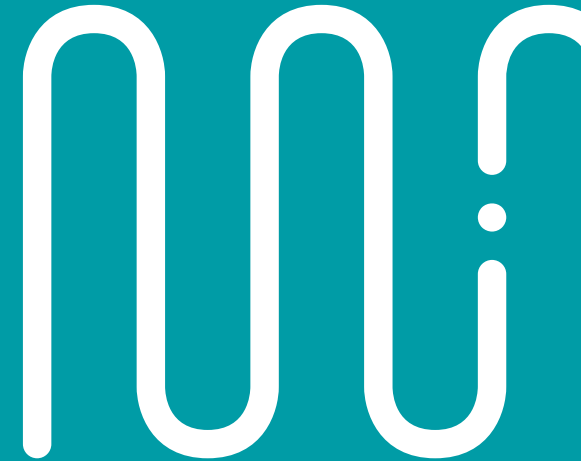


# Kamstrup's heating solutions

Croatia

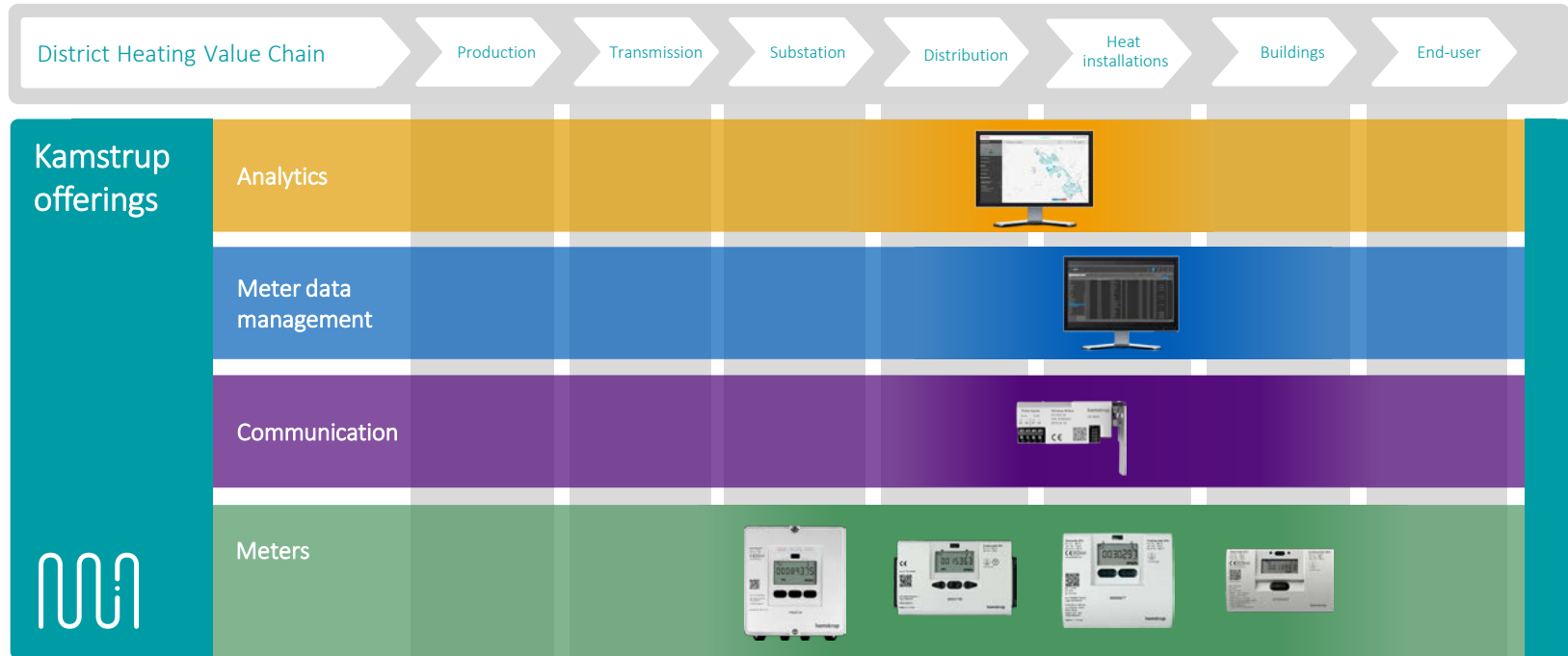
22-24 September 2021



70+ years of **experience**  
combined with the  
highest of **ambitions**  
and continuous  
strategic investment  
in pushing the limits  
for **innovation**.



# Value chain overview – how are we positioned with our offerings?



## You cannot optimise what you do not measure, but...

Unlocking the true potential in smart meter data and digitalisation requires the right tools, services and competences to turn data into knowledge you can act on.

Define your core business and leave the rest to your suppliers

- Hosting of data?
- Meter maintenance?
- Roll-out and operation of data collection system?
- Other?

