

IoTWeek

Dublin — June 20-23, 2022

Interconnect Project and OPEN DEI TF3 23 June 2022

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GLOBAL VISION:

IoT TODAY AND BEYOND

IoTForum

interconnect

PROJECT

THE ROAD TO INTEROPERABILITY

INTERCONNECT TEAM PROFILE

50+

institutions from

11

EU countries engaged in
this interoperability mission

14



R&D
Institutions

10



Manufacturers
and Integrators

09



IoT/ICT
Providers

05



Consultancy

04



Sets of
end-users

03



DSO

03



Retailers

03



Associations

INTERCONNECT PATHWAY TO INNOVATION

2019-2021



Existing background

- Technologies & services in TRL 6
- SAREF, SPINE, FIWARE, S2
- 30 use cases from 11 different projects (InterFlex, Integrid, GIFT, EEBUS, etc.)



Interoperability

- Semantic data exchange (SAREF)
- Interoperability framework w/ semantic discovery, navigation and reasoning enablers

2019-2021



Use Cases & Services

- New use cases for existing technologies
- New technologies for existing use cases
- Incremental innovation of existing technologies

2021-2023



Core Technologies

- SAREFized services
- AI & ML
- IoT platforms
- Gamification
- P2P marketplace
- DSO interface

2021-2023

Open Calls for Innovators



- Interoperable-by-design prototypes
- Interoperable-by-adoption demonstrators

2021-2023

Pilots



- DSF-centric
- Multi-utility
- Cross-sector

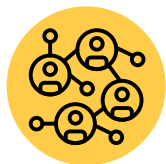


interconnect

Deadline: 26/07/2022

Interoperable-by-design Prototypes Open Call!

www.interconnect-1-oc.fundingbox.com



FOR EUROPEAN ICT/ENERGY SMEs AND STARTUPS



INTERESTED IN DEVELOPING NOVEL INTEROPERABLE
APPLICATIONS FOR SMARTHOMES AND SMARTGRIDS

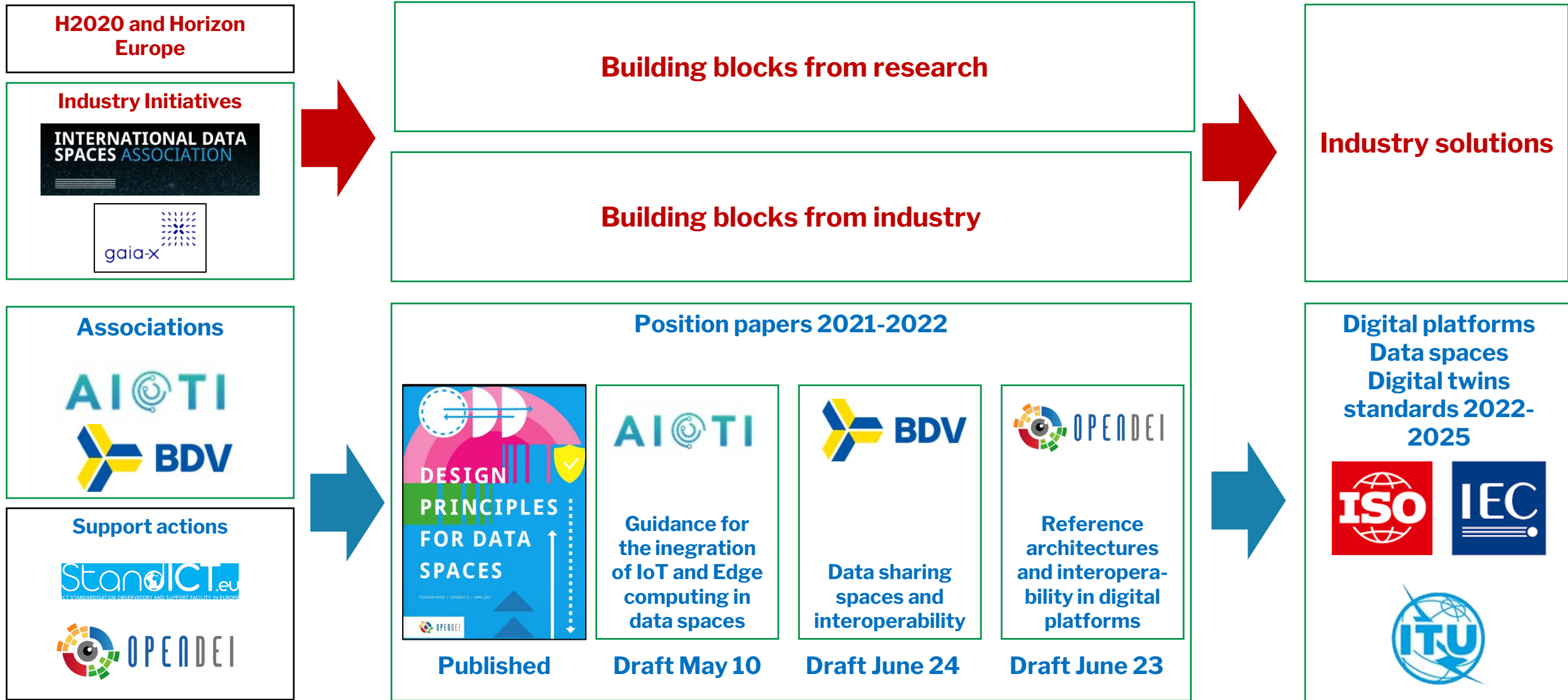
14 Bottom-up projects will get benefits such as:

