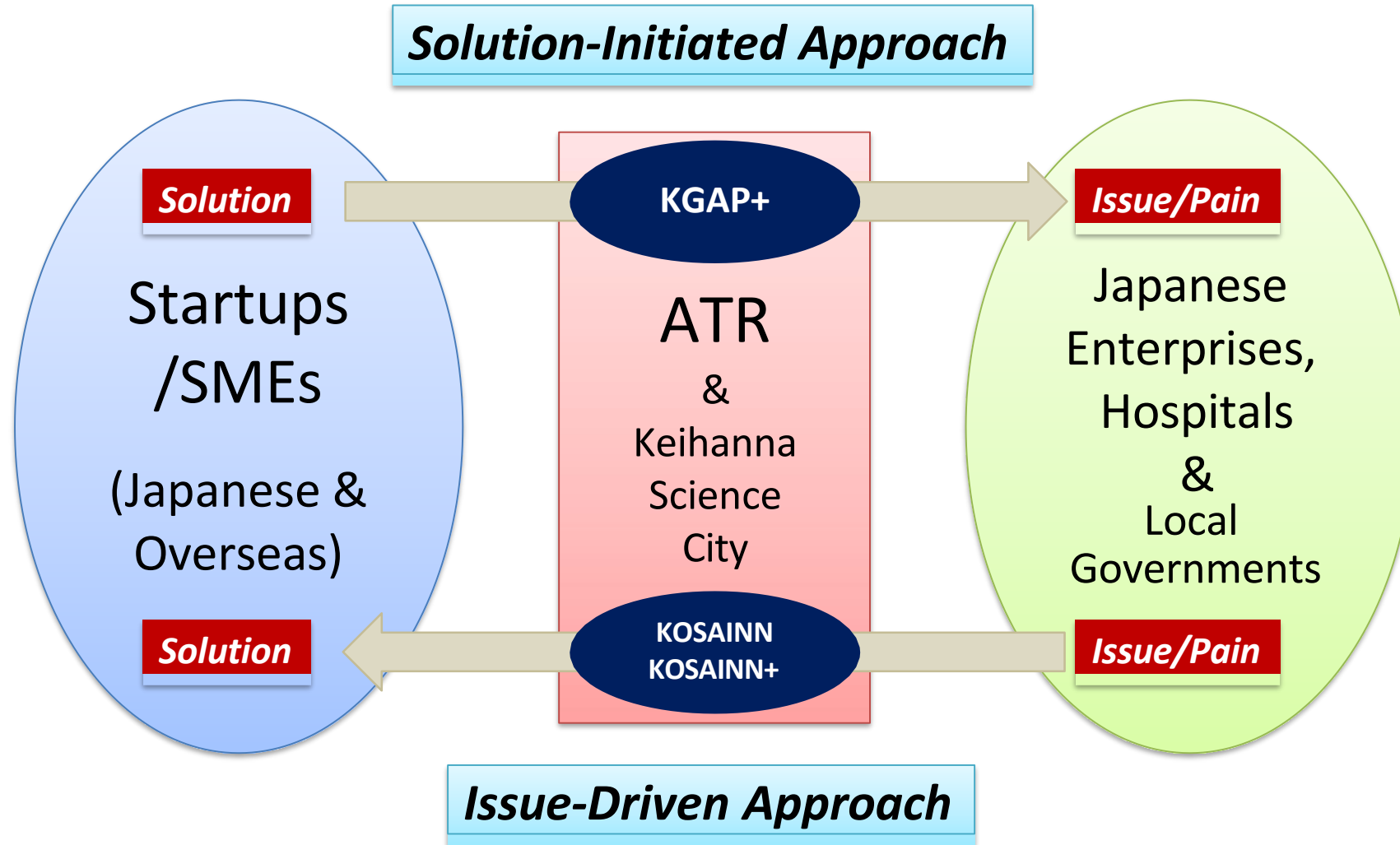


□ Lol with Catalonia Trade and Investment - ACCIO Tokyo

- Date : October 6th, 2022
- Signers : ACCIO Tokyo,
Kyoto Prefecture & ATR
- Areas : Technological Innovation
Industrial R&D



Two Types of Open Innovation Platforms for Collaborations with Global Startups/SMEs



- The Acceleration Program in Keihanna Science City -

- ☐ Three month, twice a year in summer and winter, online and offline
- ☐ Set a PoC or pilot test with Japanese companies / hospitals as the goal
- ☐ Accessible to our global partners
- ☐ Completed Batch 1-7 (2019-2022), Batch 8 in progress

KGAP+ Special Program

select ~5 startups

KGAP+ Main Program (3 mos.)



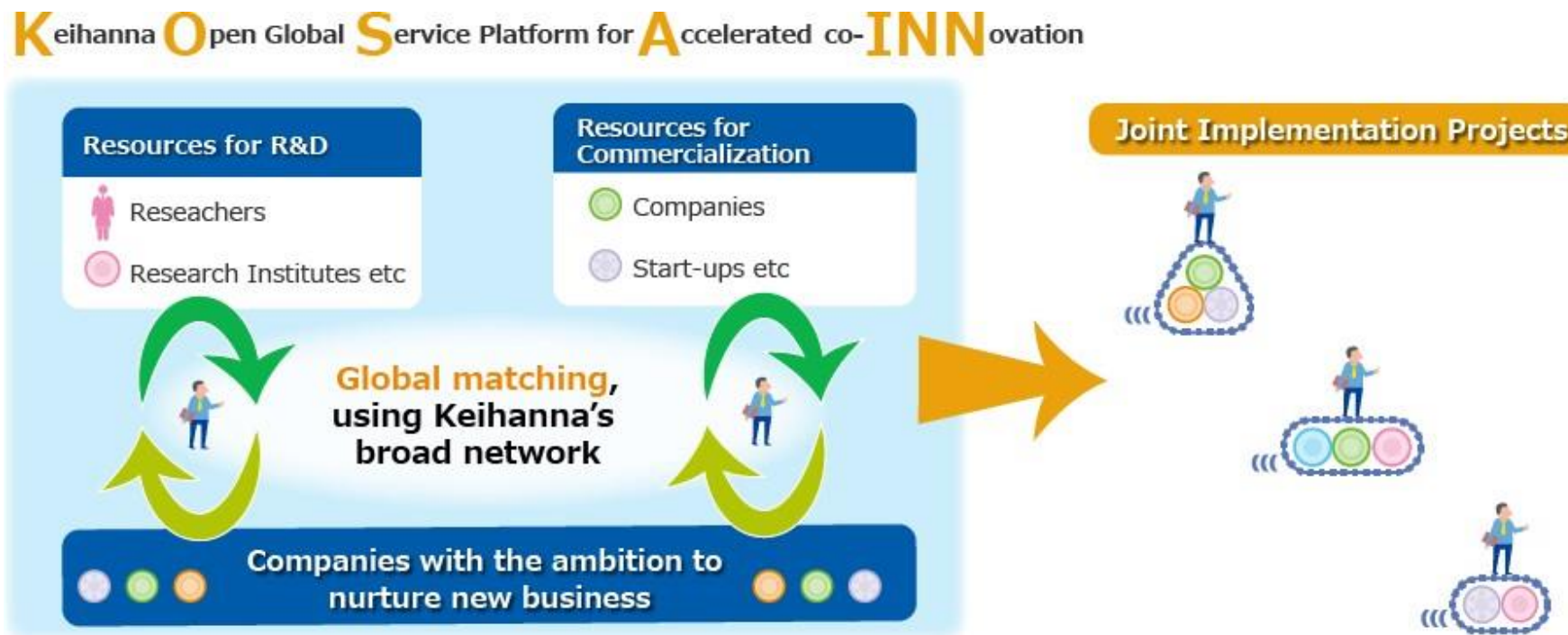
KGAP+ Local Challenge

Select ~15 startups

KOSAINN/KOSAINN+

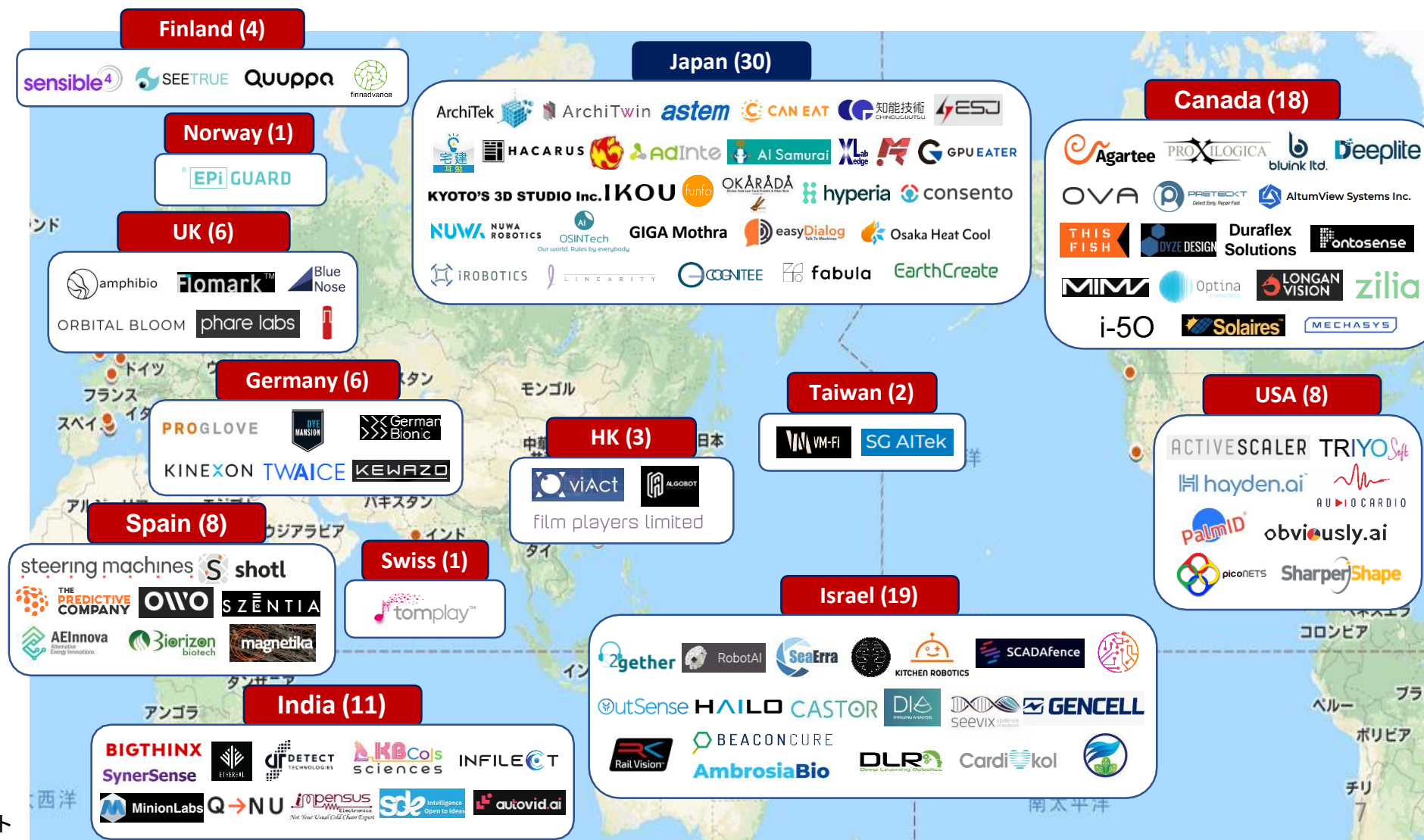
- Keihanna Open Global Service Platform for Accelerated Co-Innovation -

- A platform for business project creation through global open innovation aimed at solving issues faced by companies, etc.
- A total of 11 projects have been completed between 2018-2019.



