14th BUILD UP SKILLS EUROPEAN EXCHANGE MEETING

29th November 2022

EUROPEAN PROJECT TRAIN4SUSTAIN

"Stimulating demand for sustainable energy skills in the building sector"

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 894514.

TRAIN4SUSTAIN Competence Quality Standard

GPP SPANISH PILOT CASE STUDY

ESR PLATFORM

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- Train4Sustain Competence Quality Standard at a glance
- GPP Spanish Pilot
- Debate and discussion

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The TRAIN4SUSTAIN CQS structure

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Train4Sustain Competence Quality Standard

TRAIN4SUSTAIN CEN Workshop Agreement (CWA)

first pre-standard available in Europe

Competence Quality Standard structure and methodology

- **hierarchic** and modular **structure** ★
- **European Skill Registry Platform**

sustainability skills and competences

- **Areas of Expertise** ★

professionals and workers

- **SkillPassort** ★

construction sector

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T4S Competence Quality Standard at a glance

4 Dimensions

LEVEL 1 – THEMATIC FIELDS

LEVEL 2 – MACRO AREAS OF EXPERTISE

LEVEL 3 – AREAS OF EXPERTISE

LEVEL 4 – LEARNING OUTCOMES

Dimension	Environment	
Thematic field	E	Energy
Macro-Area Expertise	ER	Energy Reduction
Area of Expertise	ER1	Insulation
	ER2	Air tightness building
	ER3	Micro climates
	ER4	Envelope systems
	ER5	Hot water systems

Environment		Society		Economy		Process	
EN	Energy	CO	Comfort and well being	EQ	Economical quality	BD	Sustainable Building Design
EN1	Energy Performance Assessment	CO1	Indoor air quality	EQ1	Cost planning and management	BD1	Integrative design
EN1.1	Energy Simulation	CO1.1	Low Emitting materials	EQ1.1	Construction cost planning	BD1.1	Integrated Design Process
EN2	Energy Management	CO1.2	Indoor air pollutants management	EQ1.2	Life cycle cost assessment	BD1.2	Quality of site assessment
EN2.1	Smart grid systems	CO1.3	Outdoor air pollutants management	EQ2	Green value	BD1.3	Value engineering
EN2.2	Domotic systems	CO2	Thermal comfort	EQ2.1	Value creation and risk exposure	ID	Innovative Digital Solutions
EN2.3	Building Management Systems (BMS)	CO2.1	Indoor Thermal Comfort	EQ2.2	Communication of green building value	ID1	Building Information Modelling
EN2.4	Renewable Energy communities (smart neighbourhoods)	CO2.2	Outdoor Thermal Comfort	EQ3	Financing schems and business models	ID1.1	Operation of BIM systems
EN3	Energy Production and HVAC systems	CO3	Visual comfort	EQ3.1	Financing schemes for sustainable building	ID2	Small urban Information Modelling
EN3.1	Heating and cooling systems	CO3.1	Daylighting	EQ3.2	Business models preparation	ID2.1	Operation of DIM systems for small urban areas
EN3.2	Ventilation systems	CO3.2	Indoor lighting	EQ4	Operative costs	ID3	GIS Systems
EN3.3	Hot water systems (DHW)	CO3.3	Outdoor lighting	EQ4.1	Operating and maintenance cost management	ID3.1	GIS Systems for design and planning
EN3.4	Electric heating systems	CO4	Acoustic comfort	EQ4.2	Use stage energy cost management	ID4	Lean Management
EN3.5	Heat pump systems and geothermal energy systems	CO4.1	Sound insulation	EQ4.3	Use stage water cost management	ID4.1	Lean Management solutions
EN3.6	Solar thermal energy systems for heating, cooling and DHW	CO4.2	Room acoustics			ID5	Measuring
EN3.7	Solar power systems for electricity generation	CO4.3	Indoor noise management			ID5.1	Smart meters
EN3.8	Combined Heat and Power (CHP) generation	CO4.4	Environmental noise management			ID5.2	Smart Building Sensors
EN3.9	Mini wind power generation	CO5	Electromagnetic pollution			ID6	Digital Twins Solutions
EN3.10	Energy storage systems (long duration storage, central/ decentral.)	CO5.1	Management of indoor exposure to ELF magnetic fields			ID6.1	Digital Twins systems
EN4	Energy Reduction	CO5.2	Management of indoor exposure to RF/MW electromagnetic fields			SC	Sustainable costruction
EN4.1	Thermal insulation	CO6	Ergonomics			SC1	Sustianable construction management
EN4.2	Building air tightness	CO6.1	Ergonomic and Active Furnishing			SC1.1	Construction Activity Pollution Management
EN4.3	Window and glazing systems	SA	Safety			SC1.2	Sustainability awareness
EN4.4	Solar shading systems	SA1	Fire protection			MN	Maintenance and operating
EN4.5	Passive systems for cooling and heating	SA1.1	Risk to occupants and facilities from fire			MN1	Maintenance
EN4.6	Energy saving strategies for lighting	SA2	Earthquacke			MN1.1	Building maintenance
EN4.7	Mitigation strategies for urban thermal effects	SA2.1	Risk to occupants and facilities from earthquake			MN1.2	Building degradation diagnosis
EN4.8	Building occupancy behavior	AC	Accessibility			MN1.3	Estimation of materials' service life
WA	Water	AC1	Barrier free accessibility			BE	Built Environment Certification systems
WA1	Water efficiency	AC1.1	Accessibility of public spaces			BE1	Building sustainability certification
WA1.1	Outdoor water use management	AC1.2	Design for All			BE1.1	Energy Performance Certification
WA1.2	Indoor water use management	MO	Mobility			BE1.2	Building sustainability certification systems
WA2	Effluents management	MO1	Alternative mobility			BE2	Small Urban scale assessment systems
WA2.1	Rainwater collection and reuse systems	MO1.1	Sustainable mobility strategies			BE2.1	Small Urban scale sustainability assessment systems
WA2.2	Graywater collection and reuse systems	SE	Services			IS	Interdisciplinary Skills
WA2.3	Urban Waste Water Treatment	SE1	Communication			IS1	Procurement
MA	Materials	SE1.1	Communication services			IS1.1	Green Procurement
MA1	Design for Deconstruction, reuse and recycling	SE2	Services for inhabitants			IS2	Quality assurance
MA1.1	Materials and components for ease of disassembly	SE2.1	Functional mix			IS2.1	Quality assurance planning and management
MA1.2	Adaptive reuse	SE2.2	Infrastructure and connectivity			IS3	Collaboration and Communication
MA2	Sustainable materials	AD	Adaptation and resilience to climate change			IS3.1	Motivation and communication - Design Team
MA2.1	Life Cycle Assessment (building scale)	AD1	Climate chenge resilient buildings			IS4	Inormation management
MA2.2	Recycled and reused materials	AD1.1	Resilience to extreme weather events			IS4.1	Management of information in a design process
MA2.3	Regenerative materials and technologies	AD1.2	Sustainable drainage			IS5	Safety Assurance
MA3	Solid waste	AD1.3	Resilience to heatwaves			IS5.1	Risk prevention, safety and health of workers
MA3.1	Solid waste management	AD1.4	Resilience to windstorms			LB	Listed Buildings
HA	Habitat	AD1.5	Resilience to wildfire			LB1	Improving energy performance of listed buildings
HA1	Land Use					LB1.1	Handling and architectural conservation of listed buildings
HA1.1	Site preservation, regeneration and development						
HA1.2	Urban and peri-urban agriculture						
HA2	Biodiversity						
HA2.1	Management of biodiversity on the site						

