

RUGGEDISED

Recharge Earth Conference

07 September, 2022

PARMA TOWARDS A SMART AND PARTICIPATED DECARBONISATION

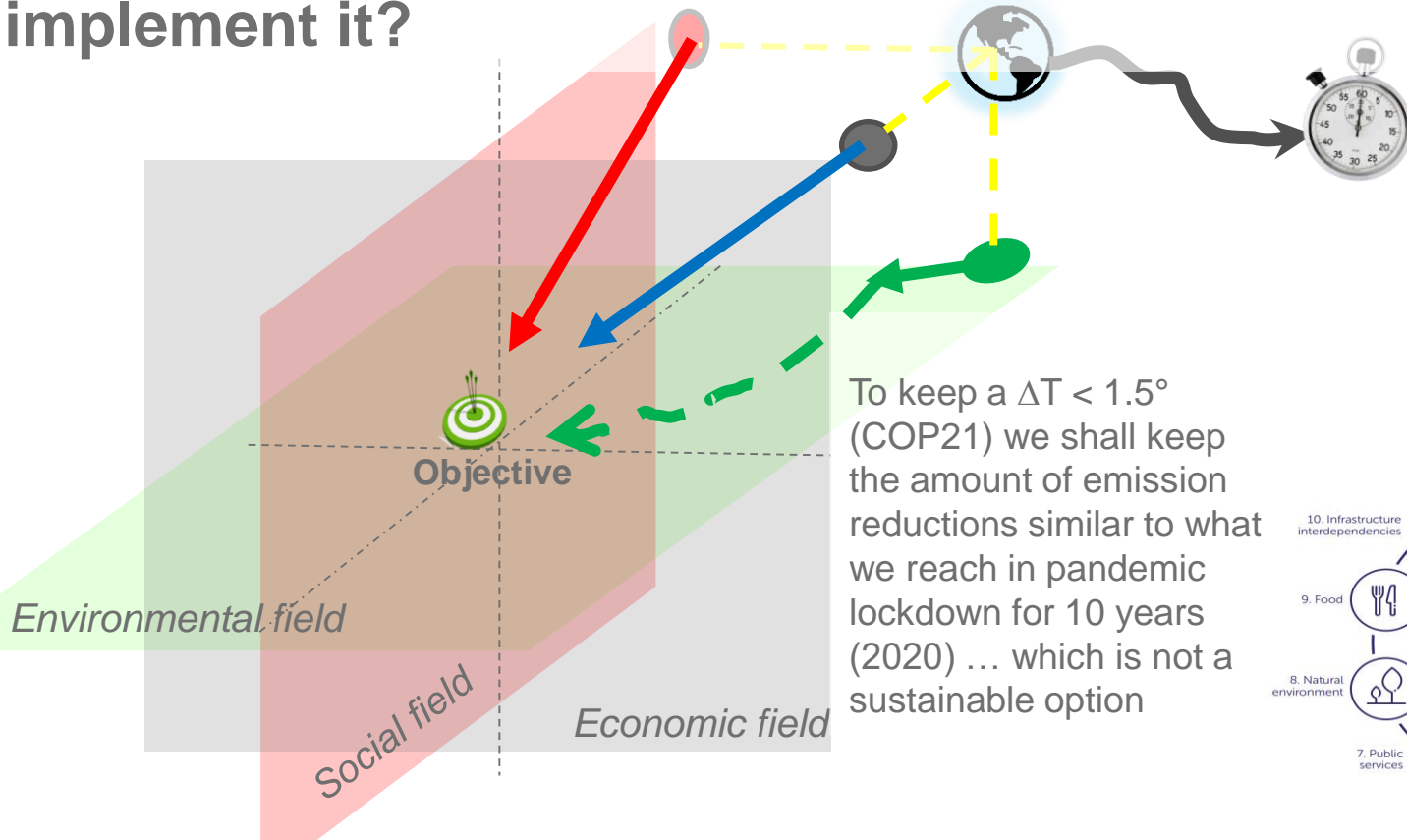


Enzo Bertolotti, Energy Manager at Parma City Council



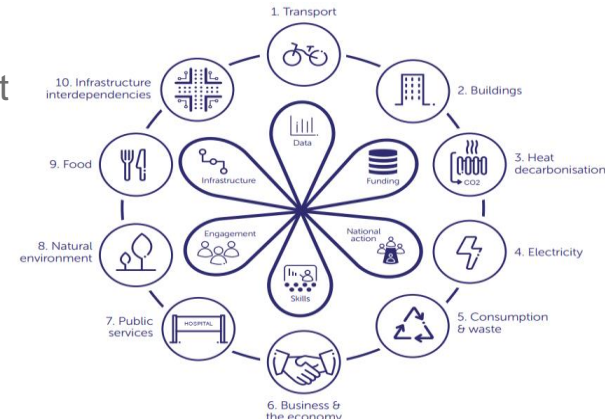
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731198.

Climate Neutrality requires an holistic approach, How to implement it?



To keep a $\Delta T < 1.5^\circ$ (COP21) we shall keep the amount of emission reductions similar to what we reach in pandemic lockdown for 10 years (2020) ... which is not a sustainable option

Is a long road to 2030.. Acting just on a **single field** may produce results that do not meet the expectations.





Stakeholder engagement for a collective action at city level is a prerequisite for an effective, sustainable and smart city;

This is the premise for the creation of Parma's innovation hub, Parma Futuro Smart and the Carbon Neutrality Alliance of the Province of Parma



PARIS 1.5°



Bike sharing/smart public light control
EV charging stations/data based decision platform/smart counters



-46% of emission reductions by 2030



Carbon Neutrality Alliance of the Province of Parma



100 Climate Neutral Cities

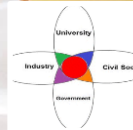


Parma Futuro Smart



City management group

- Core management group: 1 department (3 people)
- 3 Deputy Mayors
- 5 other departments involved



Stakeholders

- Quadruple helix
- 6 Academia
- 8 Public Authorities (incl. Public companies)
- 28 Industries, SMEs and start up
- 10 NGOs and Associations



Pilot projects

- POC with smart city sensors
- Drones to detect environmental pollution
- Sensors to track bike sharing routes



15th December 2020
The birth of
The Carbon Neutrality Alliance of the Province of Parma

