

HORIZONTE **EUROPA**

Clúster 5: Clima, Energía y Movilidad Parte Energía



@CDTIoficial



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Clúster 5: Clima, Energía y Movilidad – Parte Energía

ADVERTENCIA

Información PROVISIONAL
Sujeta a cambios

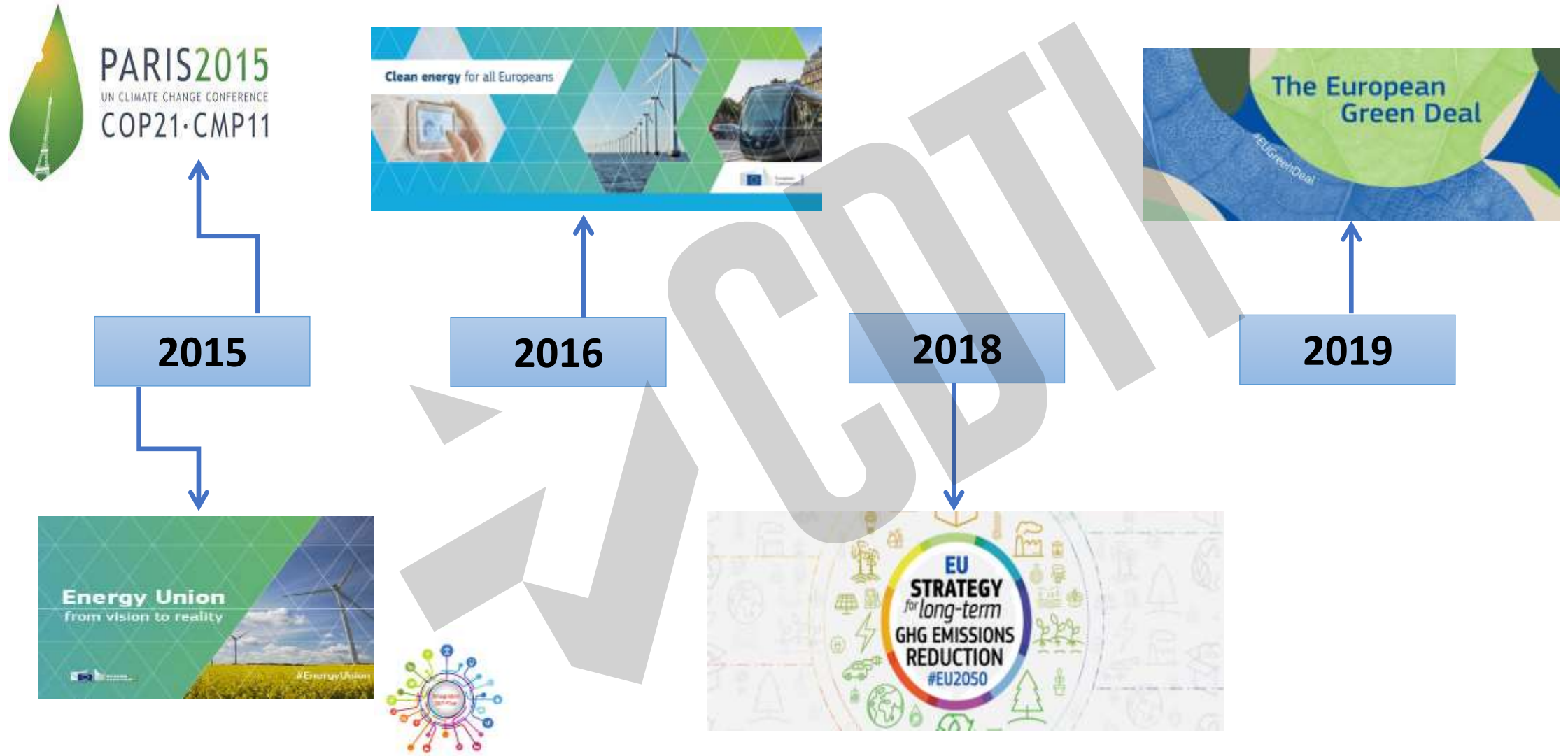
Índice de contenidos

- Contexto Clúster 5 – Parte ENERGÍA
- Transición de Horizonte 2020 a Horizonte Europa
- Estructura y Contenido 2021-2022
- Conclusiones

