



**SELSUSTAINED CROSS-BORDER CUSTOMIZED  
CYBERPHYSICAL SYSTEM EXPERIMENTS  
FOR CAPACITY BUILDING AMONG EUROPEAN STAKEHOLDERS**

**SMART4ALL**  
1st Webinar  
MarketPlace & Services

**Assistant Prof. Christos Antonopoulos**  
University of Peloponnese  
*SMART4ALL Technical Manager*



Co-funded by the Horizon 2020 programme  
of the European Union

DT-ICT-01-2019  
Smart Anything Everywhere Area 2

[www.smart4all-project.eu](http://www.smart4all-project.eu)  
Grant Agreement: 872614

# In relation to Project Objectives

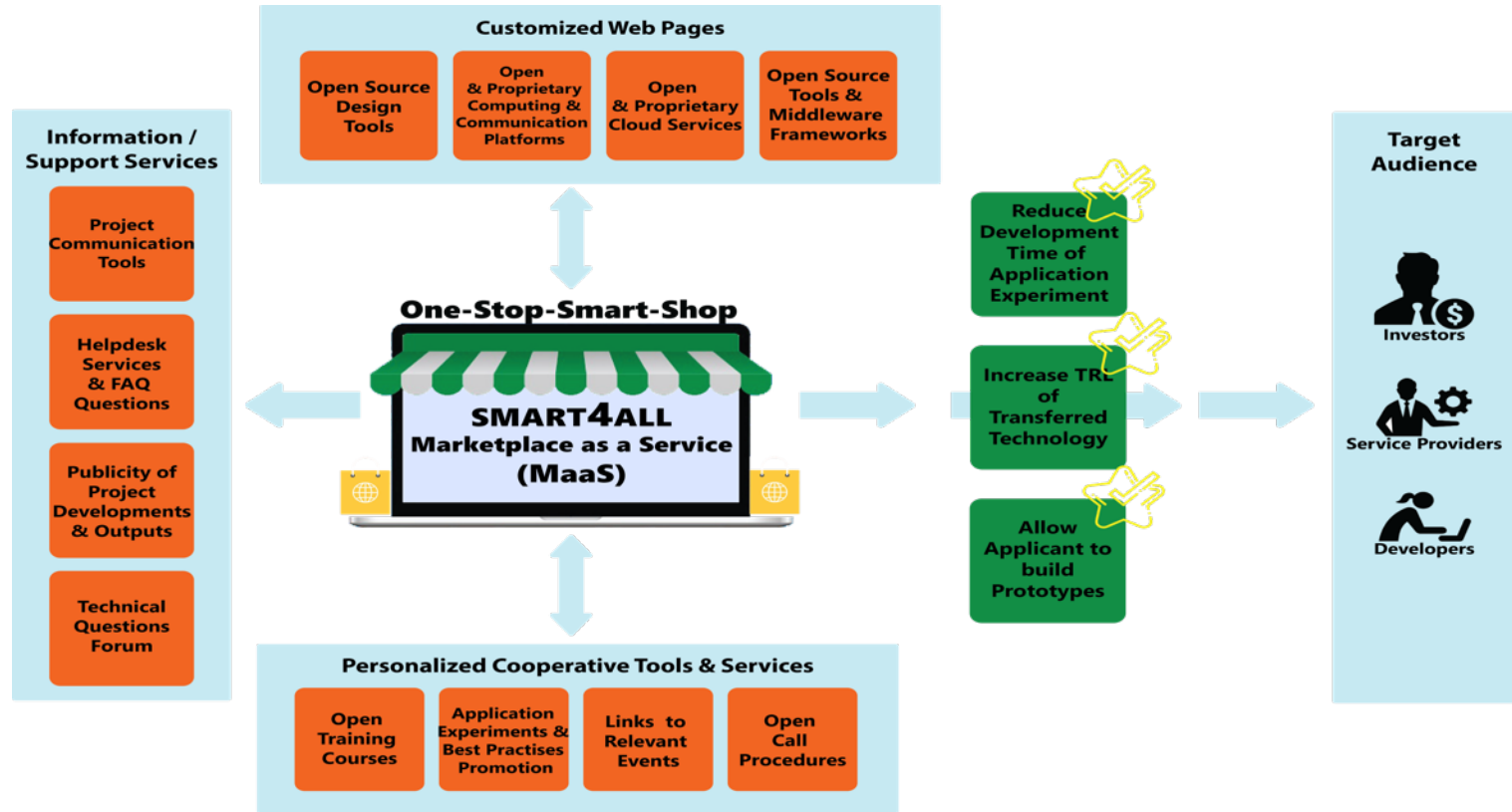
## To ensure post-project sustainability and growth of the SMART4ALL experiments and DIHs network

