NTIS – Nové technologie pro informační společnost

NTIS Výzkumné centrum



Zkušenosti hodnotitele a koordinátora evropských projektů

Martin Čech

Západočeská univerzita v Plzni / NTIS

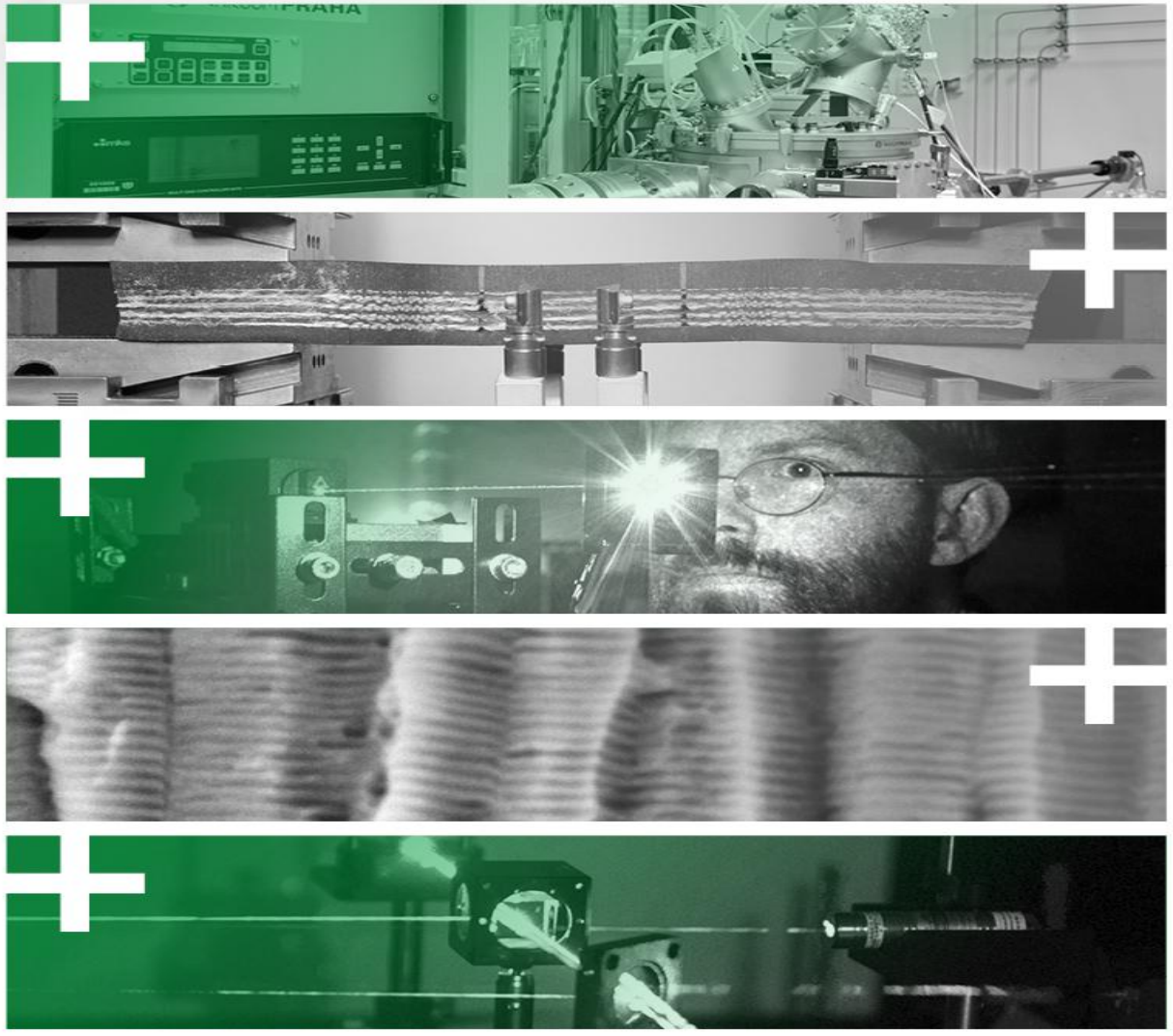
mcech@ntis.zcu.cz

11/11/2026

Obsah

- ✓ Zkušenosti s přípravou / řízením projektů (milníky)
- ✓ Zkušenosti s hodnotícím procesem
- ✓ Tipy pro psaní projektů (AJ)
- ✓ Příklady projektů v rámci CHIPS JU / HE (AJ)
- ✓ Závěr

New Technologies for the Information Society



Modern **research centre** of the Faculty of Applied Sciences at University of West Bohemia (UWB) in Pilsen

- A unique combination of **technical and natural** science knowledge and skills
- Basic and Applied research
- **300+ scientists** and researchers
- R&D performed by **23 cooperating teams**
- **International cooperation** and participation on various EU project
- **150+ industry partners** and customers like AREVA, ZF, CEZ, Daikin, Doosan Škoda Power, European Space Agency, Honeywell, Škoda Transportation, Philips, Panasonic, SAFRAN
- **50 mEUR** investment in 2014 to build new facilities

Historie – od malých k velkým projektům, propojení s národními granty

- ✓ *2007-2009:* **Interreg IIIC/IVC** (MATEO, Mechatronic Centre, I4W)
- ✓ *2012-2016:* **Artemis** (eScop)
- ✓ *2016-2026:* **ESCEL/KDT/CHIPS JU** (I-MECH, FitOptiVis, AFarCloud, Comp4Drones, IMOCO4.E, CHARM, AgrarSense, OPEVA, HumAMI, TREASURY)
- ✓ *2024-2026:* **Horizon Europe** (TRIFFID, TORNADO)