# New demands New possibilities

2020

October 25, 2020

All meters installed after this date must be able to be read remotely with a read every 3 months

2022

January 1, 2022

Consumption information to the end-users on a monthly basis

2027

January 1, 2027

Every residence must have a read remotely read meter installed - with a monthly read

...and New possibilities to optimise your business

# Kamstrup's Thermal Energy Meters MULTICAL®

Everything starts with the meter - the basis for getting new and critical knowledge about your network and end-users.

Secure investments

Basis for optimisation

Reduce operational costs



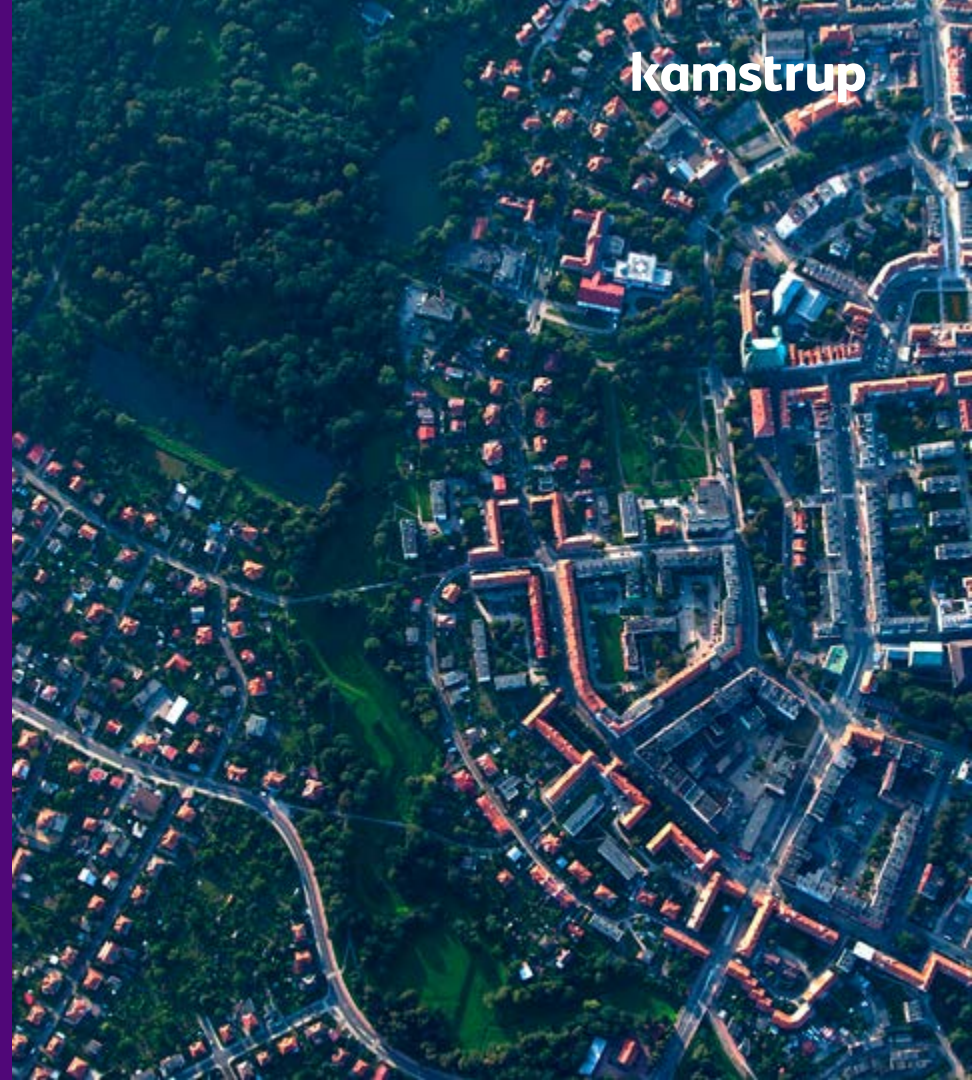
# Communication

The meter's ability to communicate is crucial for the type of data that you can retrieve. Both for the utility and inside the building.

The broadest range of communication options

Flexibility

High performance and low total cost of ownership



# READY Software

READY is an effective solution for remote meter reading of intelligent meters – either through drive-by reading or through a fixed network.

Fast and easy access to consumption data

Gives you a tool for analysing the data

Your meter data is stored safely with us





# Heat Intelligence Analytics

Heat Intelligence is a cloud-based analytics platform – enabling value creation via data analytics throughout your value chain.