- SMART4ALL MaaS facilitates brokerage of Pathfinder Application Experiments (PAEs)
- Mature service attracting customers in the post-project period.
- Matchmaking Services

## Marketplace as a Service Concept is one the cornerstones/flagships of Smart4ALL

- **What is it ?** A novel one-stop-smart-shop for experts and non-expert third parties seeking (open-source mainly) ICT technologies
- **What is its main target ?** reduce the development time of an startup /SME/mid-cap that is doing business in one of the four SMART4ALL thematic areas
- **Unique selling point:** AI based match-making and collaboration activities will be hosted in the MaaS

# SMART4ALL Marketplace

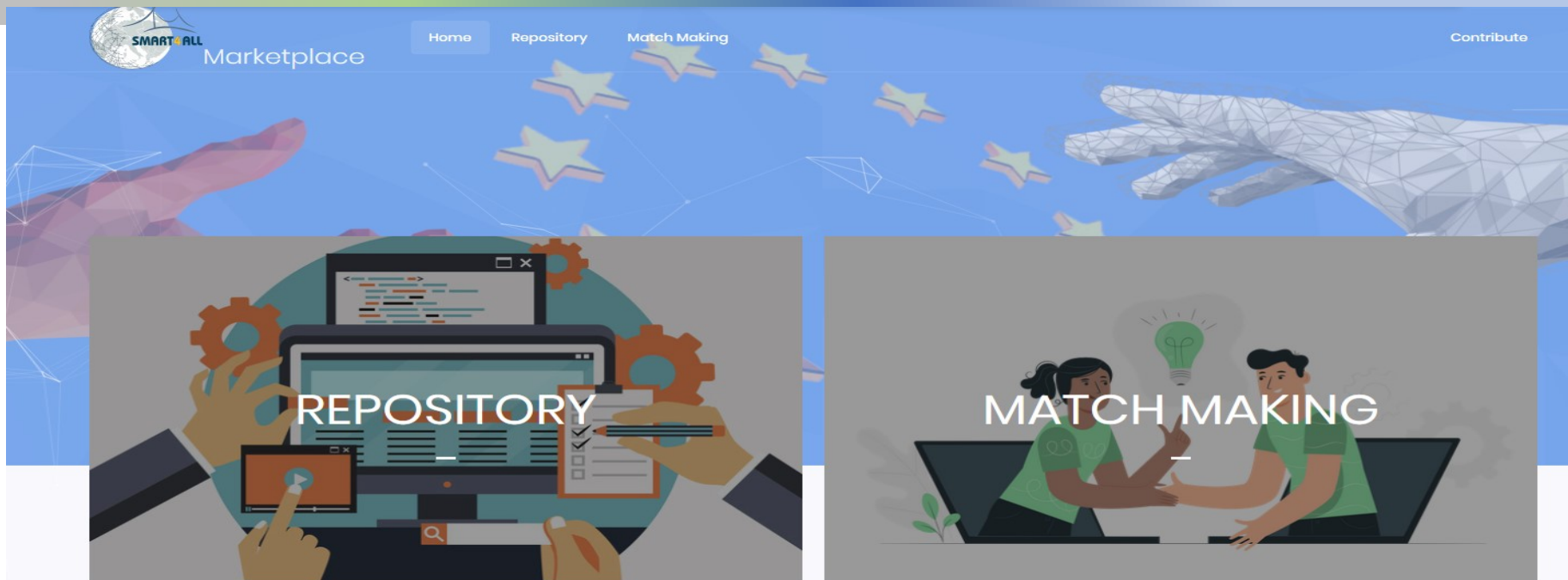


## How MaaS will achieve its goal, to offer the “Prepare for Growth” Services

- Offer practical technical tools/services to accelerate design, development, prototyping
- Serve as a path towards brokerage, coaching and guidance services to access funds and pave the path towards market growth and investment manufacturing phases
- Showcase good practices and golden examples through specific PAEs and/or collaborations achieved in the context of SMART4ALL

