Iskustvo uspješnog sudjelovanja u programu Obzor Europa – savjeti i preporuke

Dr.sc. Irina Stipanović, dipl.ing.građ.

INFRA PLAN CONSULTING

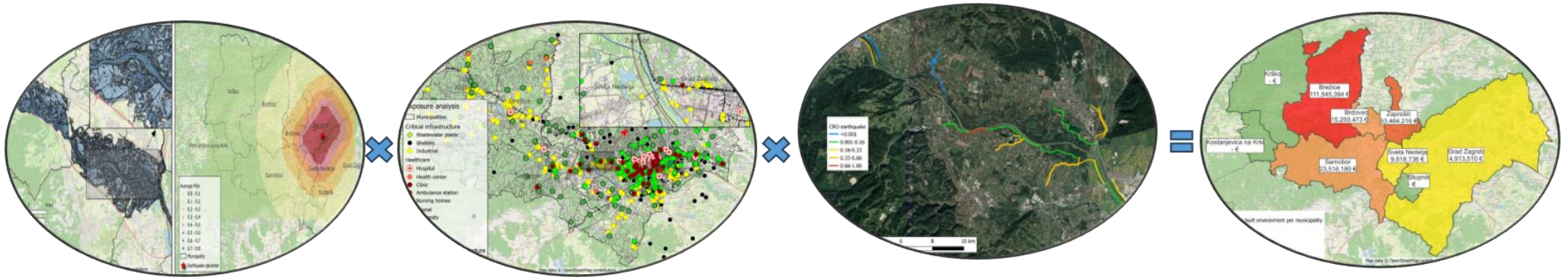
Dr.sc. Irina Stipanović Oslaković, d.i.g.

2001 – 2007	Građevinski fakultet Sveučilišta u Zagrebu
2007 – 2011	Institut IGH d.d., Voditelj Laboratorija za materijale, Voditelj Razvoja i Istraživanja
2011 – 2016	Sveučilište Twente, Nizozemska, Docent
2016 – danas	Infra Plan konzalting

INFRA PLAN CONSULTING

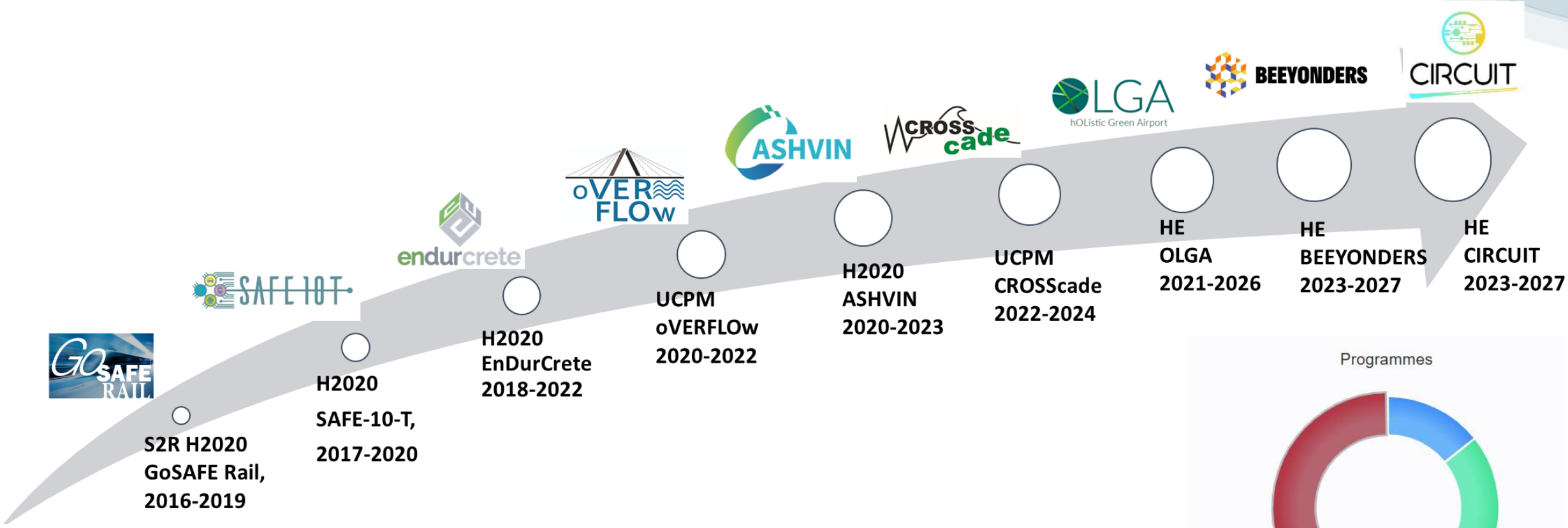
Ekspertiza

- *Održivo gospodarenje građevinama*
- *Održivi građevinski materijali*
- *Procjena utjecaja na okoliš (LCA, LCC, WLCA)*
- *Digitalizacija infrastrukture*
- *Izrada alata za podršku u odlučivanju, optimizacija i višekriterijski modeli odlučivanja*
- *Izrada procjene rizika uslijed različitih hazarda*