- ✓ *2017-2025:* **TACR DELTA/SIGMA** (ADRA-2I, ICIAD, ARIHE, SmartFact – South Korea, China) – inspirováno HE projekty

TRL 3-5 ←

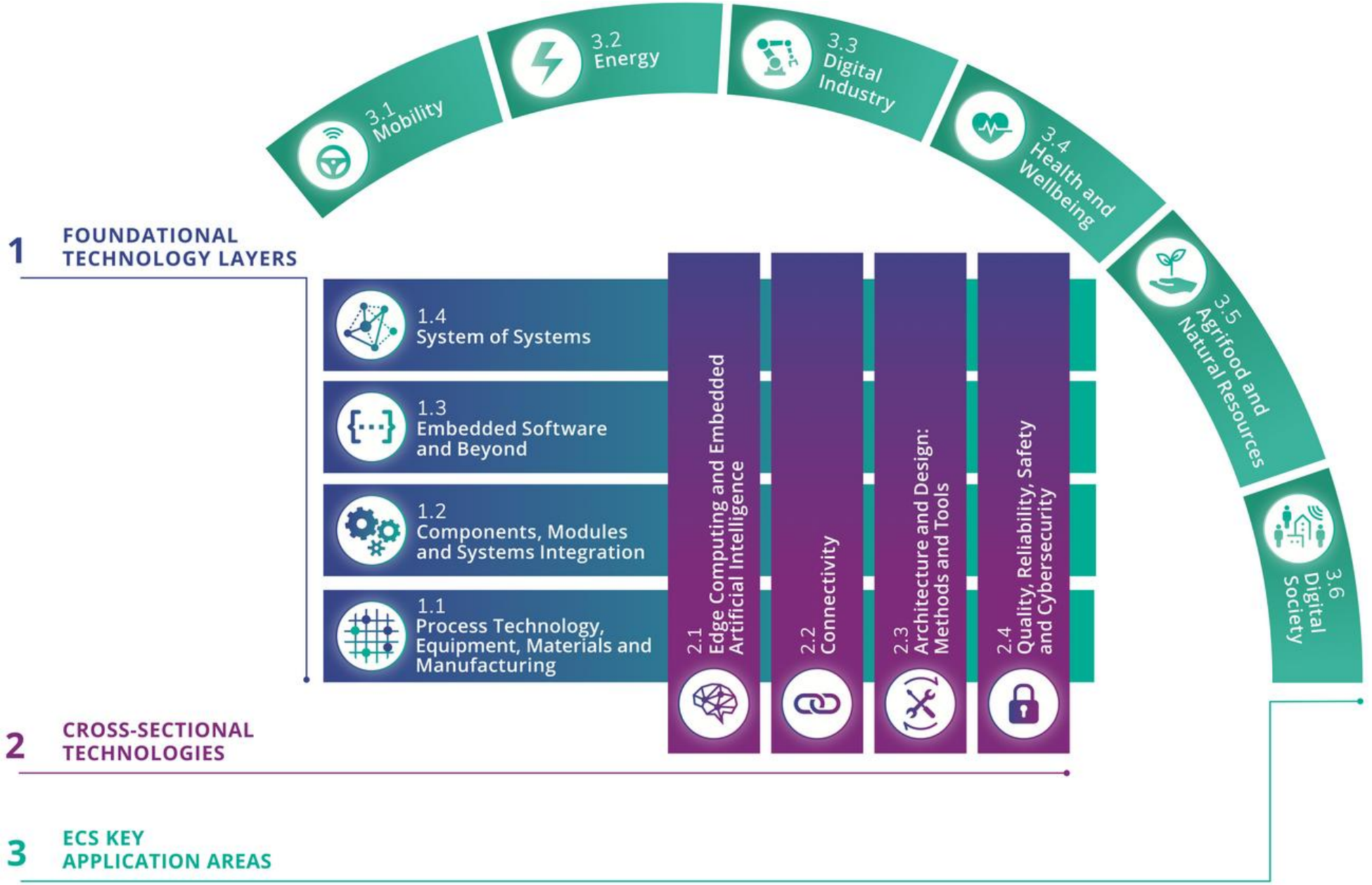
TACR /MPO / GACR

✓ **30 neúspěšných návrhů** → **25-30 % success rate**

Zkušenosti s hodnotícím procesem

- ✓ Zkušenost s hodnocením bývá klíčová, je třeba naučit se přemýšlet jako evaluátor
- ✓ F2F vs. remote evaluační panely
- ✓ Odborná diverzita hodnotitelů (často 3-5)
- ✓ Při psaní HE projektů třeba zohlednit každou větu z dané výzvy (callu), při hodnocení se evaluátoři vyjadřují ke každému aspektu
- ✓ Doporučuji pre-screening TC
- ✓ Učit se z neúspěšných proposalů a ESR textů (shortcomings, weakness, …)

Tip #1: Define technoloies and application domains (CHIPS JU example) / Excellence

