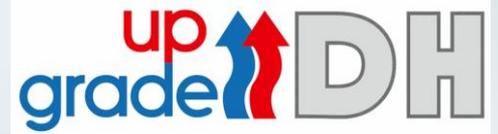Presentation

Cooperation with follower cases:
Næstved - Denmark

Thomas Østergaard,

Project- and Market Director, COWI
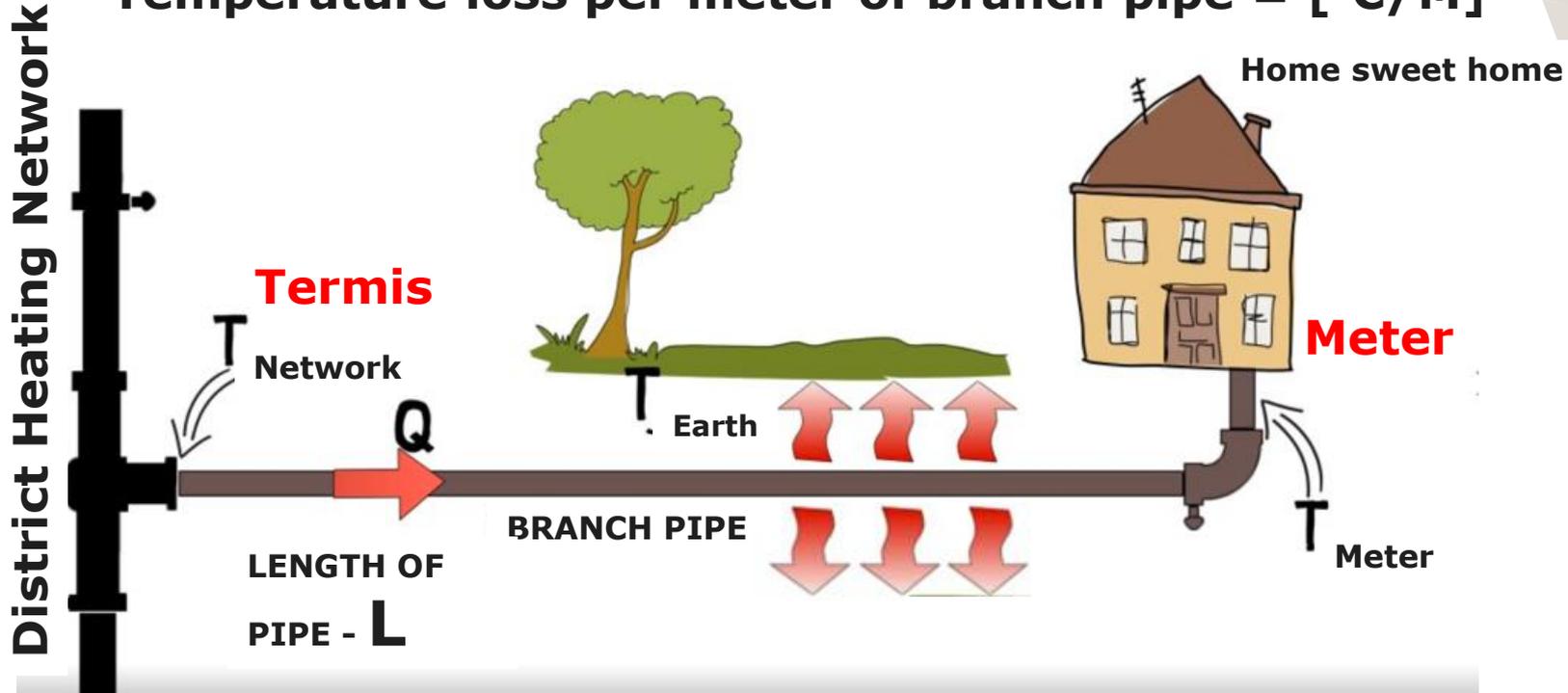
OPTIMIZING WITH TERMIS - UPGRADE DH
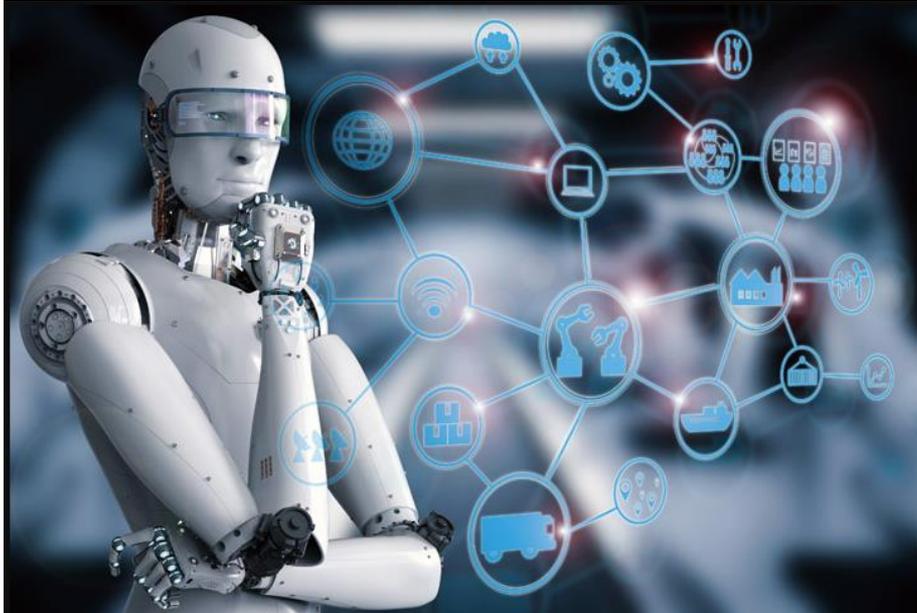
All we wanted was to find out :