Hazard Exposure Vulnerability RISK

14 EU projekata 2016 – 2025...



8 tekućih projekata

Umrežavanje s partnerima

- Networking projekti
  - COST projekti
- Sajmovi
- Konferencije
- Publiciranje radova
- ECAS portal

Part A (administrative) + Part B (proposal)

- Part B: 3 Key sections
  1. Excellence (19p)
  2. Impact (9p)
  3. Implementation (17p)

19+9+17 =45

1. Excellence

- 1.1 Objective and Ambition (4p) (**WHY and WHAT**, who)
  - Objectives
  - Ambition
  - R&I maturity
- 1.2 Methodology (15p) (**HOW**, who, when and **WHERE**)
  - Concept and Methodology
  - Past and ongoing projects
  - Inter-disciplinary approach
  - SSH, open science, gender dimension

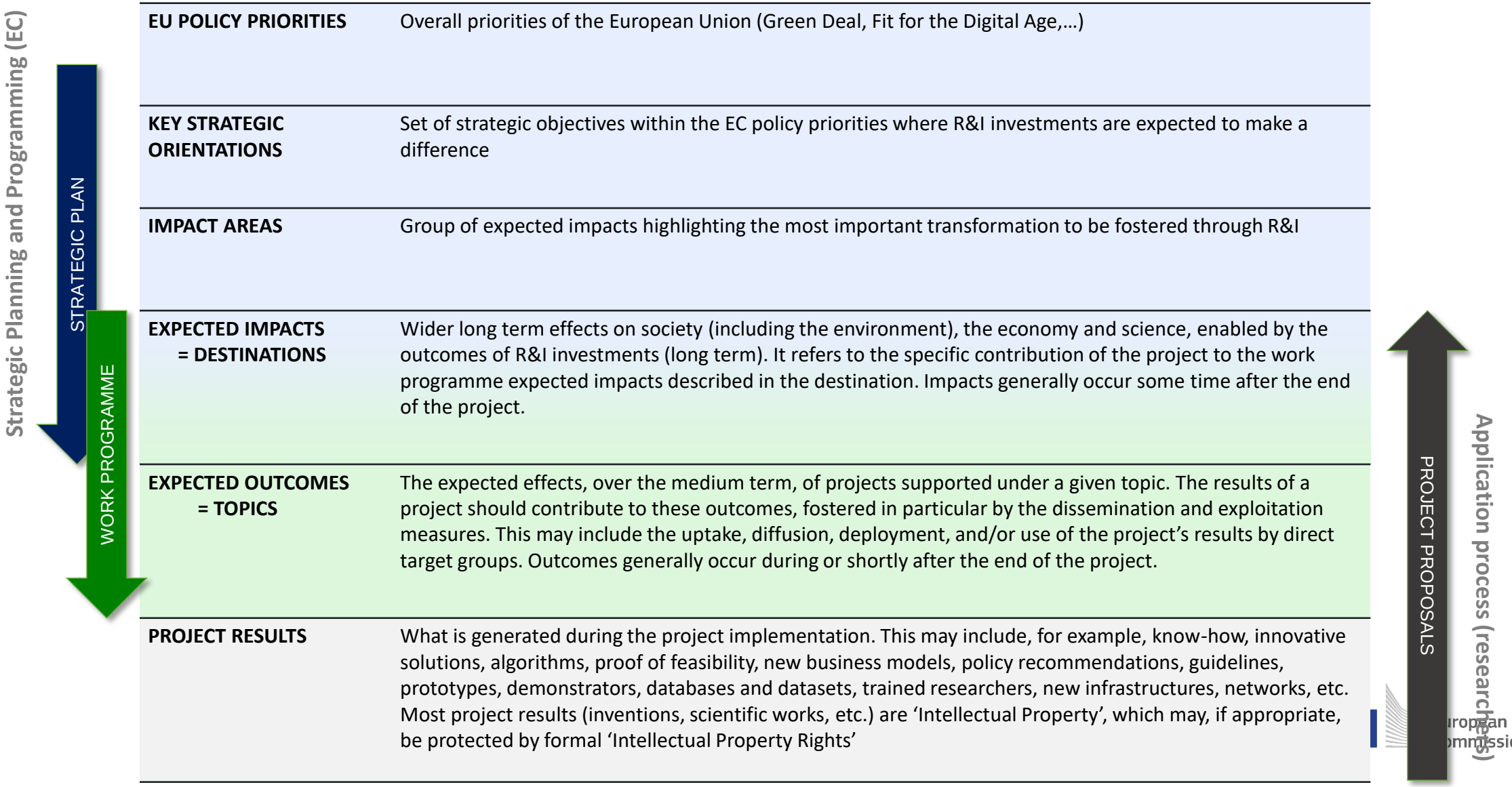
2. Impact

- 2.1 Project’s pathways towards impact (4p)
  - Projects results contribution towards outcomes and wider impacts
  - Requirements and potential barriers
  - Scale and significance
- 2.2 Measures to maximise impacts (2-3 p)
  - D, C & E plan
  - Strategy for the IP management
- 2.3 Summary (1-2 p)
  - Impact Canvas

3. Implementation

- 3.1 Work Plan and Resources (14p)
  - Work plan
  - Resources to be committed
  - Tables
- 3.2 Capacity of participants and Consortium as a whole (3p)
  - Description of the Consortium
  - Other countries and international organisations

Kako uskladiti predložene rezultate projekta s očekivanim utjecajima i politikama EU

