

# SRIP Smart Cities & Communities



## *Opportunities for cooperation through SRIP PMiS*

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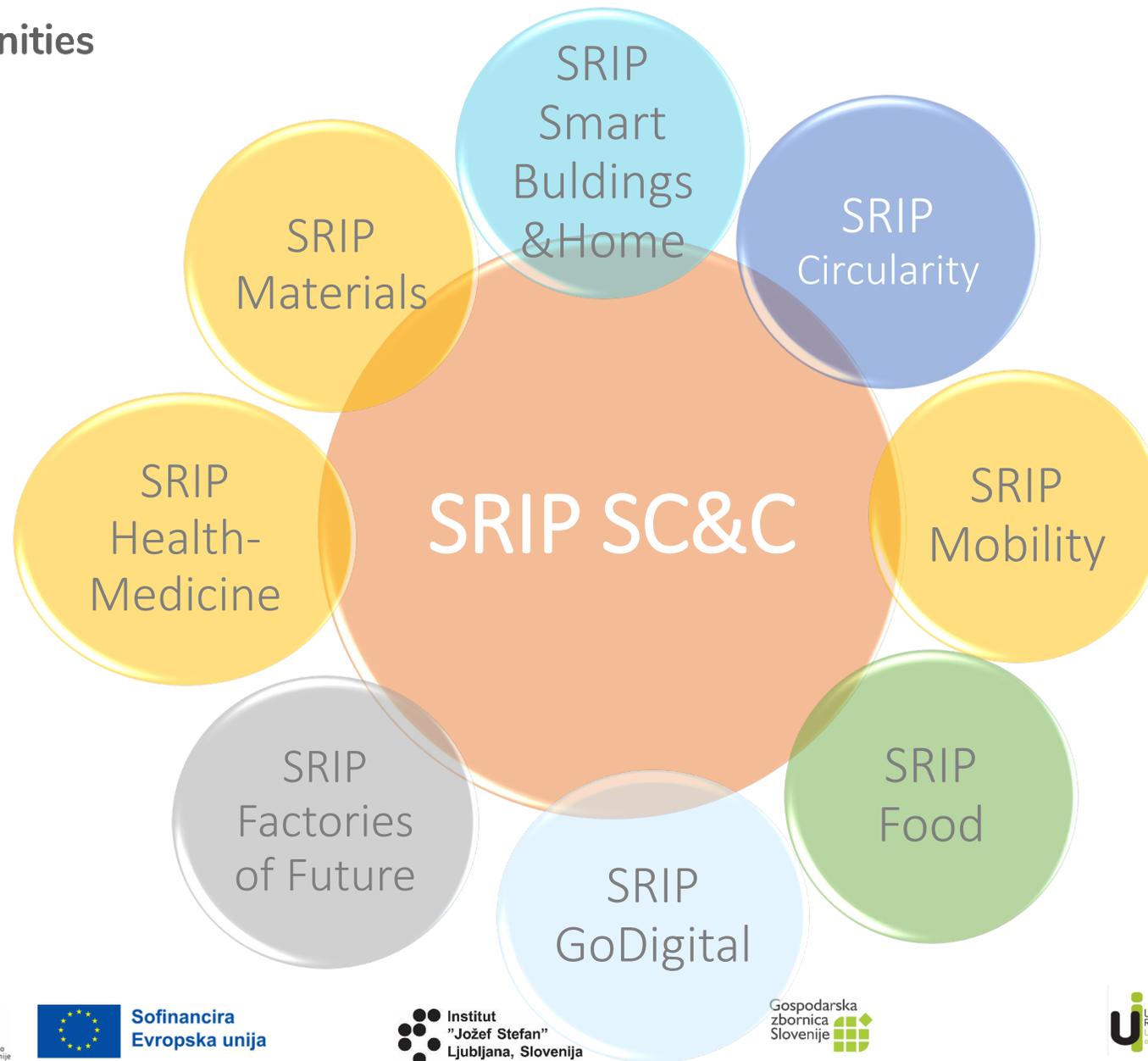
## Content

- *SRIPs & SRIP Smart Cities & communities*
- *Alignment of activities with Cluster 5 & EU Missions*
- *Best practices & collaboration opportunities*

