

Take care of your Network



European
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Take care of your Network



Öresundskraft

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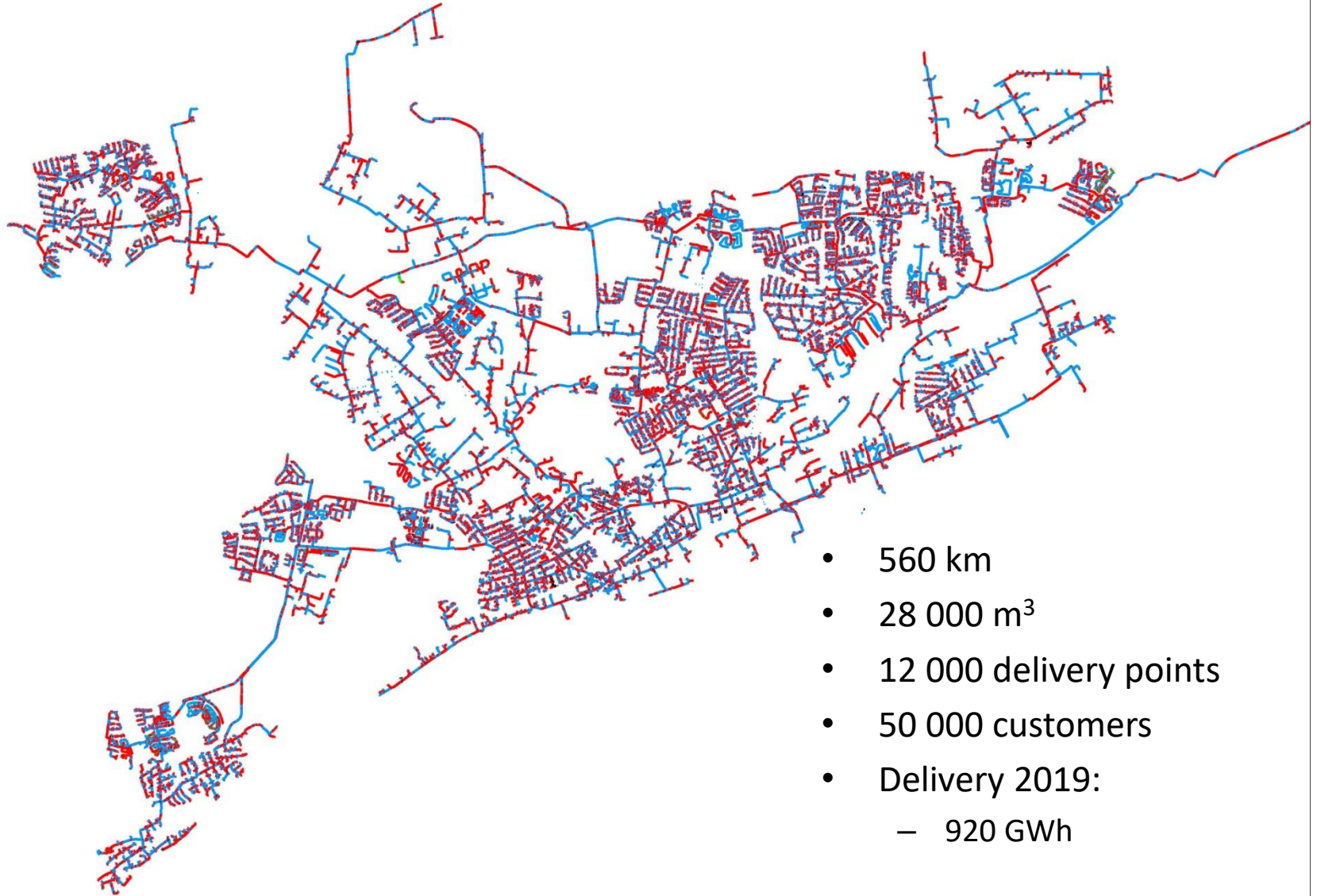