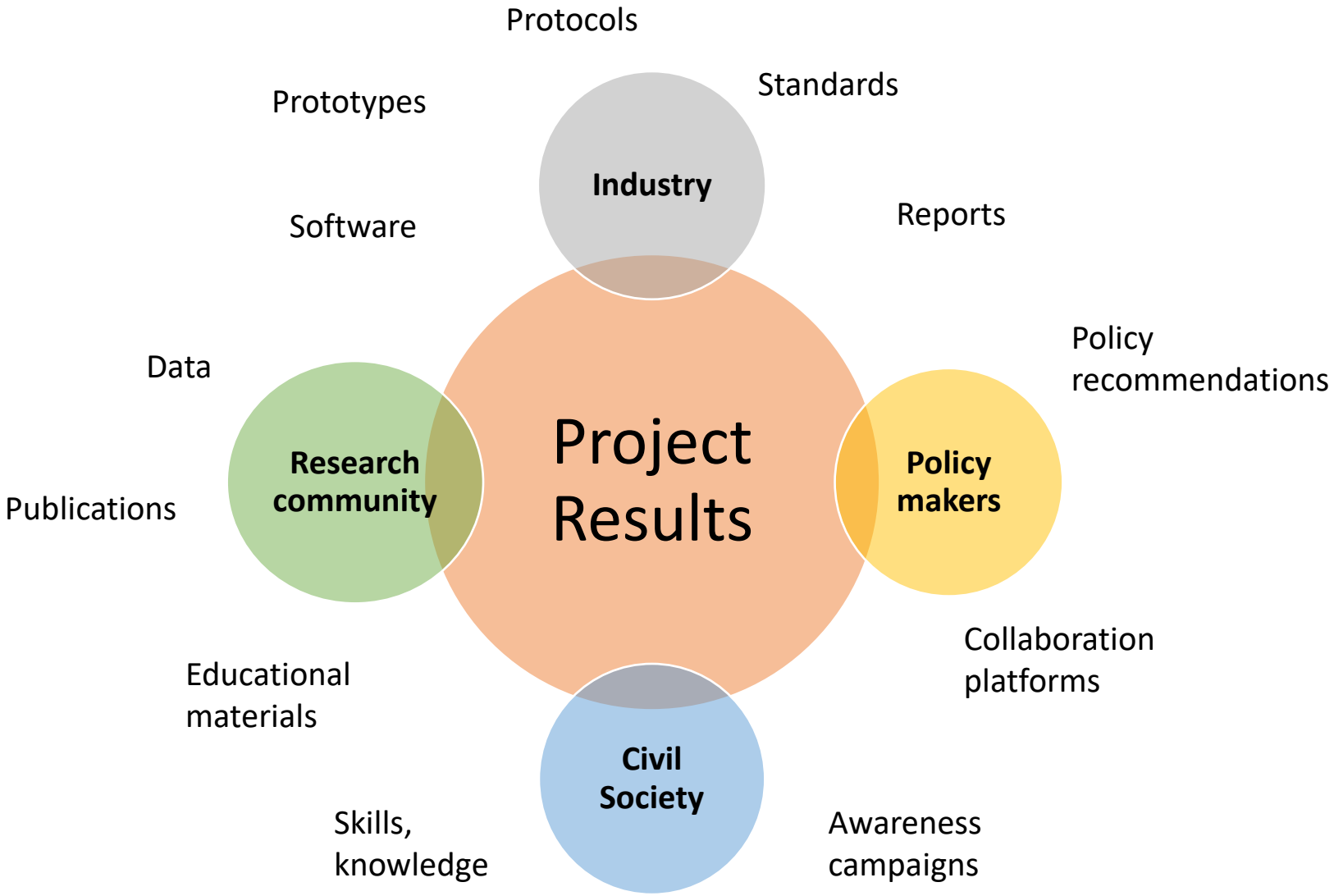


EU POLICY PRIORITIES	Overall priorities of the European Union (Green Deal, Fit for the Digital Age,…)
KEY STRATEGIC ORIENTATIONS	Set of strategic objectives within the EC policy priorities where R&I investments are expected to make a difference
IMPACT AREAS	Group of expected impacts highlighting the most important transformation to be fostered through R&I
EXPECTED IMPACTS = DESTINATIONS	Wider long term effects on society (including the environment), the economy and science, enabled by the outcomes of R&I investments (long term). It refers to the specific contribution of the project to the work programme expected impacts described in the destination. Impacts generally occur some time after the end of the project.
EXPECTED OUTCOMES = TOPICS	The expected effects, over the medium term, of projects supported under a given topic. The results of a project should contribute to these outcomes, fostered in particular by the dissemination and exploitation measures. This may include the uptake, diffusion, deployment, and/or use of the project's results by direct target groups. Outcomes generally occur during or shortly after the end of the project.
PROJECT RESULTS	What is generated during the project implementation. This may include, for example, know-how, innovative solutions, algorithms, proof of feasibility, new business models, policy recommendations, guidelines, prototypes, demonstrators, databases and datasets, trained researchers, new infrastructures, networks, etc. Most project results (inventions, scientific works, etc.) are 'Intellectual Property', which may, if appropriate, be protected by formal 'Intellectual Property Rights'