Horizonte Europa - Estructura



Contexto Político Europeo en Energía



Contexto Político Europeo en Energía- Pacto Verde



Estrategia de Integración del Sistema Energético

A more **efficient** and
“**circular**” system

Where waste energy is captured and re-used

A cleaner power system

With more direct electrification of end-use sectors such as industry, heating of buildings and transport

A cleaner fuel system

For hard-to-electrify sectors like heavy industry or transport

Estrategia de Hidrógeno

2024



2030



2050

- **6 GW** of **renewable hydrogen electrolyzers**
- Replace existing hydrogen production
- Production of **up to 1 million tonnes** of renewable H2

- **40 GW** of **renewable hydrogen electrolyzers**
- New application in **steel and transport**
- Production of **up to 10 million tonnes** of renewable H2

- **Scale-up to all hard-to-decarbonise sectors**
- **Deployment at large scale**

Estrategia ola de Renovación

Prioridades de la Estrategia de Renovación:



Tackling **energy poverty**
and **worst-performing**
buildings



Renovation of **public**
buildings such as schools,
hospitals and public
administrations



Decarbonisation of
heating and **cooling**

Estrategia Europea de Energías renovables Off-Shore

Principales elementos de la estrategia:



Inversiones

**Cooperación
Regional**

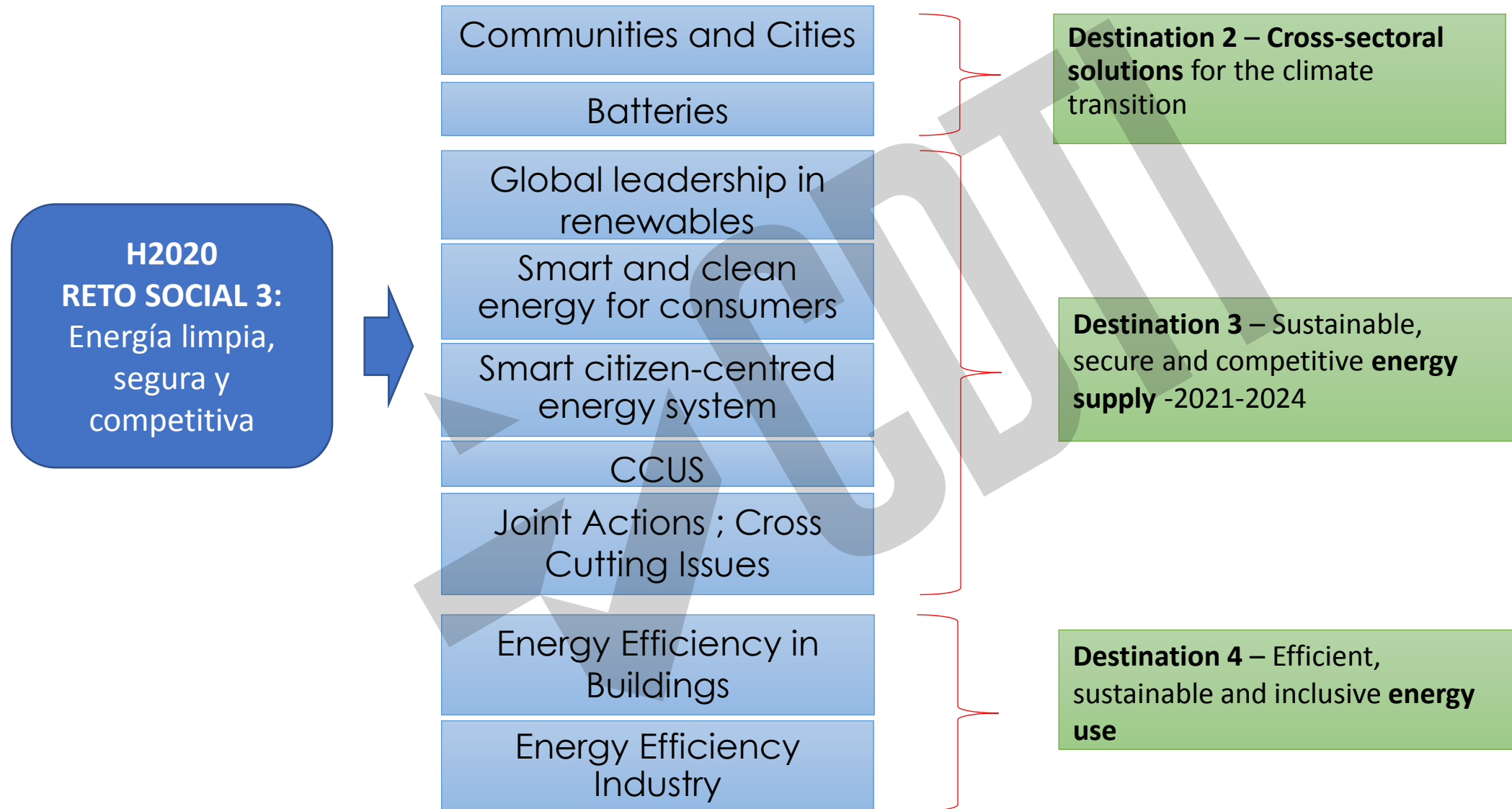


Seguridad jurídica

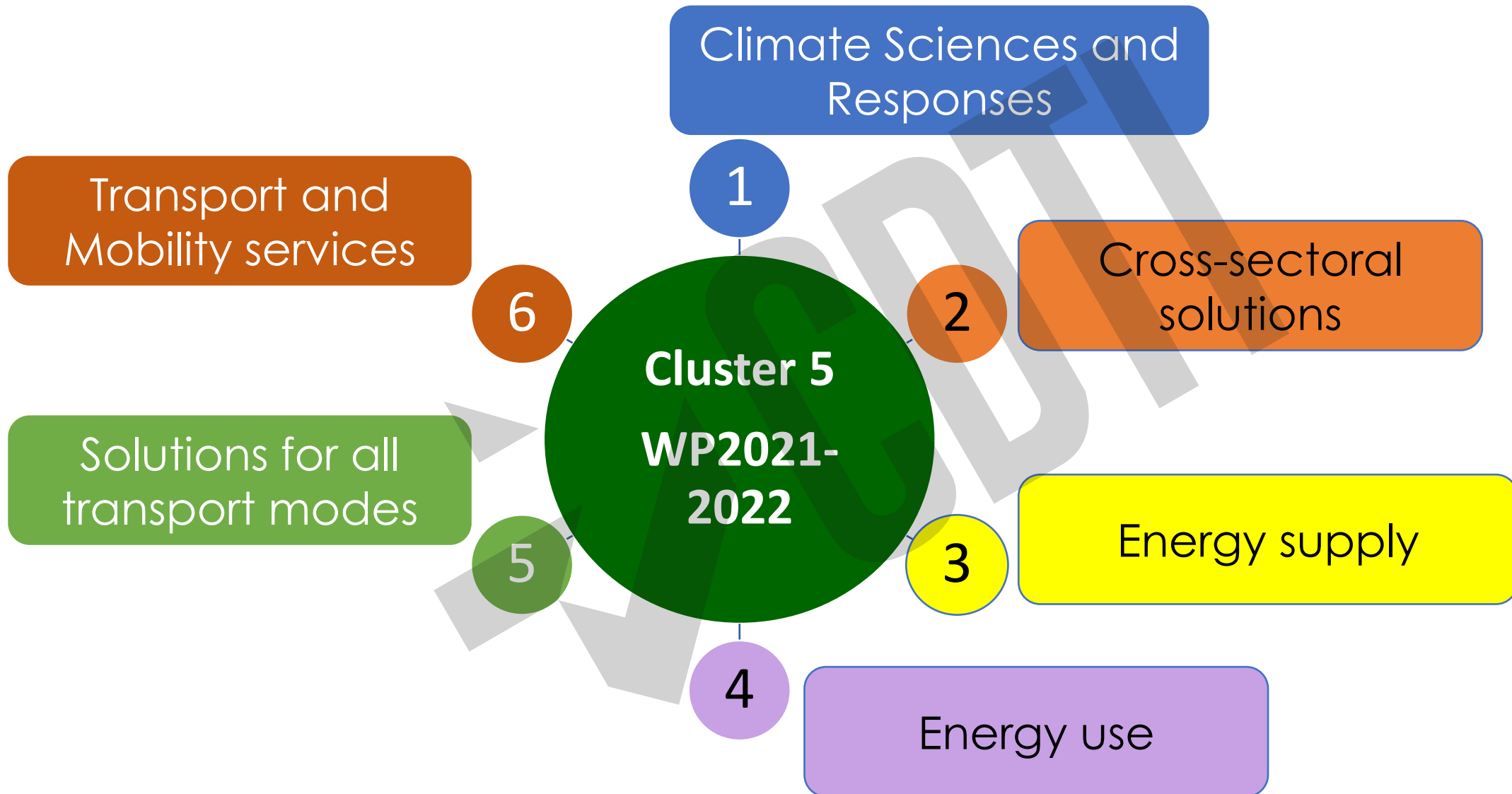


**Fortalecer cadena de valor e
Innovación**

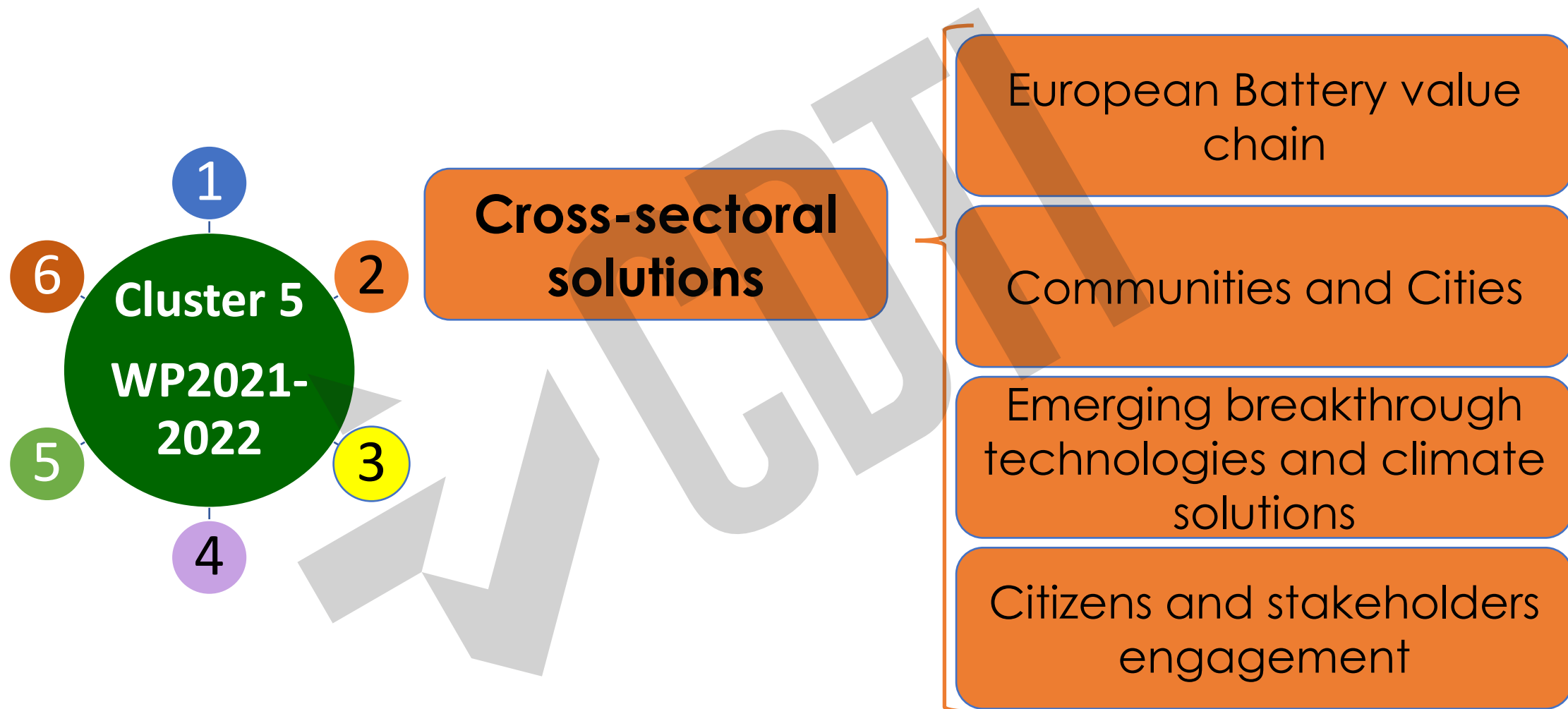
Transición Energía de Horizonte 2020 a Horizonte Europa



