

**SAMPAS**  
HOLDING



# Secure Societies 2024: C2IMPRESS

30th April 2024

Cenk GÜREKEN  
EU Projects Team Leader



# Company Milestones

1981-2000

2000-2021

2022-2030

1981

## Development

- ✓ We introduced the computer to municipalities in Turkey first.
- ✓ First service to municipalities in hardware-software together
- ✓ 1000+ Municipalities

## Establishment

Sampaş was founded in Adana in 1981.

1980  
--  
2000

## Smart Cities

- ✓ First registration of "Smart Cities" concept in the world, 2004
- ✓ Smart City Automation System(AKOS), 2004
- ✓ SAMPAŞ Nano Technology, 2007
- ✓ 21st Century Smart Cities Platform, 2009

2000-10

## Smart Urban Transformation

- ✓ First Public Cloud Computing Applications, Eurocloud, 2012
- ✓ First Smart Urban Transformation Project, 2013
- ✓ Smart Cities International Awards (Smart City Expo, WeGO), 2010-2015

2010-15

## Mega Projects

- ✓ Antalya Kepez Santral Urban Transformation Project, 2018-2019
- ✓ We are at the top 5 on the list of the largest industrial institutions that bring resources to Turkey from EU funds.
- ✓ CREC and Huawei Strategic Partnership, 2018

2015-18

## New Mission & Restructure

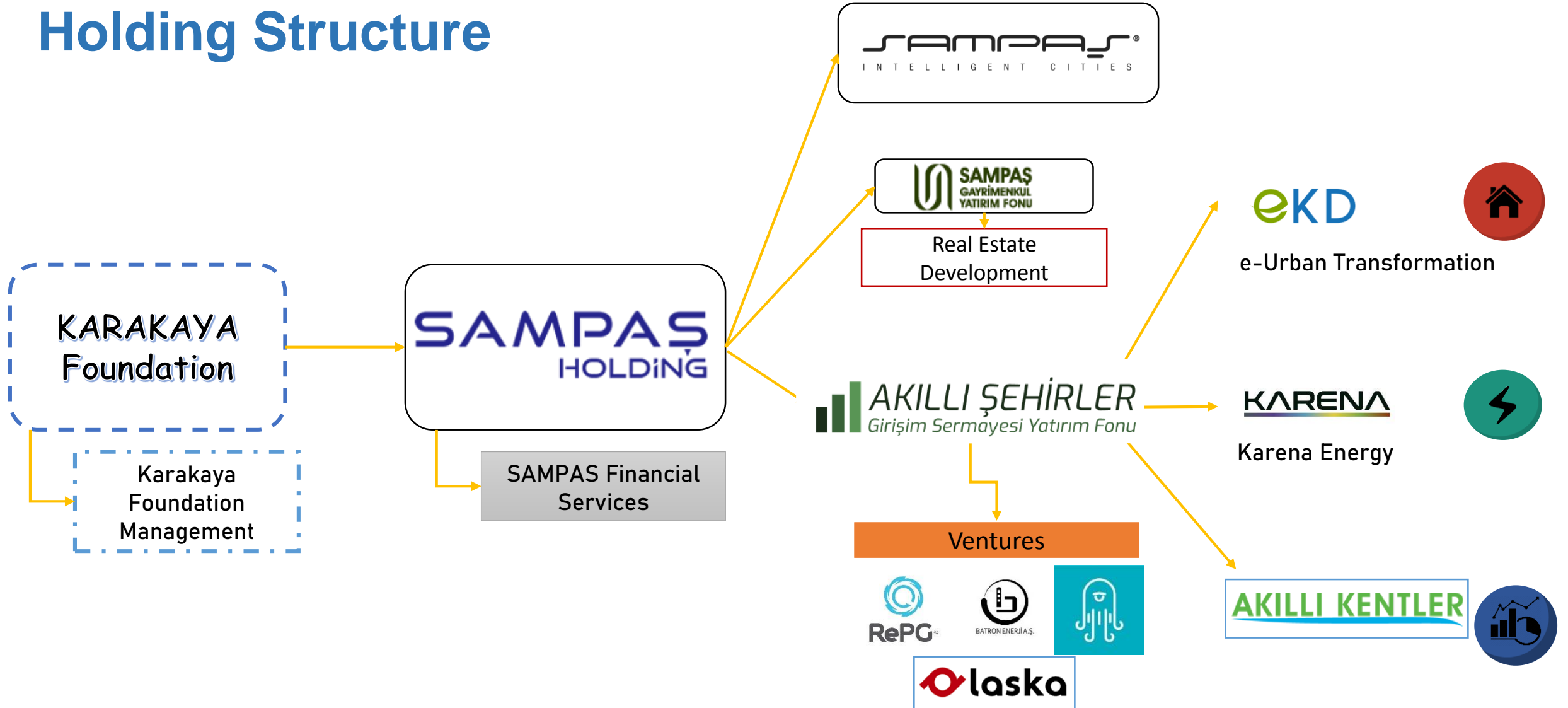
- ✓ Sampaş Holding, 2019
- ✓ Next Generation Municipalities, 2020
- ✓ Sampaş GIF, 2019
- ✓ New Generation Municipality, 2020
- ✓ Smart Cities Venture Capital Investment Fund, 2021
- ✓ Smart Cities Venture and Spinoff Investments, 2021
- ✓ Digital Twin Projects 2022