Utjecaj i implementacija (Logika EK)

	Result	Outcome	Impact
LEGAL BASE (Objectives & KIPs)			
STRATEGIC PLAN (Policy Priorities & R&I strategic orientation)			Sustainable and circular management and use of natural resources as well as prevention and removal of pollution …
WORK PROGRAMME (Destinations & Topics)		Succesful deployment of existing scientific and practical knowledge and more bio-based solutions introduced in construction industry	Improved consumer and citizen benefits, including in the urban setting by establishing circular and bio-based systems, reaching higher level of involvement of all actors…
HORIZON EUROPE PROJECT (Project Results)	New bio-based construction product prototype, new standard, production guideline…	Construction materials producers use bio-based solutions (# of … in # of countries…)	20% increased uptake of bio-based solutions in Europe

Za koga su namijenjeni rezultati projekta



Tekući projekti – Klaster 4

- **Supporting European Industry Success Maximization through Empowerment Centred development (SEISMEC)**
  - HORIZON-CL4-2023-HUMAN-01-51

- **Breakthrough European tEchnologies Yielding cOnstruction sovereigNty, Diversity & Efficiency of ResourceS (BEEYONDERS)**
  - HORIZON-CL4-2021-TWIN-TRANSITION-01-12

Primjer

- 10 Mil EUR
- 34 partnera

SEISMEC

Supporting European Industry Success Maximization through Empowerment Centred development