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T4S Competence Quality Standard structure and methodology

Dimension
Thematic field
Macro-Area Expertise
Area of Expertise

Environment	
EN	Energy
EN4	**Energy Reduction**
EN4.1	Thermal insulation
EN4.2	Building air tightness
EN4.3	Window and glazing systems
EN4.4	Solar shading systems
EN4.5	Passive systems for cooling and heating
EN4.6	Energy saving strategies for lighting
EN4.7	Mitigation strategies for urban thermal effects
EN4.8	Building occupancy behavior

LEVEL 3 – AREAS OF EXPERTISE

LEVEL 4 – LEARNING OUTCOMES

EN4.6	**Energy saving strategies for lighting**					
LO code	**LO Description**	**Knowledge**	**Skill**	**B/W**	**Comp. Level**	**Project's stage**
EN4.6.1	Understanding the importance of energy saving for lighting	Minimal knowledge of: - artificial lighting for indoor spaces and its integration with daylight; - user needs and technical standard requirements.	Participating in discussions for the feasibility study of energy saving for lighting within a design team.	W, B	1	Co
EN4.6.2	Applying basic solutions of energy saving for lighting	Basic knowledge of: - photometric quantities and metrics on visual comfort; - photometric and energy performance of main light sources and luminaires; - simple calculation methods (LENI simplified calculation method, EN standard compliant).	Performing simplified calculation to assess energy saving in relation to different lighting systems.	B	2	D
EN4.6.3	Proposing conceptual solutions of energy saving for lighting	Medium knowledge of: - metrics on visual comfort in indoor workplaces; - all relevant standards on energy performance for lighting; - photometric and energy performance of light sources, luminaires and control systems; - commercial software for lighting design.	Selecting and proposing alternative lighting systems, considering the most energy efficient lamp/luminaire combination and indoor space configuration. Assessing energy performance of the lighting system by means of commercial simulation tools.	B	3	Co, D

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professionals and workers

WORK FIELDS are related to PROFESSIONS: WHITE COLLARS

#	Work field	Reference profession(s) within the work field	Definition of the profession
1	Architecture	Architect	Architects investigate, design and oversee the implementation buildings taking into account functional, architectural, aesthetic structural, technical, regulatory, cost and contextual requireme with due regard to public health and safety. Specialization is possible on topics like construction safety, thermal performanc acoustics, quality of air, daylighting.
2	Mechanical engineering (HVAC)	Mechanical Engineer	Designer of systems for HVAC and sanitary equipment, considering the limitations imposed by practicality, regulation, safety, and cost.
3	Civil engineering	Structural engineer, Civil Engineer, Construction Engineer, Service engineers	Designer of materials and structures, considering the limitation imposed by practicality, regulation, safety, and cost. Specializat is possible on topics like construction safety, thermal performance, acoustics, building physics.
4	Electrical engineering	Electrical Engineer, ICT Engineer, Building Automation Engineer, Lighting specialist	Designer of power, lighting, data and or communication installations, considering the limitations imposed by practicality regulation, safety, and cost. Designer of building automation systems, system engineer / system integrator, considering the limitations imposed by practicality, regulation, safety, and cost

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T4S Competence Quality Standard structure and methodology

professionals and workers

WORK FIELDS: BLUE COLLARS

Construction work	#	Work field	Definition of the profession
Building	10a	Bricklayers	Worker dealing with the construction of the building envelop
	10b	Carpenters	Worker dealing with wood construction
	10c	Façade Workers, Plasterer	Worker dealing with the façade construction and its finishing
	10d	Insulation installers	Worker dealing with the installation of thermal insulation
	10e	Roofers	Worker dealing with the construction of the building's roof
	10f	Window Installers	Worker dealing with the installation of windows or other transparent components of the building envelope
Technical installations	11a	Electrical installers	Worker dealing with the installation of electrical equipment
	11b	Plumber	Worker dealing with the installation of water pipes and devices
	11c	Renewable Energy Systems Installers (Electric)	Worker dealing with the installation of renewable energy systems for producing electricity (e.g. Photovoltaic Panels)
	11d	Renewable Energy Systems Installers (Thermal)	Worker dealing with the installation of renewable energy systems for producing heat (e.g. Solar thermal panels)
	11e	Ventilation and Air Conditioning Installers	Worker dealing with the installation of ventilation and air conditioning systems
	11f	Heating systems installer	Worker dealing with the installation of heating systems (boilers, heaters, etc.9

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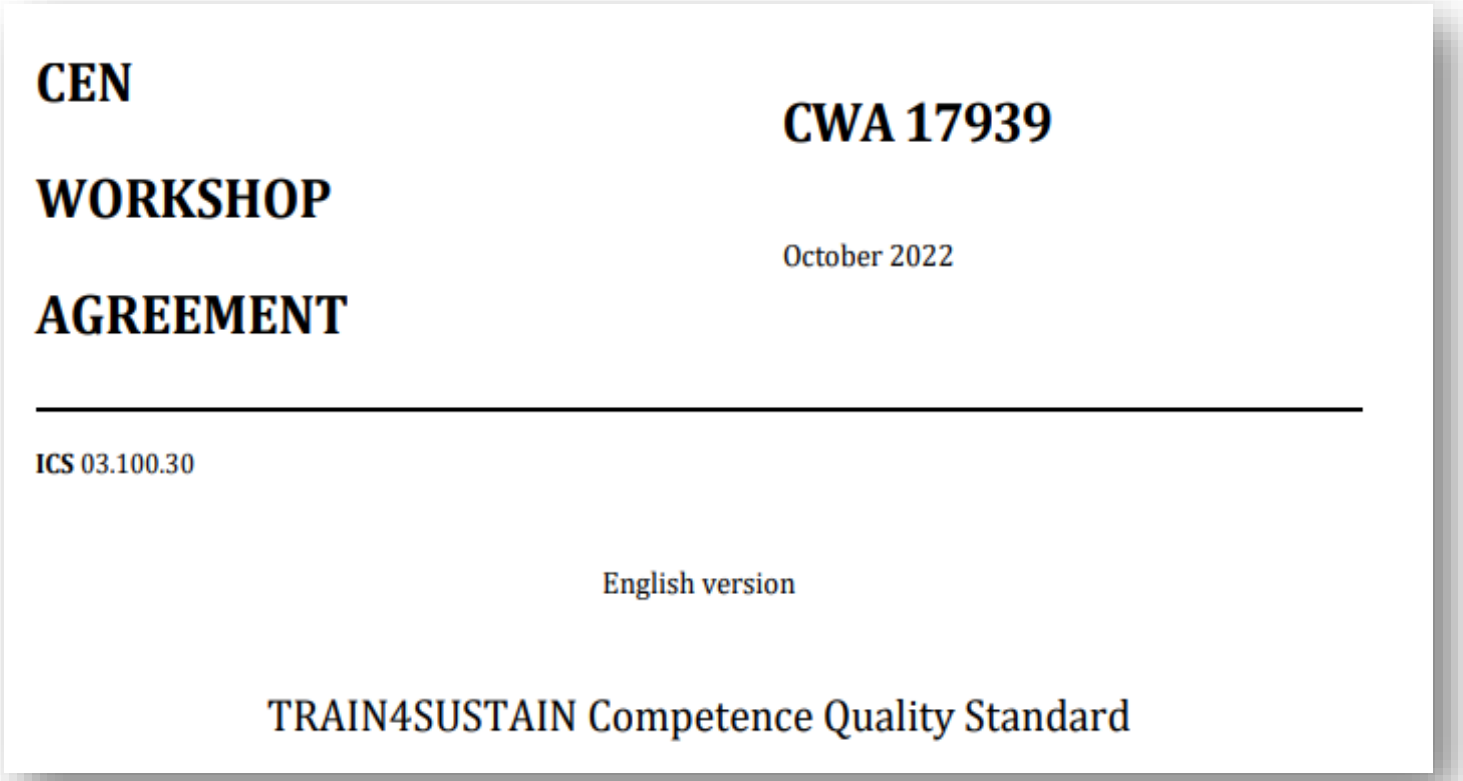
TRAIN4SUSTAIN CQS
is now a European CEN pre-standard