- Financial support: up to 150.000 € per project!
- 7 months Customized Support Programme



AIOTI-BDVA-European Projects Position papers

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OPEN DEI TF3

REFERENCE ARCHITECTURES AND INTEROPERABILITY IN DIGITAL PLATFORMS



TABLE OF CONTENTS

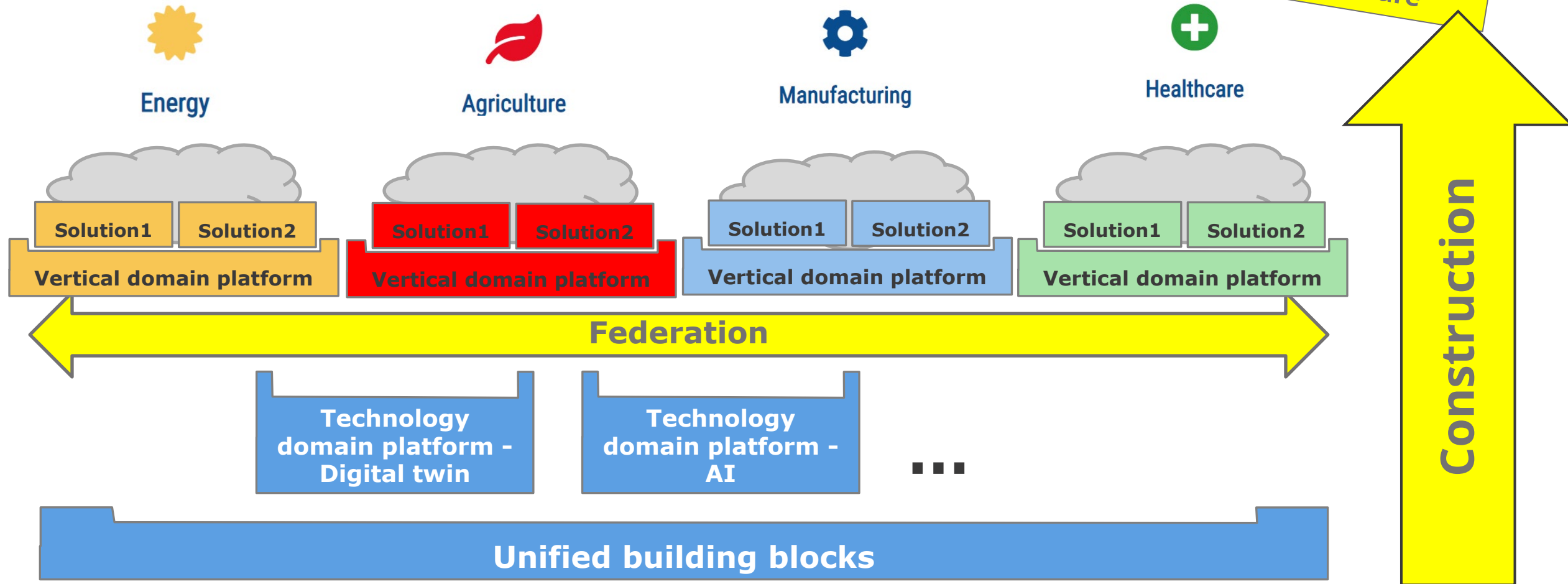
1	Introduction	7
1.1	Structure of Position Paper	7
1.2	Acknowledgement	7
2	Aligning Digital Platforms for DEI	9
2.1	Context	9
2.2	Reference Architectures	9
2.2.1	Purpose of Reference Architectures	9
2.2.2	OPEN DEI Reference architecture framework	11
2.2.3	Digital Platforms Convergence - DSBA Initiative	12
2.3	Interoperability Frameworks	13
2.3.1	Purpose of interoperability Frameworks	13
2.3.2	Building Interoperability	16
2.4	Topics of Interest for Federated Platforms	18
2.4.1	Trustworthiness	18
2.4.2	Universal resource management	19
2.4.3	Digital twin and AI integration	21
2.4.4	Semiotic approach to support cyber physical systems	24
2.4.5	Interoperability approaches	25
2.5	Aligning with Solutions	26
3	Reference Architectures and Interoperability for Digital Manufacturing Platforms	27
3.1	Context for Manufacturing	27
3.2	Reference Architectures for Manufacturing	27
3.3	Interoperability Frameworks for Manufacturing	30
3.4	Aligning the Manufacturing domain for DEI	32
4	Reference Architectures and Interoperability for Digital AgriFood Platforms	32
4.1	Context for Agrifood	32
4.2	Reference Architectures for Agrifood	32
4.3	Interoperability Frameworks for Agrifood	41
4.4	Aligning the Agrifood Domain for DEI	43
5	Reference Architectures and Interoperability for Digital Energy Platforms	44
5.1	Context for Energy	44
5.2	Reference Architectures for Energy	44
5.3	Interoperability Frameworks for Energy	45
5.4	Aligning the Energy Domain for DEI	46
6	Reference Architectures and Interoperability for Digital Health & Care Platforms	48
6.1	Context for Health and Care	48
6.2	Reference Architectures for Health and Care	49
6.3	Interoperability Frameworks for Health and Care	50
6.4	Aligning the Health and Care domain for DEI	51
6.5	Example of InteropEHRate Research Project	54
7	Lessons Learned and Recommendations	56