2019

## Our International Awards



# Holding Structure





# SMART CITY SOLUTIONS



**SMART CITY OPERATION & BIG DATA MANAGEMENT CENTER**



**Smart City Platform**



**Internet of Things Server (IoT)**



**Integration Services**



**Open Data Portal**



**Smart City Architecture**



**Big Data Catalog**



**Business Intelligence and Decision Support Application**



**Shared Wisdom / Participation Platform**



**Big Data Analytics**



**Geographic Information System Services**



**Citizen Oriented Applications**



**Video Content Management**





**SOAGIS**



**TEX-SHIELD**



**MU-TOOL**



# **Co-Creative Improved Understanding and Awareness of Multi-hazard Risks for Disaster Resilient Society**



This project has received funding from the Horizon Europe Framework Programme (HORIZON) Research and Innovation Actions under grant agreement No 101074004



# C2IMPRESS

**Grant Programme:** Horizon Europe

**Thematic Area:** Cluster 3 Civil Security Area for the Community

**Call:** CL3-2021-DRS-01-01 (November 2021)

**Topic:** Improved understanding of risk exposure and its public awareness in areas exposed to multi-hazards

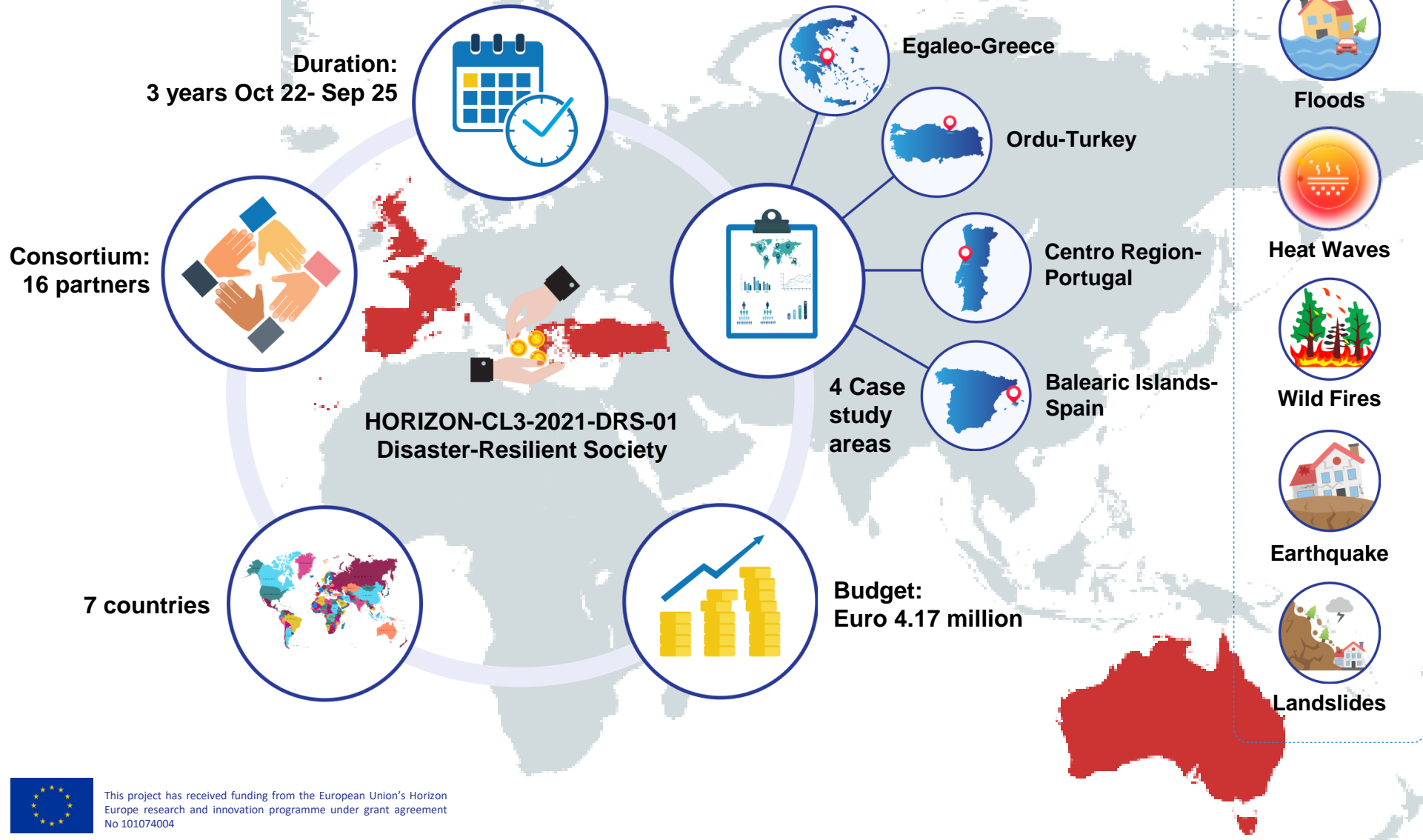
**Total Grant:** € 4.175.836,25 (EU) + UK Grants

**Duration:** 3 Years (01/10/2022 – 30/09/2025)

**Consortium:** Turkey, France, Portugal, Greece, Spain, United Kingdom, Australia (16 partners)

**Coordinator:** Sompas Bilisim Ve Iletisim Sistemleri Sanayi Ve Ticaret A.S.





## Consortium





# Challenges

## Facts:



EU cost for the disasters triggered by natural hazards

**87,000+ lives**



Economic losses between year 1980 and 2017

**€400+ billion**



EU economic losses due to extreme weather every year

**€12 billion**

## Fuelling Factors:



Lack of representative static and dynamic data for disaster models



Lack of understanding and awareness of compound weather and climate extremes, and their impacts



Insufficient disaster risk management and governance function across related cross-cutting areas



**Multi-Hazard Risks**

# Disaster Resilience Requirements

## Representative data



Appropriate data (static and dynamic, qualitative and quantitative)