Startups of KGAP+ Batch 1-8

117 startups from 13 countries/cities selected for Batch 1-8



KGAP+ Batch 1-7 Achievements

71 out of 96 startups (74%) were successfully matched with Japanese companies & a hospital.



Business Collaboration in Green Tech

- AEInnova (Barcelona) & CBC Co., Ltd. (Japan) -



AEInnova - Alternative Energy Innovations

1,427人のフォロワー

3日前

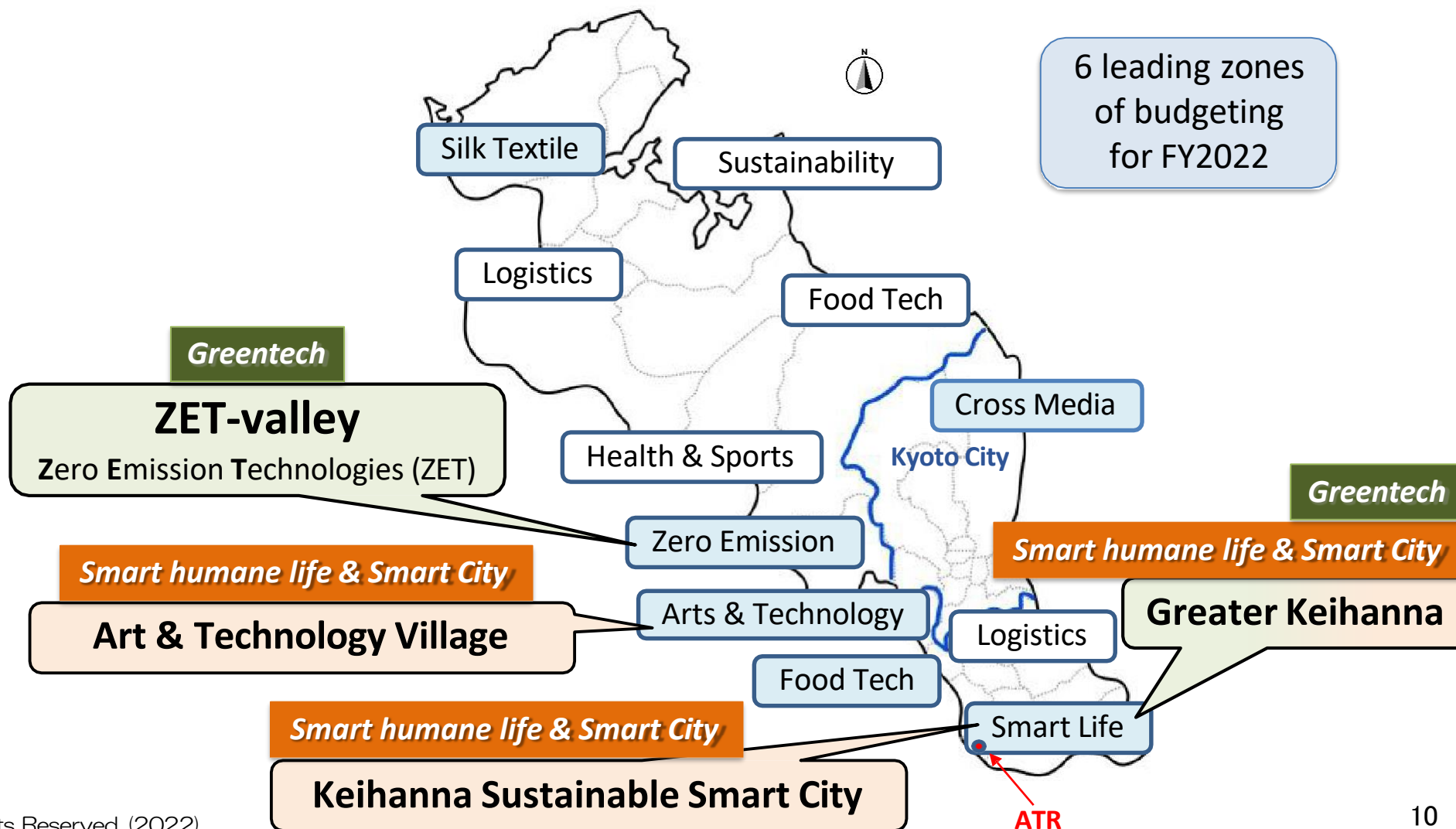


Las noticias corren rápido!

Hoy se publican en muchos medios de comunicación la noticia de que **AEInnova - Alternative Energy Innovations** empieza a comercializar sus dispositivos en Japón de la mano de nuestro partner Japonés **CBC Co., Ltd.** Un proceso largo y complejo que nos va a permitir colaborar con la industria Japonesa para poder digitalizarse usando los primeros sensores wireless de altas prestaciones del mercado alimentados por calor y sin baterías. La solución, con diferencia más sostenible y avanzada jamás creada! Eliminar baterías tiene sus ventajas! y la principal es liberarnos de una fuente de energía reducida que limita todas las prestaciones (la batería). Usando el calor continuo de un proceso tenemos una fuente de energía "ilimitada" que nos permite fabricar el dispositivo IoT wireless más avanzado del mercado.

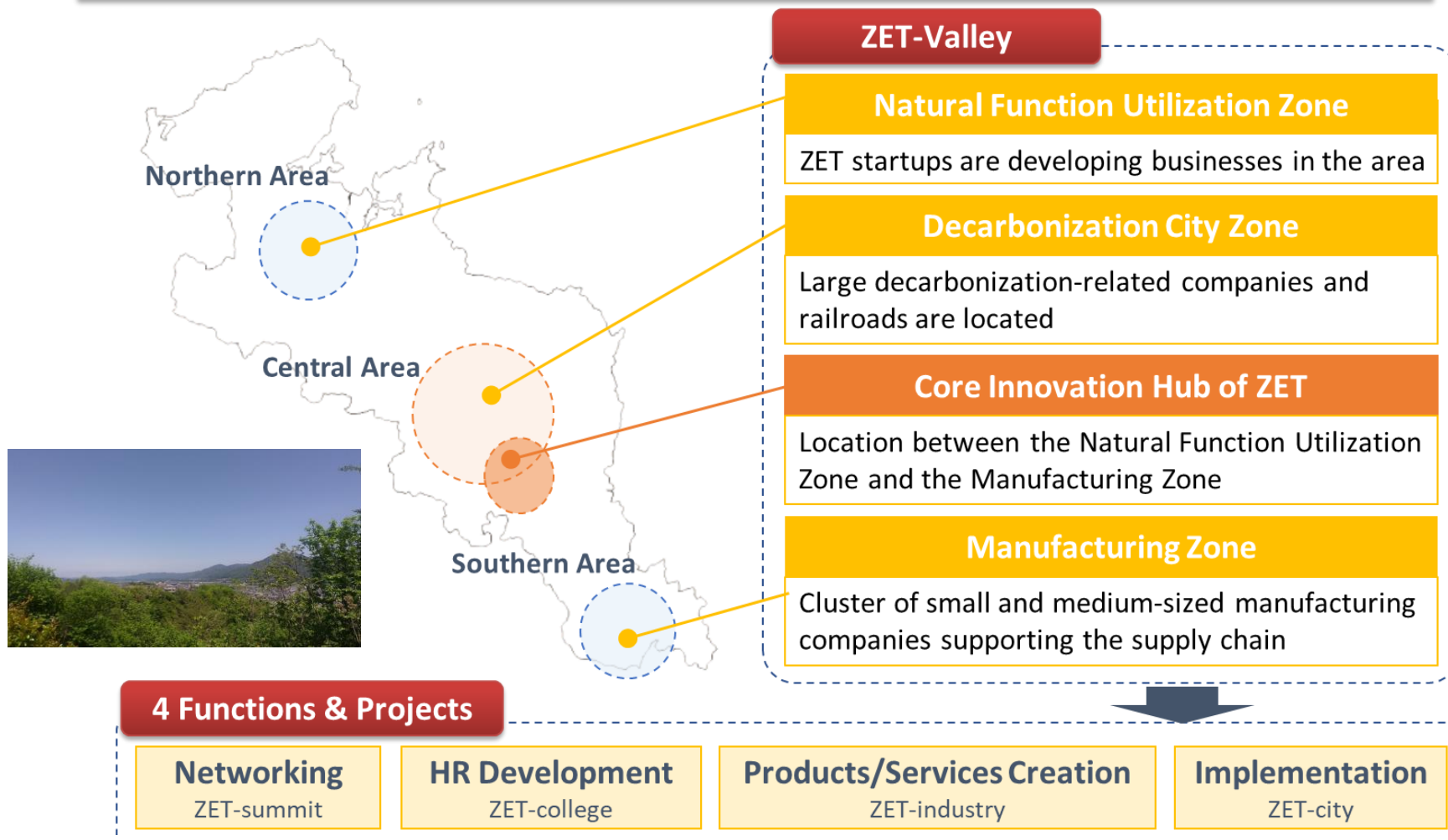
Agradecemos la ayuda de **ACCIÓ** y **KGAP+** (Makiko Tatsumi and Junsaku Nakajima), junto a la delegación española de **CBC Co., Ltd.** para hacer este acuerdo una realidad.