**SMART4ALL through the concept of  
MarketPlace will offer a nexus of services**

# The MarketPlace SW infrastructure



SMART4ALL has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 872614

SMART4ALL is a four-year Innovation Action project funded under Horizon 2020 framework under call DT-ICT-01-2019: Smart Anything Everywhere – Area 2: Customized low energy computing powering CPS and the IoT.

# The MarketPlace SW infrastructure

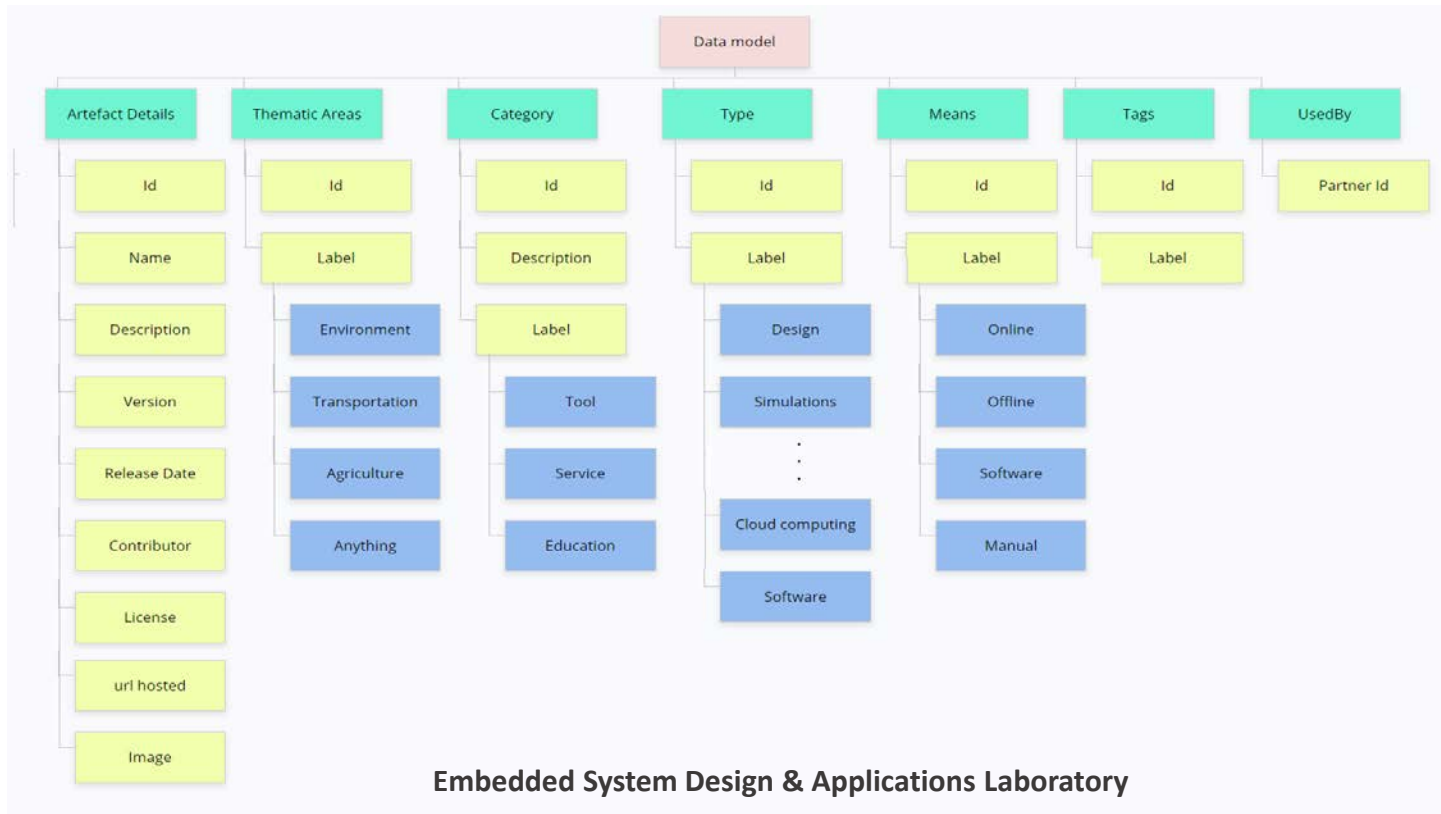
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- Repository of artefacts
  - Tools (VMs, Dockers, SW, IPs etc.)
  - Educational material (tutorials, courses, training, how-to etc.)
  - Events (funding opportunities)
- Thematic areas
  - Environment
  - Agriculture
  - Transportation
  - Anything

