

# Viborg Heat

EASY SAFE CHEAP



**Tom Diget**

Distributionsleder

**Viborg Varme a.m.b.a.**

Håndværkervej 6 | 8800 Viborg | T. 87275832 | M. 40752167

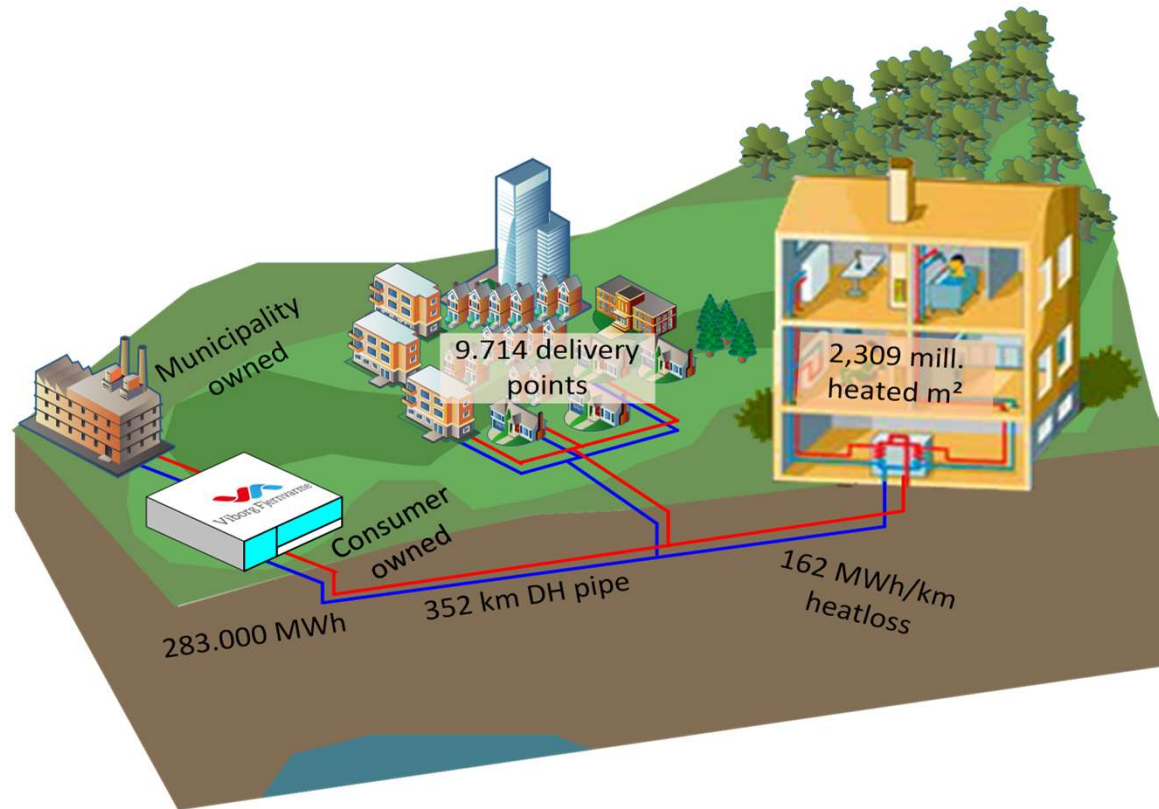
[td@viborgvarme.dk](mailto:td@viborgvarme.dk) | [www.viborgvarme.dk](http://www.viborgvarme.dk)

[in https://www.linkedin.com/in/tomdiget/](https://www.linkedin.com/in/tomdiget/)