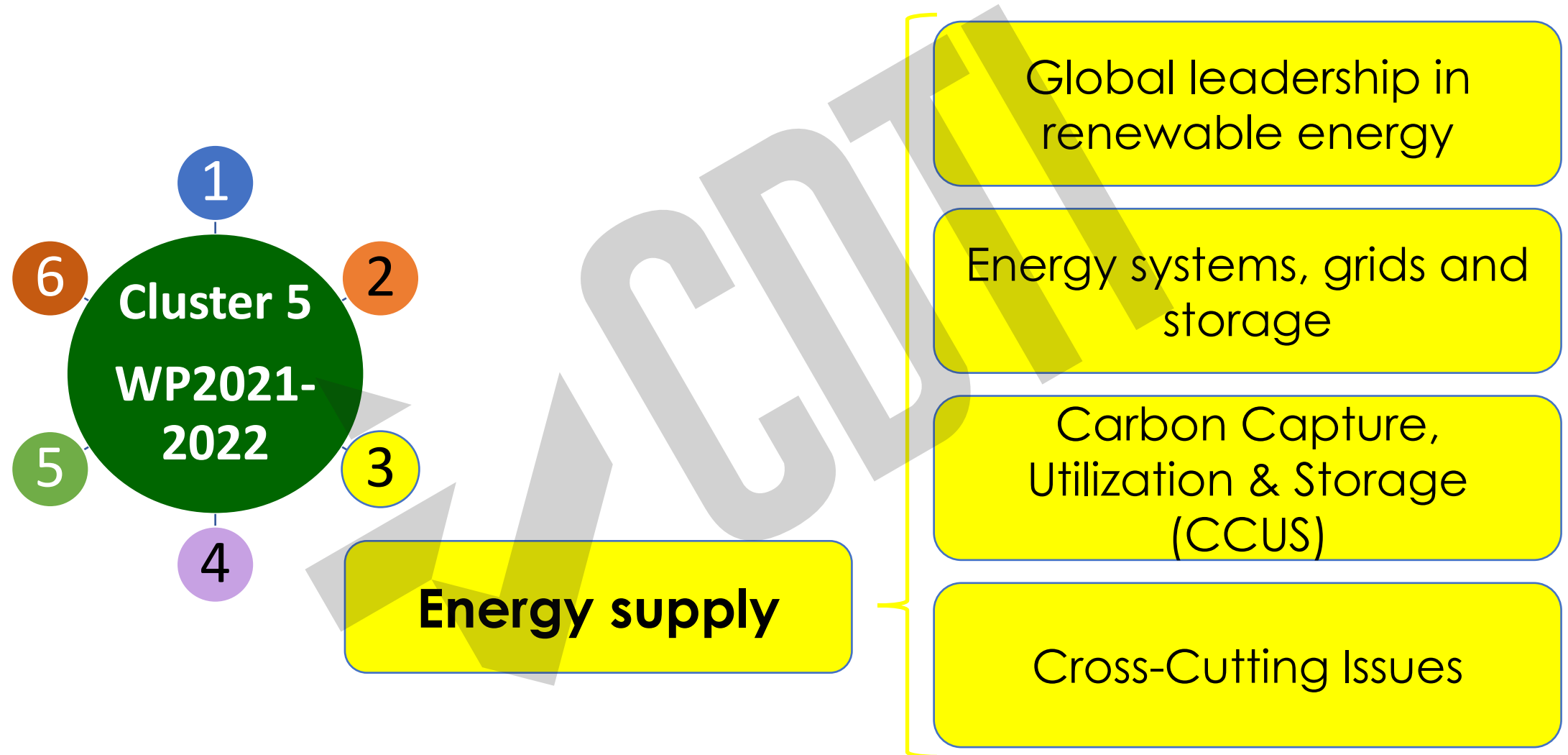
Clúster 5 – “Destinations”



