Web portal for Smart cities and communities: Connecting business and research

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About the partnership SRIP PMiS

SRIP: Strategic Research and Innovation Partnership
PMiS: Pametna mesta in skupnosti (eng. Smart Cities and Communities)

The mission
SRIP Smart cities and communities will create and support synergies between business and research in developing and selling new solutions and products for improving the quality of life in the cities of the future.

What does it offer?
We will build a support environment with professional services for industry and research, concentrating on proved new top technologies, which will integrate and upgrade existing Slovenian research and innovation achievements.

The staff of around 1,000 specialize in research in fundamental natural sciences.
Industrial verticals

6 industrial verticals

- Health
- Energy and utilities
- Mobility, transport and logistics
- Security
- Smart city ecosystem
- Urban life quality

The vision

The vision of partnership between the verticals in SRIP Smart Cities and Communities is to establish a globally recognised ecosystem of partners, permanently synergistically enhancing and linking their competence, as well as offering adequate capacities for R&D, production and marketing of globally competitive innovative high-tech solutions in all aspects of Smart cities and communities.
Horizontal ICT network

Horizontal ICT network covers 6 fields

- Cybersecurity
- Digital transformation
- GIS-T
- HPC and big data
- IoS
- IoT

The vision

Horizontal ICT network follows the vision of the Government of the Republic of Slovenia of making Slovenia a green reference country in digital Europe. The said referentiality is realized through an exemplary model of collaboration between the business sector, science and the government in the introduction of modern digital solutions into people’s lives.
Web portal for Smart cities and communities

Main idea
An efficient presentation of available technological tools and end-to-end solutions is needed to comprehensively connect all participants and share the know-how.

Our approach
Development of a Web platform that enables to intuitively register prototype solutions. End-to-end solutions presented on a platform seamlessly overlap specifics between horizontal networks and vertical value chains.
About

An efficient presentation of available technological tools and end-to-end solutions is needed to comprehensively connect all participants and share the know-how.

Initial prototypes

ThingsBoard, Orange and WSO2
Prototype content presentation approach

Initial content presentation consisted of the content representation in the **add a new prototype form** (complex, slow, etc!). The updated version should consider either WYSIWYG (What You See Is What You Get) or WYSIWYM (What You See Is What You Mean). We established a WYSIWYM with WYSIWYG controls with Markdown In-browser library StackEdit.

Functionalities

- Adding prototypes described in Markdown.
- WYSIWYG approach.
- Authorization of newly added solutions by administrators.
Web component: Solution marketplace (1/2)

About

Solution marketplace contains **end-to-end** solutions that may be used under **specific conditions** (e.g. monetized) and includes solutions **beyond software** (e.g. hardware).
Web component: Solution marketplace (2/2)

Search engine

Simple keyword search, filters for horizontals and solution types:
- enterprise,
- mobile,
- hardware,
- IoT,
- Web portals and
- data or services.

Functionalities

• Semantic search,
• Authorization of newly proposed solutions,
• End-to-end solutions can be built up from prototypes.
Summary

- SRIP PMiS partnership
- Horizontal ICT network and industrial verticals
- How to connect business and research?
  - Technological playground (e.g. research)
  - Solution marketplace (e.g. business)
- The purpose of the Web portal?
  - To establish an ecosystem with an open platform,
  - inclusion of additional solutions for specific problems,
  - likely decrease time-to-market for smaller R&D companies and thus increase the competitiveness of the region
THANK YOU FOR YOUR ATTENTION