Building-up of leading zones throughout the prefecture for the creation of new industries that take advantage of regional characteristics



ZET-valley - Zero Emission Technologies (ZET) -

Creating a world-class startup cluster, with decarbonization as a model, by promoting networking between ZET startups and enterprises, and implementing technologies in urban development.

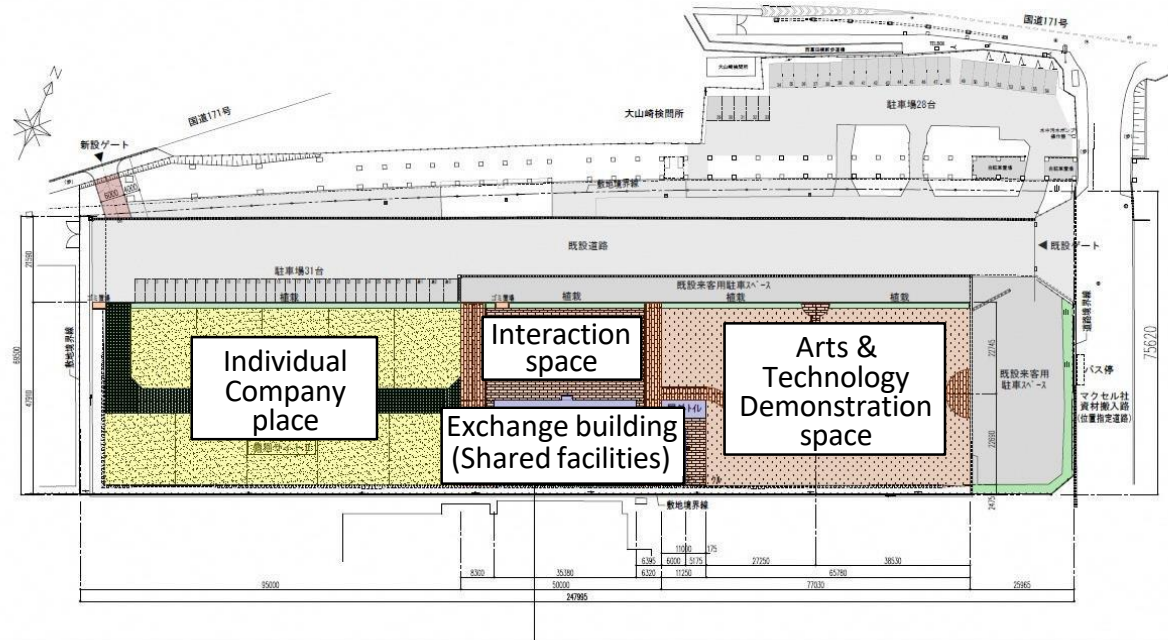


Art & Technology Village - Open in 2023 -

- Scope: Through the fusion of art and technology, develop open innovation centers that create new value and foster human resources who will lead the next generation businesses.
- Budget: 2.76 M€ @ FY2022

Construction site

Oyamazaki Town,
Kyoto Prefecture
(**About 23,300m²**)



Exchange building
(Shared facilities)



Keihanna Sustainable Smart City

- A Kyoto project of “National Digital Garden City Initiative” -

□ **Scope:** Building a data-driven urban management ecosystem through smart life services (Health X Transportation)

□ **Budget:** 1.8 M€ @ FY2022



Greater Keihanna Initiative by KOSAINN+

Revitalization of Japanese Tea Industry in Wazuka town with the participation of global startups/SMEs and high school students.

- Issue 1: Developing new markets for Wazuka tea (mindfulness, etc.)
- Issue 2: Phase-out of chemical substances (fertilizers, pesticides)



Let's Work Together!

We have proven platforms
which support the entry of global startups/SMEs
into business in Keihanna Science City/Kyoto
by transforming their

B2G/B2B2G business

into

B2P2G/B2P2B2G business.

(P: Platform)

Project 2:

Intelligent Management of the city of Logroño: Digital Twin + Public services + Citizens as data collectors

*Mr. Francisco Javier Ridruejo, General Coordinator
Ayuntamiento de Logroño
Spain*



Fondo Europeo de Desarrollo Regional
Una manera de hacer Europa

Innovative Public Procurement in Logroño

Preliminary market consultation

Francisco Javier Ridruejo Pérez

Coordinador General de Promoción Económica,
Modernización Tecnológica, Conocimientos Profesionales.

Ayuntamiento de Logroño

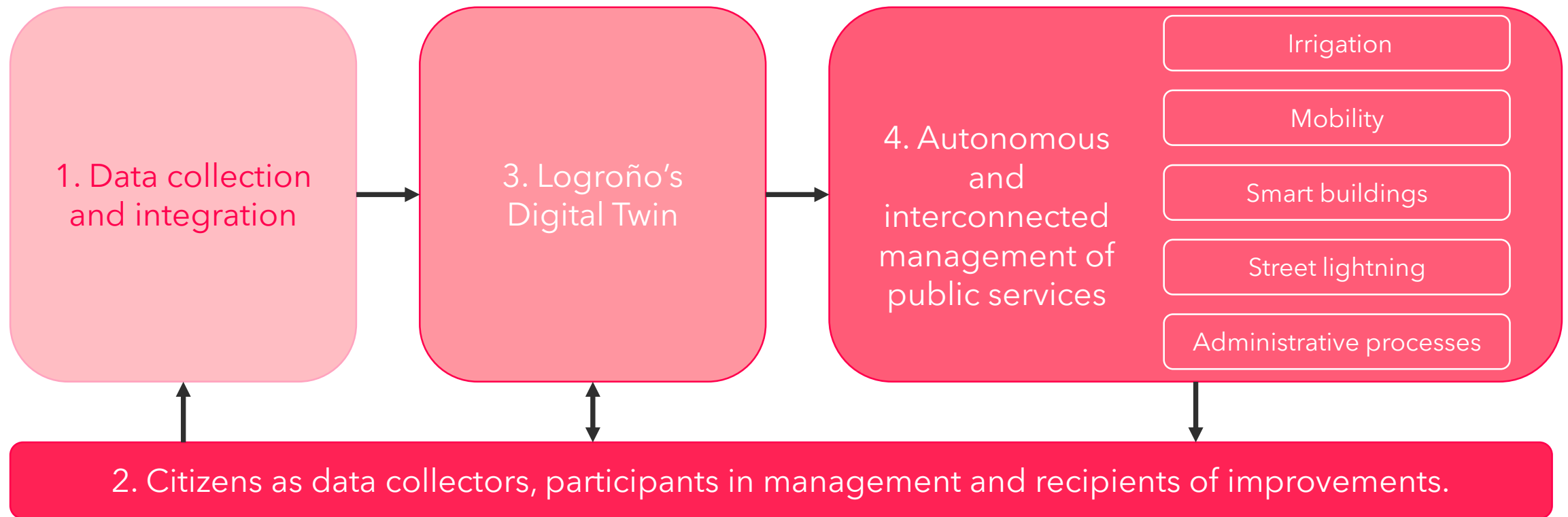
Unmet need and objectives

- To have a **global framework** for comprehensive and integrated management of the smart city.
- Breaking down **silos** in:
 - Data and information availability
 - Decision making
- **Optimize real-time decision making**
 - in a comprehensive and integrated way
 - simulating the impact of some processes on others
 - Integrating and taking into consideration all available data
 - Reaching an optimal point of comprehensive city management.
- Advancing **an intelligent global strategy for the use of data** and the development of a balanced and appropriate technology for this strategy that allows the automated and informed management of public services.

Unmet need and objectives

To develop a **virtual platform for data integration** and comprehensive management of municipal services, so that it is the platform that, **autonomously** or with the minimum possible human intervention, **manages certain city services in real time** and in an articulated manner, and generates early **warnings of service failures**, which can be assessed by the City Council technicians, in order to act in time

The challenge: R+D+i developments



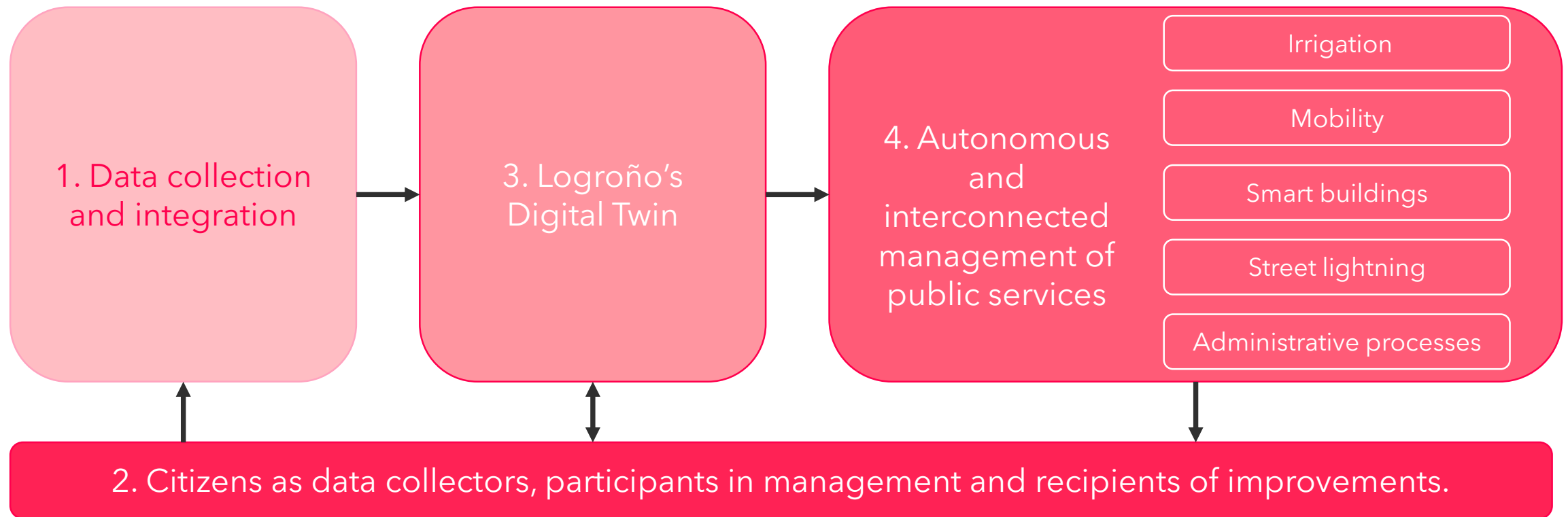
Data collection and integration

- Data collection to **minimize cost**:
- Deployment (purchase of measuring instruments, installation, connection, calibration, etc.)
- Operation and maintenance (repairs, consumables, consumables, energy consumption, etc.).
- Prioritize data sources that are useful for the management of **various utilities**.
- Achieve an adequate **balance between cost and accuracy** of the information provided.