INFRA PLAN CONSULTING

#@APP-FORM-HERIAIA@#

List of participants

Part. No.	Participant organisation name	Acronym	Country	Type	Role
1.	Erasmus Universiteit Rotterdam	EUR	Netherlands	RES; HES	COO
2.	Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek TNO	TNO	Netherlands	RES	BEN
3.	Technische Universitat Berlin	TUB	Germany	RES; HES	BEN
4.	University College Cork - National University of Ireland	UCC	Ireland	RES; HES	BEN
5.	Ethniko Kentro Erevnas Kai Technologikis Anaptyxis	CERTH	Greece	RES	BEN
6.	Australo Interinnov Marketing LAB SL	AUS	Spain	PRC	BEN
7.	Asociatia Transilvania IT	TITC	Romania	Other NGO	BEN
8.	Institouto Anaptixis Epicheirimatikotitas Astiki Etaireia	iED	Greece	Other NGO	BEN
9.	CESI International	CESI	Belgium	Other NGO	BEN
10.	SD WORX People Solutions NV	SDWorx	Belgium	PRC	BEN
11.	Lietuvos Moksininkų Sąjunga	LSS	Lithuania	Other NGO	BEN
12.	Mnaufacture Francise Des Pneumatiques Michelin	MICHELIN	France	PRC	BEN
13.	Infineon Technologies Austria AG	IFAT	Austria	PRC	BEN
14.	Thales SIX GTS France SAS	THALES	France	PRC	BEN
15.	Mostostal Warszawa S.A..	MOW	Poland	PRC	BEN
16.	NTT Data Romania S.A..	NTTD	Romania	PRC	BEN
17.	Medunarodna Zracna Luka Zagreb DD	ZAG	Croatia	PRC	BEN
18.	Infra Plan Konzaltnig Jdoo za Usluge	Infra Plan	Croatia	PRC	BEN
19.	Arivia S.A..	ARIVIA	Greece	PRC	BEN
20.	Kvaliteta JSC	Kvalitetas	Lithuania	PRC	BEN
21.	NS Web Development	NS Web	Serbia	PRC	BEN
22.	Fratelli Piacenza S.P.A.	PIAC	Italy	PRC	BEN
23.	Buurtzorg Concepts & Consultancy	Buurtzorg Int	Netherlands	PRC	BEN
24.	Stichting Buurtzoorg Nederland	Buurtzorg NL	Netherlands	Other	AP
25.	RRA Zeleni Kras DOO	RRA	Slovenia	PRC	BEN
26.	Arctur Racunalniski Inzeniring DOO	ARCTUR	Slovenia	PRC	BEN
27.	Malt Community	Malt	France	PRC	BEN
28.	Go Tulip	Bondi	Netherlands	PRC	BEN
29.	Intellectual Farms OY	iFarm	Finland	PRC	BEN
30.	farmNOW Shared Vertical Impact Farming GMBH IG	Farm Now	Austria	PRC	BEN
31.	Citta Studi Spa	CS-POINTEX	Italy	PRC	BEN
32.	Ates Celik Insaat Taahut Proje Muhendislik Sanayi Ve Ticaret Anonim Sirketi	ATES	Turkey	PRC	BEN
33.	Atlas Copco Airpower NV	ATLAS COPCO	Belgium	PRC	AP
34.	Istrazivacko-Razvojni Institut Za Vestacku Inteligenciju Srbije	IVI	Serbia	PUB	AP

1.2.1.1 Pilot and Technology Overview

Table 1.2b: Pilot Technology Overview

							Innovative dimensions						
Pilot name/nr.	**Ecosystem**	**Role**	**Size**	**Country**	**Advanced Technologies**	**Keywords / tools**	**Work organisation (T3.1)**	**Skills & training (T3.2)**	**Health & safety (T3.2)**	**Management & governance (T3.3)**	**Business models (T3.3)**	**Corporate values & ethics (T3.3)**	**Tasks & functions (T3.4)**
1. Zagreb Airport	Aerospace	Inspection	Large	HR	AI, CC, HMI, IOT	AI anomaly detection			x				x
3. Arivia	Agrifood	Inspection	Large	EL	AI	AI anomaly detection		x					x
16. Fratelli Piacenza	Textile	Inspection	Large	IT	AI	AI anomaly detection				x			x
2. Kvalitetas	Agrifood	Flexible	SME	LT	AI, IOT, WES, TOS	AI fusion - Decision support					x		x
17. ARCTUR	Tourism	Service	SME	SI	AI, BD, MD	AI fusion - Decision support Forecasting	x	x		x	x		
4. Mostostal	Construction	Operator	Large	PL	AI, SIM	AI fusion - Decision support	x					x	
12. Thales	Civil Security	Rescuer	Large	FR	TOS, VR	Imaging with drones control interface for drones using VR helmets.		x	x				x
8. Atlas Copco	Energy intensive	Technician	Large	BE	AI, DA	Instruct service personnel	x	x					
11. Michelin	Automotive	Operator	Large	FR	AI, CC, MD	Instruct service personnel	x	x					
13. Go Tulip	Proximity	Driver	Start-up	NL	AI, CC, MD	Scheduling and route planning	x						
5. NS Web Development	Creative Industries (CCI)	Developer	SME	RS	AI, SN	HR - improving working environment	x	x					
6. NTT Data	Digital	Developer	Large	RO	SN	HR - improving working environment	x			x		x	
10. Buurtzorg	Health	Carer	SME	NL	AI, BD, CC, MD	HR - improving working environment	x			x	x		
18. Malt	Cross-sector	Flexible	SME	FR, DE, SP, NL, BE	AI, BD, CC, MD	HR - recruitment and selection	x			x	x	x	
7. Infineon	Electronics	Applicant	Large	AT	AI, HMI	Training and Interfaces		x					x
9. ATES	Energy renewables	Technician	Large	TR	VR, SIM	Training		x	x				
14. iFarm & Farm Now	Retail & Agrifood	Farmer	Start-up	FI, AT	AI, AT, HMD, WD	Training and Monitoring		x	x				