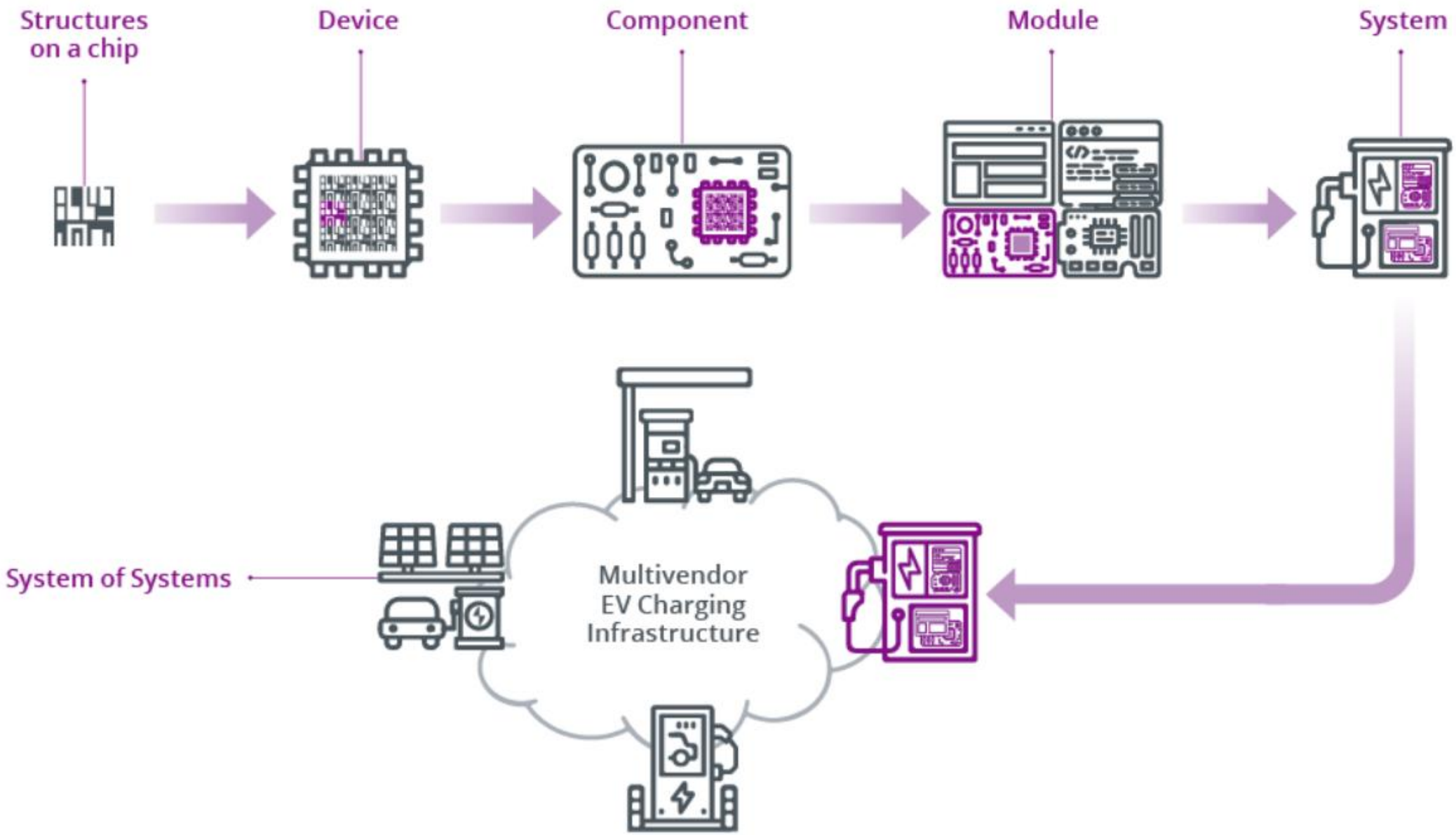


Tip #2: Define your TRL (technology readiness level) progress plan / project baseline