## SRIPs - Strategic Research and Innovation Partnerships

- SRIPs (Strategic Research and Innovation Partnerships): long-term partnerships linking *businesses, research institutions, government, municipalities, NGOs, and users*, to drive innovation, enhance competitiveness, and integrate into international value chains
- Instrument within all priority areas of the **S5 strategy** (*Slovenian Smart Specialization Strategy*) for 2021-2027 that sets out national strategic development priorities and niches)

## SRIPs ecosystem in Slovenia

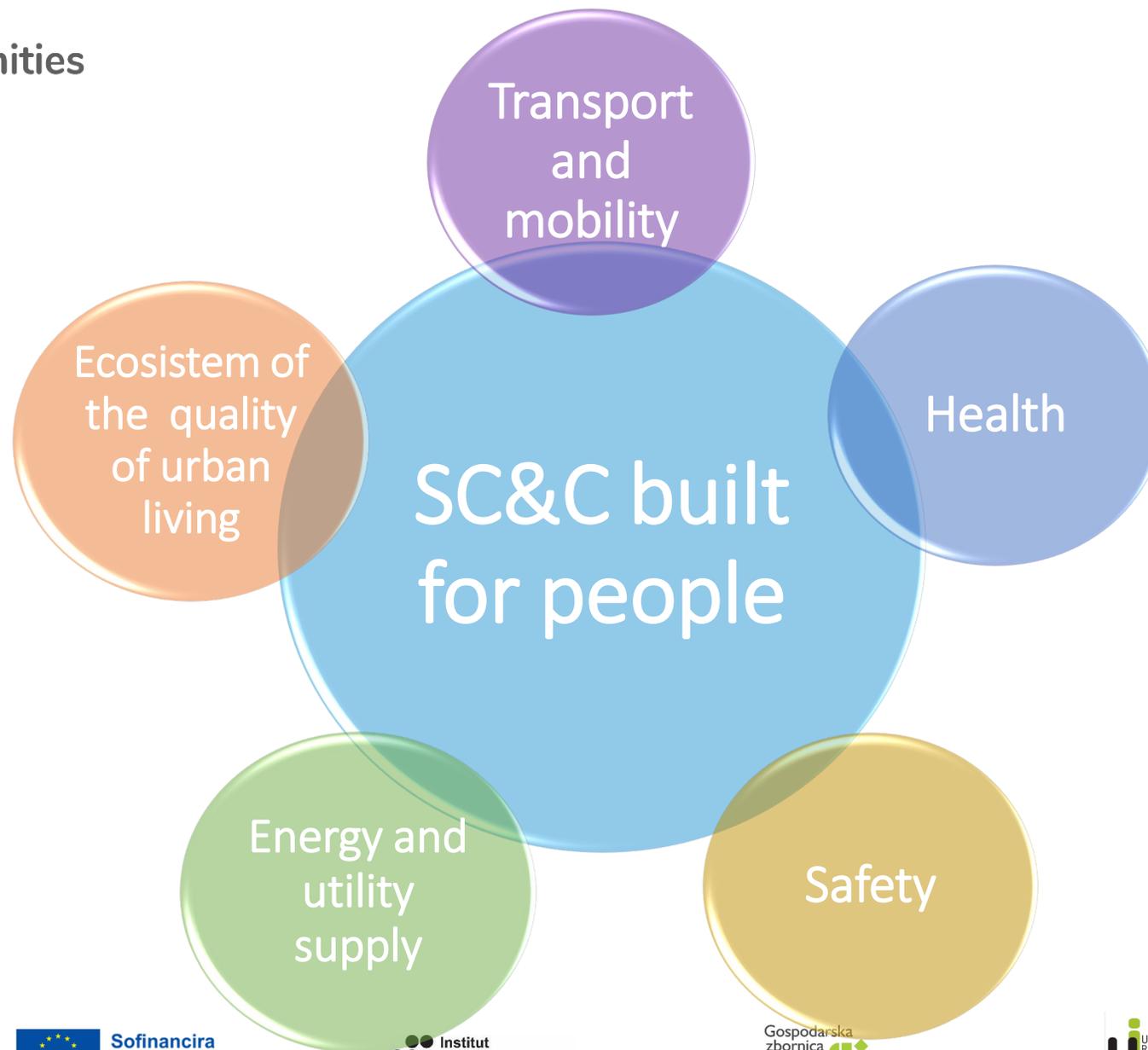


## SRIP Smart Cities & Communities: vision & structure

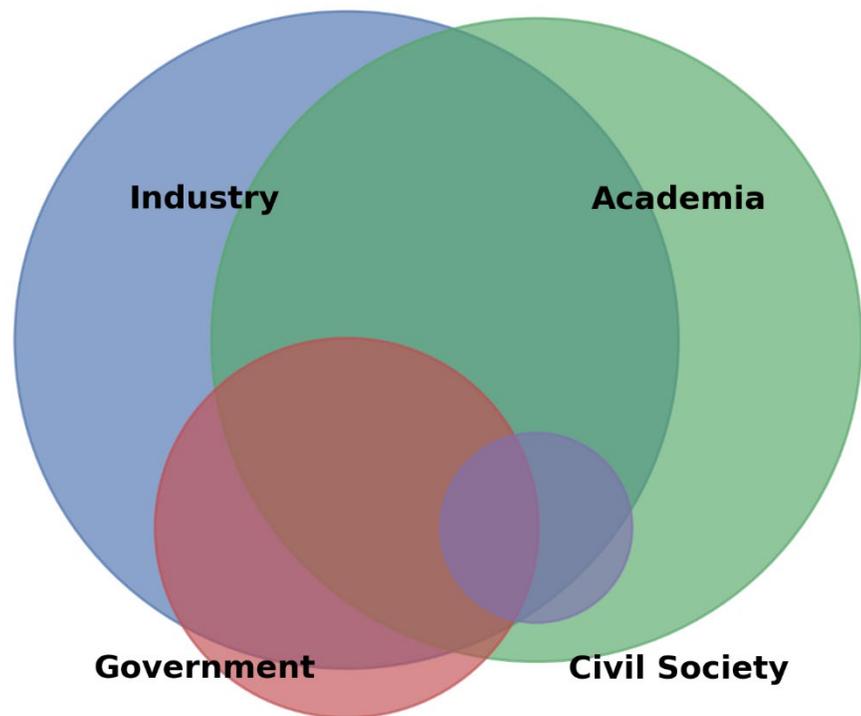
- To connect stakeholders across partnerships and value chains to create, develop, and promote/market sustainable *smart products, services, and technologies* that improve quality of life and support a green future.
- Focuses on integrating digital, energy, and infrastructure solutions to create smart, sustainable, and connected cities and regions.



## Focus areas of *SRIP SC & C*



## SRIP PMiS members



# SRIP SC&C Action Plan vs. Cluster 5 WP

SRIP PMiS Action Plan 2023-2026



EN

Horizon Europe

Work Programme 2026-2027

8. Climate, Energy and Mobility

(European Commission Decision C(2025) 8493 of 11 December 2025)

Horizon Europe - Work Programme 2026-2027  
Climate, Energy and Mobility

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## Mobility, transport, logistic

Scope: solutions within the city (complementing SRIP Mobility)

- Carbon-Neutral Society