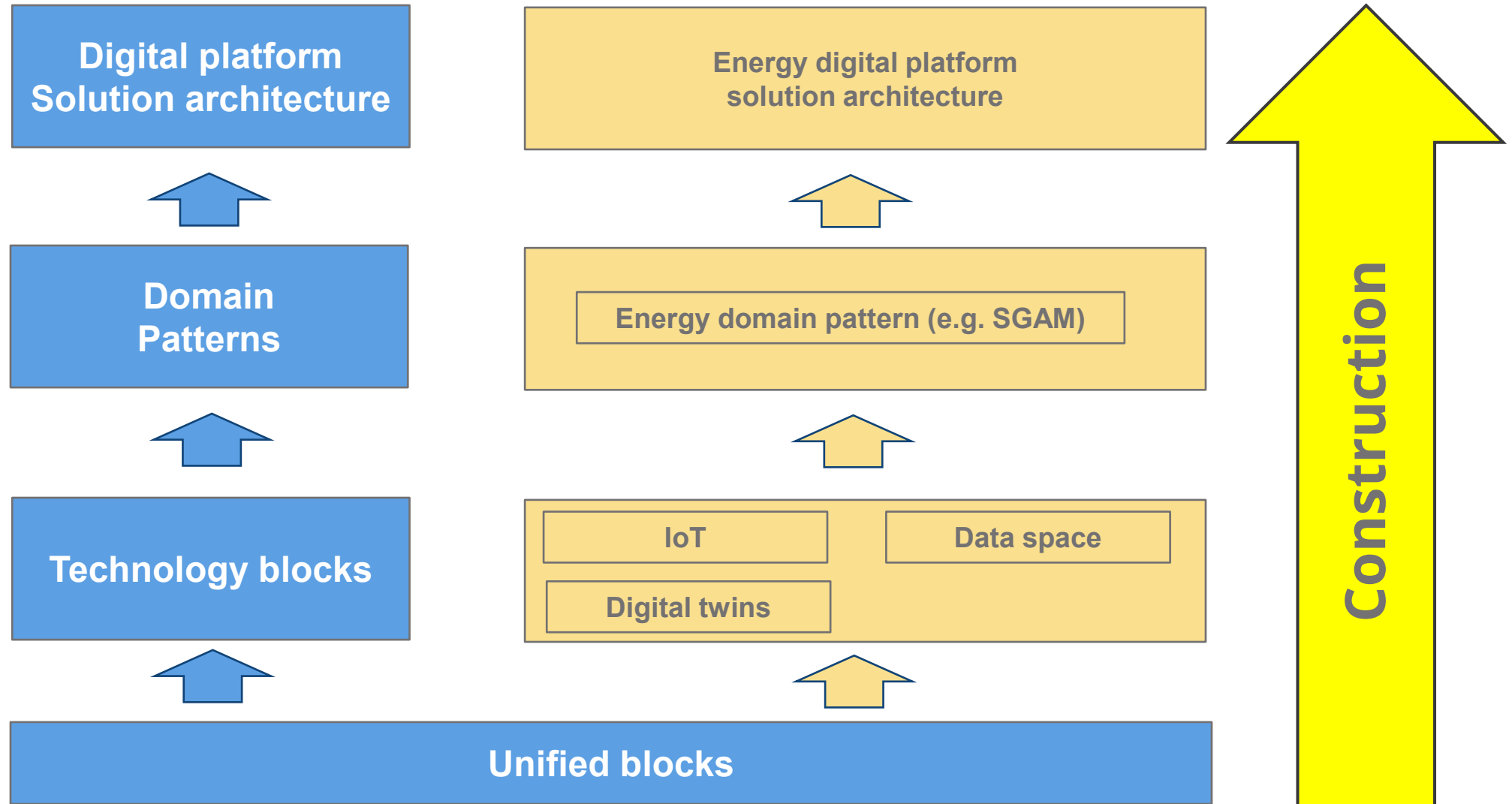


Architecture Approach

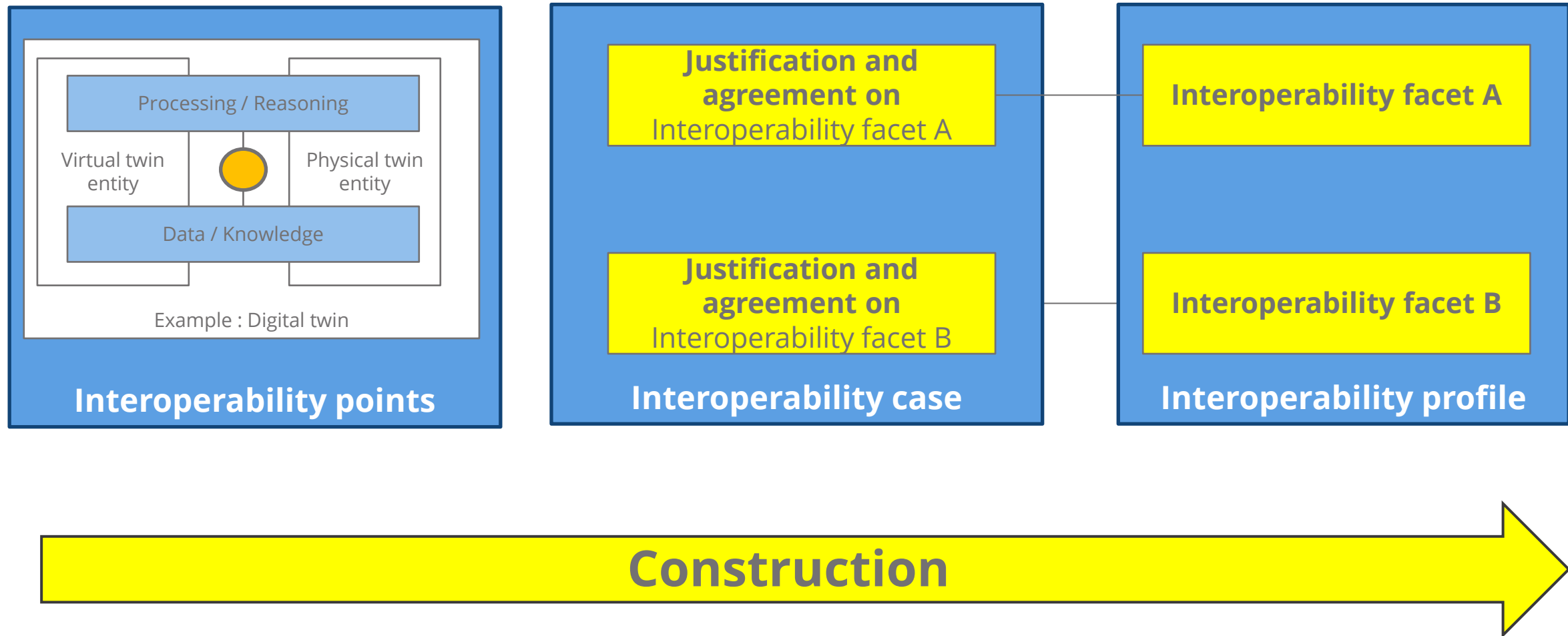
Follows Reference Architecture Standards
ISO/IEC/IEEE 42010 - Architecture description
JTC 1/AG 8 - Meta Reference Architecture