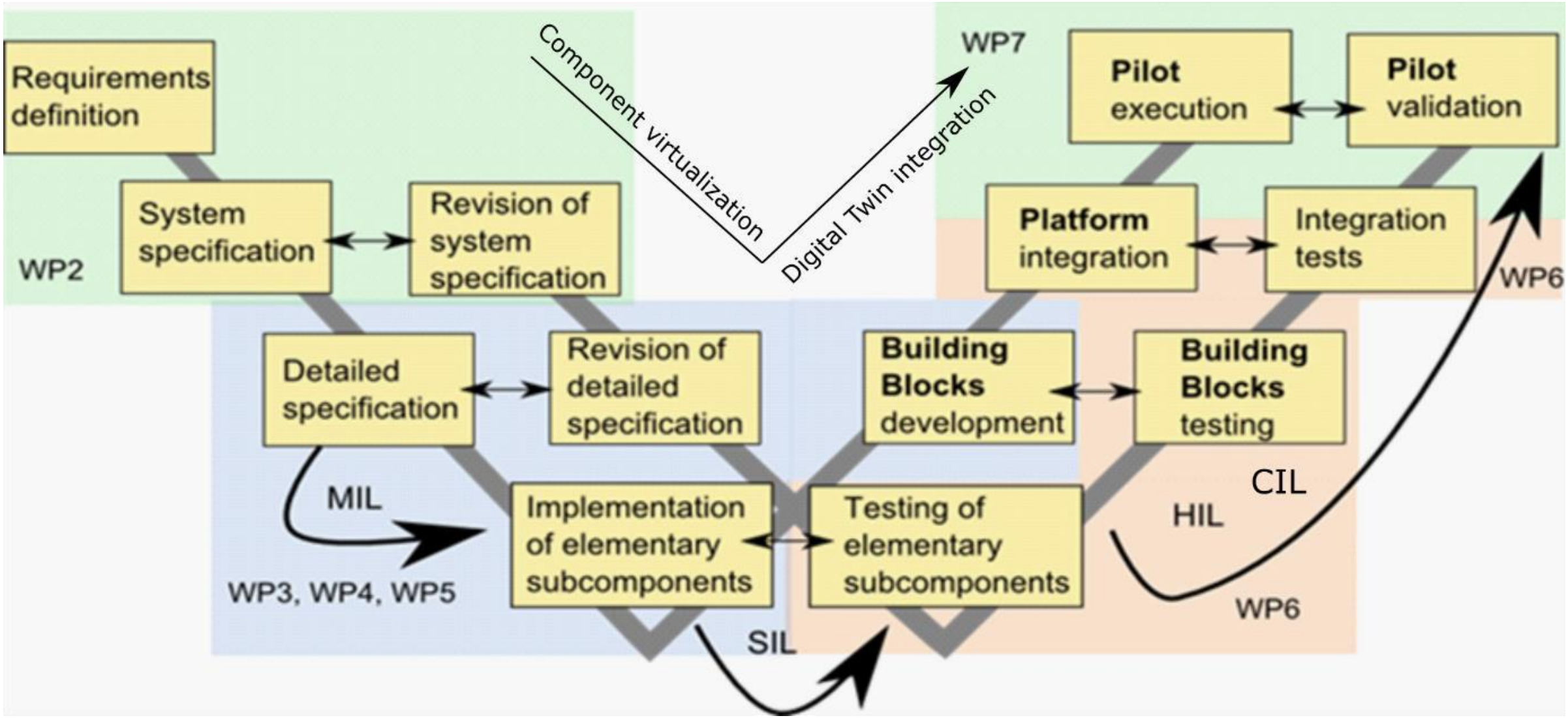
- ✓ We use **Technology Readiness Level** (TRL) scale in our projects
- ✓ Typical progress: **1 level / year**; i.e. 2-3 for 36 months project
- ✓ In our projects, we go up to **TRL 6-8** (two consequential projects needed, RIA vs IA)
- ✓ Clear plan to reach **TRL 9**



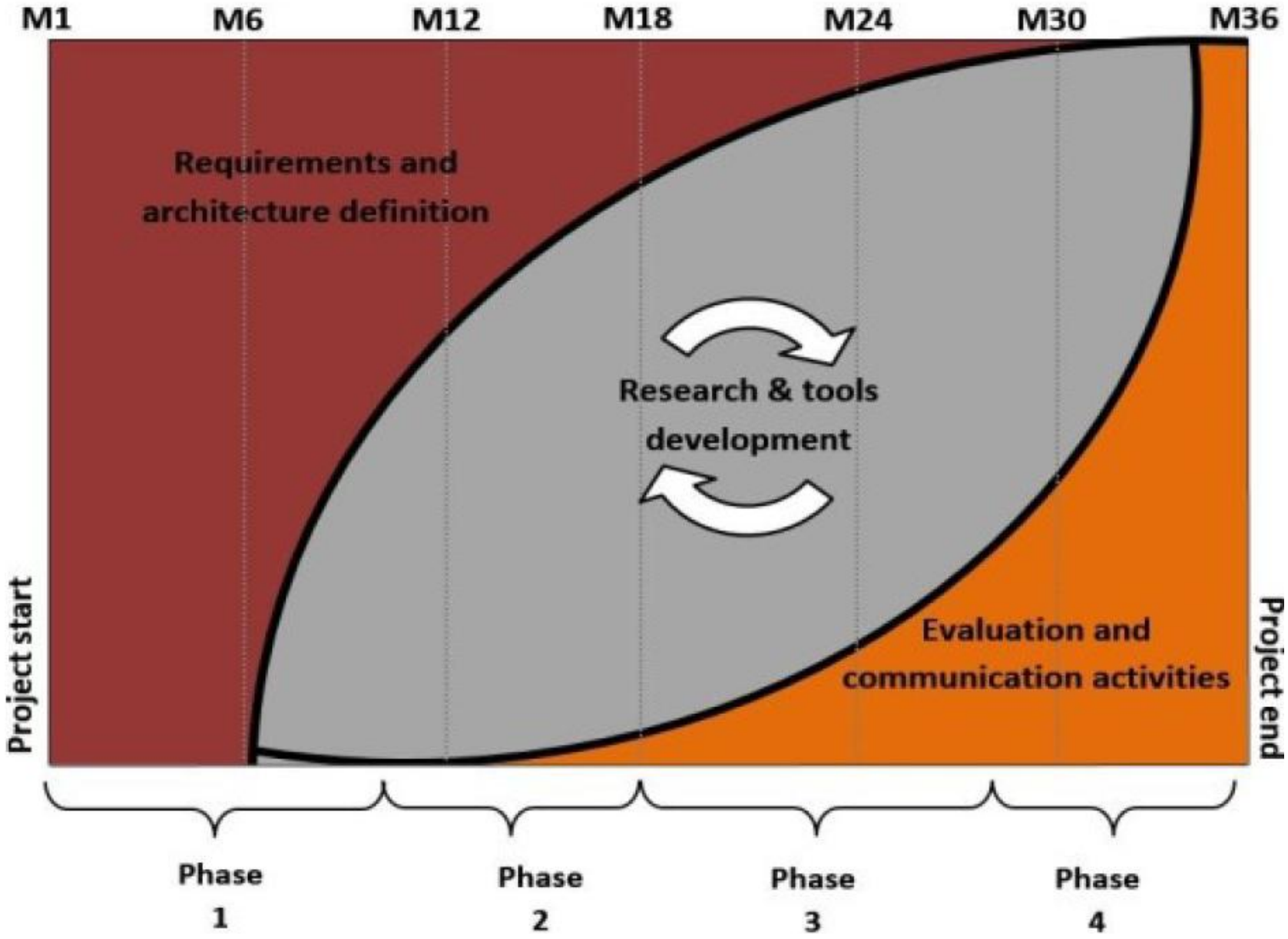
Tip #3: Value chain coverage – example for EVs / Impact



