

SMART4ALL TOOLKIT FOR DIHs

A toolkit created to support Digital Innovation Hubs (DIHs) that want to help the **small and medium-sized enterprises** (SMEs) within their ecosystem in the adoption of industry for Customized Low - Energy Computing (**CLEC**) for Cyber Physical Systems (**CPS**) and Internet of Things (**IoT**) solutions



ABOUT SMART4ALL PROJECT

SMART4ALL is an **extensive network of Digital Innovation Hubs** for boosting **technology and business development** in South, Eastern and Central Europe. SMART4ALL promotes the **transfer of knowledge and technology** between academic institutions and industry. The focus is on the application domains presented below



DIGITIZED TRANSPORT

(e.g. smart mobility)

DIGITIZED ENVIRONMENT

(e.g. smart building)

DIGITIZED AGRICULTURE

(e.g. smart farming)

DIGITIZED ANYTHING

(e.g. smart healthcare)

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(ecosystem, business, technology)

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Objectives & Value Proposition

OBJECTIVE OF THE TOOLKIT

The SMART4ALL Toolkit is designed to help **DIHs** become the **key intermediaries between the SMART4ALL Marketplace and the SMEs of their ecosystem**. The toolkit provides DIHs with the necessary information, tools, and resources to:

- Understand the SMART4ALL **Marketplace** platform and its **benefits and impacts** on the following verticals: Transport, Environment, Agriculture, Anything
- Offer and deliver the **services and support** that can help the SMEs to adopt the SMART4ALL Marketplace and the components to achieve their **digital transformation** goals.

WHAT DOES SMART4ALL OFFER?

- **Point of reference for DIHs and the industry** for Customized Low - Energy Computing (CLEC) for Cyber Physical Systems (CPS) and Internet of Things (IoT) solutions
- One-stop-shop through the Marketplace-as-a-service platform - **tech solutions and connections with other DIHs across Europe**
- **Customized services/expertise** in specific application areas
- **Matchmaking services:** Access to human resources, and talents (cross-domain experts)
- Access to **extensive network of partners** with extensive partnership opportunities with a wide geographic coverage
- **Hub-in-a-hub connection services:** Online tool in pilot application to be offered to (E)DIHs, upon their members' consent. Hub-in-a-hub tool uses filters for **showcasing DIHs** in a separate mode on the SMART4ALL network, which allows the user to search for specific DIHs and find out their members and their contact details. **All members can equivalently use the Matchmaking services of the Marketplace** (see page 5)

SMART4ALL services in a nutshell

ECOSYSTEM

- Access to SMART4ALL growing **network** of 1044 members
- Identify **funding opportunities** for Local and European funding
- **Interconnection** with other networks such as Smart4Women, HiPEAC and others

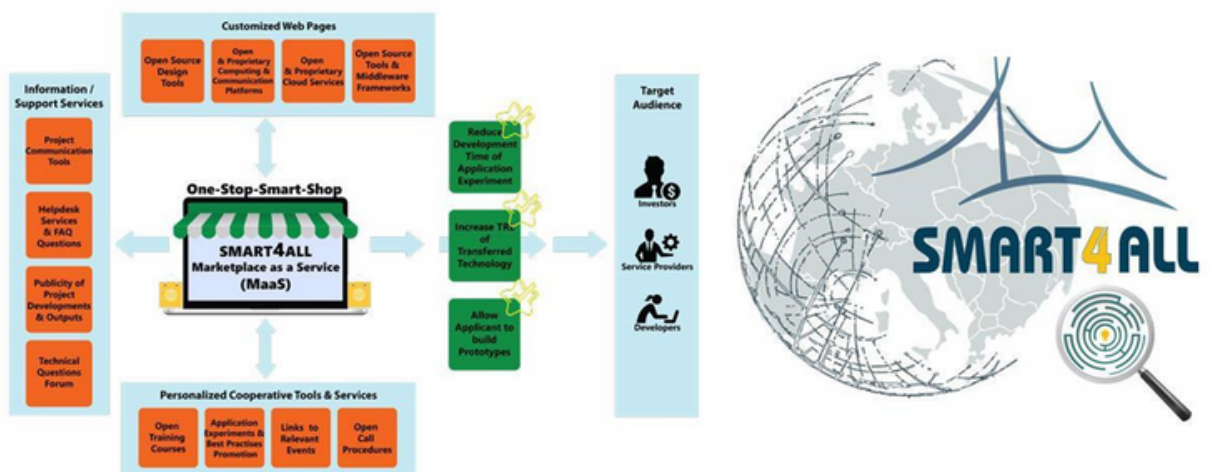
BUSINESS

- Training **courses** available online
- Dissemination & business development & exposure

TECHNOLOGY

- Access to state-of-the-art **High Performance Computing infrastructures** and services
- Technological **matchmaking**
- Training **courses** available online

SMART4ALL MARKETPLACE



Visit the Marketplace →



SMART4ALL Marketplace is a unique **one-stop-smart-shop** for experts and non-expert third-parties seeking (open-source mainly) **ICT technologies** that will reduce the development time of startups/SMEs/mid-cap that are doing business in one of the four SMART4ALL thematic areas.