Technology acronyms: Activity and Motion Trackers (AT); Artificial Intelligence, including all its subfields (AI); Augmented Reality (AR); Big Data (BD); Cloud Computing (CC); Digital Voice-enabled Assistants (DA); Health Monitoring Devices (HMD); Human-Machine Interface (HMI); Internet of Things, including machine sensors and identification sensors, e.g., RFID (IOT); Mobile Devices, e.g., smartphone or tablets (MD); Simulation (SIM); Social Networks, including tools for collaborative working and smart interaction with work equipment (SN); Teleoperated Systems, including devices for remote

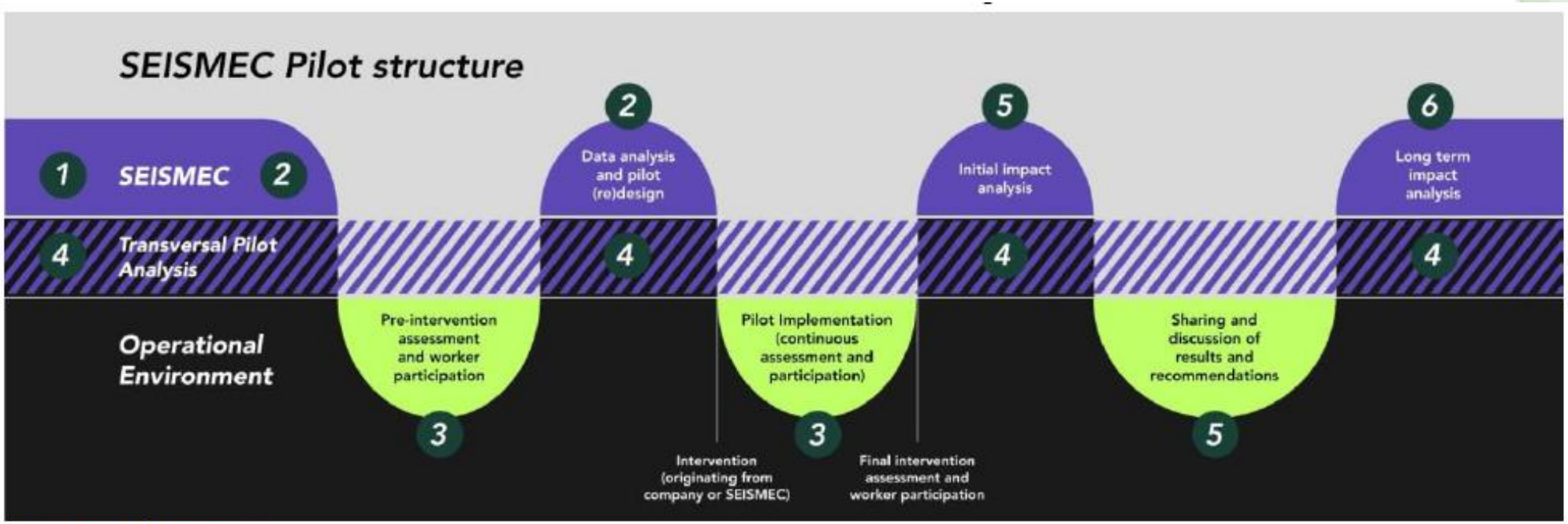
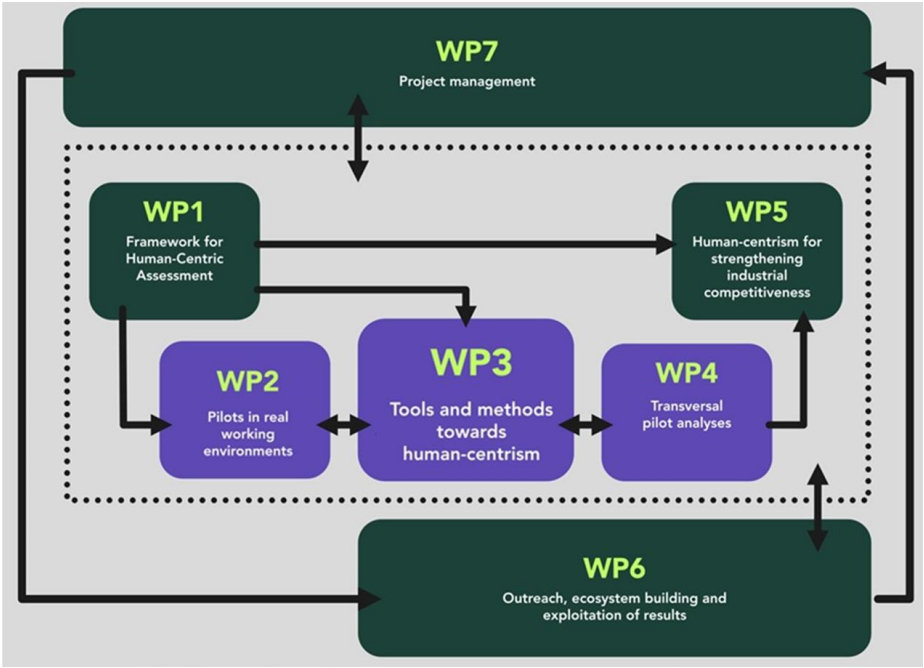