Big data from geospatial citizen science



Social media data



Assessment of data from legacy database

## Representative and Accurate models



Adequate understanding of past disaster extreme events



Anticipate future events



Reduced uncertainty



Capture uncertainty of forecasting weather events

## Integrated Risk and Resilience Framework



Collaborative interdisciplinary approaches



Holistic and evidence-based



Robust and relevant



Local mitigation and adaptation strategies

## Citizen Engagement



End-to-end preparedness and prevention approach



Co-creation of tailored tools



Co-production of knowledge



Public-Private-Civic Partnership

## Decision Making Tool



Early warning system



Decision support for policy makers



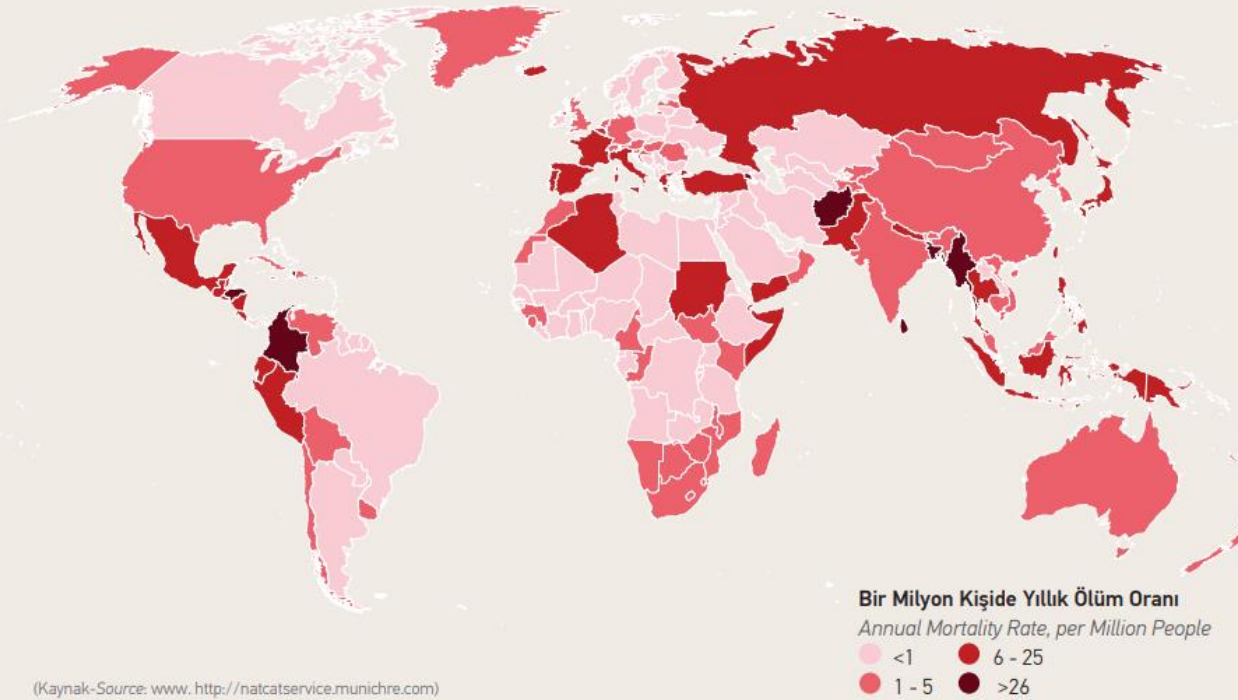
Knowledge and evidence based system



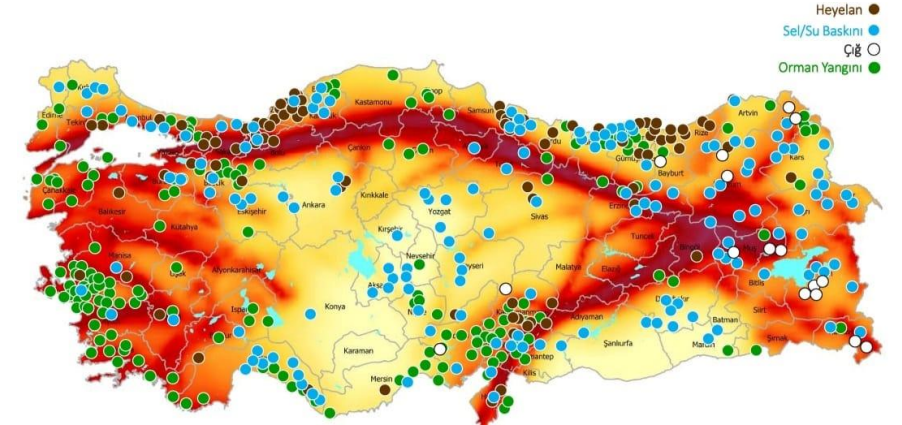
Citizen engagement tool

# Countries of Disasters

**Harita 1.1** 1980 – 2017 Yılları Arasında Meydana Gelen Afetlerde Yıllık Ölüm Oranı Endeksi  
**Map 1.1** Index of Deaths Resulting from Disasters Annually Between 1980 and 2017



**In 2021, 107 floods, 66 forest fires, 16 snowstorms and 39 landslides occurred in Turkey, according to the latest report of the Disaster and Emergency Management Authority (AFAD).**





