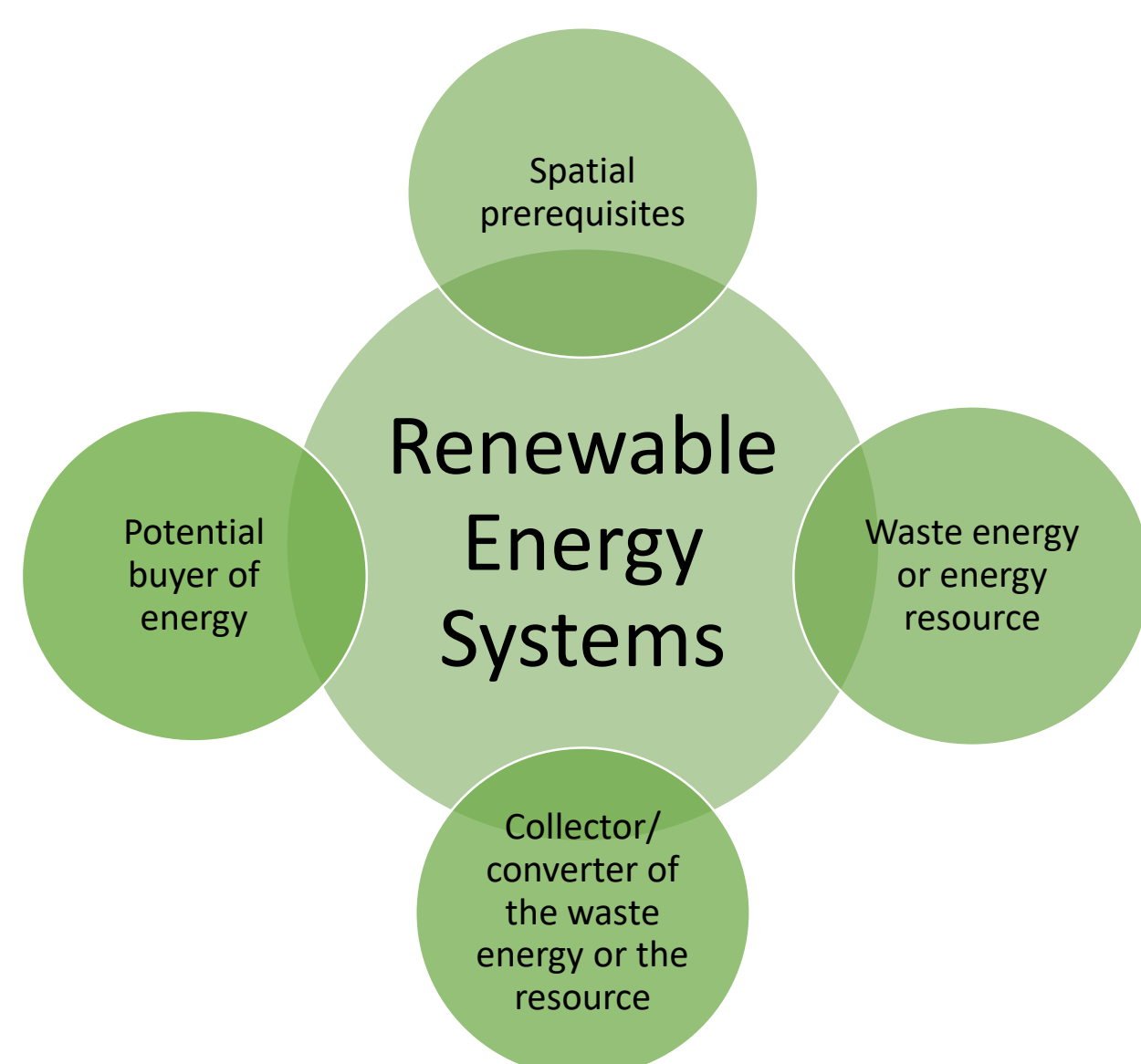


District heating case

The focus of the pilot case is how a manufacturing industry with significant surplus energy could utilize the energy by distributing it to the district heating system.

A study indicates that the manufacturing industry, in Ronneby (SE) has significant amounts of surplus energy currently cooled off from the roof. Up to 90% of the electricity used for the ovens is lost, and so far it has not been possible to connect the waterborne waste heat to the district heating (DH) network.

The goal is to find solutions to be able to use the waste heat in the DH network. Several meetings and contacts have been made.



Main results

- A study shows a significant potential for developing the energy system in a sustainable direction by linking the action to the spatial structure. Studies also show possibilities to facilitate district heating expansion through a collaboration between district heating companies and the municipality's spatial planning.

- In the pilot case, we have tried to find possible solutions to recover heat without having to buy additional electricity

- This solution is only possible if you can get higher temperatures in the ovens used by the industry.