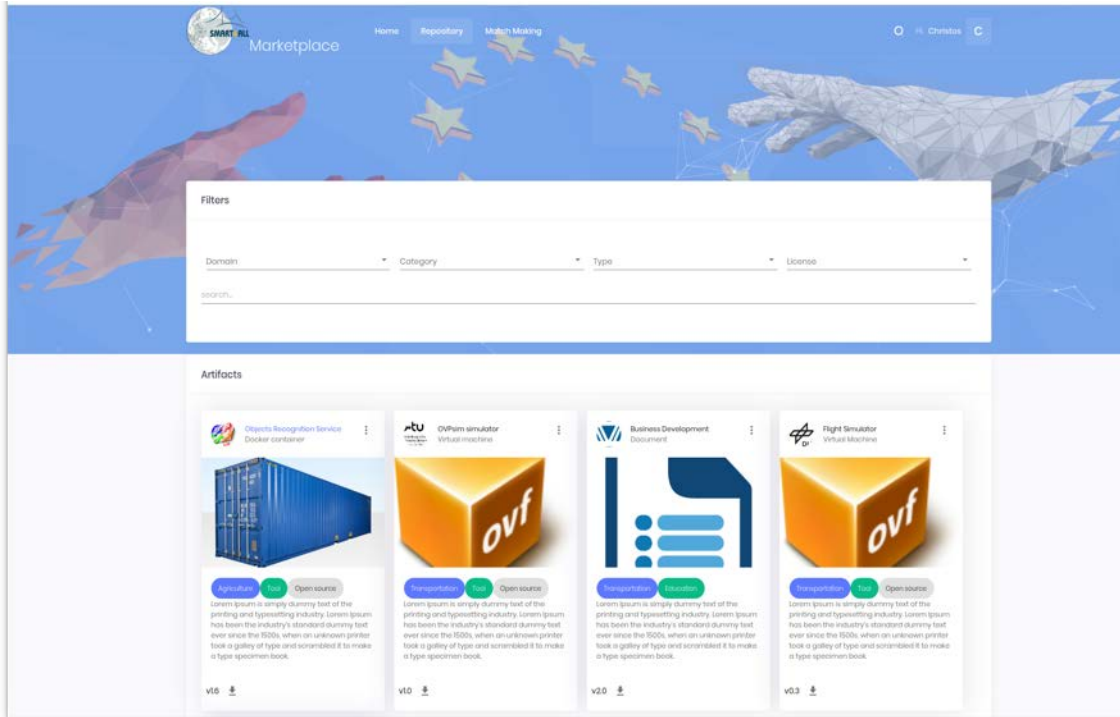


# The MarketPlace SW infrastructure

## Data model structure



# The MarketPlace SW infrastructure



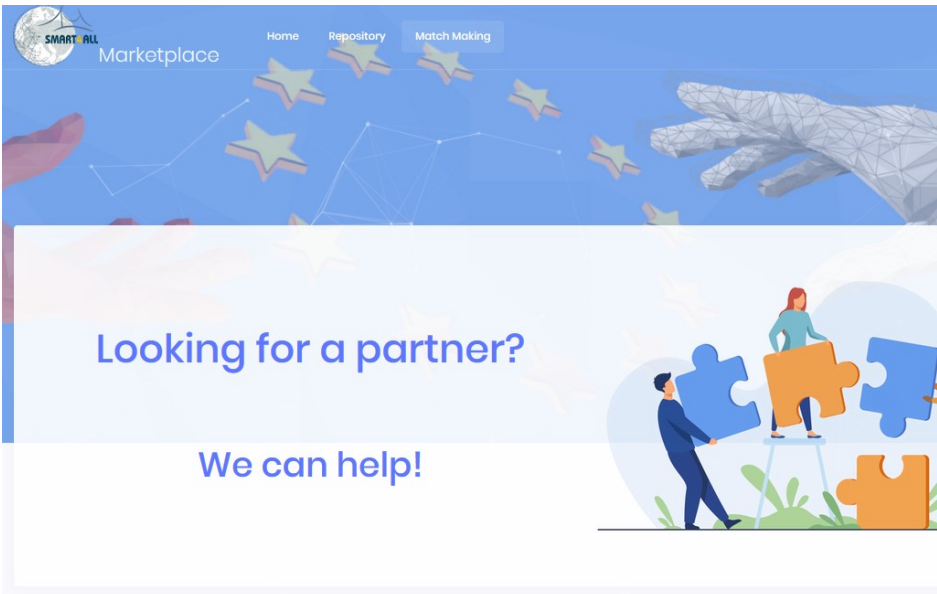
Marketplace follows the **microservices** paradigm where all the functionality is given as a set of **loosely coupled services powered by containerization technology**

## MaaS includes:

- Open and proprietary cloud services
- Open and proprietary computing and communication platforms
- Open-source tools and middleware frameworks
- Open-source design tools Training (model-based) open course

# The MarketPlace SW infrastructure

<https://matchmaking.smart4all-project.eu>

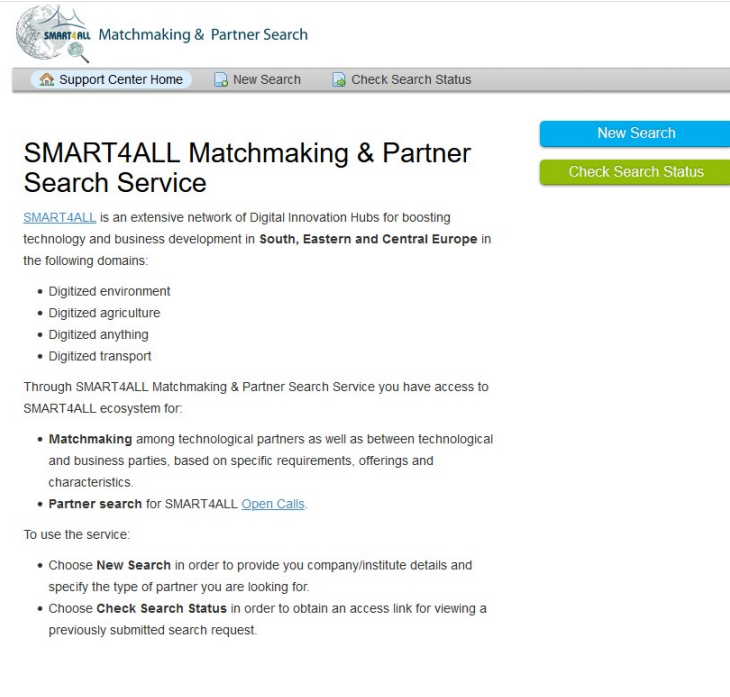


SMART4ALL Marketplace

Home Repository Match Making

Looking for a partner?

We can help!



SMART4ALL Matchmaking & Partner Search

Support Center Home New Search Check Search Status

**SMART4ALL Matchmaking & Partner Search Service**

SMART4ALL is an extensive network of Digital Innovation Hubs for boosting technology and business development in **South, Eastern and Central Europe** in the following domains:

- Digitized environment
- Digitized agriculture
- Digitized anything
- Digitized transport

Through SMART4ALL Matchmaking & Partner Search Service you have access to SMART4ALL ecosystem for:

- **Matchmaking** among technological partners as well as between technological and business parties, based on specific requirements, offerings and characteristics.
- **Partner search** for SMART4ALL [Open Calls](#).


