

ATMOsphere Europe 2013

Natural Refrigerant trends and EU F Gas Regulation



Bangkok, 24 October 2013

Marc Chasserot, Managing Director

shecco

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- ⦿ **EU F Gas**
- ⦿ **market trends**
- ⦿ **end user experience**
- ⦿ **market innovations**

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Interactive workshops bringing together decision makers from industry and government to change the future of natural refrigerants.

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date
15 - 16 October 2013

location
Crowne Plaza Le Palace Hotel, Brussels [view on map](#)

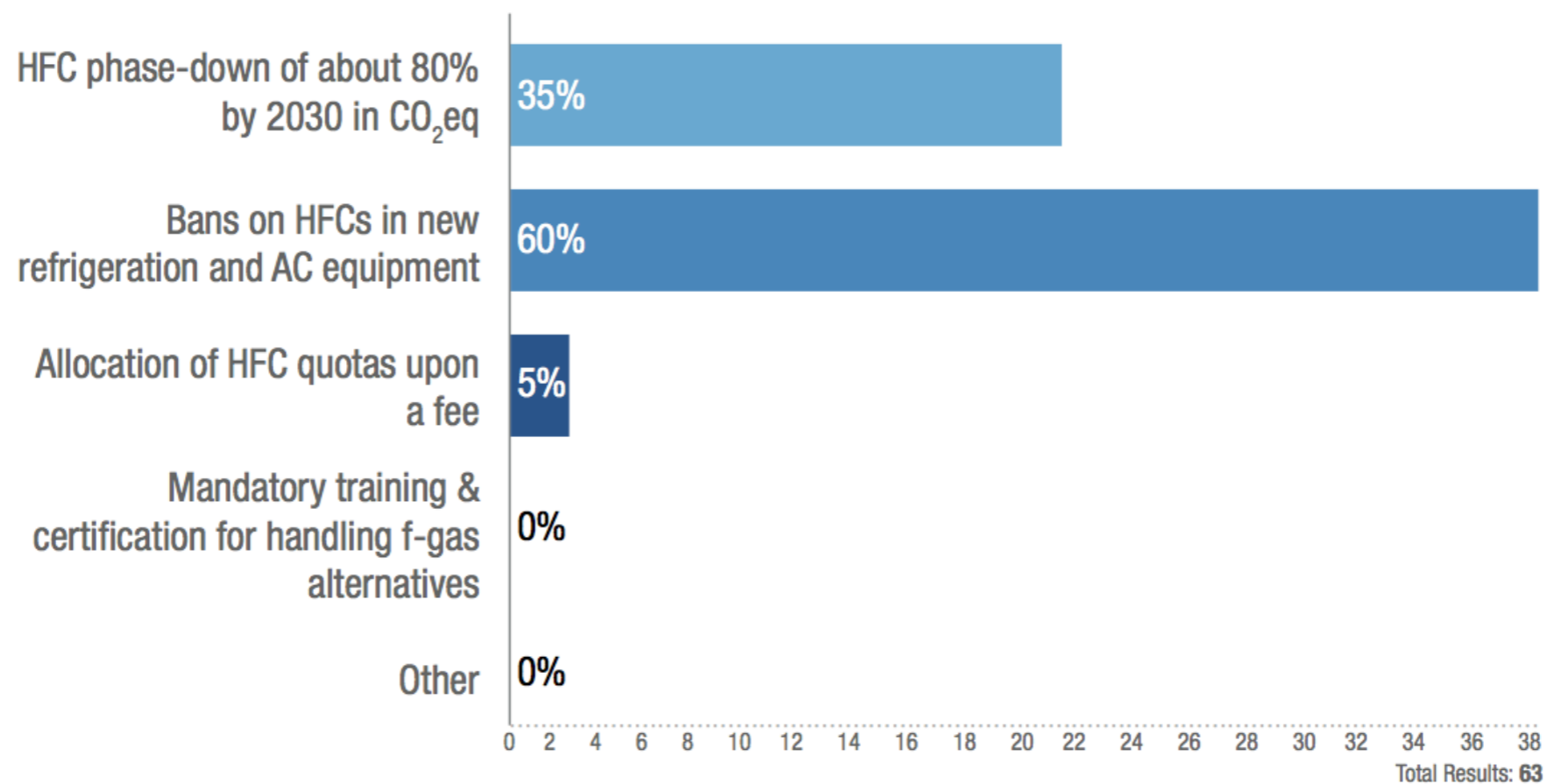
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15 - 16 October 2013

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EU F gas

Which type of measure considered in the F-Gas review do you regard to be of key importance in driving the uptake of natural refrigerant technology