Tip #4: Project workflow - W approach / Implementation



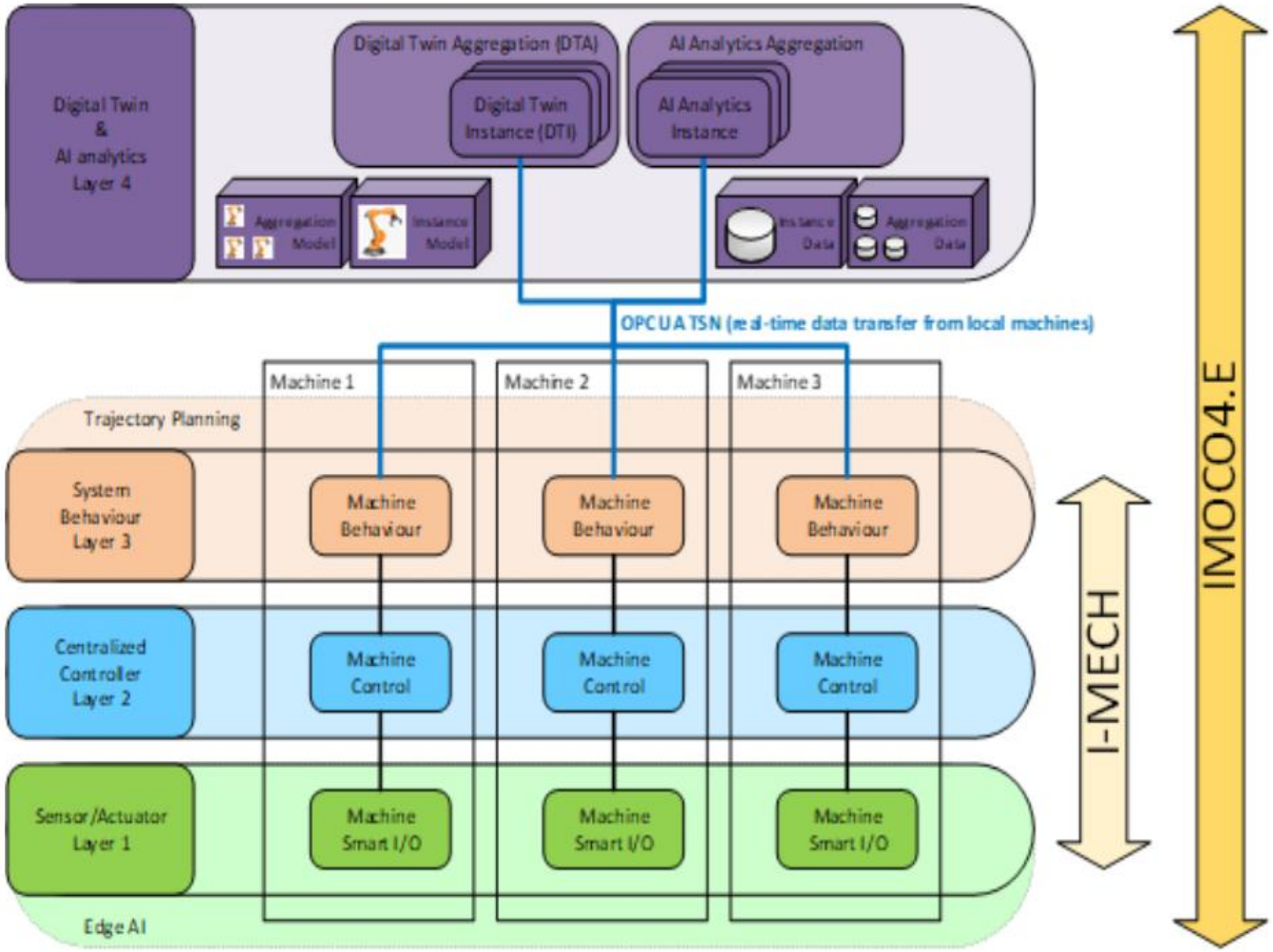
Project workflow (continuous iterations) / Implementation



Project example #1: I-MECH/IMOCO4.E www.imoco4e.eu

Intelligent Motion Control Platform for Smart Mechatronic Systems

Reference platform



Smart Mechatronic Solutions

Project coordinator:
Arend-Jan Beltman
info@i-mech.eu

Website:
https://www.i-mech.eu/

Institution:
SIOUX CCM B.V.