To use the service:

- Choose **New Search** in order to provide you company/institute details and specify the type of partner you are looking for.
- Choose **Check Search Status** in order to obtain an access link for viewing a previously submitted search request.

SMART4ALL Self-sustained Cross-Border Customized Cyberphysical System Experiments for Capacity Building among European Stakeholders. SMART4ALL has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 872614

# SMART4ALL Tools – Matchmaking Service

<https://matchmaking.smart4all-project.eu>



Matchmaking & Partner Search

[Support Center Home](#) [New Search](#) [Check Search Status](#)

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Matchmaking & Partner Search

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### New Search

Please fill in the form below to create a new Search Ticket.

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#### Contact Information

**IMPORTANT NOTICE:**  
The **Email Address & Full Name** are required fields for creating a new Search Ticket to the "SMART4ALL Matchmaking & Partner Search Service"

**Email Address \***

**Full Name \***

**Help Topic**

SMART4ALL Matchmaking Info ▾

#### SMART4ALL Matchmaking & Partner Search Service: ORGANIZATION

Your Organization:

**Name \***


**Expertise \***

**Country \***

— Select — ▾

**Type \***

— Select — ▾



Matchmaking & Partner Search

[Support Center Home](#) [New Search](#) [Check Search Status](#)

### Check Search Status

Please provide your Email Address and a Search Ticket Number. An access link will be emailed to you.

**Email Address:**  
e.g. sll.smith@mycompany.com

**Search Ticket Number:**  
e.g. 001243

[Email Access Link](#)

If this is your first time contacting us or you've lost the Search Ticket Number, please [create a new Search](#)

# SMART4ALL Tools – Matchmaking Service

## AI based matchmaking (under development)

Match Making

Placeholder text: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin cursus pretium vestibulum. Curabitur accumsan luctus neque, sit amet consectetur sapien. Vivamus in metus sagittis justo ultramcorper varius et quis risus. Morbi fermentum id leo eget ornando.

Progress:  Describe Your Entity...  Describe Your Needs...  Get Your Match!!!

Looking for:

- Mentoring
- Tools
- Cooperation
- ????

Tell us something:

BACK

SMART4ALL Marketplace

Home Repository Match Making

Match Making

Placeholder text: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin cursus pretium vestibulum. Curabitur accumsan luctus neque, sit amet consectetur sapien. Vivamus in metus sagittis justo ultramcorper varius et quis risus. Morbi fermentum id leo eget ornando.

Progress:  Describe Your Entity...  Describe Your Needs...  Get Your Match!!!

Check out the following artifacts...

- Objects Recognition Service**  
Docker container  
v1.0
- OVPin emulator**  
Virtual machine  
v1.0

RESET

2020 © SMART4ALL

SMART4ALL has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 872064.

SMART4ALL is a four-year Innovation Action project funded under Horizon 2020 framework under call D1-101-01-2018 Smart Anything Everywhere – Area 2, Customized low energy computing powering CH and the IoT.