- Result of the survey in the existing system:

- Heat recovery could be carried out by connecting one or more electric heat pumps. The disadvantage of this is the electricity dependence and lower efficiency, since approximately 3 GWh/year must be purchased to get out 8 GWh/year from the waste heat.

- Finding a solution for recycling without purchased electricity requires further in-depth investigation work

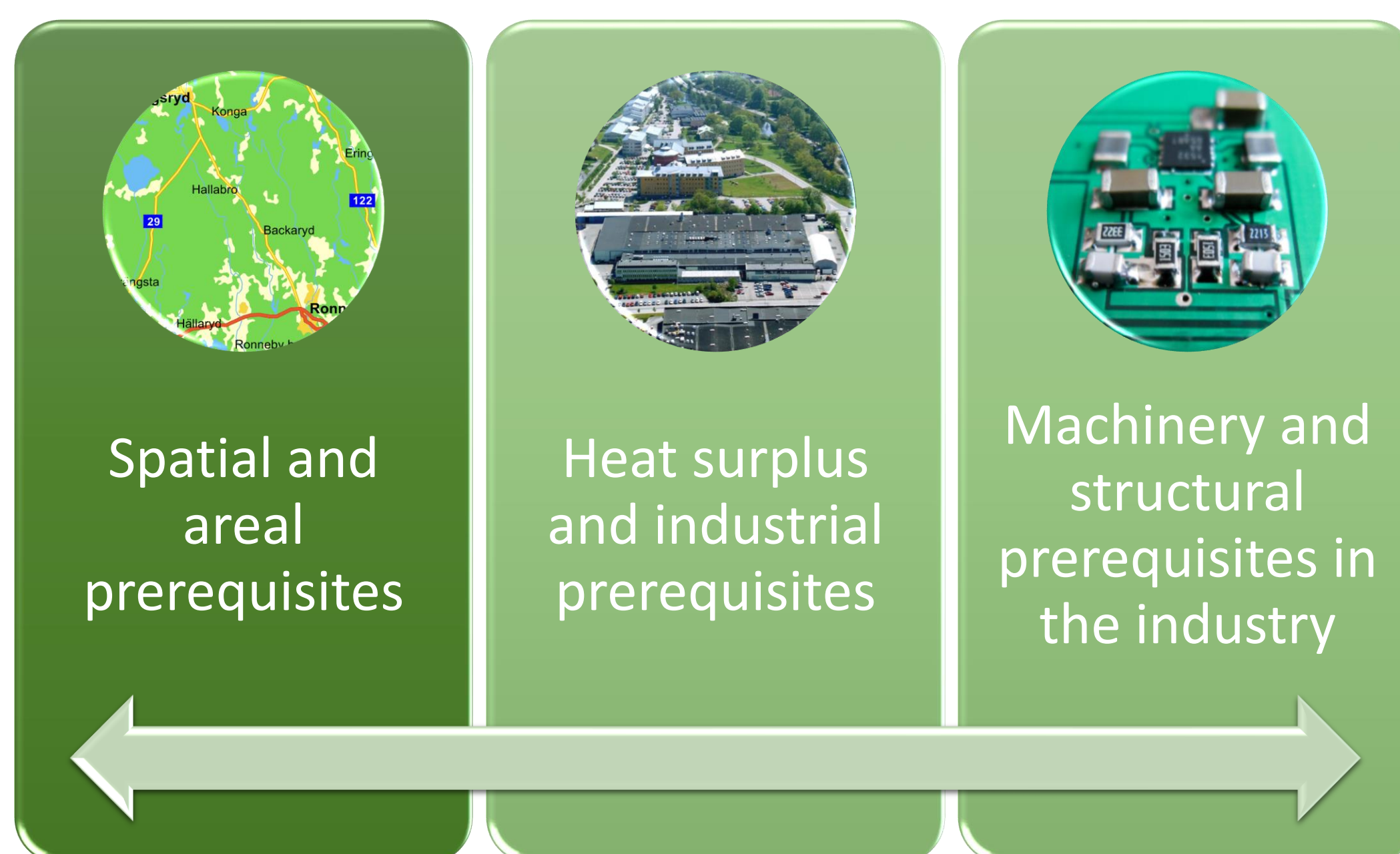
Main aspects and lessons learned

- It is important to involve stakeholders early in the project development phase and clearly present their role in the project. Also keep a continuous dialogue with stakeholders waiting for the project to be approved.

- In organisations and also municipalities, there exists different ways of working and with which department. These structures can affect how the work progress goes.

- Political decisions on national and regional level can really affect the results.

- Would have been good to have a plan to be able to handle heavy workload among stakeholders.



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