Figure 1.2: Pilot Structure

- Malo radnih paketa
- Puno manje deliverablea
- Jednostavna struktura projekta
- Jako ambiciozan utjecaj rezultata projekta



- 8 Mil EUR
- 23 partnera

BEEYONDERS: BREAKTHROUGH EUROPEAN TECHNOLOGIES YIELDING CONSTRUCTION SOVEREIGNTY, DIVERSITY & EFFICIENCY OF RESOURCES

List of participants

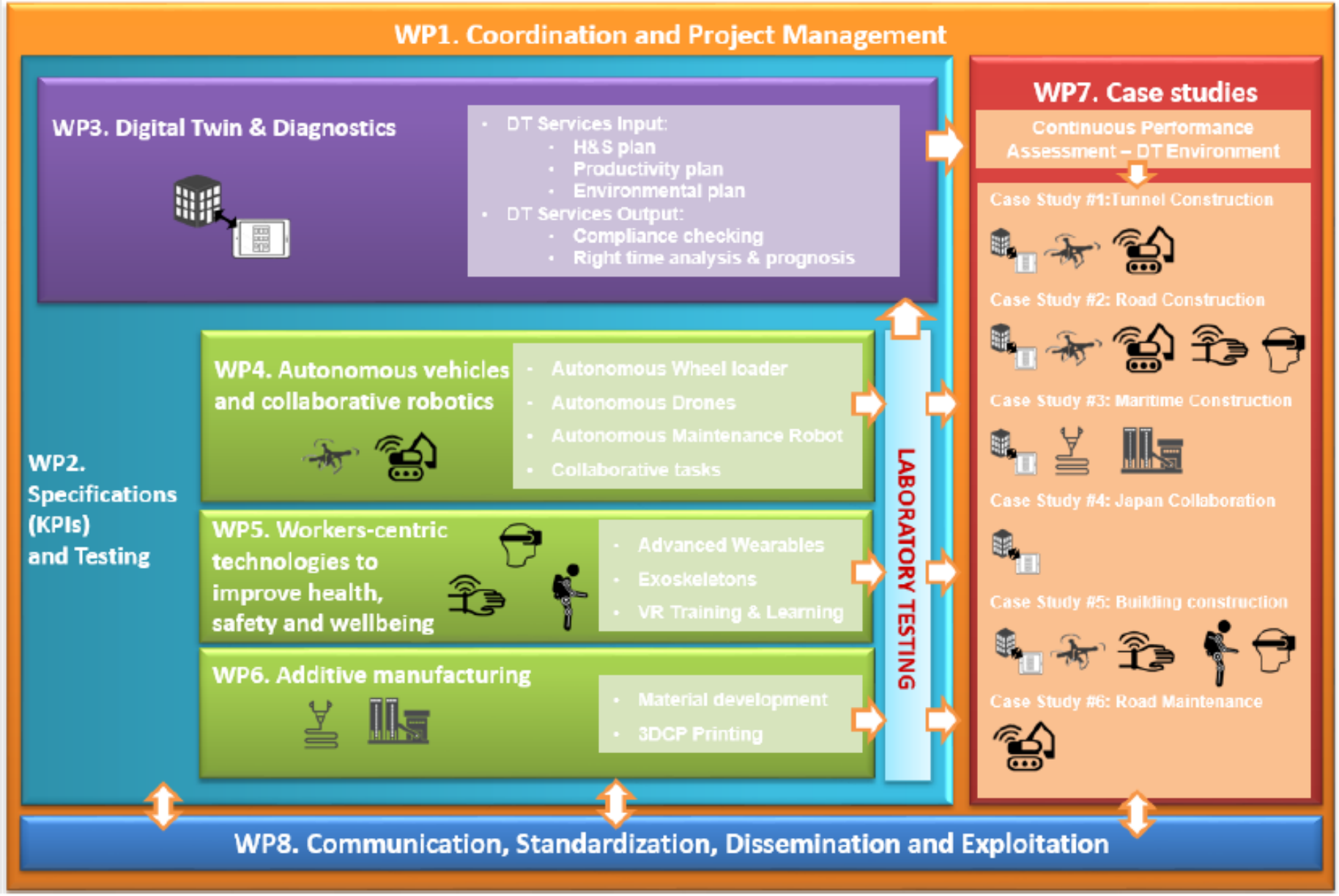
Participant No.	Participant organization name	Country	Participant No.	Participant organization name	Country
1 (Coord.)	ACCIONA CONSTRUCCION (ACC)	SPA	13	INFRAPLAN (INF)	CRO
2	TECNALIA (TEC)	SPA	14	AISCAT (AIS)	ITA
3	ITAINNOVA (ITA)	SPA	15	AARHUS UNIVERSITET (AU)	DK
4	PNO INNOVATION (PNO)	SPA	16	TEKNOLOGIAN TUTKIMUSKESKUS VTT (VTT)	FIN
5	FADA CATEC (FAD)	ITA	17	CAIDIO (CAI)	FIN
6	STAM (STA)	SPA	18	FIRA GROUP OY (FIR)	FIN
7	ISTITUTO ITALIANO DI TECNOLOGIA (IIT)	ITA	19	FIRA OY (FIO)	FIN
8	EUROPEAN BUILDERS CONFEDERATION (EBC)	BEL	20	FIRA SMART S. OY (FIS)	FIN
9	CENTRE SCIENTIFIQUE ET TECHNIQUE DU BATIMENT (CSTB)	FRA	21	COBOD (COB)	FRA
10	LAFARGE CENTRE DE RECHERCHE (LCR)	FRA	22	SEABOOST (SEA)	FRA
11	ICONS (ICO)	CRO	23	INGEO (ING)	NED
12	HIDROMEK (HID)	TUR			

Example of pathways from KERs to impacts

- KERs for digitalization and automation of construction sector

- **Outcome 1:**
- Successful integration of the next breakthrough technologies: autonomous vehicles and human robot collaboration, additive manufacturing, diagnostics and monitoring and autonomous maintenance; derived from other industries in the construction sector.