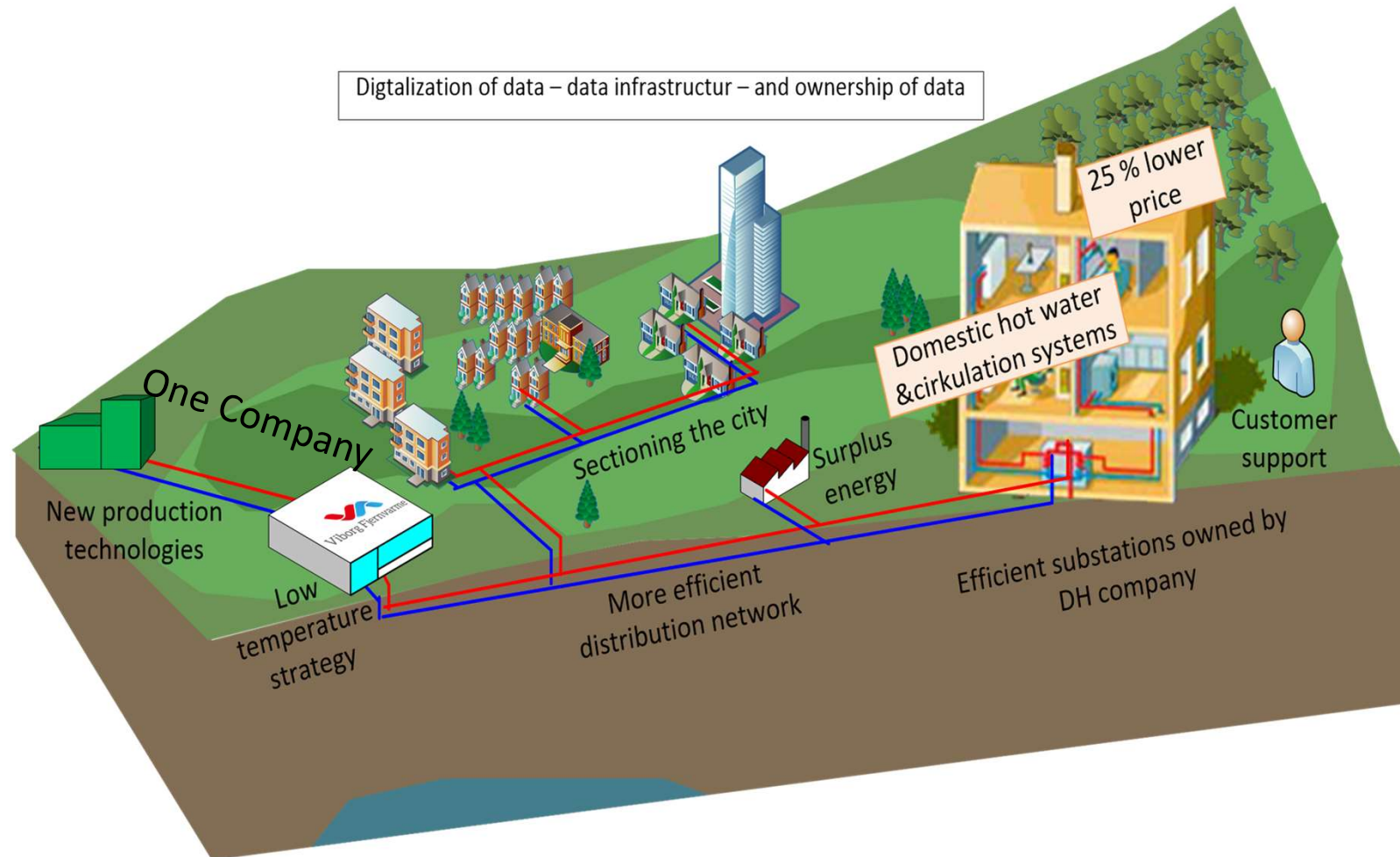
# AGENDA

- Viborg District heating
- Planning for newbuild Area –Video
- Motivation of stakeholders
- Rental Unit – Video