# Disaster Resilience Solutions



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101074004



**Place and People Centred Integrated Multi-Hazard Risk and Resilient Assessment Framework**



**Public-Private-Civic Partnership (PPCP)**



**System-of-Systems for Multi-Hazard Risk Intelligence Network (SoS4MHRIN)**



**Integrated Risk Assessment Framework**



**Decision Support Platform and Microservices for Policy- and Decision-Makers**

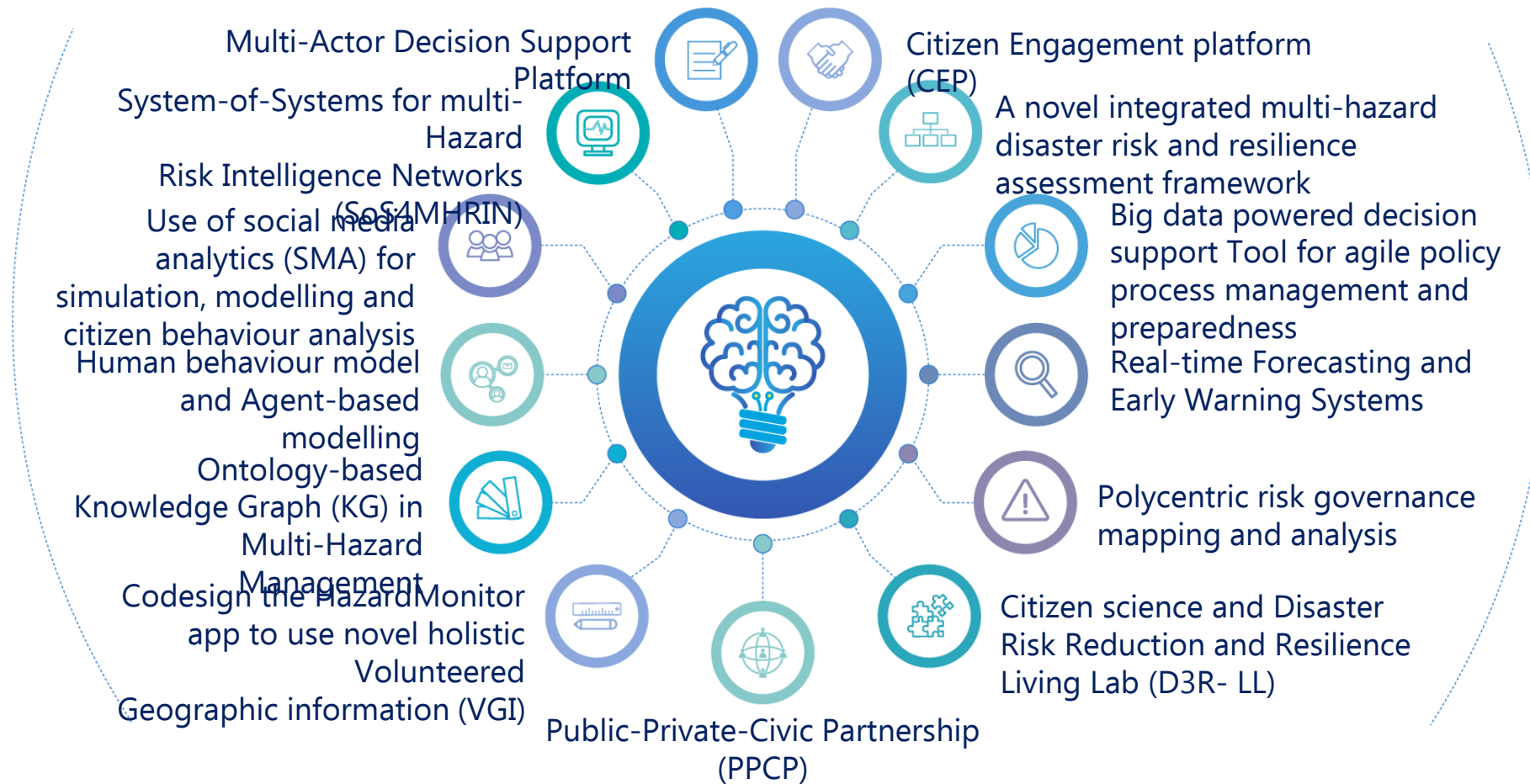


**Human Behaviour and Agent Based Model**





# Concept and Methodology



# Concept and Methodology

## Key Outcomes:

- ❑ **Early warning systems** in urban areas at risk of disaster
- ❑ **Big data based disaster response decision support platforms & mobile tools**
- ❑ **Co-creation models & Socio-psychological analysis of citizens during and after the disaster** will be conducted online, strategic plans will be made and solutions will be produced.



# Impacts

Advanced disaster/crisis simulations and impact assessments supporting decision-making processes, ensuring quantitative hazard information and qualitative information.

Novel interdisciplinary risk approaches and reaching the most vulnerable segments of the community



Risk and resilience assessment solutions, studies and outputs in support of long-term multi-hazard management strategies involving interdisciplinary teams