Data collection and integration: integration of sources

- Data obtained from the **physical world** or from physical events in which human interaction comes into play. Priority will be given to existing sensors and meters such as the City Council's own: network of 55 totems, parking meters, traffic cameras, weather stations, etc....
- Data that are collected and **published by other organizations** or administrations and that can be used by the City Council at little or no cost: market prices (energy, water, etc.), satellite images, data from meteorological agencies, statistics, etc.
- Data from the City Council itself that are currently **unstructured and compartmentalized**, as well as those that can be generated by the staff, and subcontracted companies that manage outsourced services, or the implementation of e-Government.
- Information generated by **human social interaction**, such as location data, sensor data from mobile devices, reports issued by citizens....
- Information from **social media**, web data and soft textual data.
- Information collected by **the tools for citizen participation** or communication with the municipality that are currently in operation, such as 010 or the District Boards, among others.

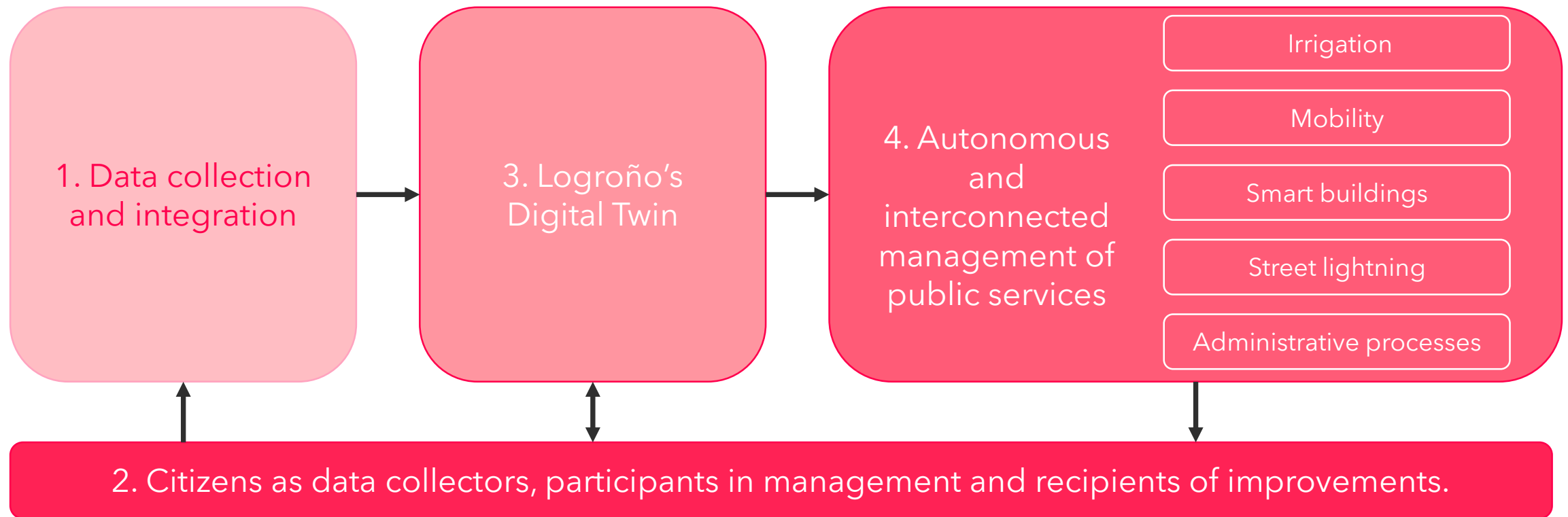
The challenge: R+D+i developments



Citizen involvement

- Citizens must be **actively integrated** in:
- Contribution of data for smart management in the city (both actively and passively). **Open Data** strategies should be incorporated to take advantage of the opportunity to generate social, environmental, economic and quality of life wealth.
- **Participation in the Digital Twin:** Consultation of information in real time, simulation of processes, proposal of improvements to the City Council...
- Reception of improvements in public services, evaluation of the same (outsourced services, for example) and reporting of incidents in the same, evaluation, etc.
- The integration of data management produced by social media, or web, the 010 service, the municipal app, or other tools for citizen participation in Open Data strategies and the deployment of the most appropriate Big Data technologies that facilitate their treatment: extraction, homogenization, storage, analysis and visualization in structures that are easy to access, obtain and understand.

The challenge: R+D+i developments



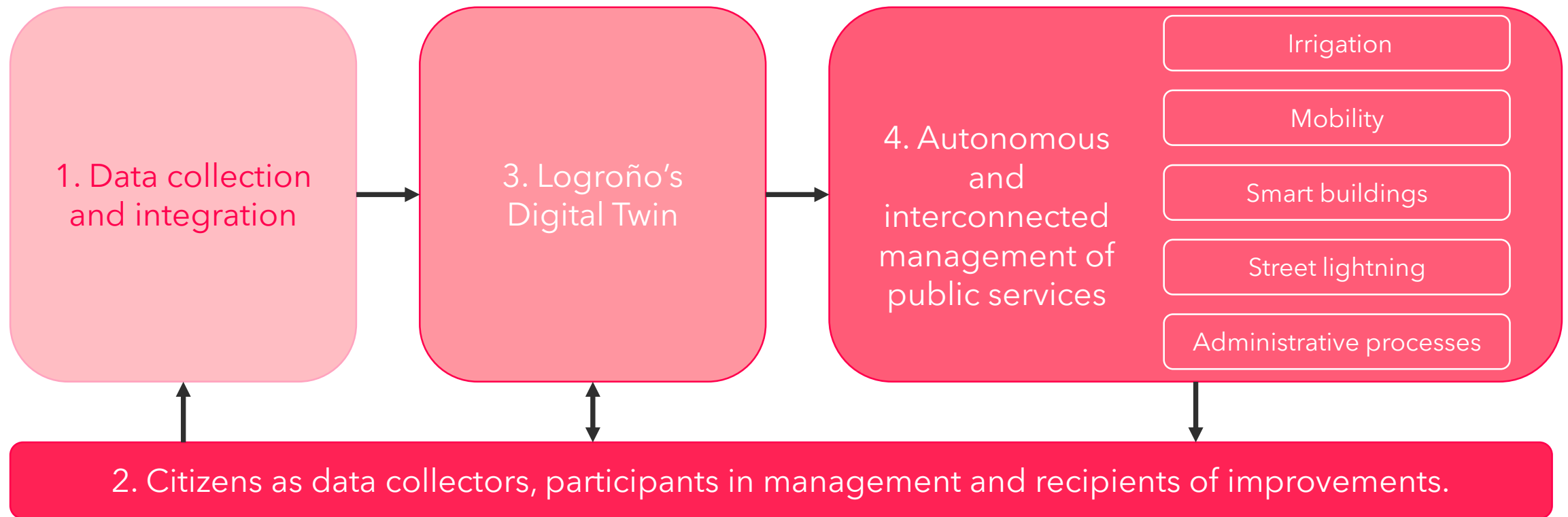
Logroño's Digital Twin

- **Objective**
- A complete **digital paradigm** of the municipality of Logroño, achieving the digitization of all processes.
- A **global semantics** between the different systems so that all the elements can communicate and interact.
- **The Digital Twin should...**
- Incorporate differentiated **visualizations of indicators**, infrastructures and management actions by department.
- Exceed the current state of the art, transcending the usual informative and descriptive functions, reaching **simulation, prediction and learning** capabilities.
- To provide a precision digital replica that allows **simulations** on the effects that any external conditioning factor to be applied will have on the real model (the city of Logroño).
- Allow to simulate the behavior of the set of processes that make up the Logroño system and **predict future situations** based on an infinite number of starting scenarios and, therefore, design interventions that improve the management in the short, medium and long term.
- **Evaluate the impact of interventions** (comparing them, for example, to simulated scenarios in which no intervention has been carried out)

Logroño's Digital Twin: Open space

- The Digital Twin should be an open space, available to **citizens and the business, research and entrepreneurship ecosystem**.
- **Transparency**: It will allow to consult all the historical data and in real time of the municipal processes: directly managed by the City Council and by municipal contracts and those carried out by the inhabitants.
- **Living laboratory** that will serve for any person, natural or legal, to simulate processes of interest and multiple configurations of the same. This, oriented to:
 - A better and more sustainable **management of services** provided by private companies (last mile delivery, for example).
 - That any entity can propose to the **City Council improvements** in the provision of its own services.
 - That citizens can do processes of **interrelation with the administration** (obtaining licenses or subsidies, for example).

The challenge: R+D+i developments



Autonomous and interconnected management of public services

- In addition to simulate, **develop artificial intelligence algorithms to automate** the management of part of the public services.
- **Comprehensive management**: decisions in a process must be articulated with the information collected and decisions made in other processes.
- It should interpret the data related to the managed processes, so that it can **identify anomalous trends** or specific characteristics of certain sites that make them unique.
- It shall generate **early warnings**, predicting the probability of anomalous events and making a proposal for preventive decision making.

Autonomous and interconnected management of (1) Irrigation

Manage the **sprinklers of the automatic irrigation** of green areas of the city in an autonomous way, thus increasing water efficiency, saving water and energy. To do so, it will have to:

- Integrate various **sources of information**, such as satellite images (allowing the identification of the chromatism of these areas), weather stations, forecasts and rainfall history, humidity sensors, etc.
- **Monitor** water consumption, with remote activation and automation of irrigation.
- Maintain green areas **within a given range of hydration** that follows ecological, and not simply aesthetic, criteria. To do this, it will have to decide when to activate (and with what flow rate, if possible for the sprinkler in question) each of the sprinklers and autonomously execute these commands. It will have to take into account variables such as the location of the slope, or the slope inclination, among others.
- **Automatically learn** (machine learning, neural networks, predictive models, etc.) from the results of the decisions made in each zone to improve future decision making and x from one particular green zone to the others.