Temperature loss per meter of branch pipe = [°C/M]

District Heating Network

Termis

T Network

Q

Home sweet home

Meter

T Earth

BRANCH PIPE

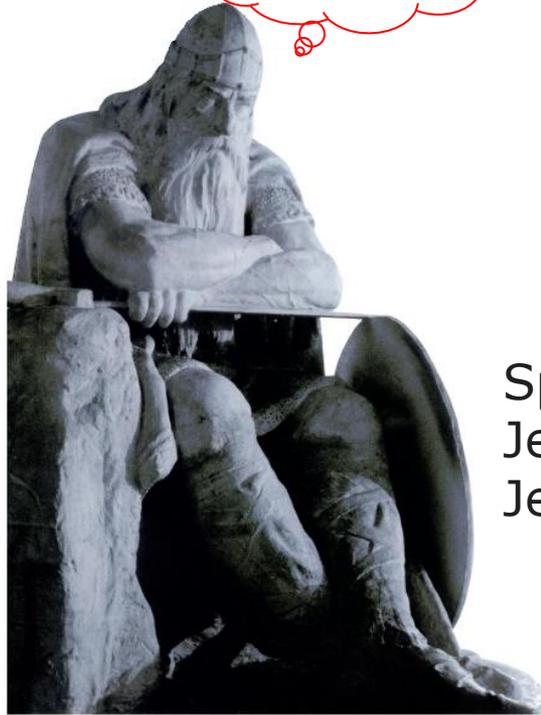**LENGTH OF PIPE - L**

T Meter

And we did it!

COWI

up grade DH

Some say – DH is simple – it is just hot water in tubes

Then we said OK, just find the bad branch pipes in a network with 15,000 connections, OK?

GIS – Line registration
TERMIS REAL TIME Data
Remotely Read Meters
Earth temperatures
Datawarehouse
Customer Data
Weather forecasts
Data Security

Digitalization!

COWI

up grade DH

Lessons Learned:

It's going to get better the second time.

Digitalisations works!

District heating is more than hot water in tubes !

Special thanks to:
Jesper Skov, Middelfart Fjernvarme
Jens Andersen, Næstved Fjernvarme

Thank you

for your

Attention