CEN

WORKSHOP

AGREEMENT

CWA 17939

October 2022

ICS 03.100.30

English version

TRAIN4SUSTAIN Competence Quality Standard

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GPP AND THE ESR PLATFORM

TRAIN4SUSTAIN Competence Quality Standard

SPANISH PILOT CASE STUDY

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1 **The Pilot definition**	Customer + Building
2 **GPP in Spain**	Contracts needed
3 **How to introduce the requirements in the GPP Process**	Contract 1. Design Team
4 **How the Public Administration announces the offer on the platform**	ESR Platform
5 **Reception of Applications, comparison and adjudication**	Influence of the Passport Score

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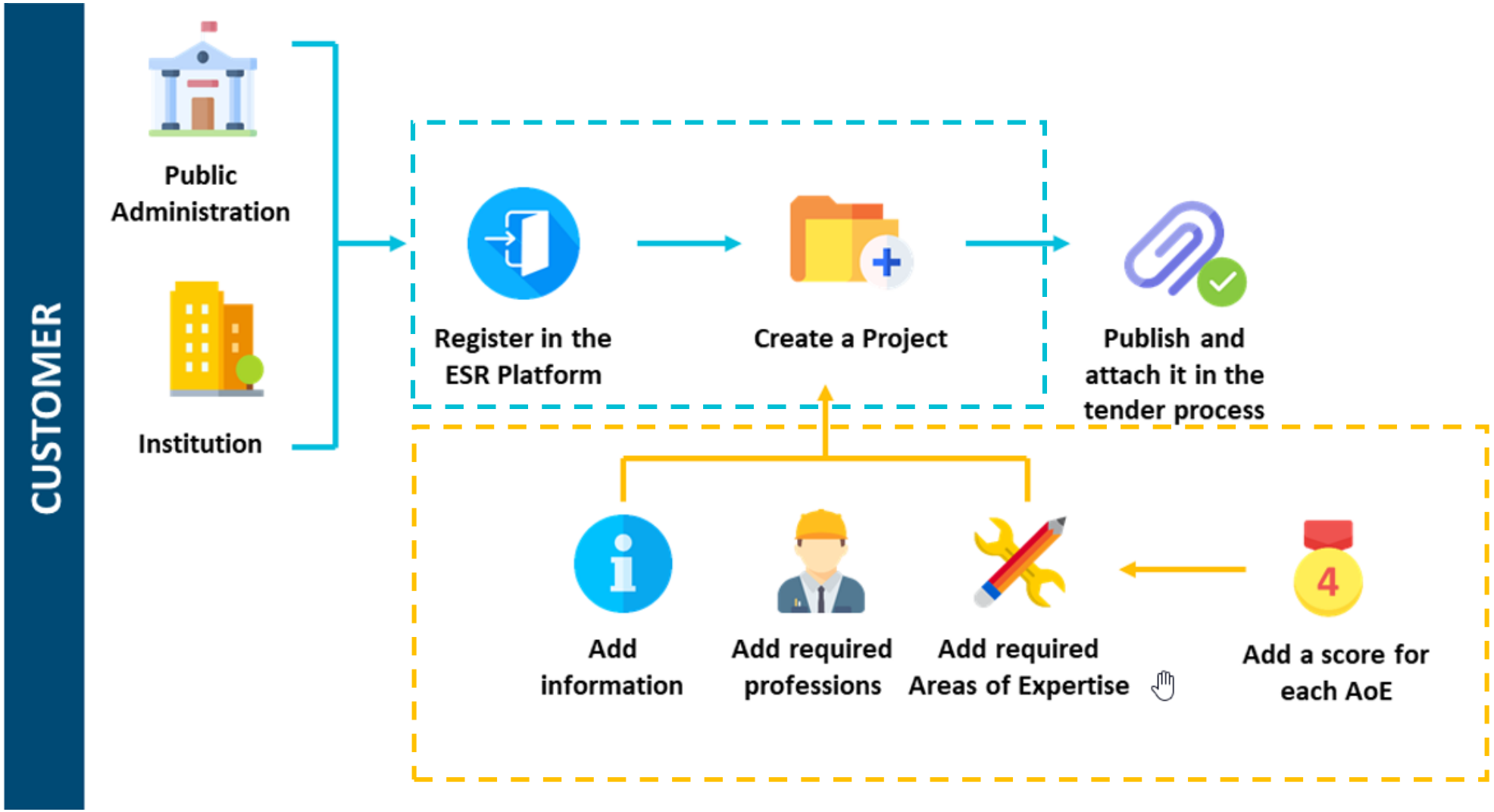
4. HOW THE PUBLIC ADMINISTRATION ANNOUNCES THE OFFER ON THE PLATFORM



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1. PILOT DEFINITION

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Pilot

INCASÒL

BUILDING

- Catalan Institute of Land
- Public Body of the Generalitat of Catalonia
- Promotes public housing

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1. PILOT DEFINITION

Pilot

INCASÒL

BUILDING

Santa Coloma de Gramenet

38 Dwellings. GF + 4 Floors

Under Construction. 2019 - …

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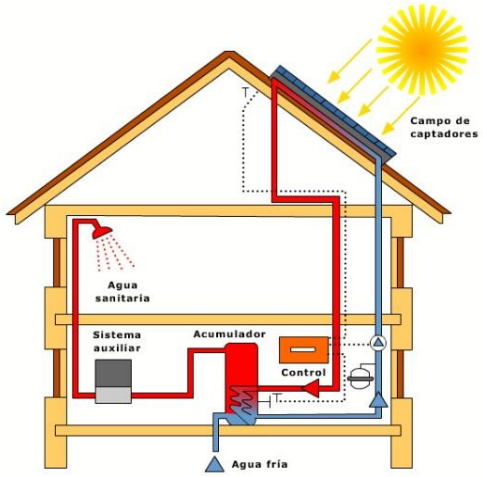
1. PILOT DEFINITION