- 6 case studies integrating various BTs into a Common Environment and implemented in real construction sites
  - KPIs:
    - # of acitivities performed with ...
    - % of reduction of time usage…

- **Impacts:**
- 14% improvement of efficiency in production considering the implementation of BEEYONDERS solutions in different construction processes
- (10- 12% save time in tunnels works; 10M€ savings in maritime works related to automated piles; 10% fuel consumption reduction due to automation; or 50-70% savings in inspection and maintenance of roads).



- Pilot / demonstracijski projekti
- Krajnji korisnici kao partneri u projektu

Kako napisati uspješan prijedlog EU projekta?

1. **Imati ideju / inovaciju razvijenu do određenog stupnja**
   - **Ovisi o vrsti natječaja (TRL4-5 RIA vs. TRL 6-7 IA)**
2. **Odabrati pravi poziv / natječaj**
3. **Analizirati poziv – vraćati se redovno tekstu poziva tijekom pisanja!!!**
4. **Pronaći prave partnere – ne uključivati partnere zbog poznanstva / prijateljstva**
5. **Složiti jaki konzorcij u skladu sa zahtjevima natječaja – godinu dana unaprijed**
6. **Početi rano pripremati prijedlog projekta**
   - **pisanje prijedloga projekta traje min. 3 mjeseca**
7. **Od ideje do rezultata projekta - pokazati utjecaj projekta!**
8. **Slijediti kriterije ocjenjivanja**

Hvala na pažnji

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