Autonomous and interconnected management of (2) Mobility

Obtain **information on the flow of people and vehicles to make management proposals.**

- Distinguish **tourists from local inhabitants** or regular visitors, so that the real impact of tourism promotion campaigns in the city can be measured.
- Establish an **automatic system for measuring the return on investment.** In general, to know the flow of attendees to events that allow to measure the return on investment of actions of lines of aid, organized or financed by the City Council.
- **Access and/or capacity control** in certain public spaces.
- Knowing the **flow of vehicles** on city roads and making a traffic management proposal, as well as simulating different traffic management scenarios.
- Simulate different **mobility configurations in the city** based on an infinite number of boundary conditions, allowing to find optimal management points, from daily operational decisions.
- **Automatically learn** from the collected information and make decision proposals. It should have a predictive capacity and make a proposal for preventive decision making, when it identifies that there is a certain probability of situations occurring.
- **Manage the security** of the city, identifying areas where incidents occur.

Autonomous and interconnected management of (3) Smart buildings

Evolve the buildings owned by the City Council towards **smart buildings**, which can be managed in a grouped and automated way from the Smart City platform, consumption and security, achieving greater efficiency.

- The objective is to configure them as intelligent buildings, being connected constructions, which **integrate different systems**, such as home automation, security, access control, elevators, multimedia, telecommunications, robotic parking, etc. in the single management platform.
- It will **provide values** such as greater energy efficiency, increased security, better connectivity, as well as increased user comfort.
- As a pilot experience, it is expected to be able to intelligently manage at least one building. This could be the **Logroño Town Hall**, but other equally valid alternatives will also be taken into consideration.

Gestión autónoma e interconectada (4) del alumbrado público

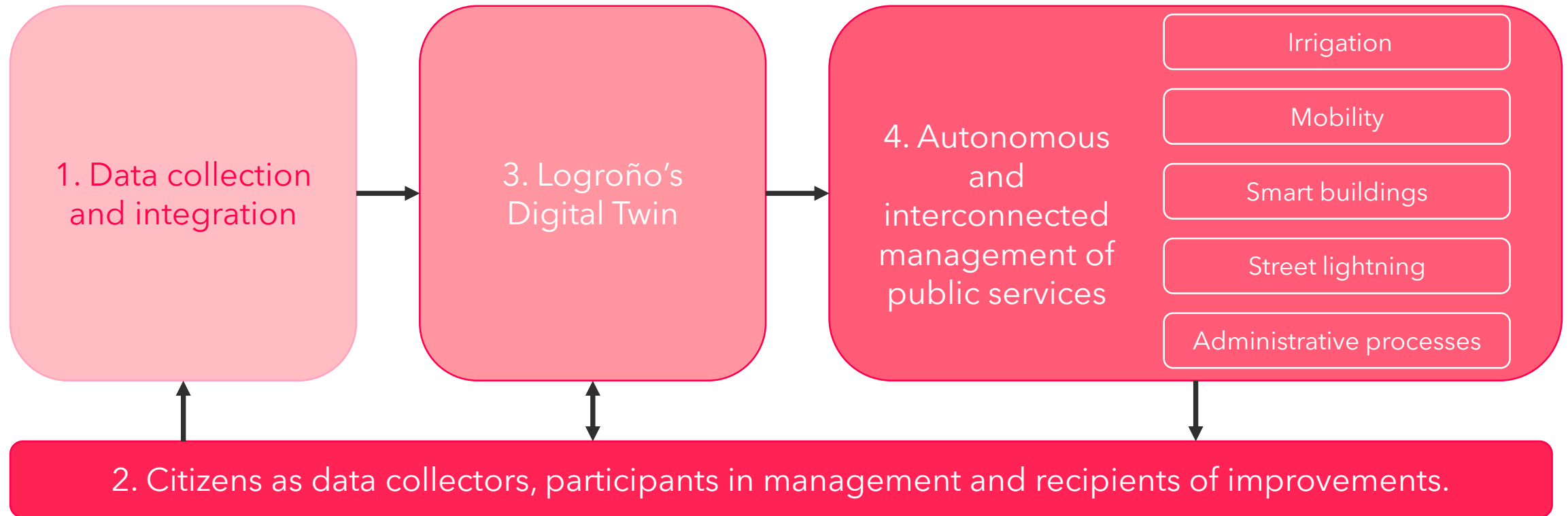
- Se busca gestionar el **encendido del alumbrado público de la ciudad**, en una aproximación similar a la del riego o eficiencia energética de los edificios.
 - El Ayuntamiento se plantea la tele-gestión (farolas, cuadros eléctricos, ...) punto a punto.
 - Lograr una mejora de la **eficiencia energética** que pueda lograr una iluminación de los espacios públicos eficiente y óptima, y un enorme ahorro energético, proporcionando luz únicamente en los espacios, momentos, y con las intensidades necesarias
 - Mejorar el tiempo de respuesta en el **mantenimiento** y consiguiendo una **detección preventiva** de los fallos.
 - El sistema de gestión deberá tener en cuenta la **presencia** humana en el espacio, y la **luz natural** presente en cada momento.

Gestión autónoma e interconectada (5) administrative processes

Intelligent management of administrative services, through an integration of all of them.

- **Facilitate decision making** related to resource prioritization and management.
- Autonomously make **resource management proposals**.
- **Predict efficiency problems** in the management of files.
- **Propose improvements** in the flow of tasks within the same process, so that it is optimized, transferring good practices applied in one area of the city council to another or simply by applying innovative algorithms.
- It will serve as an **early warning** when a given process starts to reduce its efficiency.
- Identify and **define the semantics of the processes and the data** involved in them, in order to control them, optimize them and understand how they operate.
- Perform certain simple tasks with little intellectual component, through the **automation of repetitive processes**.

The challenge: R+D+i developments



Thanks

Francisco Javier Ridruejo Pérez
Coordinador General de Promoción Económica,
Modernización Tecnológica, Conocimientos Profesionales.
Ayuntamiento de Logroño

Project 3:

Transforming sport pitches into the playground for transdisciplinary innovation

*Mr. Yurhan Kwee, Project Lead Startup in Residence
City of Amsterdam - Urban Innovation
Netherlands*



Urban Innovation in the City of Amsterdam For a Future-proof City





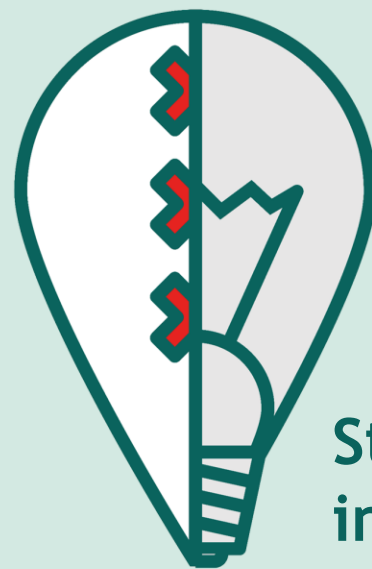
The city of Amsterdam committed to being 100% circular and 100% climate neutral by 2050





**Stimulate Innovation and work
together with entrepreneurs**





Startup
in Residence



Startup in Residence

Startup in Residence (SiR) is a programme to make the procurement process more accessible to small parties and boost the start-up ecosystem.

- ✓ Since 2015 in Amsterdam
- ✓ 20 Programmes in NL
- ✓ Regional Collaboration

The screenshot shows the Startup in Residence website. At the top left is the logo, which consists of a lightbulb icon with a stylized 'S' inside, and the text 'Startup in Residence' next to it. To the right of the logo are two links: 'Start your own SIR' and 'Governments'. The main heading is 'Bringing startups and governments together'. Below this is a paragraph: 'The Netherlands needs innovative solutions for urgent social issues. We want to create these solutions together with innovative entrepreneurs like you.' Below the paragraph is another heading, 'Startup in Residence', followed by a paragraph: 'The Startup in Residence programme supports innovative entrepreneurs. We help you develop your solution and find your launching customer in the public sector.' At the bottom, there is a bullet point: '• Follow a development path with training and mentoring'. On the right side of the page, there is a large graphic of a lightbulb with red lines radiating from it, set against a green circular background.

Startup in Residence

Start your own SIR Governments

Bringing startups and governments together

The Netherlands needs innovative solutions for urgent social issues. We want to create these solutions together with innovative entrepreneurs like you.

Startup in Residence

The Startup in Residence programme supports innovative entrepreneurs. We help you develop your solution and find your launching customer in the public sector.

- Follow a development path with training and mentoring





Scale up | future proof sports fields

circular - modular - energy positive - climate adaptive

Scale up | future proof sport fields

Governments work together to challenge the market for solutions to their biggest societal and environmental issues



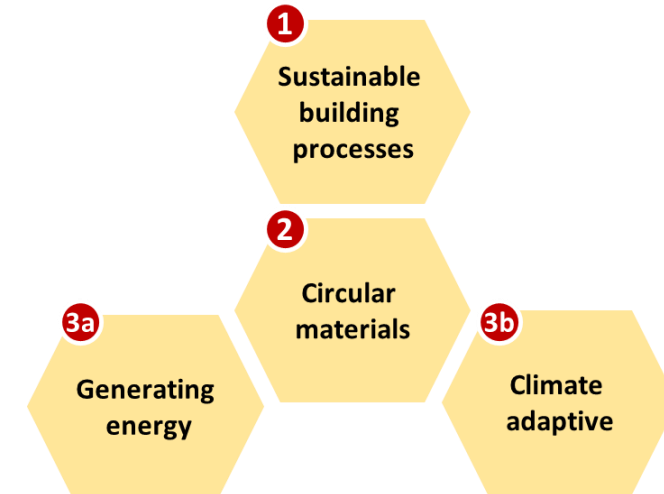
What is Scale up?

