

C4R Carbon 4 Retail Refrigeration

Natural Technologies for Sustainable Retail



LIFE-C4R PROJECT

Climate change is one of the major global challenges, for widespread impacts on human and natural systems.

The European Union is at the forefront of global efforts to address this challenge and in particular for moving to a competitive low-carbon economy.

In the area of energy and climate change mitigation, **Epta FTE system** applied to commercial refrigeration **has been identified by the EU as worth of special attention** and consideration for its potential to both improve energy efficiency and cut greenhouse emissions.

The **Life-C4R project** is a 3-year international marketing project that will implement technical and marketing/dissemination activities related to FTE system.

1



1095

Days of project duration



15

Team members



6

Pilot and replication projects



3

Countries

GOALS



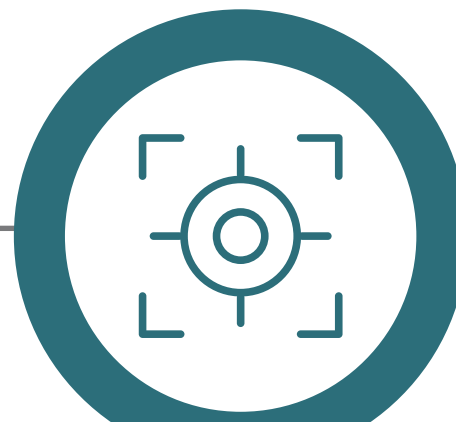
Project Objectives:

- ✓ To develop a technology that allows a **minimum of 10% energy savings** in commercial refrigerating plant in any country, with any external temperature
- ✓ To prove the possibility to **completely substitute HCFC and HFC with CO₂** in any climate or market condition



The 2018-2020 action plan is:

- ✓ **Industrial development** of Life-C4R technologies based on tests and results performed by Epta in the laboratory
- ✓ **Two pilot prototypes** installed and tested at end users' premises in Italy
- ✓ **Replication prototypes** (at least four in Romania, Spain, elsewhere) to validate performance under other climate conditions
- ✓ **Full Life Cycle Analysis** according to the standards of LCCP to evaluate the project's carbon footprint and environmental performances
- ✓ **Dissemination activity** to specific international organisations (stakeholders, academia, policy makers and general public)



Dissemination



FTE

C4R

Pilot prototypes

Natural refrigerants

CO₂

LCA Analysis

2

PARTNERS



Epta

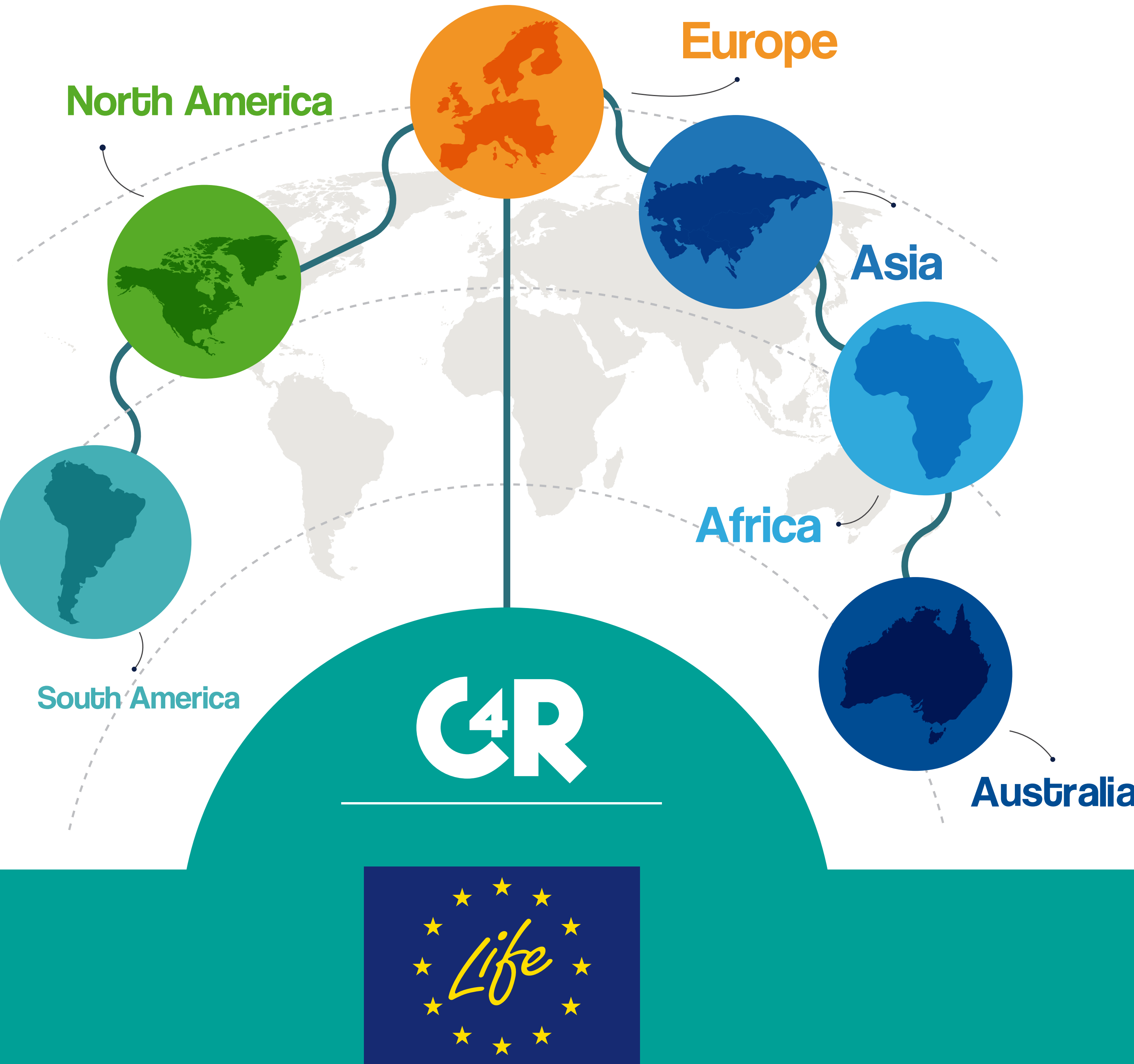
Epta S.p.A
Epta Iberia S.A.U.



DAAS
International Group

DAAS

3



For more information visit: www.carbon4retail.eu

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