



SUPERSMART

EXPERTISE HUB FOR ENERGY-EFFICIENT
COOLING & HEATING IN EUROPEAN
SUPERMARKETS

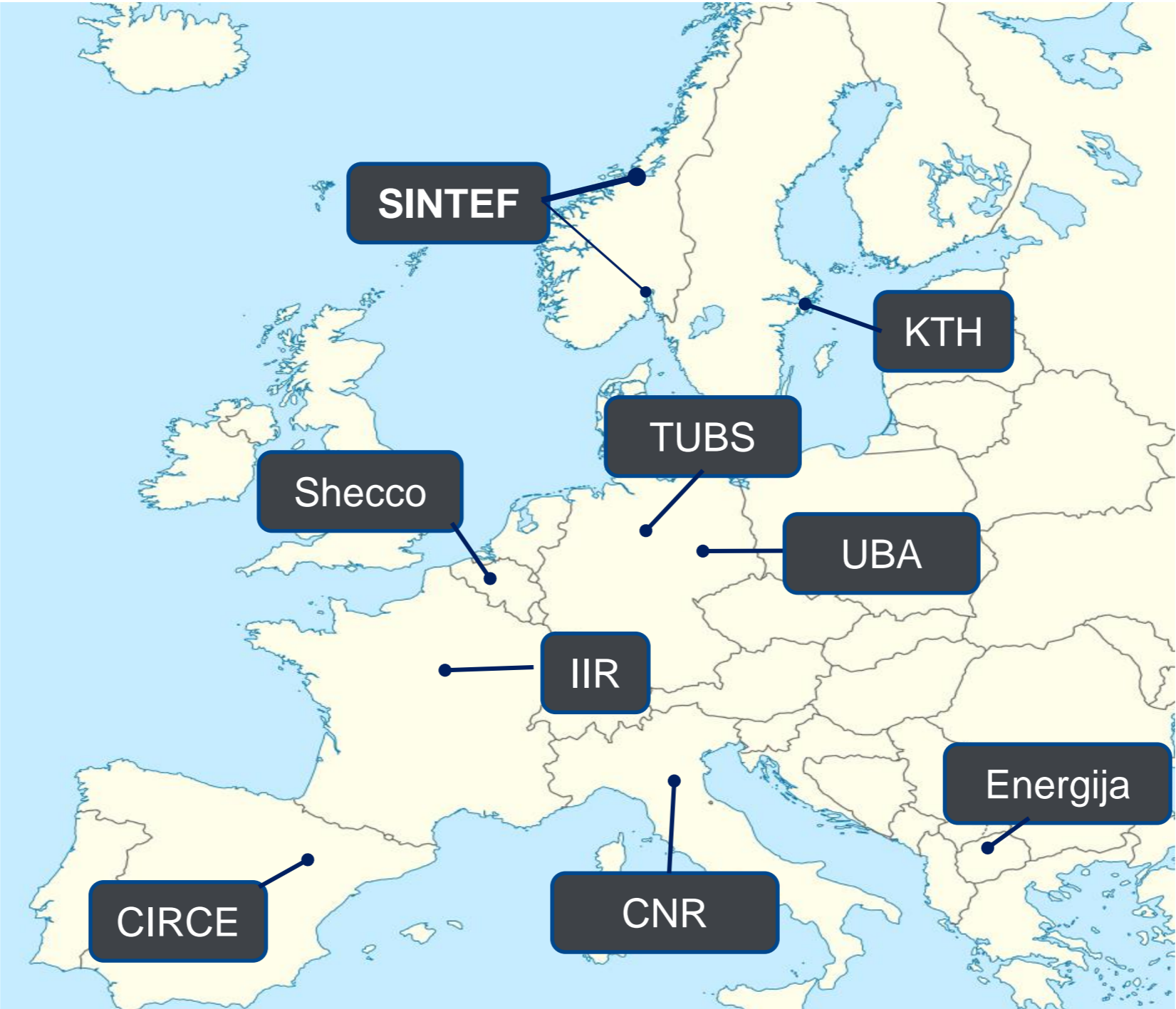
DR INA COLOMBO
INTERNATIONAL INSTITUTE OF REFRIGERATION (IIR)



SuperSmart is a EU funded Horizon 2020 Project

- Duration: 36 month,
- Start: 1st of February 2016
- Project Partners:
 - SINTEF (coordinator)
 - Shecco
 - CNR
 - Umweltbundesamt (Uba)
 - KTH
 - TUBS
 - CIRCE
 - Energija doo
 - IIR





BACKGROUND

- Supermarkets require much energy - up to **4% of all electricity** used in Europe.
- Supermarkets cause about **1% of the global warming** caused in Europe.