Pilot

INCASÒL

BUILDING



- Energy rating obtained A
- 114 Photovoltaic Panels
- Aerothermal Head Pump

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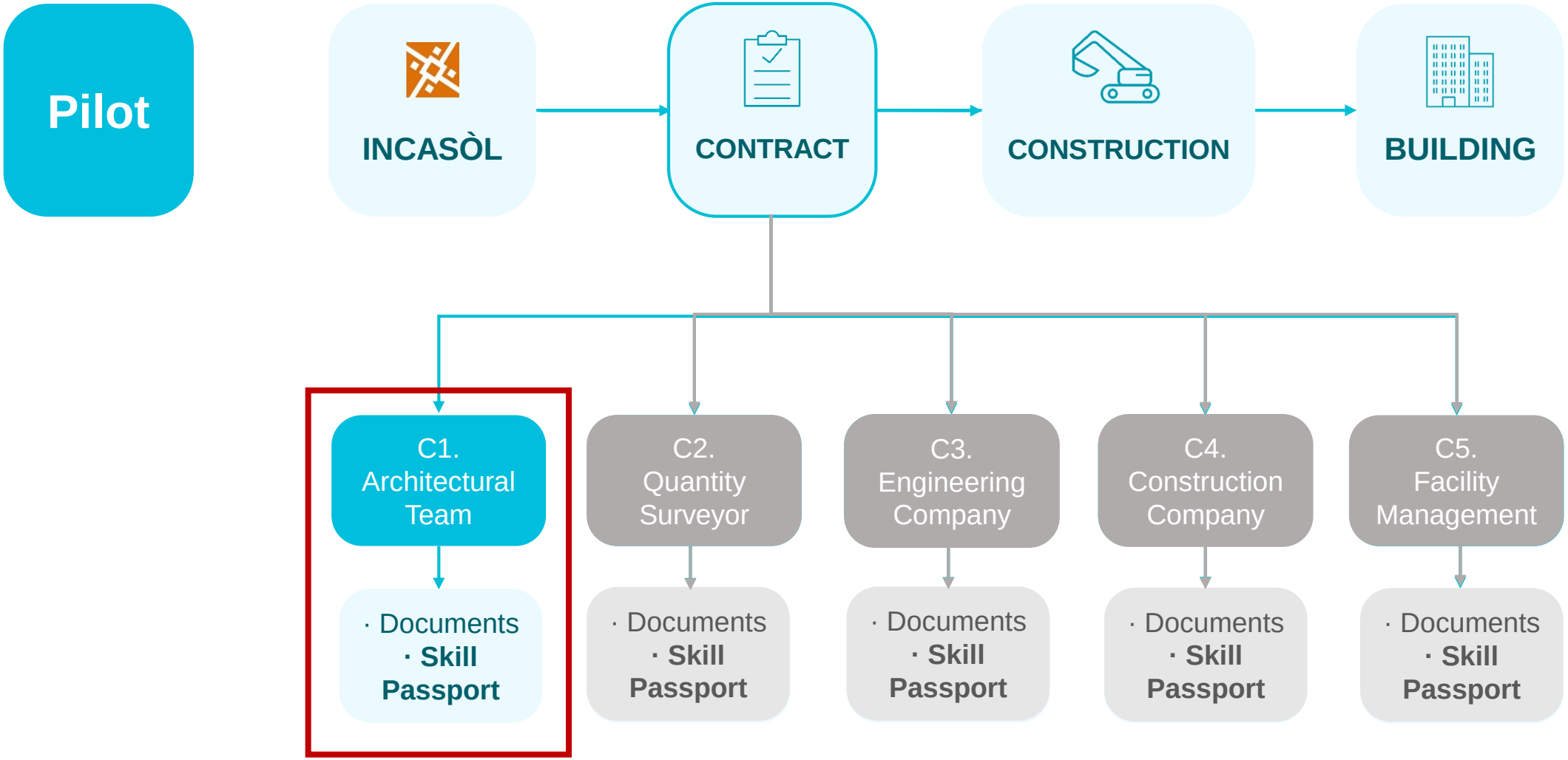
2. GREEN PROCUREMENT PROCESS



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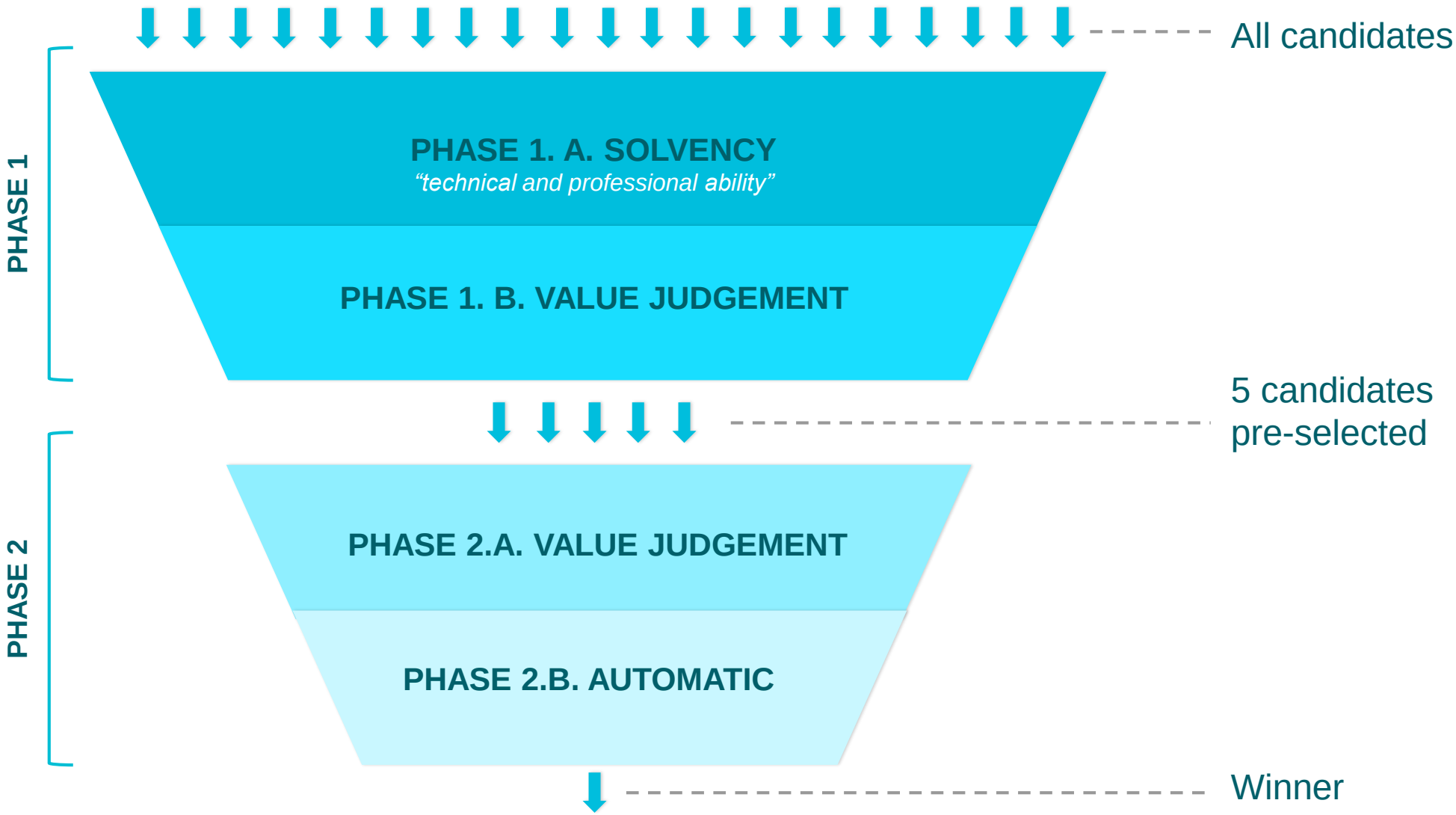
3. HOW TO INTRODUCE THE REQUIREMENTS IN THE GPP PROCESS