Architecture approach – Energy example



Interoperability Approach – Data space (digital twin) example



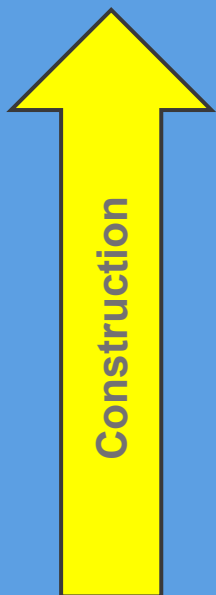
Conclusion : Construction convergence supported by standards

Cross domain convergence Architecture

Domain building block

Technology building block

Unified building blocks



Cross domain convergence Interoperability

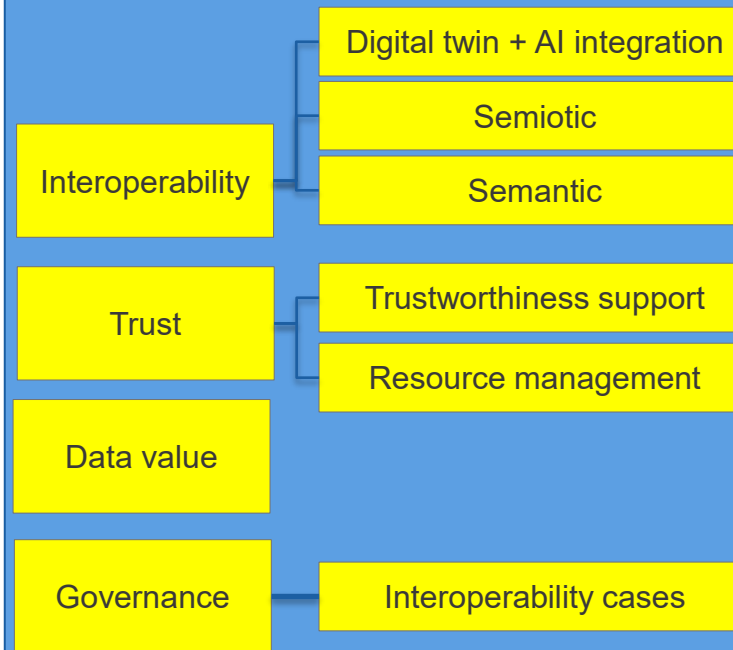
Interoperability profiles

Interoperability cases

Integration Interoperability points



Data space Standardisation needs



Alignment in 4 domains





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Thank you!

Find more:

<https://www.opendei.eu/>

[iotweek.org](https://www.iotweek.org)