Less energy demand → less global warming

- Higher energy efficiency and environmentally friendly solutions could reduce these problems.
- More and more people know this and take actions, but: To make this **happen even faster**, the stakeholders/supermarket owners must get the support they need to do so, and this support should be good!



GOALS OF SUPERSMART 1

Make supermarkets start using efficient heating- and cooling solutions QUICKLY so that less harm is done to the environment

- **Less harm to the environment** – cleaner water, nature, food for next generations
- **Lower energy demand** (meaning **lower electricity bills**)
- Make a new **European Ecolabel for Supermarkets**
- **Make training material** and **spread the supermarket expertise** through educating relevant staff (management, shop owners, consultants, design engineers, construction engineers, service men etc.)
- **Influence on the future regulations** through making **standards** and **certificate criteria**. This should be done by the SuperSmart team, suppliers, end users and governmental bodies



MAIN GOALS OF SUPERSMART 2



WP1: REMOVING NON-TECHNOLOGICAL MARKET BARRIERS

1. Find and remove barriers to SuperSmart supermarkets
2. Making information, training material and training sessions about efficient heating and cooling solutions
3. Make supermarkets able to achieve the future label

WP2: DEVELOPMENT OF EU ECOLABEL

1. Make a proposal for an EU Ecolabel for supermarkets
2. Make 2 reports to back up the proposal
3. Suggest how the label could be developed together with project partners

WP 3: COMMUNICATION, PROMOTION & DISSEMINATION

1. Ensure good communication with everyone involved, including non-project partners
2. Spread information about SuperSmart
3. Tell the public about the project results



MAIN GOALS OF SUPERSMART 2

WP1: REMOVING NON-TECHNOLOGICAL MARKET BARRIERS

1. Find and remove barriers to SuperSmart supermarkets
2. Making information, training material and training sessions about efficient heating and cooling solutions
3. Make supermarkets able to achieve the future label

- 2016 online survey on Removing Non-technological Market Barriers:
 - Suggested actions to remove the knowledge barriers across Europe
 - Suggested people to be trained to successfully remove the knowledge barriers
- Reports and training materials
- Presentations of Workshops
- Dedicated trainings

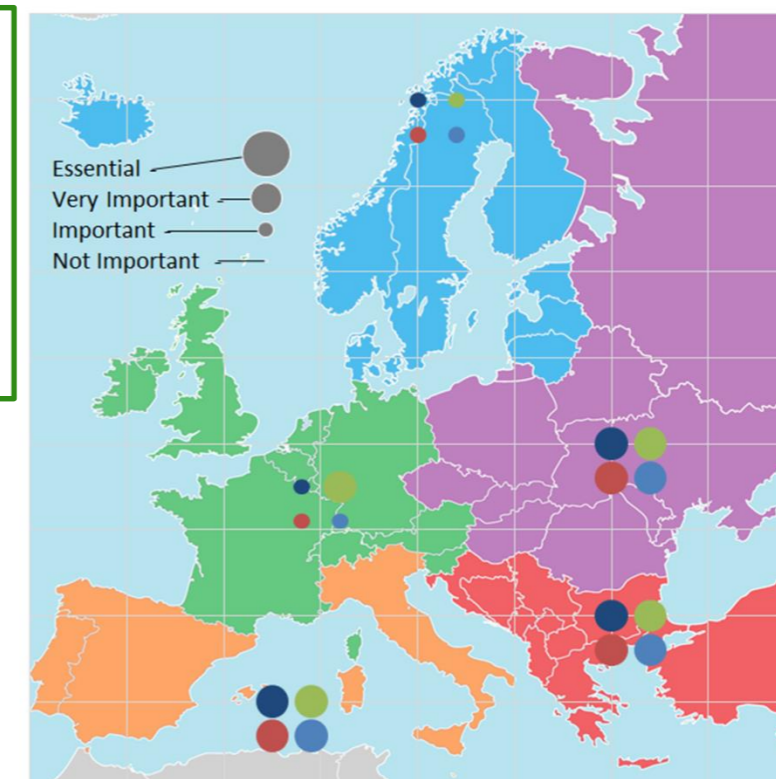
Check the Website, sections:

- How to Get Involved
- Downloads

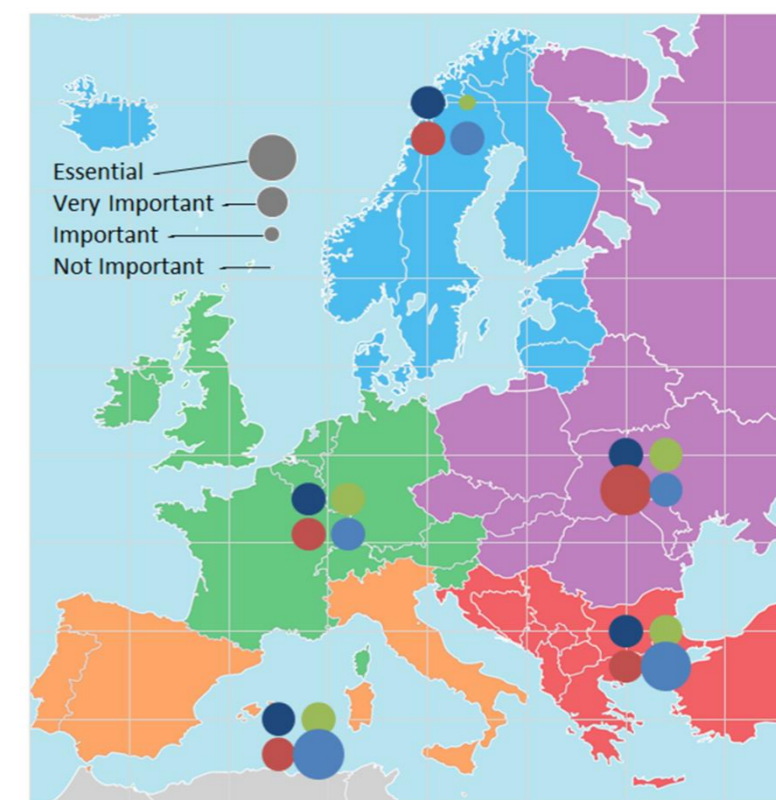
Reports & Training Material

Click directly on the report cover to download the file:

 <p>Report 1 - Mapping and segmen...</p>	 <p>Report 2 - Eco-friendly superma...</p>	 <p>Report 3 - How to build a new e...</p>
 <p>Report 4 - How to refurbish a su...</p>	 <p>Report 5 - Computational tools f...</p>	 <p>Report 6 - Eco-friendly operatio...</p>



- Make training programs available
- Provide experienced trainers
- Provide free/low-price educational material
- Make educational material available for different technical knowledge levels



- Food retail chain and shop owners
- System manufacturers and components suppliers HVAC&R
- Consulting, contracting and engineering staff
- Servicing, repairing and maintenance staff

MAIN GOALS OF SUPERSMART 2



WP2: DEVELOPMENT OF EU ECOLABEL

1. Make a proposal for an EU Ecolabel for supermarkets
2. Make 2 reports to back up the proposal
3. Suggest how the label could be developed together with project partners

- 2016 online survey on Criteria for EU Ecolabel for Food Retail Stores
- Reports and training materials
 - Report 7: EU Ecolabel for retail stores
- EU Ecolabel Criteria for Food Retail Stores - Preliminary Report (under-development)
 - SuperSmart Tool under-development to model and simulate the entire supermarket
- If interested, join the Labelling Board from the website section Get involved

Labelling Board

Join the Labelling Board defining the criteria for the new European Ecolabel for Food Retail Stores in Europe. Members of the expert panels will have a direct say on criteria development, participate in the Labelling Board Assemblies, take short online surveys and discuss in online/physical work meetings, as well as provide feedback to requests/proposals developed by the project team. Everybody with relevant expertise is welcome to apply for membership in one of the three expert panels. The final selection will be made by the SuperSmart team, to achieve a relevant and balanced representation of experts.

There are three panels, depending on your expertise:

Innovation Panel



This Expert Panel welcomes input from the research community (universities, research institutes), contractors and engineering companies, as well as other non-manufacturing groups like NGOs involved in sustainability issues for food retail stores.

End-User Panel



Individual food retailers, operators of supermarket chains and building owners are welcome to join this Expert Panel.

Manufacturer Panel



Manufacturers of systems and components for HVAC&R solutions in food retail stores, as well as maintenance & service providers for such systems are welcome to join this Expert Panel.

[I WANT TO JOIN THE LABELLING BOARD](#)



EXPECTED EFFECTS

- Barriers to use efficient heating and cooling solutions are removed.
- Material to make an EU ecolabel for Supermarkets is finished.
- A way to calculate costs for energy efficient heating and cooling solutions is ready.
- **75 dedicated training** activities will have trained about **2000 people**.
- 30% energy saved, for both new and retrofitted supermarkets
- Total primary energy savings - nearly **500 GWh**
(or **500 000 000 kWh**)



WEBSITE

<http://www.supersmart-supermarket.info>