  - *aggregate mobility data,*
  - *smart traffic management*
  - *multimodal platforms*
- More Connected Europe
  - *smart traffic signals*
  - *urban V2I communication*
- Smart Region Concept
  - *regional transport control*
  - *priority driving for emergency services*



## Mobility: SRIP vs. Cluster 5

Theme	SRIP SC&C	Cluster 5 WP
<i>Sustainable &amp; low-emission transport</i>	✓ Strong focus	✓ Strong focus
<i>Smart mobility systems</i>	✓ Core focus	✓ Included
<i>Digital data &amp; ICT solutions</i>	✓ Emphasised	✓ Included
<i>Urban/regional mobility integration</i>	✓ Central	✓ Indirectly



## Energy & other supplies

- Scope: solutions up to building-level energy and utility systems in urban settings
- Key challenges:
  - *Integration across transport, electricity, and heat domains and their networks.*
  - *Growing need for energy storage and robust data flows.*
  - *Anticipated disruption from trends such as electrification of transport and blurred boundaries between electricity and heat.*



## Energy & other utilities

- Energy Conversion, Distribution & Management
  - *Flexible* energy production, consumption, storage, and conversion.
  - Distribution network *automation and integrated* energy management.
  - Decarbonisation solutions for cities and communities, including gas and heat utilities.
- Comprehensive Water Services Support
  - Drinking water preparation, distribution, and risk management.
  - Optimized water use, quality monitoring, and advanced water services.
  - Technologies for managing extreme water conditions and targeted user needs.