Advanced data management, information update and forecast / early warning systems

Communication and dissemination platforms supporting an increased dialogue and cooperation



# C2IMPRESS Team & Periodic Project Meetings

Kick-off Meeting, Istanbul/Türkiye  
24-25 October 2022



1<sup>st</sup> Periodic Meeting, Egaleo/ Greece  
2-3 May 2023



2<sup>nd</sup> Periodic Meeting,  
Mallorca/Spain  
25-27 October 2023







## EU Project Team

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## Institutional Priorities

Preparations regarding Product, Experience, Expertise & Priorities



## CREATION OF POTENTIAL CALLS AND PROJECT PROPOSALS (6 months ago)

Events and Networking Processes for Calls

Call List – Prioritization



## CITY PILOT APPLICATION SCENARIOS IN ACCORDANCE WITH THE PROJECT CONCEPT AND MAIN IDEA (3-6 months ago)

Expectations in the Call Text

Previous Evaluation Reports

Project Concept and Summary Development  
(1-2 Pages)



## CONSORTIUM CREATION, PROJECT WRITING and DEVELOPMENT (2-6 months ago)

Consortium Formation (Best Partners, Balance & Core Team)

Project Writing and Application (Making a difference in all three sections)



## PROJECT MANAGEMENT PROCESS FOR SUCCESSFUL PROJECTS

Successful team and new projects together

Contract and Project Implementation & Management Process

# SAMPAS HOLDİNG

## Thank You...

Cenk Güreken

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