- Governments want to scale up solutions nationally or internationally and buy them
- The purchasing method can be for example innovation partnership which we want to transform into a tool for meaningful implementation of innovation
- The purchasing programme includes a research and development phase immediately followed by the commercial phase
- The solutions will be implemented and improved during two large implementation moments/test
- The governments will make their data available to the participating companies
- The governments work together with knowledge partners and the market to create and buy the best possible solutions



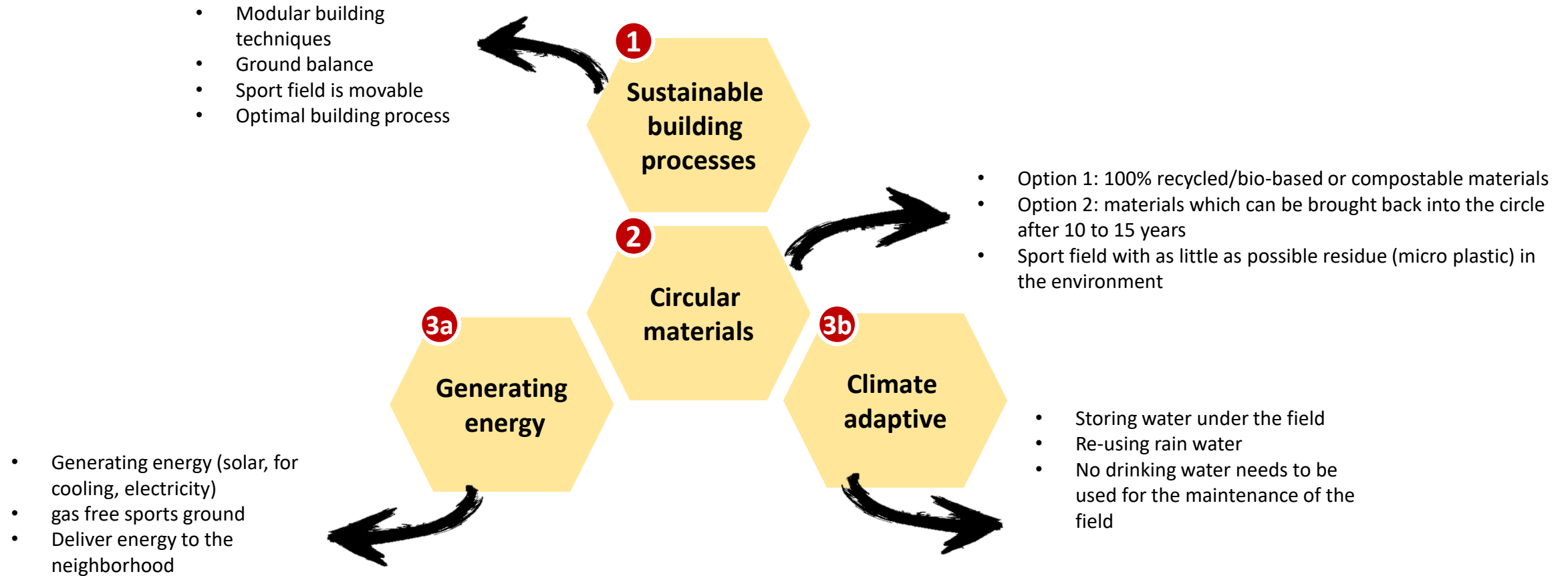
What are we looking for?

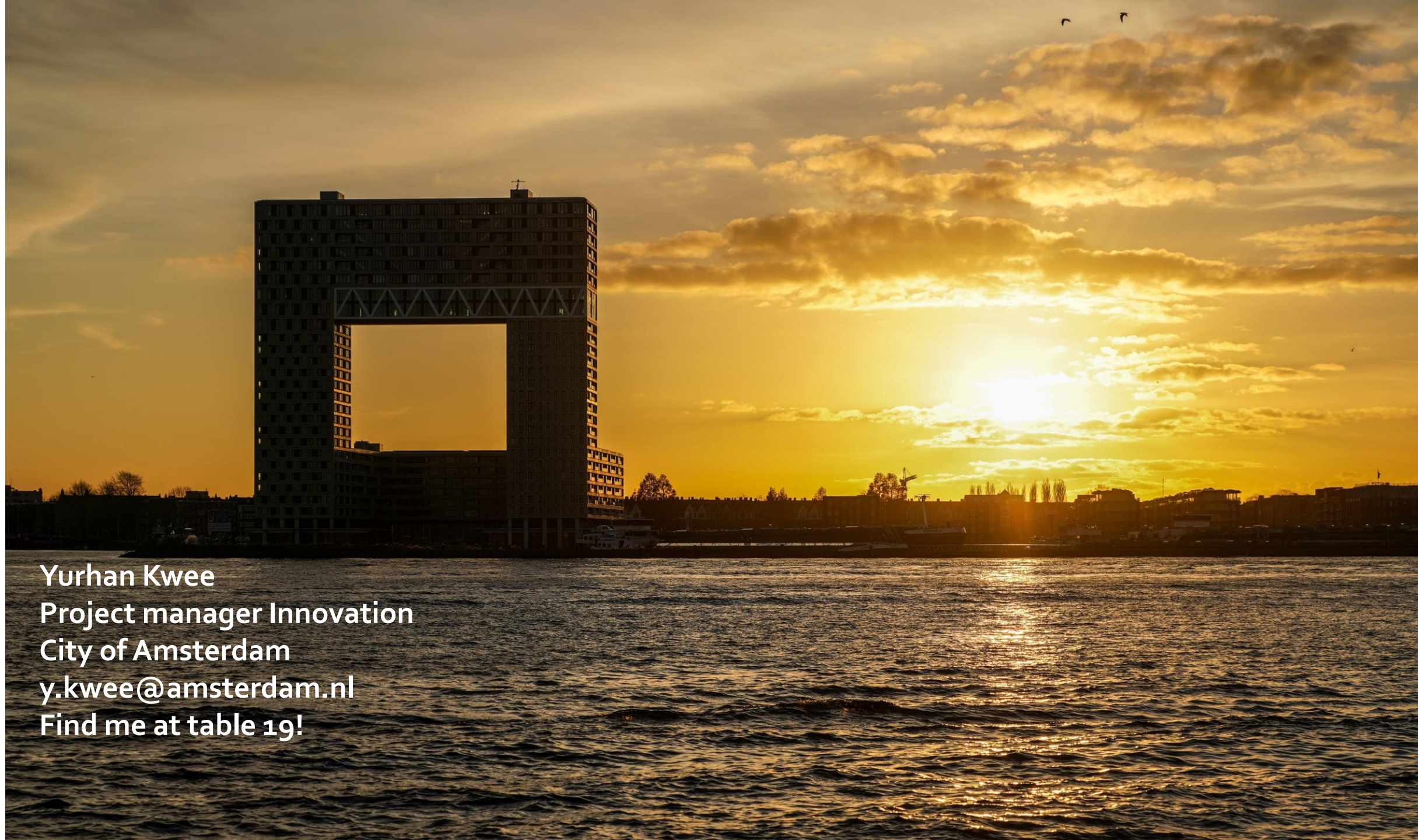
A chain / system solution



- We are asking the market to apply with chain partners in order to have all relevant core competencies in house
- We will choose 3-4 chains as our partners to develop and innovate the best solution!

Future proof sports fields





Yurhan Kwee
Project manager Innovation
City of Amsterdam
y.kwee@amsterdam.nl
Find me at table 19!

Project 4:

Radars PPI, Rapid Detection and control system for Antimicrobial Resistance

*Mr. Ion Arrizabalaga, Project Manager and Coordinator
Agència de Qualitat i Avaluació Sanitàries de Catalunya (AQuAS)
Spain*



SMARTCITY
EXPO WORLD CONGRESS

15 - 17 NOVEMBER 2022

BARCELONA & ONLINE



Smart City Expo World Congress 2022

Radar PPI, Rapid Detection and control system for Antimicrobial Resistance

Ion Arrizabalaga (AQuAS)



Co-funded by the COSME programme
of the European Union



AMR Problematic

The Problem

Antimicrobial Resistance (AMR)

In 2019, **4.95 million** people died from illnesses in which bacterial AMR played a part. **1.27 million** as direct result of AMR.

More deaths than cancer by **2050**

High economic burden: **1.5 billion** euros annually in healthcare costs and productivity losses in EU

The ways we treat illnesses now will endanger our health in the future

The Need

To respond Joint Action on Antimicrobial Resistance (EU-JAMRAI) and EU Action plan (2017-2020):

Improve early detection systems to ensure **quality care process**

Screen drug-resistance and virulence to improve **treatment effectiveness**

Reduce both Healthcare and governmental **costs**

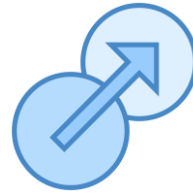
Report and rapid communication system to **increase system resilience**

Follow up of ANTI-SUPERBUGS PCP



The ANTI-SUPERBUGS PCP buyers group challenged the market to develop **novel medical technologies** that will:

- Rapid detect the presence of MDROs in the hospital premises.
- Improve the appropriateness of antibiotics usage
- Reduce the community and social care impact of Hospital-Acquired Infections.