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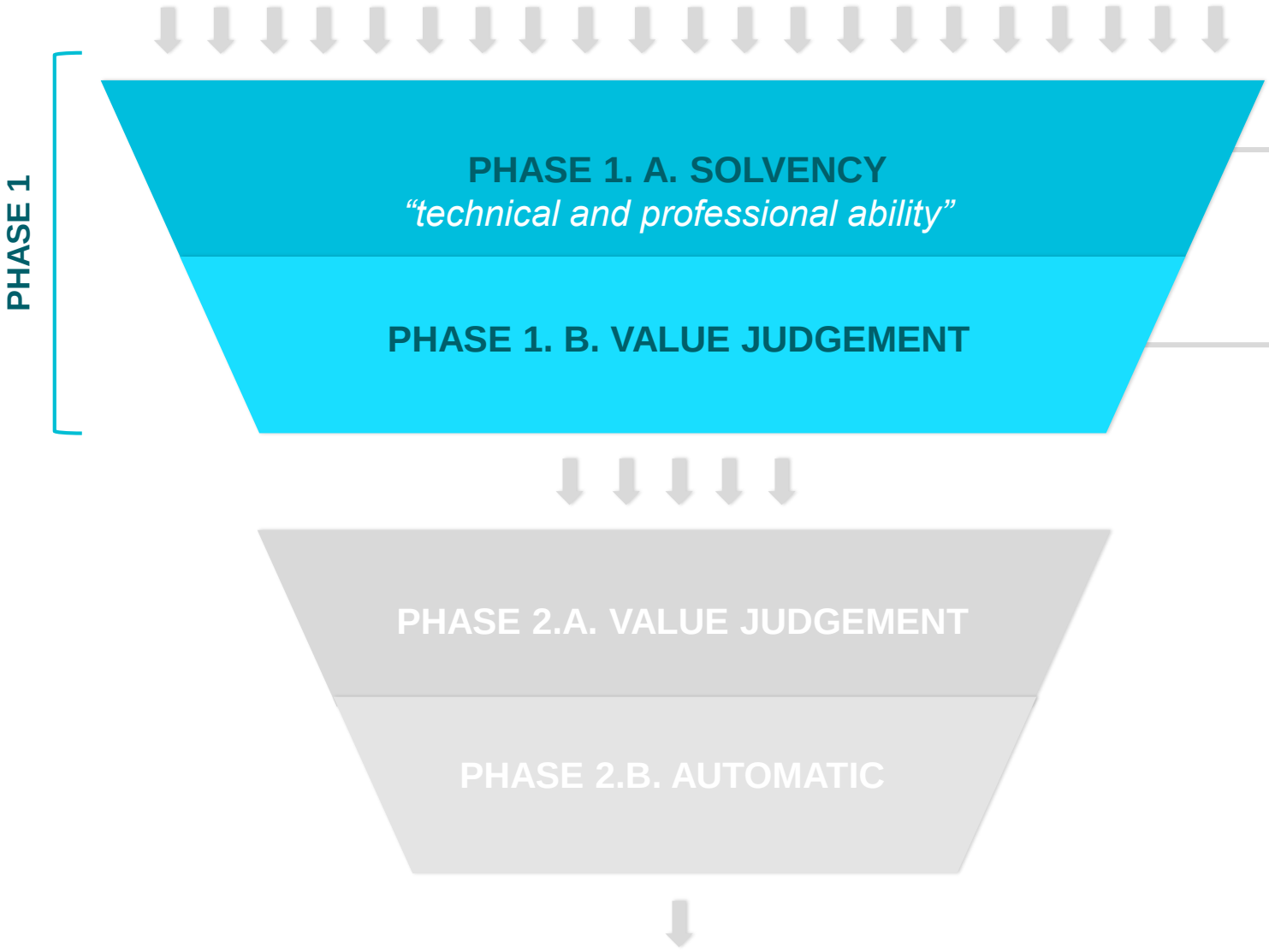

1.A. Solvency
1.1. Economic and Financial
1.2. Professional Technique
1.3. Minimum Technique

1.B. Value Judgement (40 pts)
1.1. Adaptation of the proposal to the existing environment (8 pts)
1.2. Building Layout (10 pts)
1.3. Spatial quality of the housing typology proposal (8 pts)
1.4. Energy Stragegy (4 pts)

This Project has rceived funding from the European Union's ENI CBC Med programme
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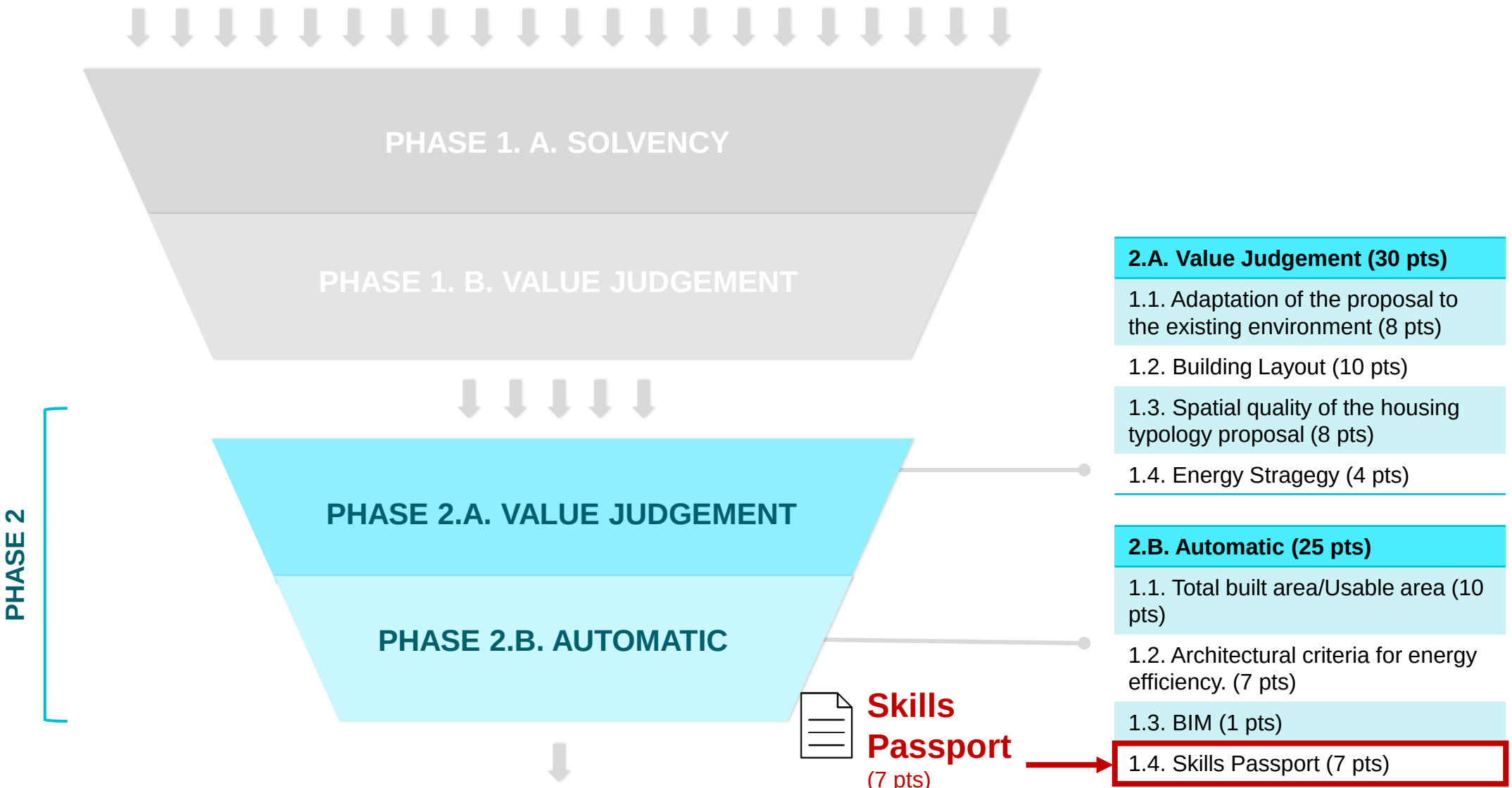
3. HOW TO INTRODUCE THE REQUIREMENTS IN THE GPP PROCESS