## Energy & other utilities: SRIP vs. Cluster 5

Theme	SRIP SC&C	Cluster 5 WP
<i>Smart energy management</i>	✓ Core focus	✓ Strong focus
<i>Grid automation</i>	✓ Explicit focus	✓ Strong focus
<i>Sector coupling (electricity–heat–transport)</i>	✓ Key priority	✓ Strong focus
<i>Energy storage (multiple forms)</i>	✓ Explicit need	✓ Strong focus
<i>Decarbonisation of cities and communities</i>	✓ Explicit focus	✓ Strong relevance
<i>District heating/cooling and waste heat</i>	✓ Included	✓ Included
<i>Water services and utilities</i>	✓ Core focus	⦿ Indirect relevance

## Health

- Scope: use of information and communication technologies to provide smart support to all segments of healthcare
- Smart Devices, Sensors & Telehealth
  - *Monitoring functional health parameters and quality of life in smart living environments.*
  - *Personalized long-term care solutions for patients, the elderly, and other target groups.*
- Smart Integrated Healthcare and Care System
  - *Establishment of an integrated, smart healthcare and care ecosystem.*

## Health: SRIP vs. Cluster 5

Theme	SRIP SC&C	Cluster 5 WP
<i>Smart living environments for health &amp; wellbeing</i>	✓ Core focus	✓ Included
<i>Telemedicine and personalised long-term care</i>	✓ Core focus	⦿ Indirect relevance
<i>Environmental and transport-related health impacts (air quality, exposure)</i>	⦿ indirect	✓ Explicit
<i>Integrated digital health and care systems</i>	✓ Core focus	⦿ Indirect relevance



## Ecosystem of Quality of Urban Living

- Scope: to continuously improve quality of life in cities and communities.
- Urban Quality of Life Management
  - *Prioritizes sustainability, circularity, and climate-neutral urban development.*
  - *Aligns with European Green Deal principles and Mission-oriented approaches.*
- Platforms for Managing Devices, Data & Services
  - *Enables coordinated management of urban infrastructure, data flows, and digital services.*



## Ecosystem of Quality of Urban Living: SRIP vs. Cluster 5

Theme	SRIP SC &C	Cluster 5 WP
<i>Climate-neutral and smart cities/communities transition</i>	✓ Core focus	✓ Strong focus
<i>Platforms for managing devices, data and urban services</i>	✓ Core focus	✓ Strong focus
<i>Built environment solutions improving quality of life</i>	✓ Strong relevance	✓ Strong focus
<i>Urban mobility as a quality-of-life driver</i>	✓ Strong relevance	✓ Strong focus



## SRIP SC&C & EU Missions

EU Mission Adaptation – Focus	SRIP SC&C Vertical	Key Elements
Urban heat adaptation	QoL	Urban cooling, green infrastructure
Nature-based solutions	QoL	Greening, stormwater management
Water system resilience	Energy & Supply	Smart water management, droughts, floods
Energy system resilience	Energy & Supply	Smart grids, prosumer models
Data-driven decision making	QoL / Safety	IoT, city platforms, indicators
Early warning & crisis response	Safety	Operation centres, warning systems
Resilient mobility	MTL	Smart traffic, emergency routes
Health & climate impacts	Health	Heat stress, prevention

*SRIP SC&C provides an operational framework for the implementation of the EU Mission on Adaptation at the level of smart and resilient cities.*