SMART4ALL Marketplace offers information and access to **cloud services**, related **platforms, tools** and **middleware frameworks** and **education** which is continuously expanding on a wide range of technologies. Through a **user-friendly environment**, the end user without any registration requirements can browse through the Marketplace **resources and information**. Then, following a typical registration procedure he/she can enjoy the benefits of accessing the resources, contributing resources, becoming a member of the SMART4ALL network as well as enjoying the **continuously extending set of services and facilities** that SMART4ALL Marketplace will provide.

Marketplace-as-a-Service



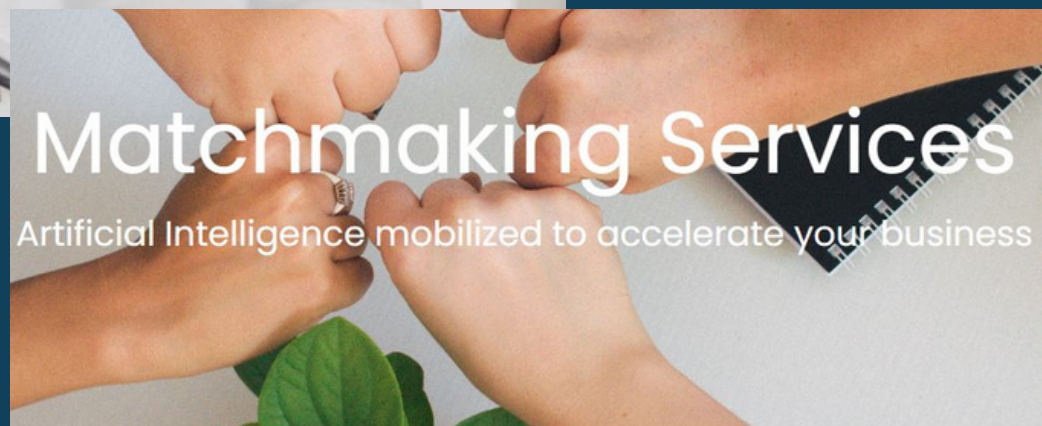
SMART4ALL Network

- Community building among growing network of 1044 members from industrial and academic field (SMEs, big companies, universities, research and development institutions, NGOs and other DIHs)
- 61 % of the members come from South East European countries



SMART4ALL Repository

- **245** useful **open-source tools**, **web-services** and **codes** developed internally or by research projects
- Application Notes and Getting-Started Guides
- **Open Courses** along with links and short descriptions to the courses
- **Results** of SMART4ALL Pathfinder Application Experiments (PAEs)



Matchmaking Service

- Manual multifaceted matchmaking considering suitable entities, artefacts, events and relative success stories, results can be exported and saved for future reference
- AI Matchmaking: The results that look interesting based on a user's profile are stored in his/her history and can also provide a score that will be used in the future to optimize the recommendations
- Matchmaking Request List: All registered users can post a request for collaboration of any framework/type related to SMART4ALL objectives

Innovation Space

Innovation Space is a featured asset in the SMART4ALL Marketplace where **success stories** of partners and members who took advantage of the SMART4ALL opportunities are shown. It provides **showroom** for the Experiments, such as:

- Opportunity to present the projects and the partners
- SMART4ALL experts help with the creation of the presentation
- **Interactive map** with the exact location of each partner involved in successful experiments
- **Instant messaging** will be provided to facilitate rapid interconnection
- After the end of the project (March 2024), success stories from external partners – members of the SMART4ALL network could be showcased on the Innovation Space, after evaluation, provided that adequate material is offered as requested*

Services offered by HPC center

- Software-as-a-Service (SaaS)
- Hardware-as-a-Service (HaaS)
- Scalable architecture to meet high workloads and provide 24/7 availability
- 24/7 support by technology experts
- High speed network interconnection
- Open source software employed from virtualization to application



* This service may be charged with a symbolic fee in the future depending on SMART4ALL governing bodies' decision

Other services & success stories

DIGITIZATION MATURITY ASSESSMENT TOOL

A tool indicating the **current state of** an SME in terms of **digitalisation** and offering a **roadmap** for future digitalization within the services offered by SMART4ALL based on **identification of key digitization aspects** and especially bottlenecks and deficiencies



SUCCESS STORIES

- **67 cross-border experiments** executed by **148 industrial and academic/research partners** from **22 countries** have been funded via **9 open calls**, each getting from 8K to 80K. **Total funding: 2,2 Mio Euros** (allocation of funding per country here <https://funding-map.smart4all-project.eu/>)
- Find out **selected success stories** on the Innovation Space here <https://marketplace.smart4all-project.eu/innovation> and on SMART4ALL YouTube channel <http://tinyurl.com/smart4allYT>





Reinventing collaboration



Resources & further reading

- SMART4ALL Marketplace flyer :
<http://tinyurl.com/S4AMaaS>
- Marketplace Technology Services Handbook:
<http://tinyurl.com/S4AMaaSHandbook>

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