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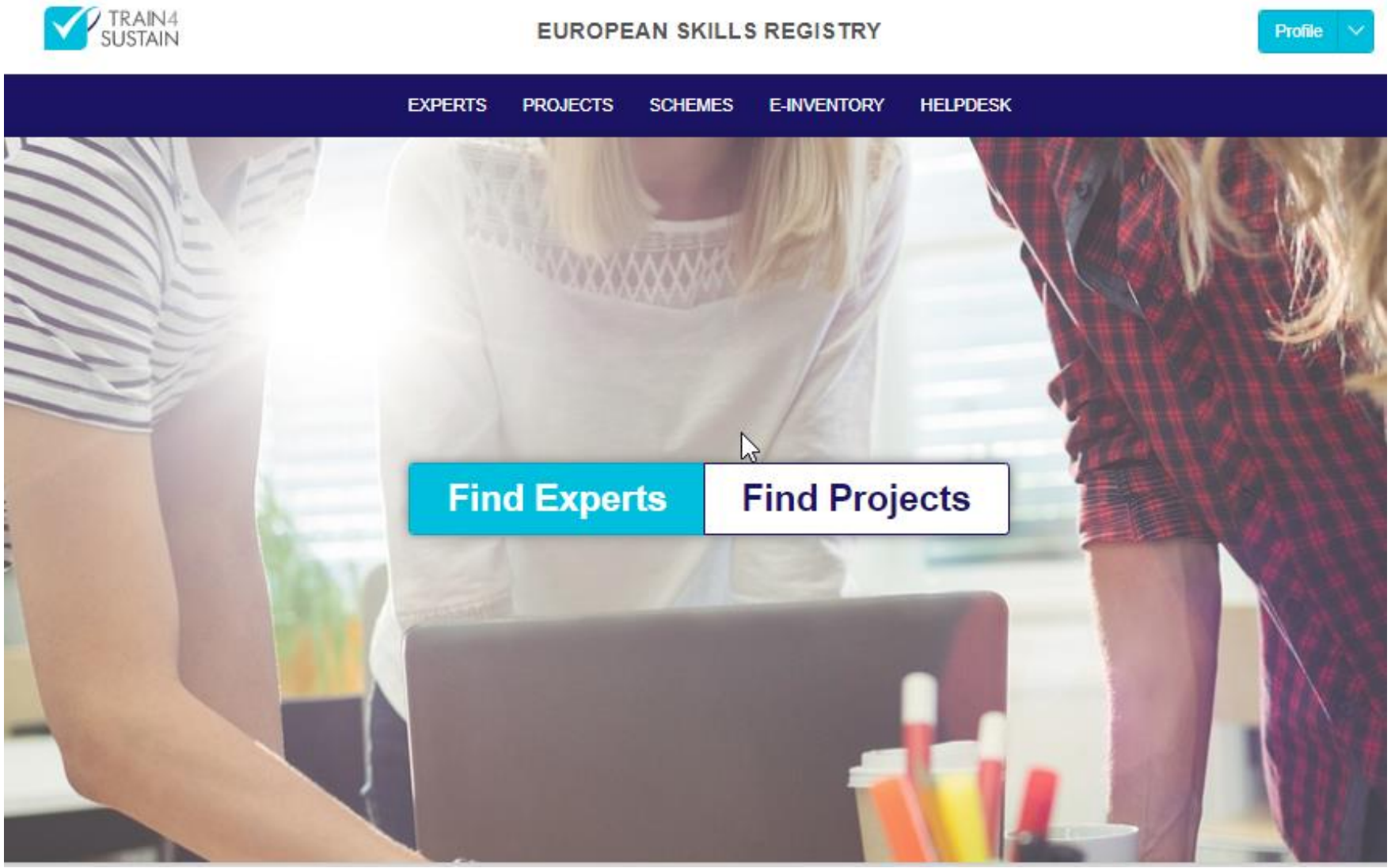
4. HOW THE PUBLIC ADMINISTRATION ANNOUNCES THE OFFER ON THE PLATFORM



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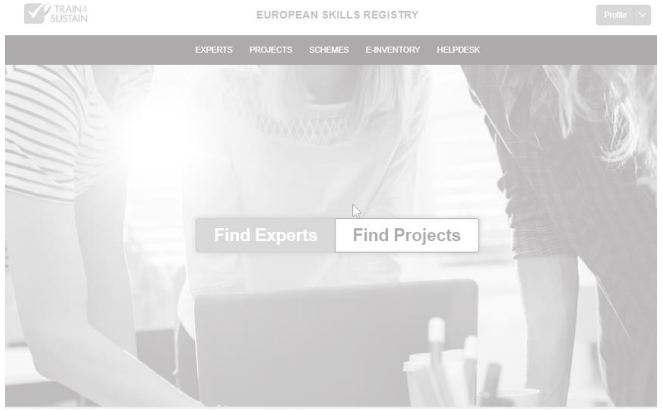

Announce the Requirements in the ESR Platform

Details of the Project and offer

Requirements

Areas of Expertise

Work field

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4. HOW THE PUBLIC ADMINISTRATION ANNOUNCES THE OFFER ON THE PLATFORM

Which Areas of Expertise Incasòl needs from the Architectural Team?

Areas of Expertise

Reminder

Dimension	→	Environment
Thematic field	→	E Energy
Macro-Area Expertise	→	ER Energy Reduction
Area of Expertise	→	ER1 Insulation
		ER2 Air tightness building
		ER3 Micro climates
		ER4 Envelope systems
		ER5 Hot water systems

- **Dimension** → **Environment**
- **Thematic Field** → **Energy**
- **Macro-Area of Expertise** → **Energy Reduction**
- **Area of Expertise** → **ER4 Insulation**

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4. HOW THE PUBLIC ADMINISTRATION ANNOUNCES THE OFFER ON THE PLATFORM

Which Areas of Expertise Incasòl needs from the Architectural Team?

- Energy rating obtained A
- 114 Photovoltaic Panels
- Aerothermal Head Pump

THEMATIC FIELD

- Energy
- Materials
- Water
- Innovative Digital Solutions
- Comfort and wellbeing

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4. HOW THE PUBLIC ADMINISTRATION ANNOUNCES THE OFFER ON THE PLATFORM

Which Areas of Expertise Incasòl needs from the Architectural Team?