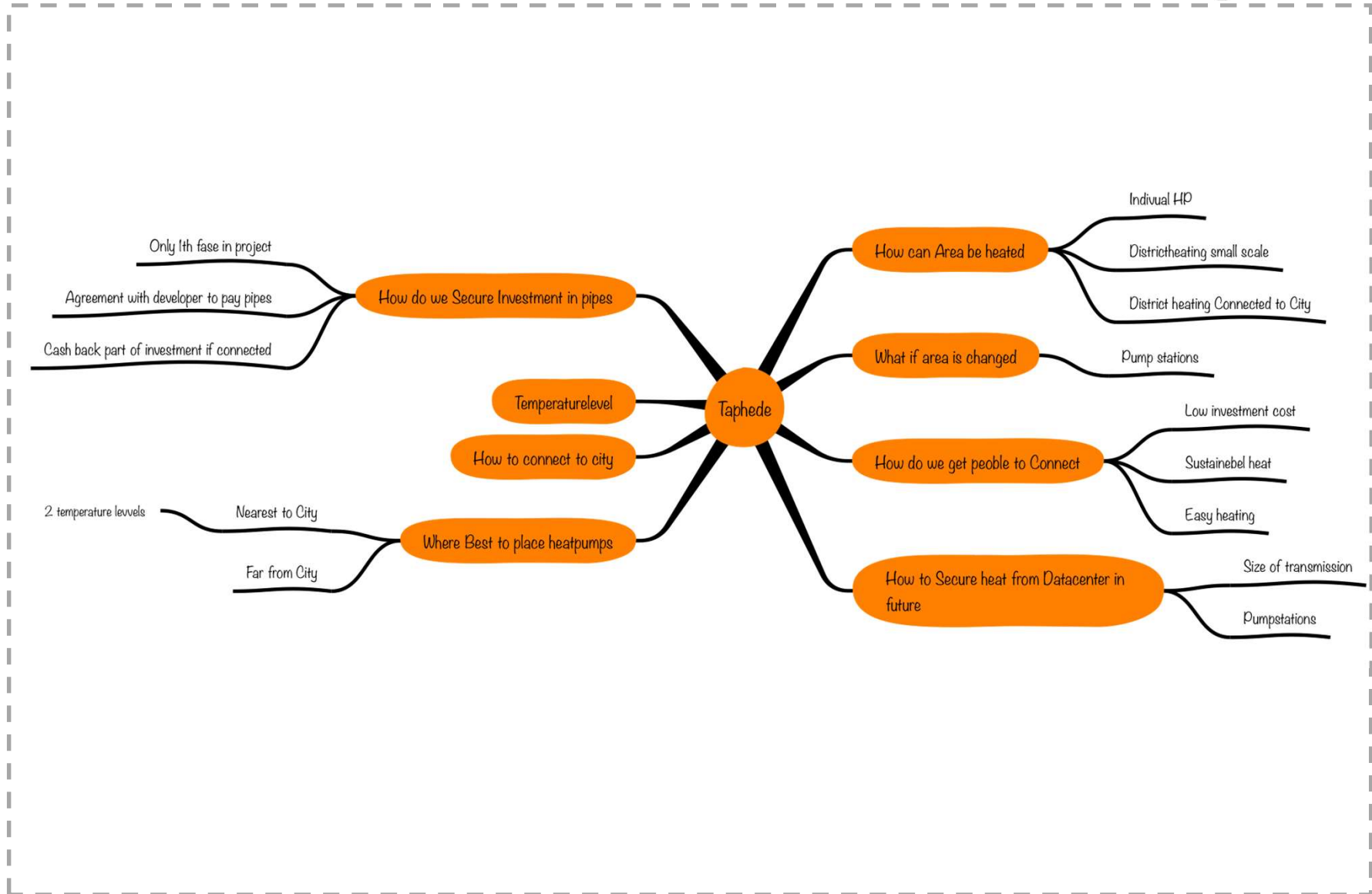
# VIBORG DISTRICT HEATING



# STRATEGY SUMMARY

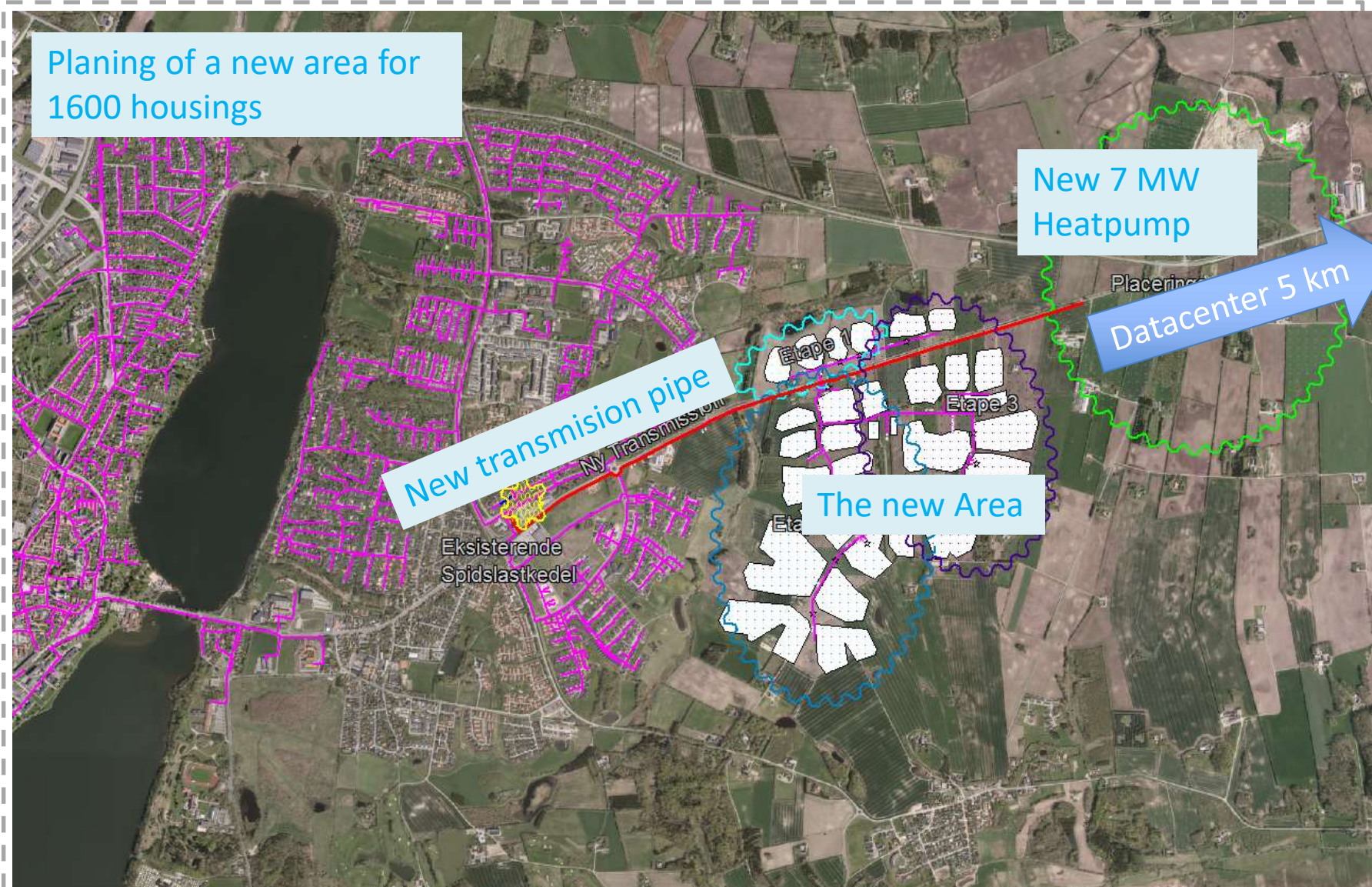


# PLAN OF NEW AREA - INITIAL THOUGHTS





# PROCES FROM PLAN TO PROJECT





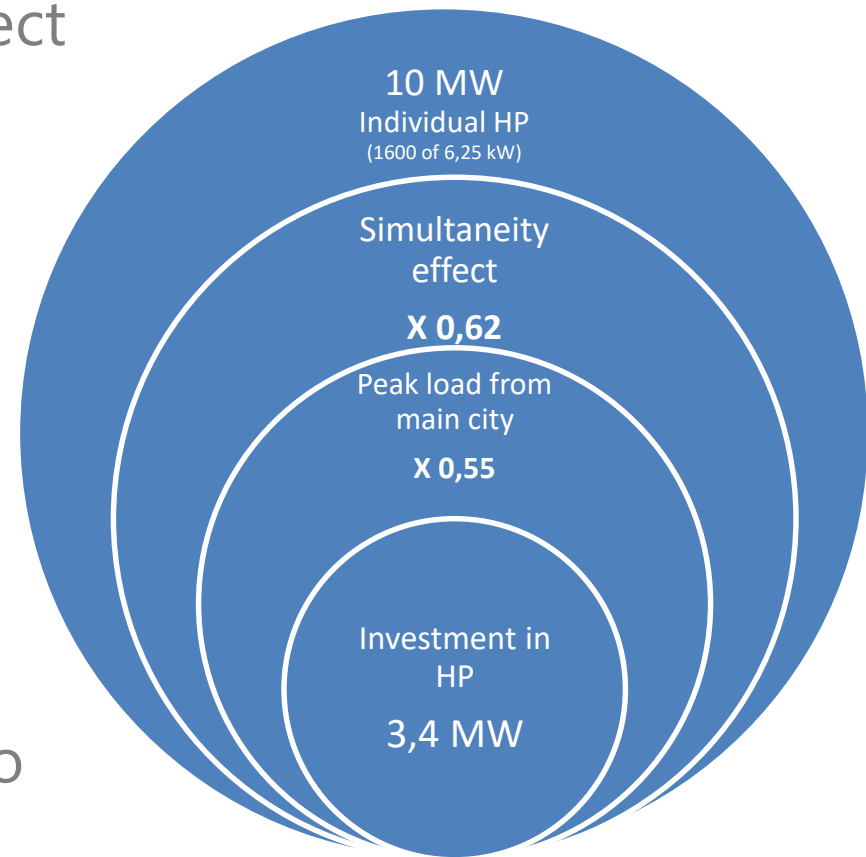
# STAKEHOLDERS





# MOTIVATION OF MUNICIPALITY

- ☀️ Mainly regulated by if a project have a good socio economic analysis
- ☀️ But is asked "why district heating – isn't individual heatpumps as good"
  - ☀️ No noise from 1600 individual heat pumps
  - ☀️ Central heatpump connected to city, can also displace fossil heating in city
  - ☀️ Future heat from datacenter, can be used with higher efficiency than air to water



*Larger heat pumps is ½ price per kW than individual HP*

# MOTIVATION OF INVESTER/DEVELOPER

## Challenges

- Energy consumption calculation
  - In favor of individual heatpumps
- Individual Heatpumps is marketed as low carbon
  - It is – but not more than district heating
- No connection obligation
  - private agreement

## District Heating Tools

- Low investment fee
  - 1/3 to 1/2 of actual cost of the pipes in ground
- A plan for low carbon production
- Rental District Heating units
  - No investment
  - No operation & maintenance
- Soft Values
  - Compact and noise free
  - Cheaper and easy





# MOTIVATION END CONSUMERS

- Low price
- Easy
- Worry free
- Green



## IN SHORT



Contact the main stakeholders early in the process

Don't calculate too deep in the beginning – but think out of the box

- Find out where you and the stakeholders have common ground
- Keep and open calculation, so benefits are clear to all