Start date: 06/2017

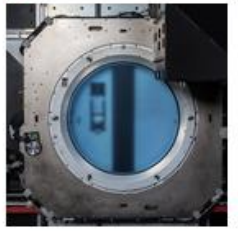
Duration: 36 months

Total investment: M€ 17

Participating organisation: 31

Number of countries: 10







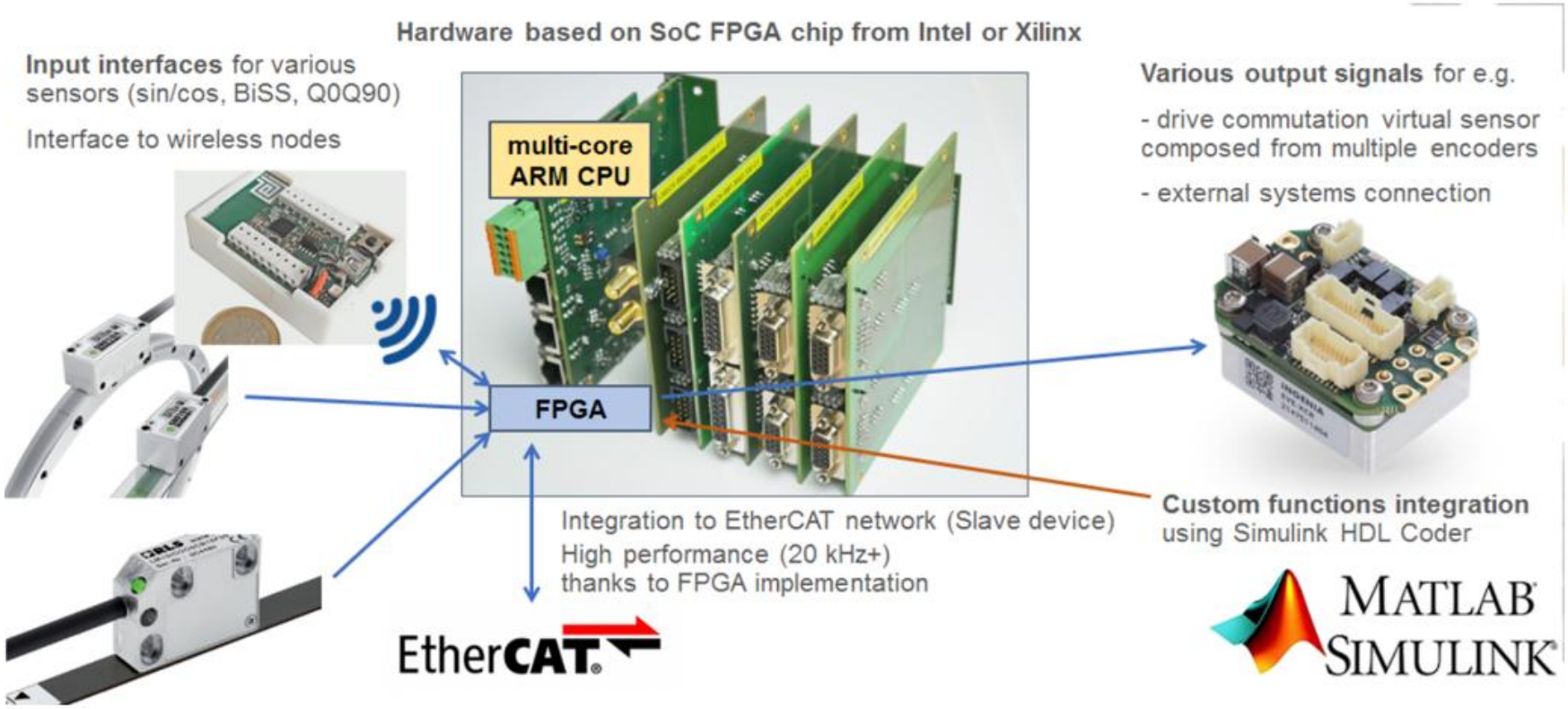




I-MECH / IMOCO4.E: UWB/NTIS results

I-MECH, IMOCO4.E:

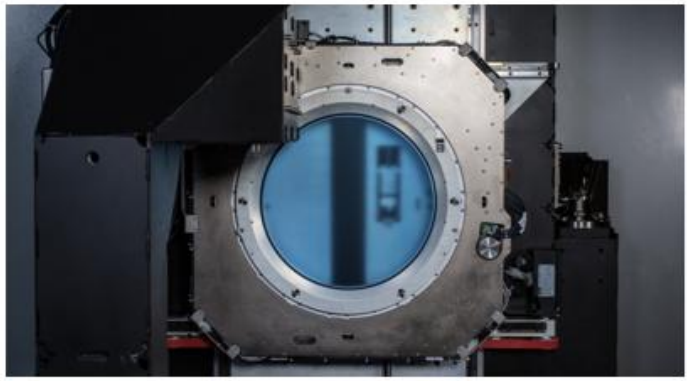
SoC+FPGA custom made HW processing encoder signals on two pilots