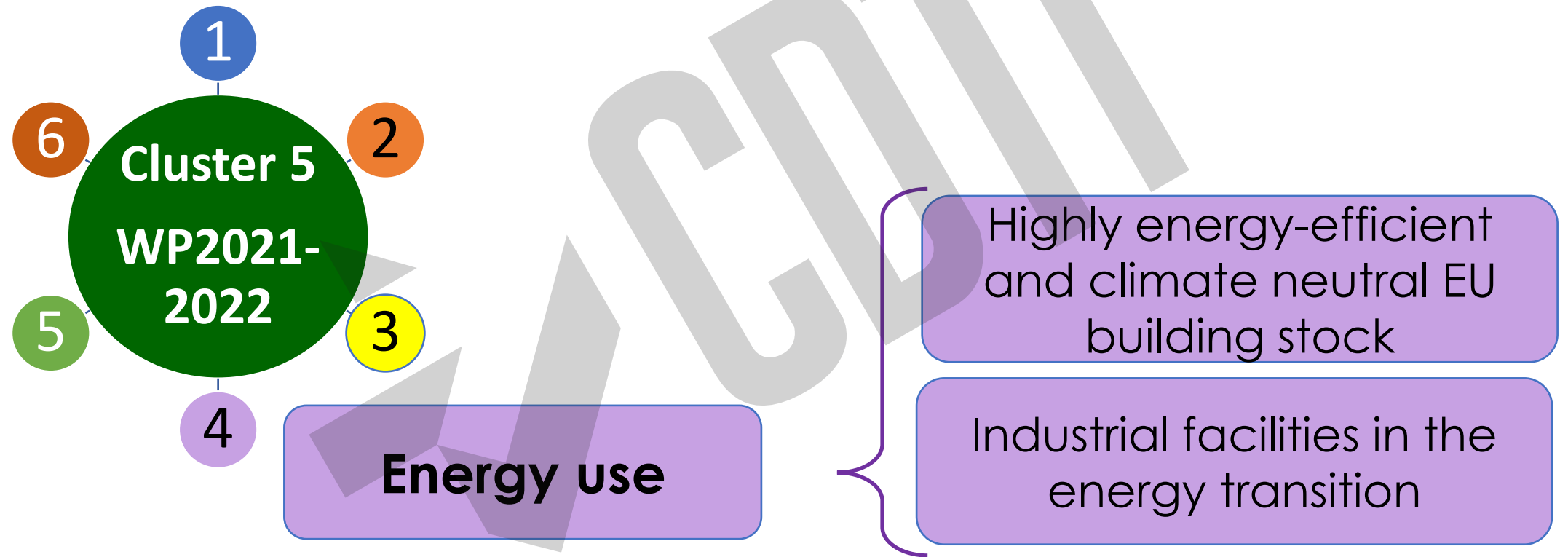
Destination 2: Cross-sectoral solutions for the climate transition