THEMATIC FIELD

- Energy
- Materials
- Water
- Innovative Digital Solutions
- Comfort and wellbeing

Energy Production and HVAC Systems ← Macro-AoE

EN3.3	Hot water Systems	3
EN3.1	Heating and cooling Systems	3
EP5	Planning and design of heat pump installations	3
EN3.7	Solar power Systems for electricity generation	3

← AoE / LO

Energy Reduction

EN4.1	Thermal insulation	3
EN4.2	Building air tightness	2
ER4	Envelope systems	4

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4. HOW THE PUBLIC ADMINISTRATION ANNOUNCES THE OFFER ON THE PLATFORM

Energy		
Energy Production and HVAC systems		
EN3.3	Hot water Systems (DHW)	**3**
EN3.1	Heating and cooling Systems	**3**
EP5	Planning and design of heat pump installations	**3**
EN3.7	Solar power Systems for electricity generation	**3**
Energy Reduction		
EN4.1	Thermal insulation	**3**
EN4.2	Building air tightness	**2**
ER4	Envelope systems	**4**
Materials		
Sustainable materials		
MS6	Design for adaptability and renovation	**5**
MS2	Environmental impact of construction materials	**4**
MS5	Certified materials	**3**
Water		
Water efficiency		
WA1.2	Indoor water use management	**3**
Effluents management		
WA2.1	Rainwater collection and reuse Systems	**4**
WA2.2	Greywater collection and reuse Systems	**4**

Innovative Digital Solutions		
Building Information Modeling		
ID1.1	Operation of BIM systems	**5**
Comfort and well being		
Thermal comfort		
CO2.1	Indoor Thermal Comfort	**4**
CT2	Ambient Thermal Comfort conditions	**3**
Quality of air		
CQ2	Natural Ventilation	**4**
CQ3	Mechanical Ventilation	**4**
Visual comfort		
CO3.1	Daylighting	**4**
CO3.2	Interior lighting	**4**

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4. HOW THE PUBLIC ADMINISTRATION ANNOUNCES THE OFFER ON THE PLATFORM

Which Work fields Incasòl needs from the Architectural Team?

Work field	
Design	Architects
Energy Requirements	Building Energy Consultants/Assessors
Structural calculation	Structural Engineer

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4. HOW THE PUBLIC ADMINISTRATION ANNOUNCES THE OFFER ON THE PLATFORM

Which Work fields Incasòl needs from the Architectural Team?

EUROPEAN SKILLS REGISTRY

EXPERTS PROJECTS SCHEMES E-INVENTORY HELPDESK

CONSTRUCTION OF 38 DWELLINGS IN THE ALFONS COMIN SQUARE - ARCHITECTURE TEAM

July 19, 2019 - December 16, 2022

ENVIRONMENT	Energy		
	Energy Production and HVAC systems		
	EN3.3	Hot water systems (DHW)	3
	EN3.1	Heating and cooling systems	3
	EP5	Planning and design of heat pump installations	3
	EN3.7	Solar power systems for electricity generation	3
	Energy Reduction		
	EN4.1	Thermal insulation	3
	EN4.2	Building air tightness	2
	ER4	Envelope systems	4
	Materials		
	Sustainable materials		
	MS6	Design for adaptability and renovation	5
	MS2	Environmental impact of construction materials	4
	MS5	Certified materials	3
	Water		
	Water efficiency		
	WA1.2	Indoor water use management	3
	Effluents management		
	WA2.1	Rainwater collection and reuse systems	4
	WA2.2	Greywater collection and reuse systems	4
PROCESS	Innovative Digital Solutions		
	Building Information Modeling		
	ID1.1	Operation of BIM systems	5
SOCIETY	Comfort and well being		
	Thermal comfort		
	CO2.1	Indoor Thermal Comfort	4
	CT2	Ambient thermal comfort conditions	3
	Quality of air		
	CQ2	Natural ventilation	4
	CQ3	Mechanical ventilation	4
	Visual comfort		
	CO3.1	Daylighting	4
	CO3.2	Interior lighting	4

Professions:

Architects | Building Energy Consultants / Assessors | Structural Engineer

Areas of Expertise required with score

ENVIRON	Materials		
	Sustainable materials		
	MS6	Design for adaptability and renovation	5
	MS2	Environmental impact of construction materials	4
	MS5	Certified materials	3

Work fields required within the Team

Professions:

Architects | Building Energy Consultants / Assessors | Structural Engineer

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5. RECEPTION OF APPLICATIONS, COMPARISON AND ADJUDICATION

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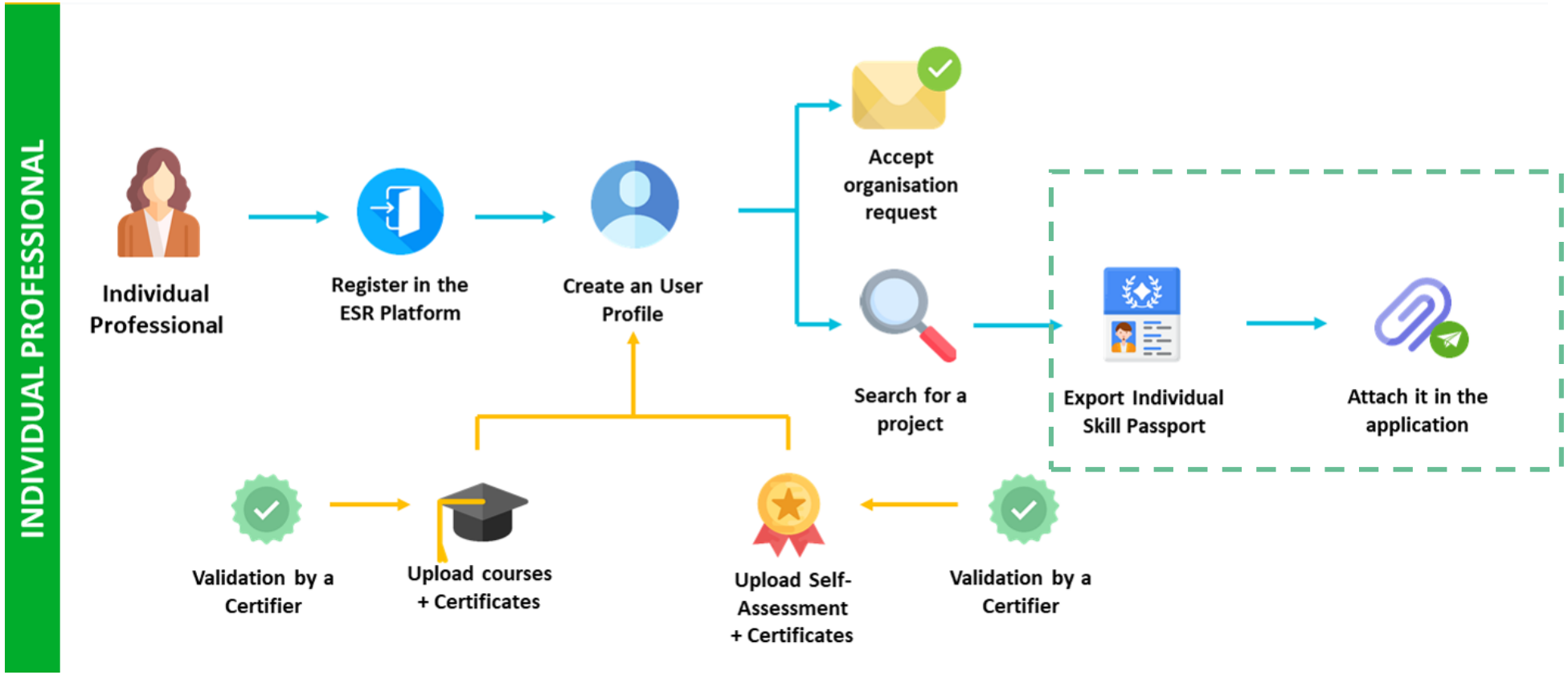
5. RECEPTION OF APPLICATIONS, COMPARISON AND ADJUDICATION