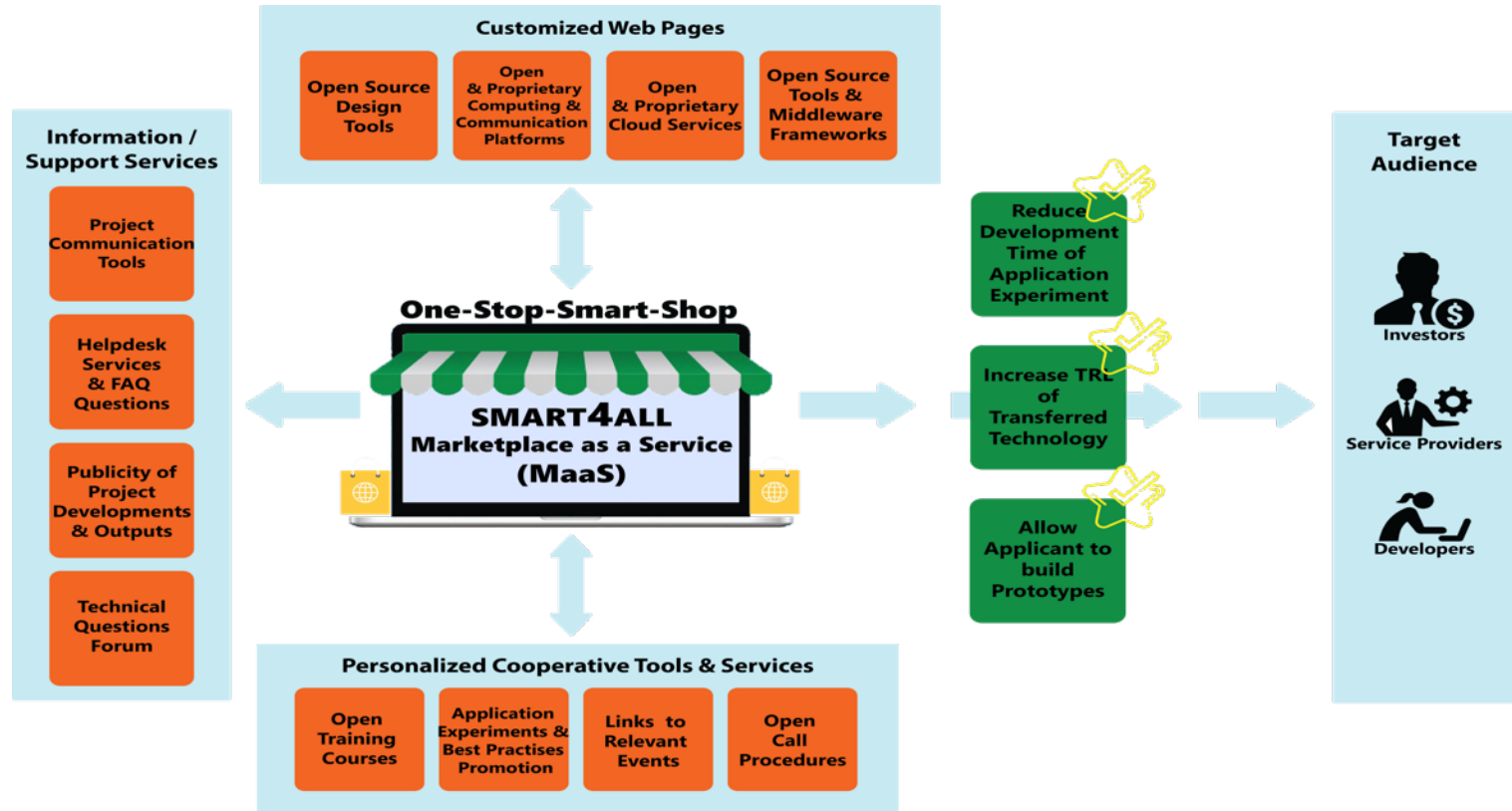
Enter Your Email

# The MarketPlace SW infrastructure

<https://marketplace.esda-lab.gr/home>

- Envisioned SMART4ALL Intelligent MatchMaking Service
  - Keyword match: Artefact in MarketPlace identified through their corresponding tags
  - NPL Techniques to be applied on artefacts with their corresponding tags
  - Schematics utilization
  - Collaborative filtering to achieve optimized recommendation
- Artefacts contribution
  - Both from SMART4ALL partners as well as funded projects

# SMART4ALL Marketplace



# SMART4ALL Tools – Project Website

<https://www.smart4all-project.eu>



The screenshot shows the homepage of the SMART4ALL project website. The background is a light blue geometric pattern. In the top left corner, there is a logo featuring a globe and the text 'SMART4ALL'. A navigation menu is located at the top, with links for 'Project', 'Marketplace', 'Network', 'Open Calls', 'Resources', 'Meet our Team', 'Join Us', 'COVID 19', 'CONTACT', 'Private Space', and a red 'APPLY' button. Below the navigation, there is a red circular icon with a white 'M' and the text 'Matchmaking'. The main heading is 'Reinventing Collaboration' in a white, cursive font. Below this is the 'SMART4ALL' logo in a bold, white, sans-serif font. At the bottom, there is a tagline: 'An extensive network of Digital Innovation Hubs for boosting technology and business development in South, Eastern and Central Europe'.