- ▶ Extend and leverage from the outcomes of ANTI-SUPERBUGS PCP
- ▶ New research and development arising from the pandemic crisis caused by Covid-19
- ▶ New procurement organisations' specific needs
- ▶ Develop new reimbursement models



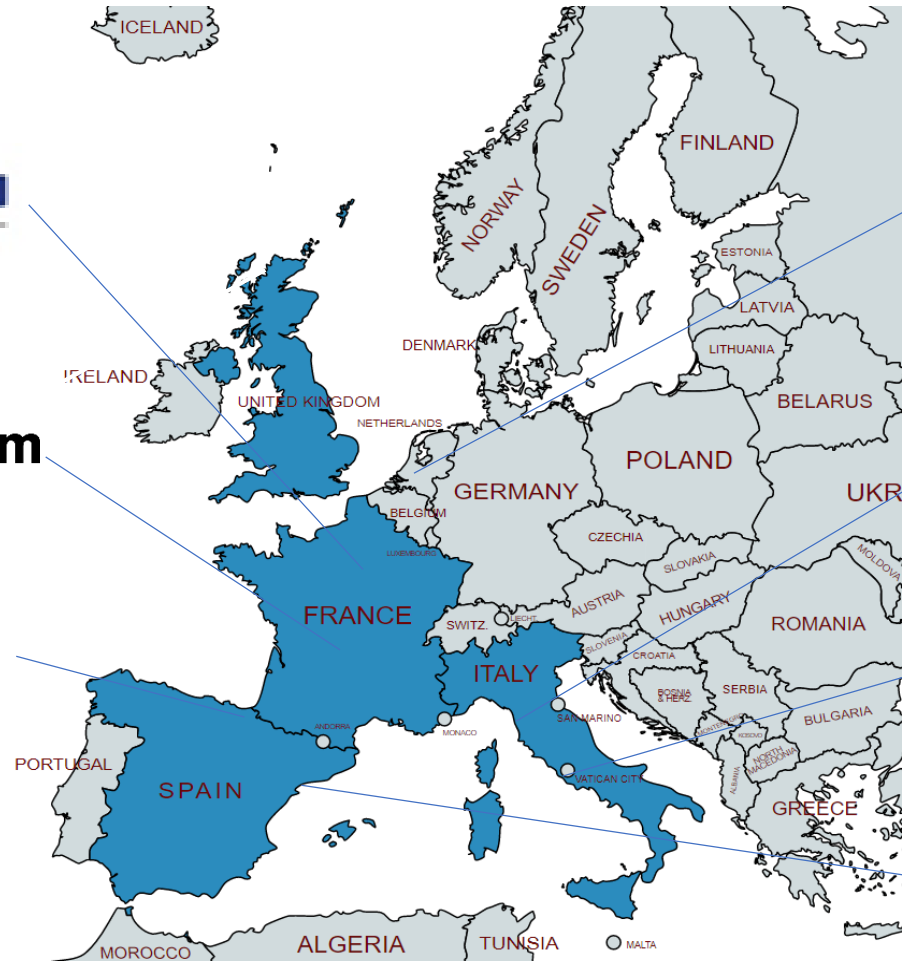
Consortium

Buyers

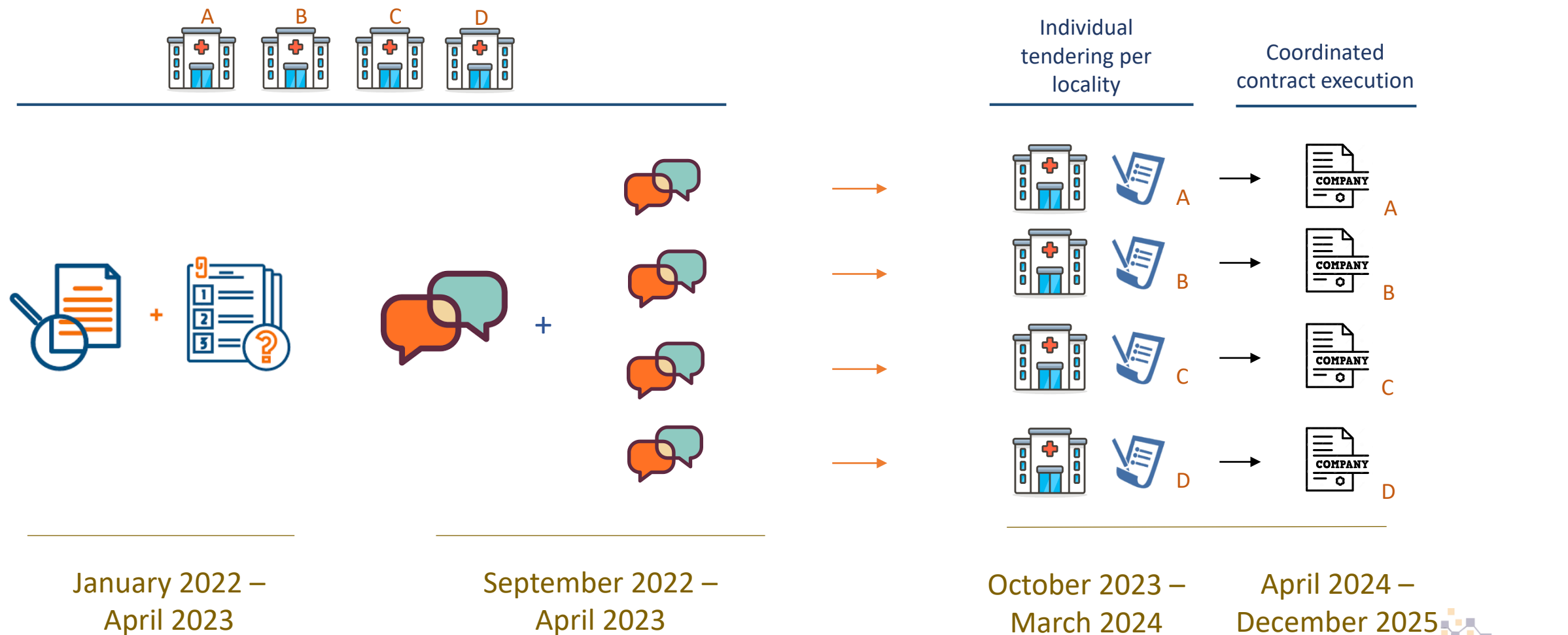
1. RESAH (Lead Procurer) - France
2. Basque Health Service - Spain
3. Oncology Institute of Catalunya - Spain
4. Universidad de Nápoles Federico II - Public Health Department – Italy

Supporting Entities

5. AQuAS (Coord) – Spain
6. INSERM – France
7. INSME – Italy
8. JERA- UK
9. BD-HRI- Spain



Collaborative cross-border procurement model



First reflections



Rapid & Accurate Detection

1

Identifying the specific MDRO and the resistant gene

2

Solutions for application different areas (microbiology labs, PoC, primary care)

3

Be easy to use and minimally invasive of patients, while maintaining safely and accuracy of results.



Smart AMR Management

1

Transfer detection results to the right people in 'real time' in a way that elicits a prompt and informed response.

2

Enable the secure storage and clinical access to pertinent information about a patient's AMR status.

3

Be integrated within the organisations clinical and AMR management workflow and interface with existing IT systems



Next Steps

1

Launch of the **Market Sounding** to present the preliminary requirements of the four buyers to the market



2

Engage and consult the **market** about defined requirements and understand **their ability to respond**

3

Create **synergies** with experts / networks focused on AMR



Co-funded by the COSME programme
of the European Union

Engage with us



LinkedIn



Twitter

Webpage : www.radar-ppi.com

Project 5:

Welsh Government Hydrogen Business Research & Innovation for Decarbonisation (HyBRID)

*Ms. Kate Williams, Challenge-Led Innovation Projects Manager
Welsh Government
United Kingdom*



Llywodraeth Cymru
Welsh Government

www.cymru.gov.uk

Welsh Government Hydrogen Business Research & Innovation for Decarbonisation (HyBRID)

Kate Williams –
Challenge-Led Innovation Projects

SBRI Government challenges.
Ideas from business.
Innovative solutions.

Hydrogen Business Research & Innovation for Decarbonisation (HyBRID)

HyBRID

- A Small Business Research Initiative (SBRI) competition
- Funded by the Welsh Government
- To develop innovative and research solutions which support one or more of the ten objectives of the Welsh Government [Wales Hydrogen Pathway report](#) , which have been incorporated into the second carbon reduction plan (Net Zero Wales CB2 – 2021-2025).
- To accelerate the development of technologies and processes which enable the deployment of hydrogen as a keystone energy vector
- Critical for meeting our national commitment to achieve net zero emissions by 2050.
- Phase 1 funding is available for feasibility and development (R&D) contracts for projects with costs up to £50,000 inclusive of VAT.
- Total funding budget available of £750,000, inclusive of VAT to deliver Phase 1 of this SBRI challenge.



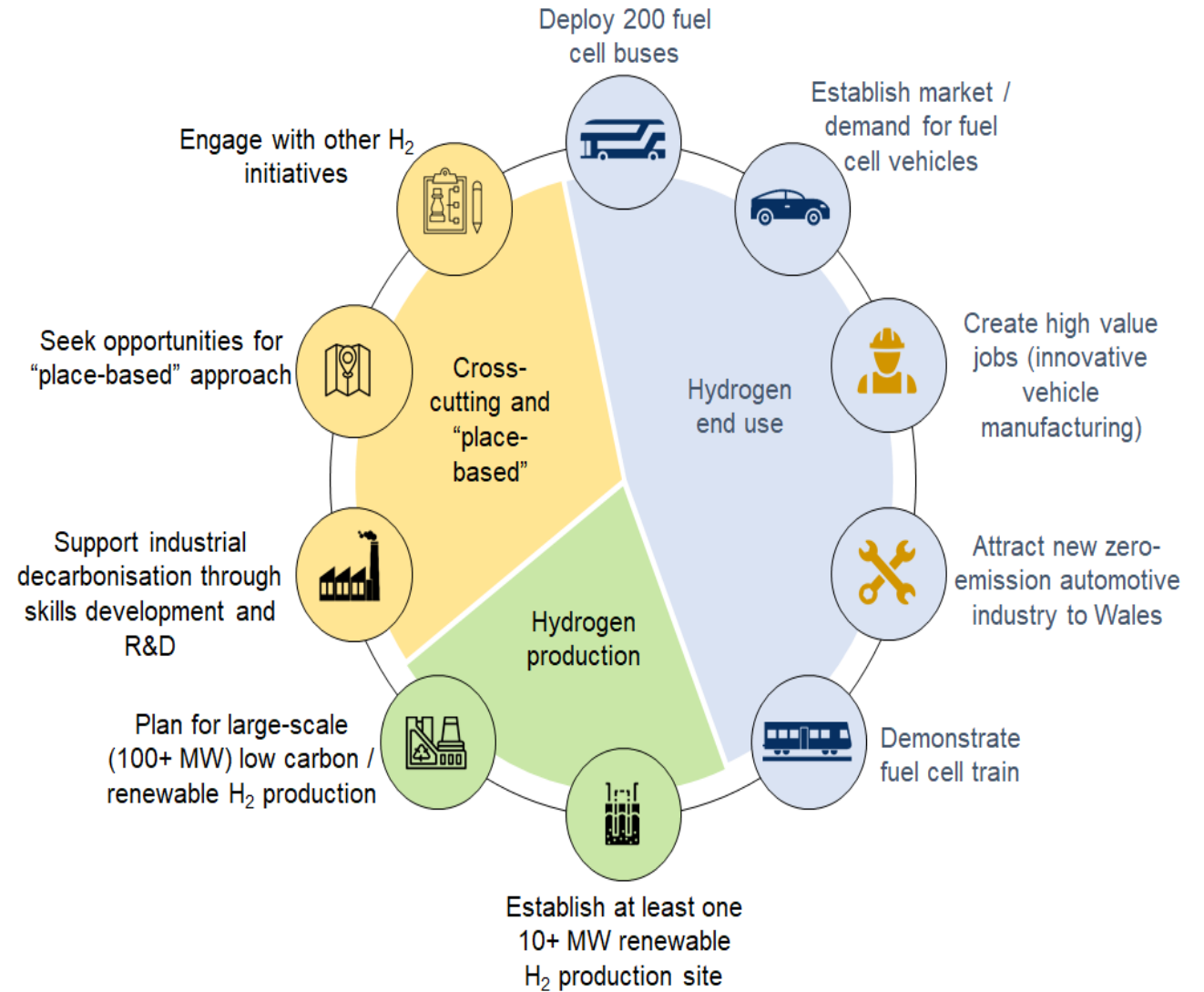


Scope: to enable businesses and organisations to deliver decarbonisation innovation and research solutions supporting one or more of 10 objectives identified by the Wales Hydrogen Pathway to enable successful deployment of hydrogen across the Welsh economy.