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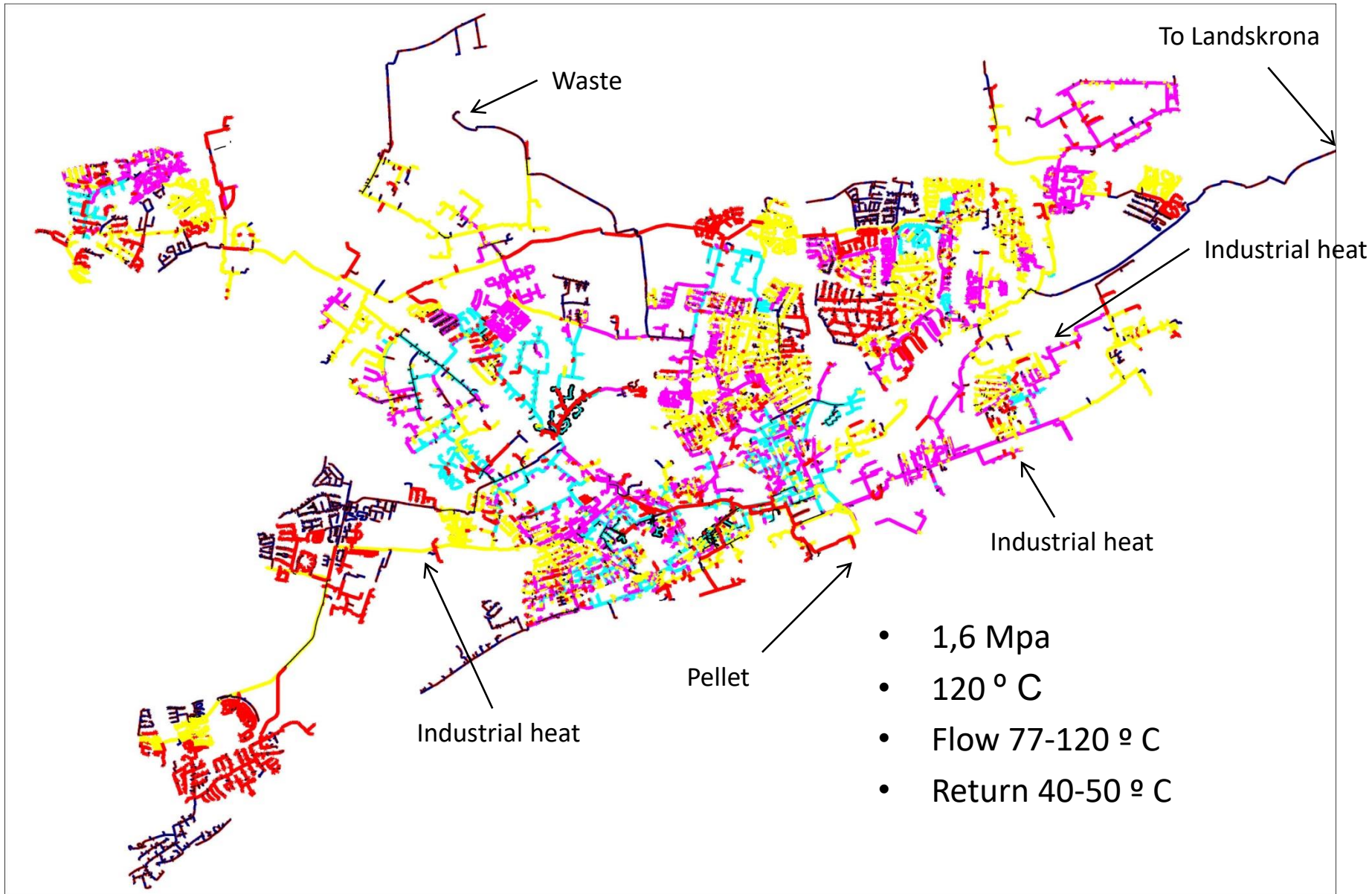


- Helsingborg and Ängelholm District Heating
- Smart network
- Questions

District heating area Helsingborg



District heating area Helsingborg



Distribution pipes



- Regional pipe to the city Landskrona and Lund
 - Capacity 40 MW
 - Length 16 km, DN 450
 - Built 2005



- Filborna main pipe
 - Capacity 260 MW
 - Length 5 km, DN 700
 - Built 2012

Ängelholm



	Heating
In operation	1977
Length [km]	150
Volume [m ³]	2 800
Costumer connections	2 500
Costumers	10 000
Energy 2019 [GWh]	220
Network losses [GWh]	20

Network constructions

Concrete



Asbestos



Copperflex



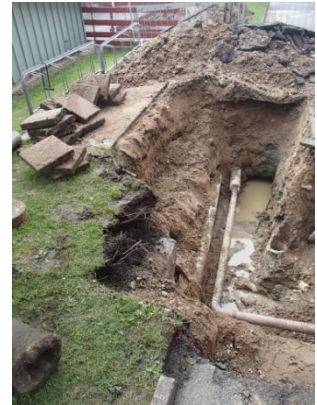
Aquawarm



PST



PVC



Smart network

Smart District heating Network



Maybe We are all already doing Smart District Heating!!

- Is there something that is called Smart District Heating?
- If there is does it exist?
- What do you need to do to achieve Smart District Heating?

How can we start getting Smarter?

1. Set a main goal
2. Set small goals
3. Timestamp the goals
4. Plan the work orderly
5. Measure progress
6. Work hard to reach the goals

Smart District heating Network



Smart District heating Network



1. Set a main goal

Measure network status 2025-01-01

2. Set small goals

Measure concrete network status

3. Timestamp the goals

2015-12-31

4. Plan the work orderly

Detection system, data system, communication

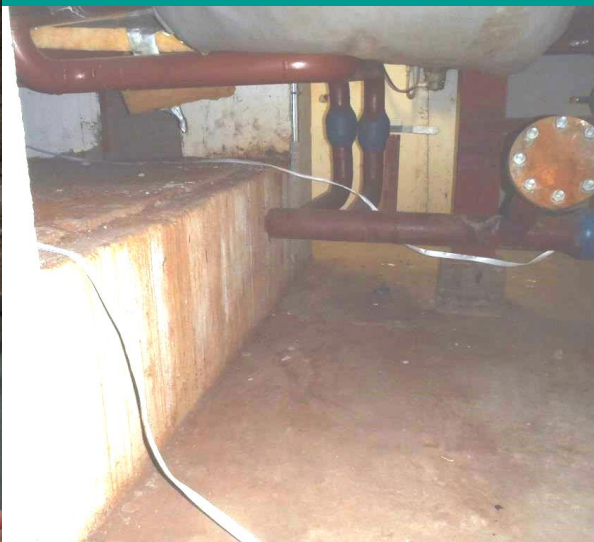
5. Measure progress

Decisions of systems, systems installed,
measurement fully working

Smart District heating Network



6. Work hard to reach the goals



Smart District heating Network



6. Work hard to reach the goals

2015 2015

Big leak

Picture band installed

250 000 € / Year

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Questions?

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