Natural refrigerant commercial availability, 2013-2025

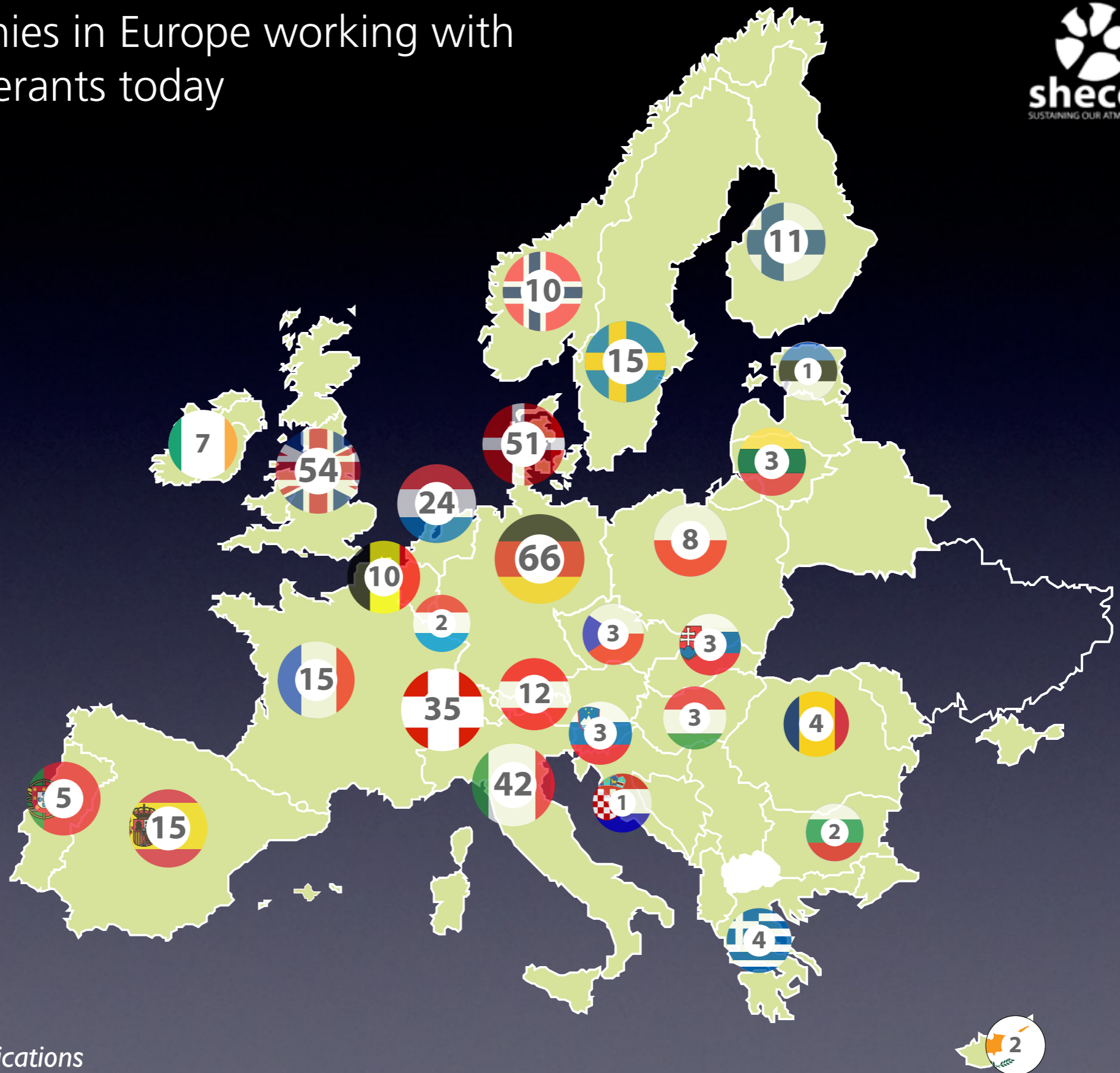


commercially available in all EU
 semi-commercially available
 not commercially available yet

REFRIGERATION	TODAY	2015-2020	2020-2025	2025
Domestic refrigeration				
Stand-alone units				
Condensing units				
Centralised systems				
Small industrial refrigeration				
Large industrial refrigeration				
Road transport refrigeration				

AIR-CONDITIONING	TODAY	2015-2020	2020-2025	2025
Movable room AC				
Split AC				
Multisplit/ VRF AC				
Rooftop AC				
Displacement chillers				
Centrifugal chillers				
Heat pump water heaters				
Heat pumps for space and water heating				
AC in cargo ships				