- Project news
- Access to SMART4ALL services
- Access to SMART4ALL Network in SEE
- Open call announcement
- Apply for SMART4ALL Open Calls

First Open Call for Knowledge Transfer Experiments - Submission Countdown

42 04 09 15  
Days Hours Minutes Seconds



# The SMART4ALL Added Value Services

## Auxiliary Services to Funded Project

- Each SMART4ALL funded project will receive
  - Technical coaching services
  - Business coaching services
  - Ethics coaching services (if required)

# The SMART4ALL Added Value Services

## Project Management Tools Support & Maintenance

- Each SMART4ALL funded project will receive a dedicated Next Cloud based infrastructure offering user-friendly, configurable, extensible and open collaborative and project management tools
  - File repository
  - Collaborative tools
  - Calendar
  - Task management tools
  - Reporting tools
  - Any more...
- SMART4ALL consortium will offer technical support, monitoring and maintenance to these tools

# SMART4ALL Infrastructure

**SMART4ALL offers to the members of its network/ecosystem cloud computing services through state-of-the-art hardware & software infrastructure:**

- Software-as-a-Service (SaaS)
- Hardware-as-a-Service (HaaS)
- Scalable architecture to meet work loads and provide 24/7 availability
- 24/7 support by technology experts
- High speed network interconnection with GRNET backbone
- Open source SW employed from virtualization to application layer

6 July 2020

[www.smart4all-project.eu](http://www.smart4all-project.eu)

**SMART4ALL infrastructure is hosted and maintained by**



UNIVERSITY OF PELOPONNESE



**ESDA  
LAB**

Embedded System  
Design & Applications  
Laboratory

## ESDA Lab Data Center

### 8 Rack Mounted High Performance Servers

Total CPUs: **164**

Total Memory: **1.216 GBytes**

Type 1 Hypervisors: VMWARE ESXi / Proxmox  
Virtualization Technologies

Next Generation Firewalls (HGFW) -  
Hardware / High Availability Cluster

Double hardware firewalls

Storage Area Network (SAN) - Fibre  
Channel (FC @ 16 Gbps) Infrastructure  
Capacity: **20 TBytes**

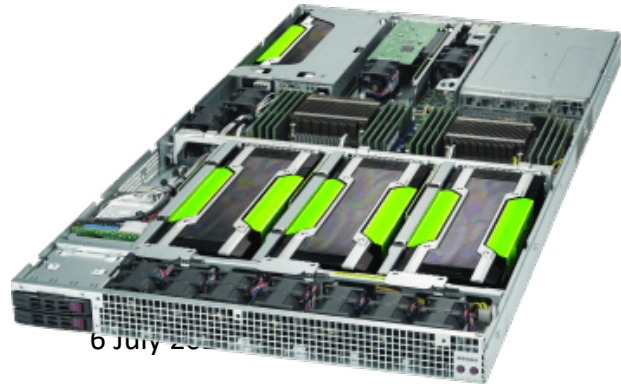
Network Attached Storage (NAS @  
1 Gbps) Infrastructure  
Capacity: **30 Tbytes**

# SMART4ALL Infrastructure

FPGA Cluster



GPU Cluster



## ESDA Lab Data Center

A cluster of both high-performance & embedded FPGAs and high-end GPUs will be available and offered through the SaaS frameworks

# Join now SMART4ALL Network !

Join now SMART4ALL Network in South, Eastern and Central Europe by:

- Applying to SMART4ALL Open Calls:  
<https://smart4all-project.eu/opencalls-apply-now>
- Subscribing to SMART4ALL newsletter:  
<https://smart4all-project.eu/joinus>
- Using SMART4ALL matchmaking services:  
<https://matchmaking.smart4all-project.eu>
- Employing SMART4ALL marketplace:  
<https://smart4all-project.eu/marketplace>



# SMART4ALL Social Media

Follow SMART4ALL on:



<https://www.linkedin.com/groups/12369183>



[https://twitter.com/Smart\\_4All](https://twitter.com/Smart_4All)

facebook

<https://www.facebook.com/SMART4ALL.Project>



<https://www.youtube.com/channel/UCwmSl9LCl2vNBO-3k75dvJA>

***... and stay up to date for the latest SMART4ALL news & activities !***

# Thank you for your attention – Questions?