Analytics based on facts instead of habit or “gut-feelings”

Reduce both operational costs and long-term investments

Innovative data driven analytics



## Data-driven operation and asset management for maximum impact

- Operate closer to the limits while documenting your quality of delivery
- Locate high heat losses and find poor-performing pipes
- Find bypasses and analyse the impact of these on the system performance
- Monitor load and capacity and identify what stresses your network

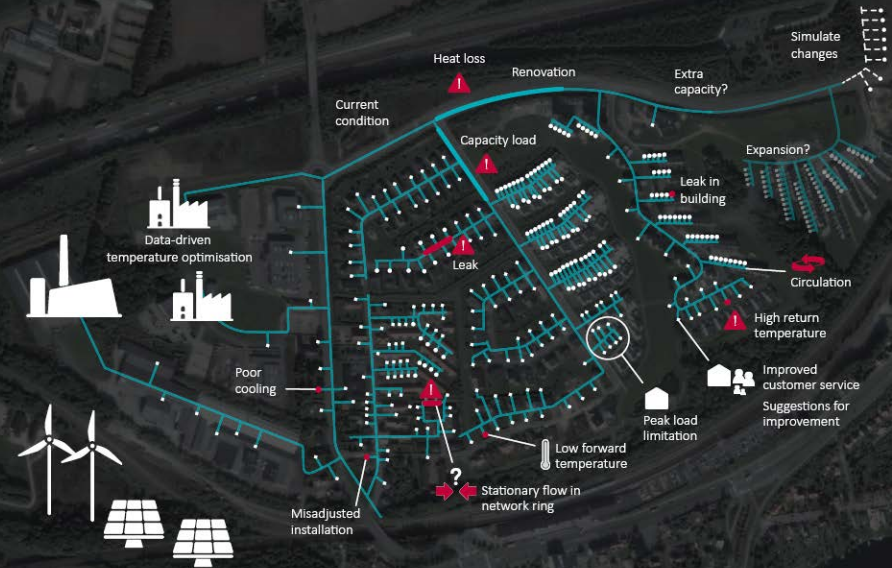
### Save energy

- Reduced heat loss
- Minimised pump operation
- More efficient production

### Improved cost-efficiency and happy customers!

We ensure that you get off to a hassle-free start for maximum value creation.

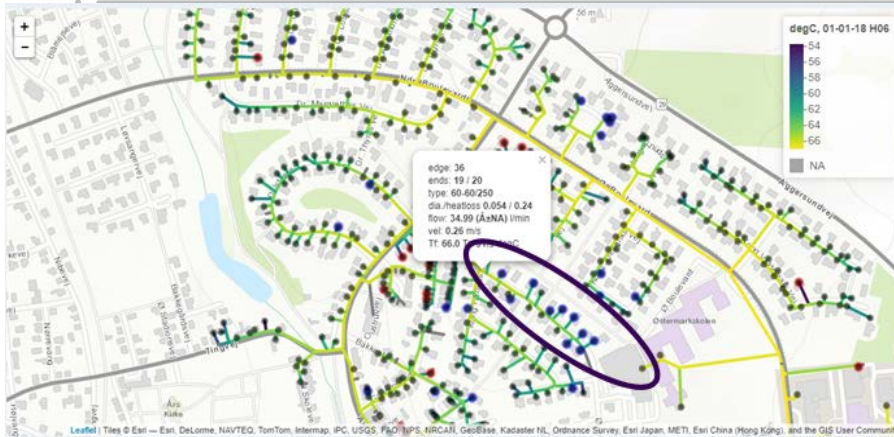
## Digitalisation provides transparency and reduces losses



# Use cases

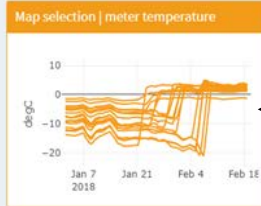
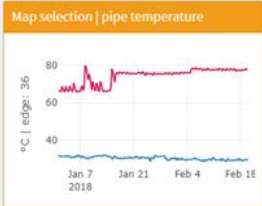
Value comes when you act on  
your knowledge



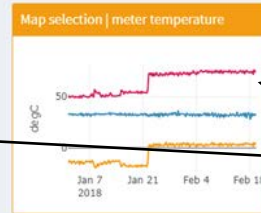
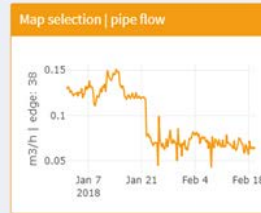
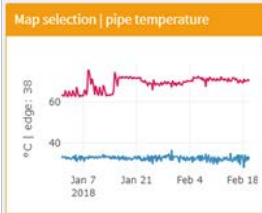


## Identify broken pipes with high heat loss

- Heat Intelligence detects multiple temperature outliers with lower temperatures than expected
- In this case, the reason was broken service pipes with wet insulation. This caused the forward temperature to be >10 °C lower than expected



Temperature deviations disappear after new service pipes are installed



After new service pipes are installed ...

→ Forward temperature goes up

→ Flow is reduced

# Thank you

Think forward

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Kamstrup A/S

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