## SRIP PMiS & EU Missions



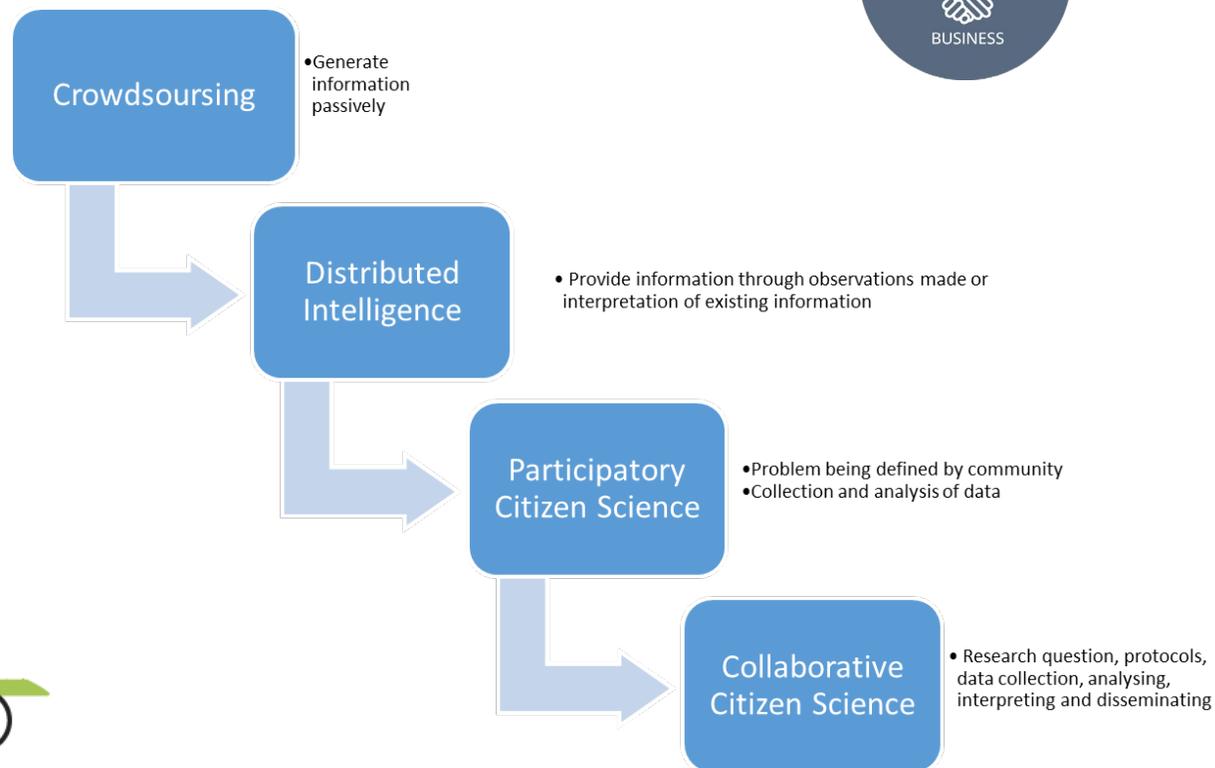
EU Mission Cities – Focus	SRIP SC&C Vertical	Key Elements
Climate neutrality by 2030	E KUB	Urban quality, NEB, indicators, cooling cities
Climate City Contracts	E KUB / Horizontal	Data platforms, KPIs, decision support
Energy decarbonisation	EDO	Smart grids, prosumers
Sustainable mobility	MTL	Smart traffic, multimodality
Resilient infrastructure	Safety	Control rooms, crisis management
Health & wellbeing	Health	Preventive smart health, tele-care
Citizen engagement	E KUB / Health	Co-creation, participatory systems

*SRIP SC&C is an initiator and promoter of the Climate-Neutral and Smart Cities Mission, in which Slovenia participates with Ljubljana, Velenje and Kranj.*

# SRIP PMiS & User-Centered Approach



*...participation, co-creation,  
citizen science...*



*Modified after Hakley (2013) & Momino et al. (2016)*

## SRIP PMiS & Outreach

### ISO standards for Sustainable cities and communities



- *Measure and monitor city services and urban performance*
- *Assess quality of life across key sectors*
- *Enable benchmarking and comparison between cities*
- *Support evidence-based decision-making and urban planning*
  - Measure how effectively cities use digital technologies and innovation to improve services, efficiency, and quality of life
  - Assess a city's ability to anticipate, withstand, respond to, and recover from shocks such as climate risks, disasters, and crises.

## SRIP PMiS & Outreach

### ISO standards for Sustainable cities and communities translated

- *ISO 37120:2018 – Indicators for city services and quality of life*
- *ISO 37122:2019 – Indicators for smart cities*
- *ISO 37123:2019 – Indicators for resilient cities*

### SRIP SC&C supported activity

- *Working group to translate the standards into Slovenian established, integration via SIST, and promotion their adoption by cities.*