- Phase 1:** Create a carbon map for the Province of Parma;
- Phase 2:** Exchange of best practices and replication plan;
- Phase 3:** Integrated action plan – from plan to implementation;
- Phase 4:** Monitoring carbon reductions.

Members:

- Parma Municipality
- Province of Parma
- Emilia-Romagna Region
- National Research Center
- ARPAE, regional environmental agency
- Parma University
- Union of Parma's industries
- Parma, io ci sto!*
- Kilometroverde Parma, forestry consortium
- Parcs and biodiversity management authority



State of the Art

Organizing local and regional stakeholder alignment processes in urban decarbonization ecosystems with the Carbon Neutrality Territorial Alliance – integration of individual projects into a integrated plan

Pilot Phase
Emissions reduction of single SECAP Actions
Linear relation: more projects= more CO2 reductions

Individual actions of each member of the Alliance are systemized in an integrated plan

emissions reduction keep increasing thanks to a joint effort of all the players in the system.

Families, schools, condominiums bring added value to the system by changing consumers' behaviour





Conclusions

1. Parma is aware that the route to Paris must be based on a coordinated action between environmental, social and economic initiatives
2. The direct participation of all the stakeholders living and operating in the “province” is key to pursue ambitious targets
3. In order to transform a collection of actions into an integrated plan we must learn how to manage the complexity of the system and to create synergies and engagement
4. **Parma is already on the right track, it is time to be ambitious**



Thank you!

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