Destination 3: Sustainable, secure and competitive energy supply



Destination 4: Efficient, sustainable and inclusive energy use



Horizonte Europa - Partenariados de Energía

Partenariado Institucional

- **Clean Hydrogen Europe (CHE)**

Partenariados Coprogramados

- **Built4People** | People-centric sustainable built environment
- **Batteries** | For stationary applications and e-mobility

Partenariados Cofinanciados

- **Driving urban transitions** to a sustainable future (DUT)
- **Clean Energy Transition (CET)**

Partenariado “Clean Hydrogen for Europe”

PILLAR H2 PRODUCTION

SO1 Produce Clean H2

SO2 Integrate Renewables

PILLAR H2 PRODUCTION

SO3 Deliver clean H2 at
low cost

SO4 Develop H2
infrastructure

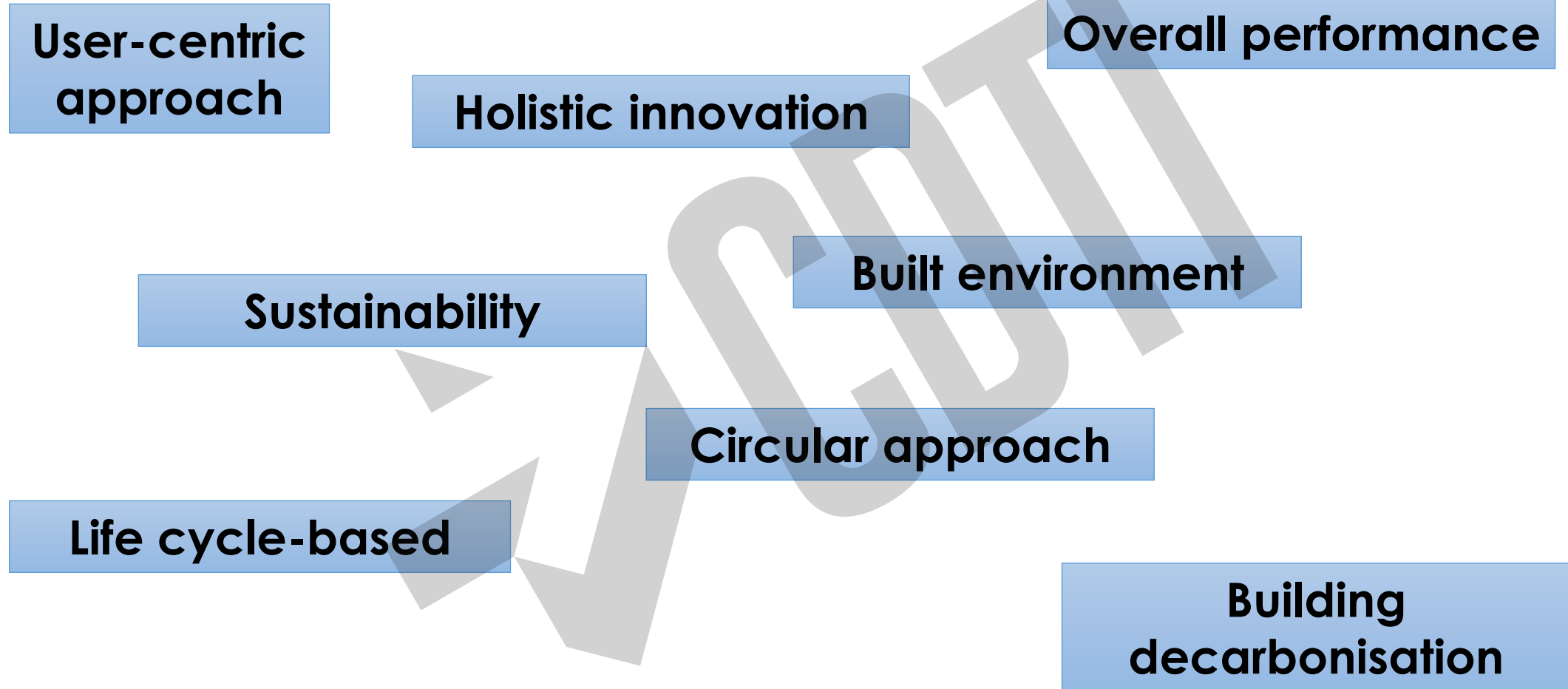
PILLAR H2 END USES

SO5 Competitive H2
vehicles

SO6 For Heat & Power

SO7 Decarbonise Industry

Partenariado “Built4people”



Partenariados Cofinanciados, Clúster 5

Driving urban transitions to a sustainable future (DUT)

Clean Energy Transition (CET)



Positive Energy Districts and Neighbourhoods
transforming the urban energy system



Downsizing District Doughnuts