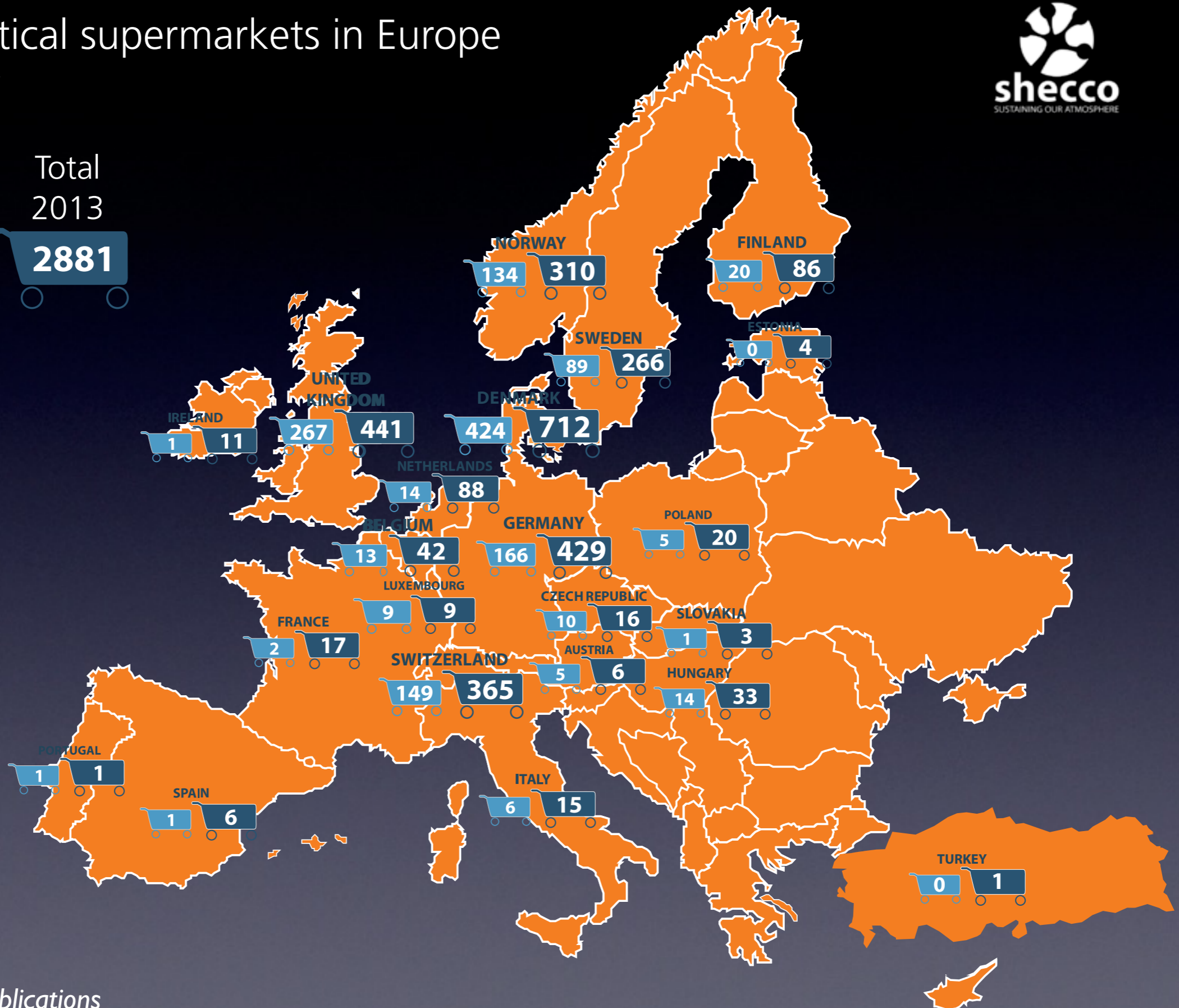
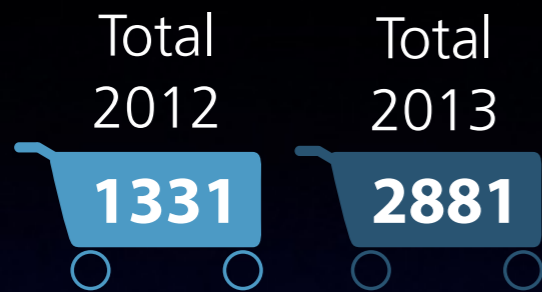
400+ companies in Europe working with natural refrigerants today



Source: shecco publications

CO₂ transcritical supermarkets in Europe

data by country



Source: shecco publications

CO₂ cascade supermarkets in Europe

data by country



Total
CO₂/HFC

1568

Total
CO₂/NH₃

16



Source: shecco publications