## SRIP PMiS & Adaptation to climate change workshops



### AIM

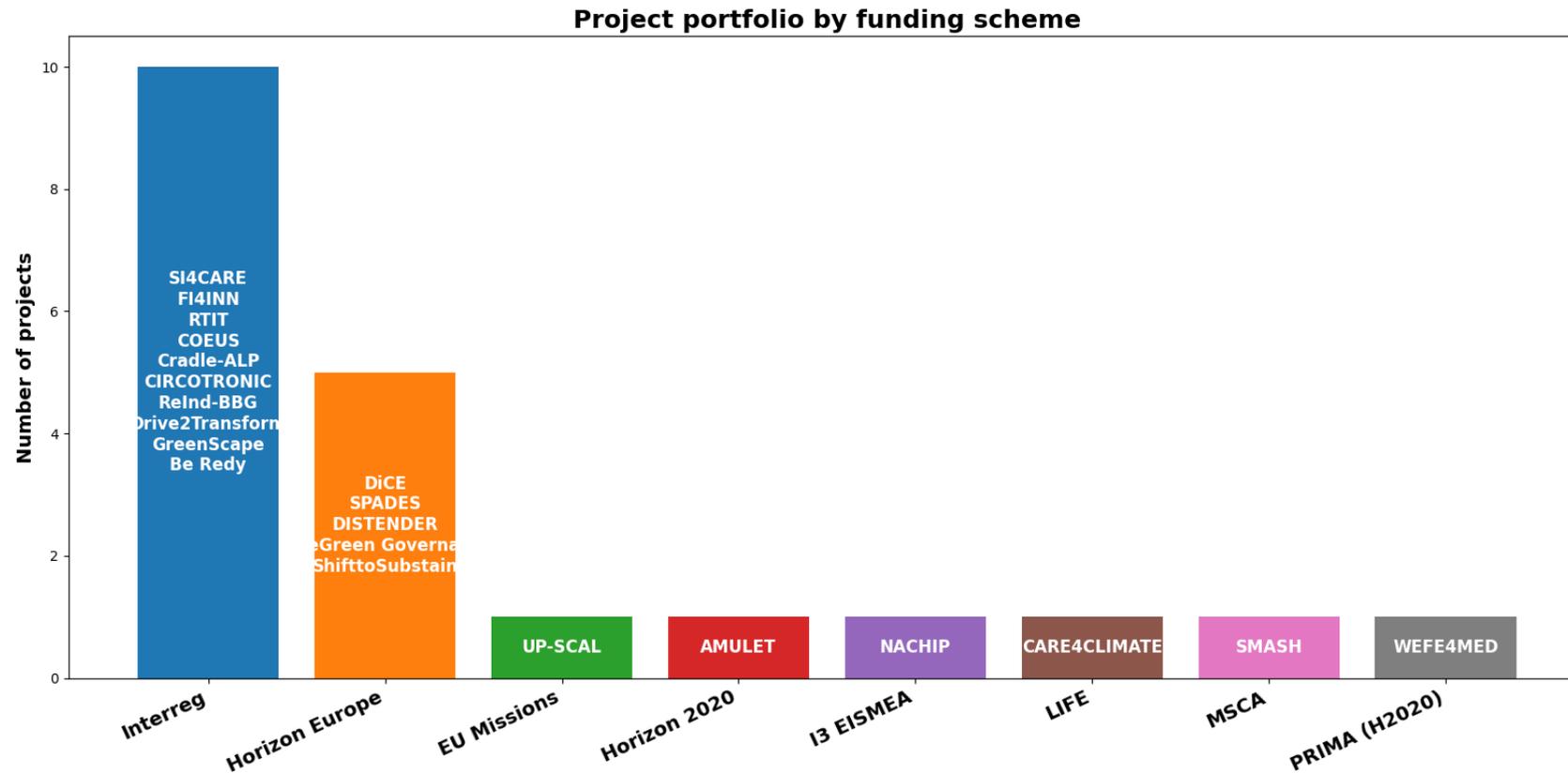
Improve the long-term safety and health of cities and communities through increased resilience.



**General and specific recommendations and guidelines for spatial planning**, applicable to municipalities and decision-makers at different levels and across various professional fields, as well as experts (e.g. spatial planners, architects, landscape architects, etc.), based on a comprehensive approach, as the task relies on an interdisciplinary team of contributors.