an integrated approach for urban greening and circularity transitions



The 15 Minutes Cities
rethinking the urban mobility system and space

- **Enabling technologies** for the energy transition
- **System integration**
- **Cross-cutting dimension**



Misiones en HE

Healthy **OCEANS, SEAS, COASTAL** and **INLAND WATERS**

Adaptation to **CLIMATE CHANGE**, including **SOCIETAL TRANSFORMATION**

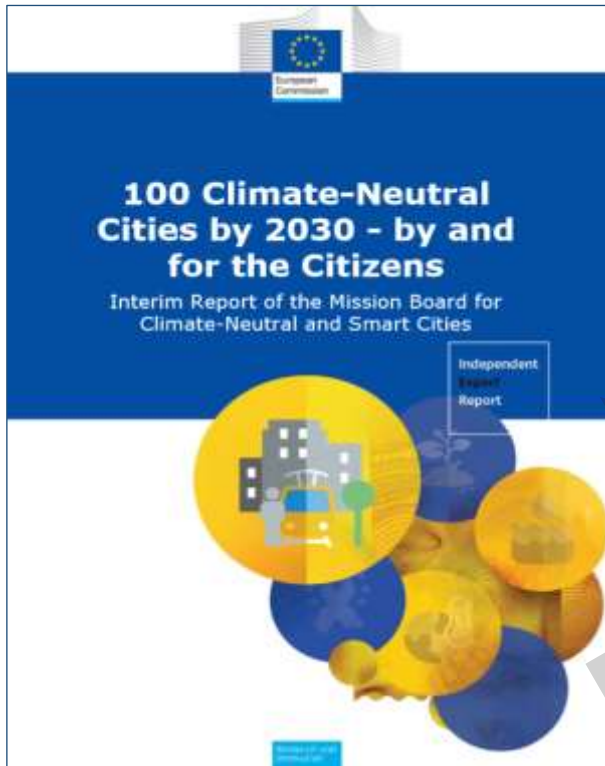
CANCER

SOIL Health and Food

Climate-neutral and smart **CITIES**



Misiones en HE - Ciudades



**Mission: 100 Climate-neutral cities
by 2030 by and for the citizens**

- ✓ **Climate City Contract**
- ✓ **Co-design and co-implementation with citizens,**
- ✓ **Help for cities to design an *investment strategy* and access to funding**
- ✓ **Systemic transformation**

Conclusiones

- Evolución, no revolución.
- Importante el contexto político energético – conocer bien las recientes estrategias de la Comisión.
- Alinear programas nacionales/regionales con programas europeos para avanzar en la neutralidad climática

Apoyo al participante

Clúster 5 – Energía



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