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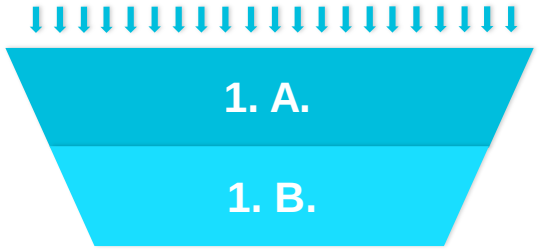

Phase	Maximum Score	PPMM Architects	A&A Arquitectes	TAAS Arquitectura
1.A. Solvency	Yes/No	Yes	Yes	Yes
1.B. Value Judgement	40 pts	34	32	32

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Phase	Maximum Score	PPMM Architects	A&A Arquitectes	TAAS Arquitectura
2.B. Automatic	25 pts	17	18	22
Total built area/Usable Area	10 pts	7	7	9
Architectural criteria for energy efficiency	7 pts	4	5	6
BIM	1 pts	1	1	1
Skill Passport	7 pts	5	5	6
TOTAL	95 pts	80	77	81

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TAAS Arquitectura

Work field	Degree	Master/Postgraduate/Course	Years of Experience
Architect 01	Architecture	Smart Cities Postgraduate	18 Years
Architect 02	Arch		
Energy Engineer	Energy Engineer	Master in Energy Efficiency in Lighting	9 Years
Structural Engineer	Civil Engineer	-	10 Years

Professions:

- Architects
- Building Energy Consultants / Assessors
- Structural Engineer

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5. RECEPTION OF APPLICATIONS, COMPARISON AND ADJUDICATION

Energy			
Energy Production and HVAC systems			
EN3.3	Hot water Systems (DHW)	3	3
EN3.1	Heating and cooling Systems	3	2
EP5	Planning and design of heat pump installations	3	3
EN3.7	Solar power Systems for electricity generation	3	4
Energy Reduction			
EN4.1	Thermal insulation	3	3
EN4.2	Building air tightness	2	1
ER4	Envelope systems	4	5
Materials			
Sustainable materials			
MS6	Design for adaptability and renovation	5	5
MS2	Environmental impact of construction materials	4	5
MS5	Certified materials	3	2
Water			
Water efficiency			
WA1.2	Indoor water use management	3	2
Effluents management			
WA2.1	Rainwater collection and reuse Systems	4	4
WA2.2	Greywater collection and reuse Systems	4	3

Innovative Digital Solutions

$$\frac{64}{72} \text{ X 7 points} = 6{,}22 \text{ points}$$

CO2.1	Indoor Thermal Comfort	4	3
CT2	Ambient Thermal Comfort conditions	3	3
Thermal comfort			
CQ2	Natural Ventilation	4	4
CQ3	Mechanical Ventilation	4	4
Visual comfort			
CO3.1	Daylighting	4	4
CO3.2	Interior lighting	4	3

TOTAL SCORE REQUIRED 72 pts / 7/7 pts

APLICANT SCORE 64 + 3 pts / 6/7 pts

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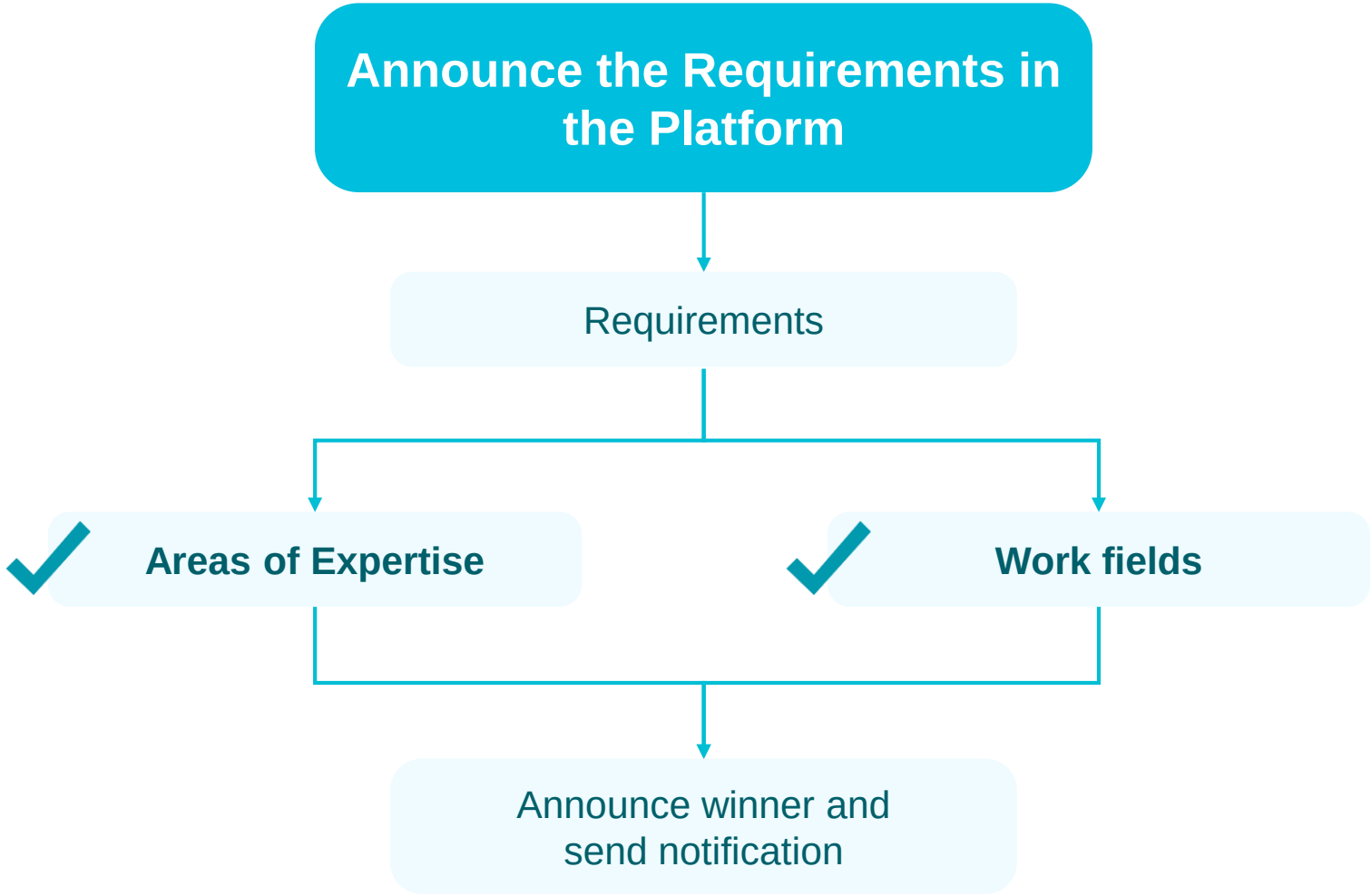
5. RECEPTION OF APPLICATIONS, COMPARISON AND ADJUDICATION



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5. RECEPTION OF APPLICATIONS, COMPARISON AND ADJUDICATION

1 **Presentation of the project**	Customer + Building
2 **GPP in Spain**	Contracts needed
3 **How to introduce the requirements in the GPP Process**	1 case: Architectural Team
4 **How the Public Administration announces the offer on the platform**	ESR Platform
5 **Reception of Applications, comparison and adjudication**	Influence of the Passport Score

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Thanks for listening!

https://train4sustain.eu/

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