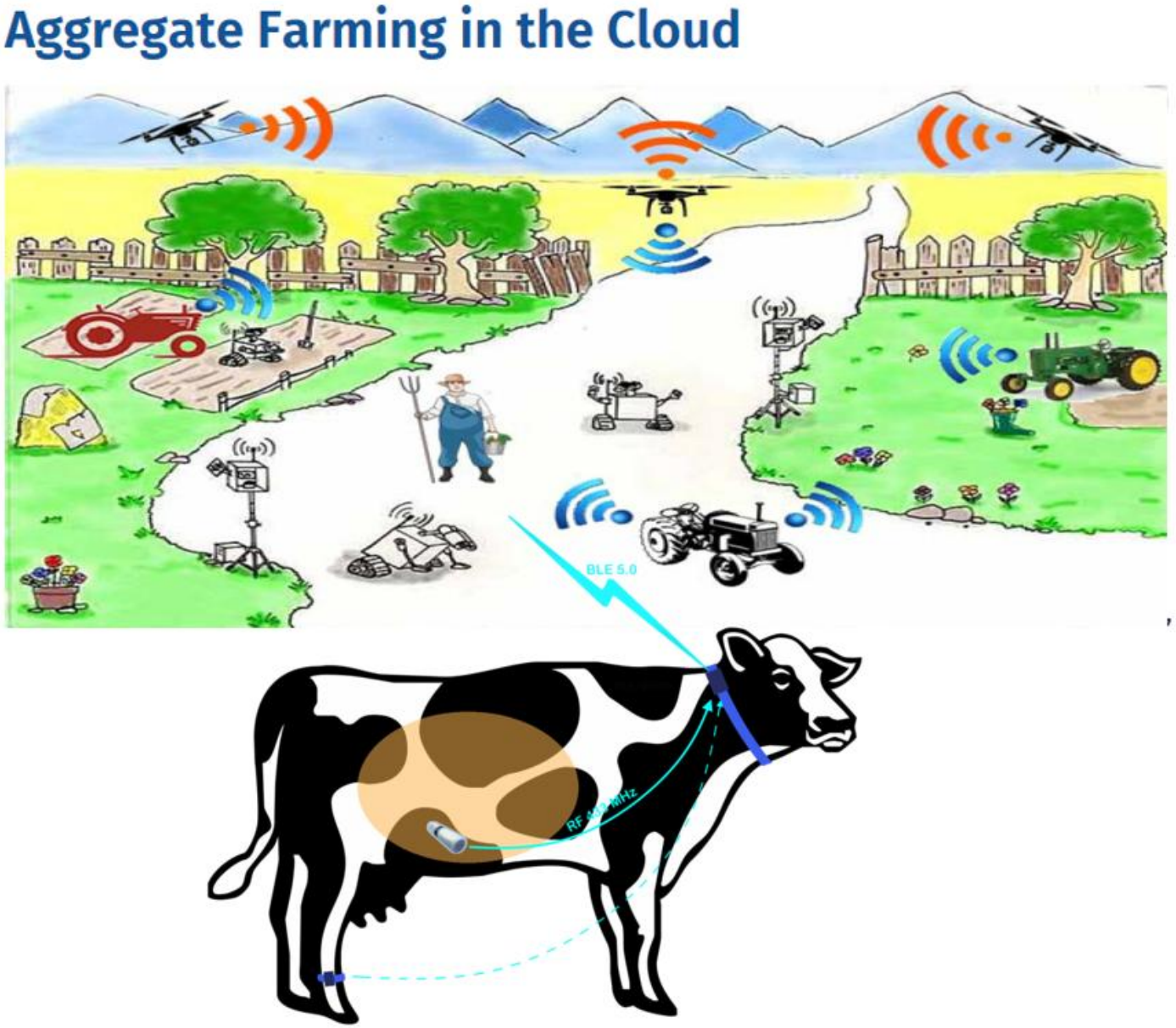
Generic substrate carrier (SCC)



12-inch wafer stage (NXP)



Project example #2: AFarCloud / AgrarSense www.agrarsense.eu





Project coordinator:
José-Fernán Martínez-Ortega
jf.martinez@upm.es

Institution:
Universidad Politécnica de Madrid

Start date: 01/2018

Duration: 36 months

Total investment: M€ 16.6

Participating organisation: 59

Number of countries: 14

Project example #3 – Comp4Drones www.comp4drones.eu

Drones can perform air operations that manned aircraft struggle with, and their use brings significant economic savings and environmental benefits whilst reducing the risk to human life. Drone-based service and product innovation, driven by increased levels of connectivity and automation, is limited by the growing dependence on poorly interoperable, proprietary technologies, and the risks posed to people, to other vehicles and to property.



Transport



Construction



Logistics



Surveillance and Inspection



Project coordinator:
Rodrigo Castiñeira

Website:
https://www.comp4drones.eu/

Institution:
INDRA SISTEMAS SA

Start date: 10/2019

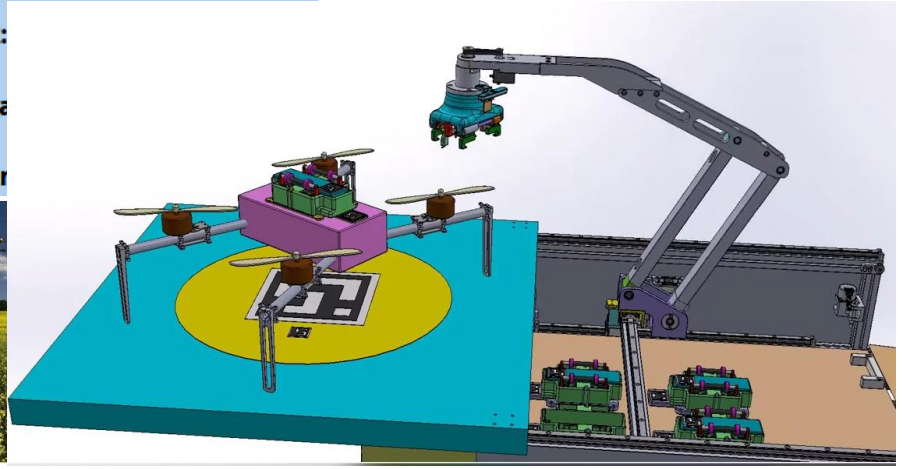
Total investment:

Participating orga

Number of countr

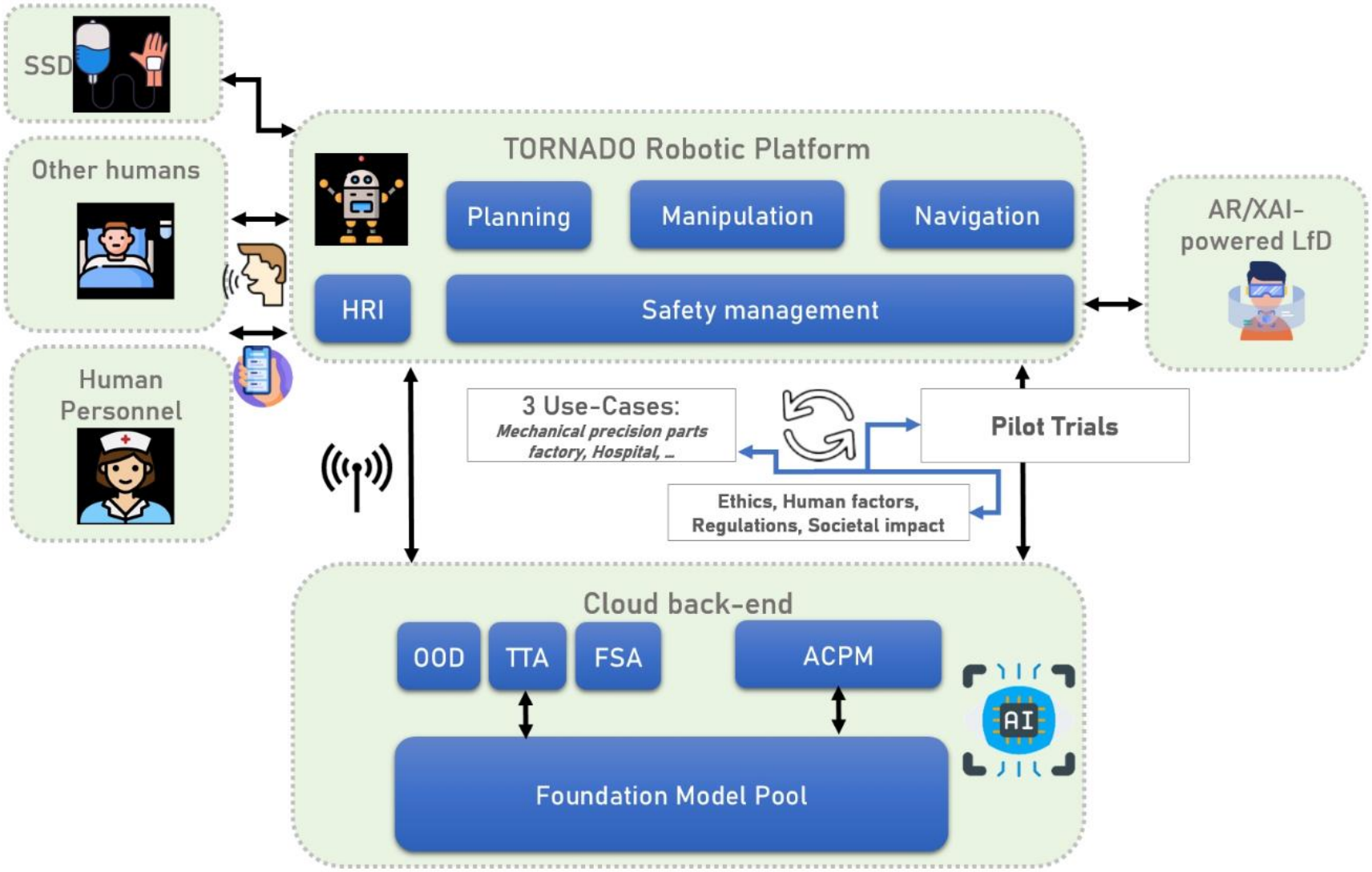






Project example #4 – TORNADO www.tornado-horizon.eu

foundaTion mOdels for Robots that haNdle smAll, soft and Deformable Objects



Project example #5 – HumAMI

https://www.linkedin.com/company/humami-eu-project/



Human-inspired advanced machine intelligence for real-world challenges



Philips, Nokia, BMW, Siemens, ST Micro, NXP, Honeywell, Fraunhover, ETHz, TU/e, VTT, … 40+partners

Projects in numbers

- ✓ Total project costs (where NTIS is involved): **500+ mEur, 250+ partners, 50% private sources** (LE, SME companies)

- ✓ Partners (selected): *Siemens, Philips, ST Microelectronics, NXP, ASML, JnJ, Fagor, Komatsu, BWM, NOKIA, Thales, Indra Systems, Fraunhofer, TU/e, TU Delft, CEA, VTT*



Shrnutí a závěrečné poznámky / otázky

- ✓ Neexistuje jeden zaručený způsob
- ✓ To, co fungovalo před 10 lety, nemusí fungovat nyní
- ✓ Je třeba mít kus štěstí (pozvánka do úspěšného projektu, evaluačního panelu, vzorový kvalitní proposal, …)
- ✓ Je více možností hledání partnerů (projektové burzy, EC portál, konference, osobní kontakty na národní úrovni, LinkedIn)
- ✓ Umět vysvětlit téma projektu pár větami i „neodborníkům“
- ✓ Pre-screening projektových návrhů od TC velmi užitečný
- ✓ Role konzultačních společností?
- ✓ Role AI v projektovém cyklu?

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