# SRIP PMiS & international projects





North Adriatic  
Clean Hydrogen  
Investment Platform



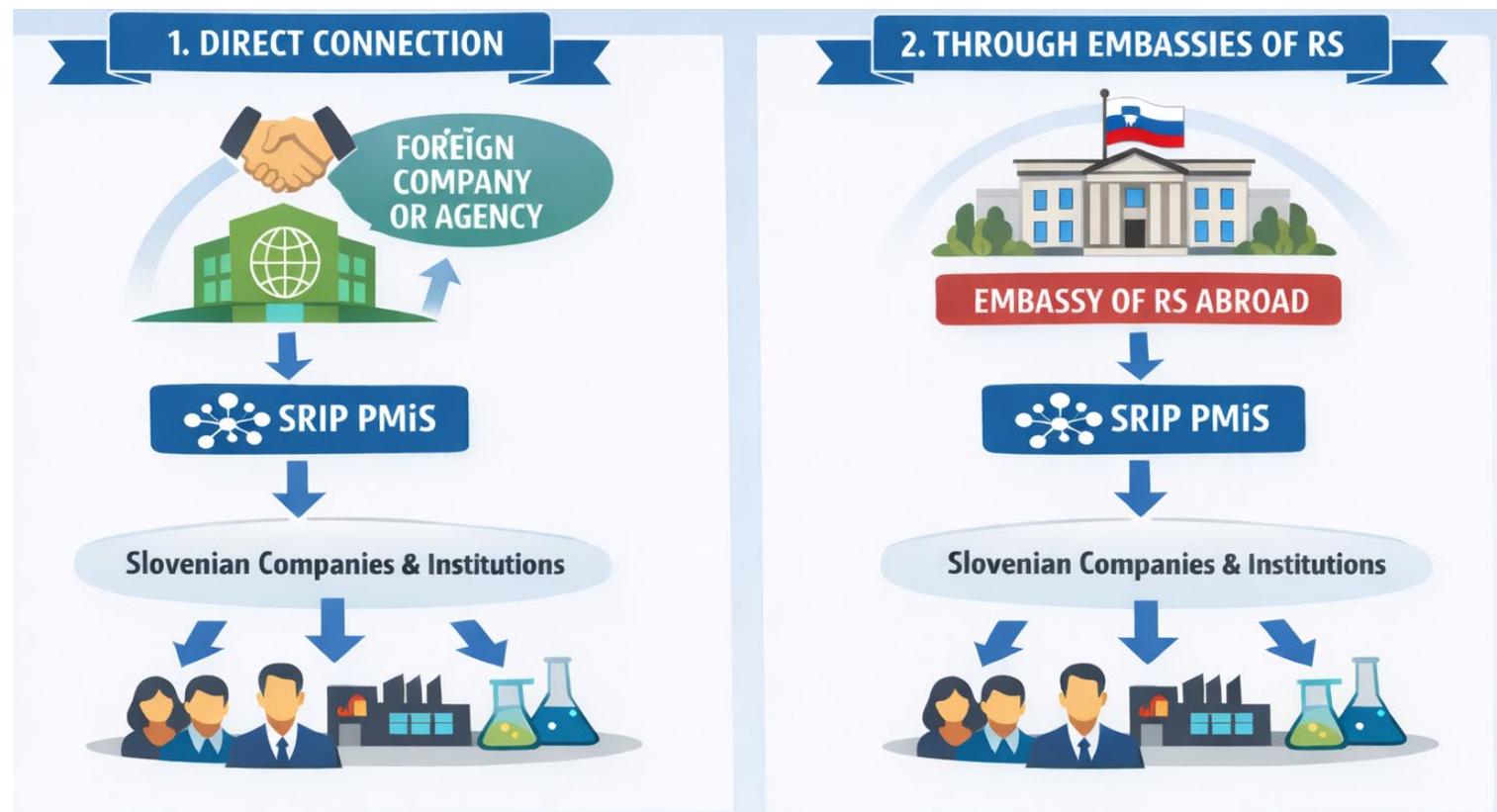
## SRIP international project

### Scope:

- Scale up hydrogen technology pilots (TRL  $\geq 6$ ) across selected value chains
- Build local hydrogen alliances around pilots to drive value-chain development
- Create an investable hydrogen portfolio, supported by an acceleration program for scale-up and integration into the NAHV ecosystem.



## SRIP PMiS & international markets



## SRIP SC&C – what can we bring to the table

- *Established multi-stakeholder ecosystem*
- *End-to-end innovation support (TRL 1–9) – from research to market deployment*
- *Direct access to top-level research expertise and infrastructure*
- *EU and international connectivity*
- *Funding enablement – support in partner matchmaking and participation in national & EU calls*
- *Higher market visibility and competitiveness for members through pilots, demos and real urban use cases*

# SRIP Smart Cities & Communities

Good stories are created by people with a willingness to embrace change



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