- Test new and emerging innovations via feasibility studies and further development of ideas through research and development projects. These could lead to small-scale trials
- Identify clear route to market, scalability and sustainability for your product or service, that can be delivered at pace
- Have clearly identified existing and/or potential customers in Wales and how you will work together at the time of the award
- Demonstrate the technical, development and market feasibility of your proposed innovation and describe how your innovation is addressing critical environmental, economic or social challenges
- Identify the social, economic and environmental impacts the project will deliver and describe how these will be measured, evidenced and reported
- Formalise any required ethical approvals, data sharing agreements and contracts
- Create evidence base for further development and scale-up,
- Fall within the scope of Wales Hydrogen Pathway themes and objective and be at Technology Readiness Level (TRL) 3-7 at the start of the project.

Ten proposed near-term objectives for Hydrogen deployment in Wales

- **Themes:**
- A. Hydrogen end-use
- B. Hydrogen production
- C. Cross-cutting/place-based actions



Key Dates

Open date	15 November 2022
Close date	14 December 2022
Briefing event	22 November 2022
Interviews with Suppliers	Week beginning 9 January 2023
Decision Release	Week beginning 16 January 2023
Phase 1 contracts awarded	Week beginning 16 January 2023
Feedback	Date to be confirmed.
Projects Commence	19 January 2023
Projects Complete	30 June 2023

Dates may be subject to change

To Apply: [View Notice - Sell2Wales \(gov.wales\)](https://gov.wales/sell2wales)

The Sustainable Production & Supply of Food Challenge

3 Phased SBRI – Cardiff Council in collaboration with Monmouthshire County Council

<https://sdi.click/spsf>

This SBRI challenge is seeking to identify and support projects to develop innovative solutions which can significantly improve the sustainable production and supply of food.

Problem 1: how they will increase the sustainable production of food in the region and generate positive economic, social and environmental impacts.

Problem 2: how they will increase the supply of nutritious, locally grown food whilst ensuring a fair price for producers and the wellbeing of future generations.

The Challenge is looking for applicants which can demonstrate how they aim to harness the potential of land, technology and people to increase the sustainable production and supply of locally grown food in the Cardiff Capital Region.

Closing date: 02/12/2022





New SBRI Competitions Now Open for Applications!

Challenge 1:
Patient Communications:
improving access to information
for relatives and reducing
demand on staff time

Challenge 2:
Improving ergonomics for ENT
Surgeons performing EES
surgery

Challenge 3: Coming Soon!

Challenge 4: Coming Soon!



Closing Date:
14 December 2022

Please follow the links to read more:

Patient Comms: <https://bit.ly/3EI86rw>

ENT Surgery: <https://bit.ly/3OfKePo>

Register for Briefing Event 30/11/2022: <https://bit.ly/3gbrGDr>

Project 6:

Greater Paris Metropolis: Urban Innovation experimentation

*Mr. David Monteau, Economic Development Policy and Digital Affairs
Greater Paris Metropolitan Region
France*



CALL FOR PROJECTS

**Do you want to design the sustainable
city of tomorrow ? Experiment in the
Greater Paris Metropolis**

PARIS&CO



**Métropole
du Grand Paris**



**BANQUE des
TERRITOIRES**



**Caisse
des Dépôts**

THE GREATER PARIS METROPOLIS



THE LOCAL AUTHORITY OF THE DENSE URBAN AREA OF "GREATER PARIS"

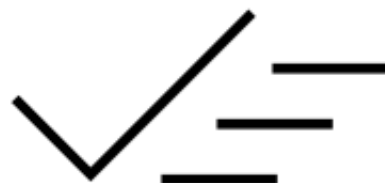


7,2
million
of inhabitants



489
Billions of €

25% of the French GDP
concentrated in the
Metropolis



208
elected officials
by suffrage
universal direct

131 TOWNS UNITED

TO TACKLE MAJOR URBAN CHALLENGES OF GREATER PARIS

SOCIAL



ENVIRONMENTAL



ECONOMIC



THROUGH COLLECTIVE PROJECTS WITH MUNICIPALITIES, TERRITORIES, COMPANIES AND ASSOCIATIONS

Adaptation to climate change, fight against pollution,
low tech, housing, real estate, new mobilities, circular
economy, sustainable waste management, health,
logistics, smart city, resilience...

YOU CARRY OUT A PROJECT WITH A POSITIVE
ENVIRONMENTAL AND SOCIAL IMPACT ?
LET'S EXPERIMENT TOGETHER!

FREE SUPPORT

COACHING



NETWORKING



VISIBILITY



EVALUATION





AND

**WE HELP YOU
FIND FINANCING**





STARTING FEB. 2023



CONTACT

SEVINC AR

sevinc.ar@chooseparisregion.org



LEARN MORE

[www.metropolegrandparis.fr](http://www.metropolegrandparis.fr/en/quartiersmetropolitainsinnovation)
[/en/quartiersmetropolitainsinnovation](http://www.metropolegrandparis.fr/en/quartiersmetropolitainsinnovation)

PARIS&CO



BANQUE des
TERRITOIRES



METROPOLITAN DISTRICTS OF INNOVATION



CHOOSE
PARIS
REGION

Project 7:

CivTech 8 - Open Challenges in Scotland

*Mr. Graeme Jarvie, Challenge Manager
CIVTECH Scotland
United Kingdom*



CivTech[®]

Our mission is to drive daring and innovation in the public sector by collaboratively solving challenges **to make people's lives better**, and in doing so create generations of sustainable high growth businesses

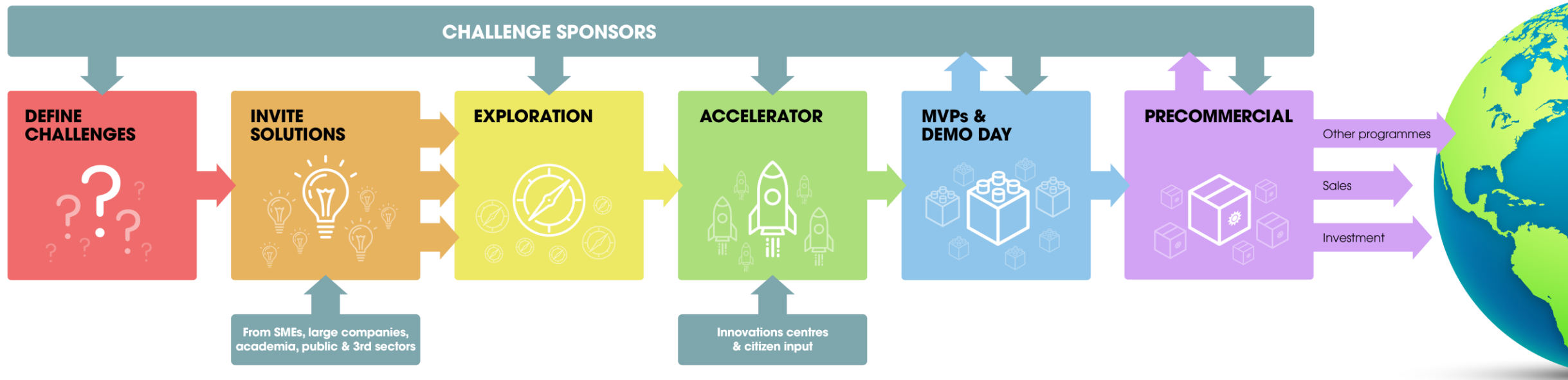
Our vision is **a transformed Scotland** with the best public services in the world

CivTech[®]

How do you procure
what you don't know exists?



CivTech®



CivTech[®]

Regarded as the '**gold standard**' innovation driver

83

Challenges

90%

early stage SMEs

327

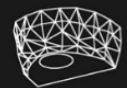
jobs created
by companies

£67m

investment raised
by companies

CivTech®

Cohorts 1–6 plus sprints, March 2022



RiverTrack[®]

***Affordable river level
monitoring to provide flood
alerting to rural communities***



How can technology help to quickly identify and prioritise support for people in the most vulnerable situations, starting with those having energy problems?





How can technology help drive effective resource management for a multiskilled workforce in a constantly changing environment?





Innovate for Nature



A partnership to tackle the nature-climate crisis through innovation

CivTech[®]



How can technology help to create a nature network by 2030 across all of the different areas of Scotland?





How can technology help
us better assess and identify
projects and opportunities
that will improve and increase
investment in Scotland's
marine natural capital?

marinescotland



How can technology help
NatureScot flexibly manage
its understanding of the state
of protected areas by
making best use of
available evidence?



NatureScot

Scotland's Nature Agency
Buidheann Nàdair na h-Alba





How can biodiversity credits be designed in a way that provides simplicity for projects and buyers, and enables investment in Scotland's nature?



Scottish Government
Riaghaltas na h-Alba
gov.scot



Civitech[®]

CivTech[®]

Deadline for applications: 28th November 2022

www.civtech.scot

Twitter: @CivTechScotland
[linkedin.com/showcase/civtech](https://www.linkedin.com/showcase/civtech)

Q&A

Thank you!

ACCIO Barcelona

✉ amonistrol@gencat.cat

👤 Anna Monistrol

🐦 [@eencat](https://twitter.com/@eencat)

🌐 [@Enterprise Europe Netowrk Spain](https://www.een.cat)

🌐 www.een.cat

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