

A stylized logo consisting of several overlapping, curved leaf-like shapes. The top-most shape is blue, followed by a light green, a medium green, and a dark green. The shapes are arranged in a fan-like pattern, pointing towards the right.

**GEODE**  
**Position Paper on Smart Metering**

**Tomas Arnewid**

**G E O D E**

The letter 'O' in the word 'GEODE' is replaced by a circle of twelve yellow stars, similar to the flag of the European Union.

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# GEODE Smart Metering Position Paper

- GEODE
- Overview
- GEODE position



# Who we are?

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## Independent Distributors

- **Founded in 1991**
- Represents more than **600 independent electricity and gas distribution companies** from **12 European countries**
- Our members are independent companies, public and private owned
- Our members supply more that **100 million people**
- Countries represented:
  - **Denmark**
  - **Germany**
  - **Norway**
  - **Sweden**
  - **Hungary**
  - **Austria**
  - **France**
  - **Italy**
  - **Spain**
  - **Switzerland**
  - **Slovenia**
  - **United Kingdom**



# Overview

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SMART METERING an issue addressed throughout the world:

- USA: California, Texas and others
- Australia
- Europe

Meter stock:

- 253 M electricity Meters in EU
  - >60% is in Germany, France, Italy, UK & Spain
- 109 M gas Meters in EU
  - >80% is in Germany, France, Italy, UK, NL, Poland & Spain

100 M SM to be installed in next 5 - 10 years in EU

Residential sector is second largest final user of energy

- 30% of total consumption



# Drivers for Smart Metering

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- Increasing Energy Efficiency
  - Main driver in Europe
  - Better informed customers will use less energy
- Improving billing accuracy
  - Main driver in Sweden
- Peak demand management
  - Main driver in USA, Australia
- Reducing losses due to fraud
  - Main driver in Italy
- Advancement of Smart Grids
- Enabling Renewables, micro-generation, distributed generation connection to the network
- E-mobility

# GEODE supports the advancement of SM

- Increased energy efficiency
- Improved customer service
- Increase efficiency in the value chain

# Responsability for Metering

DSO is the suitable actor to be responsible for and to manage the SM infrastructure

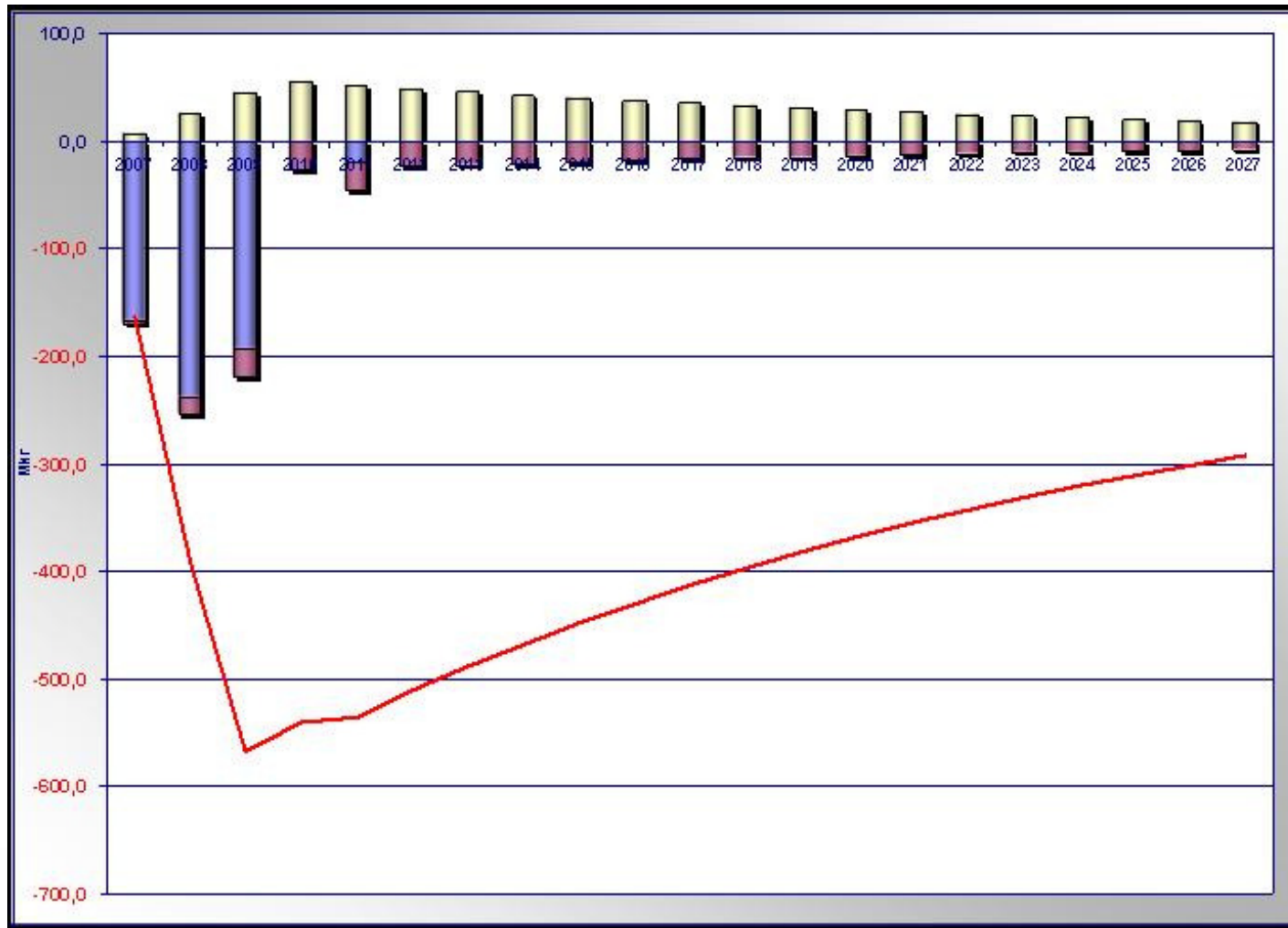
# Responsability for Metering

23 OUT OF 25

# Cost of Smart Metering

DSO must be given financial allowances in order to recoup costs of investment of Smart Metering implementation

# ROI – Typical for DSO?

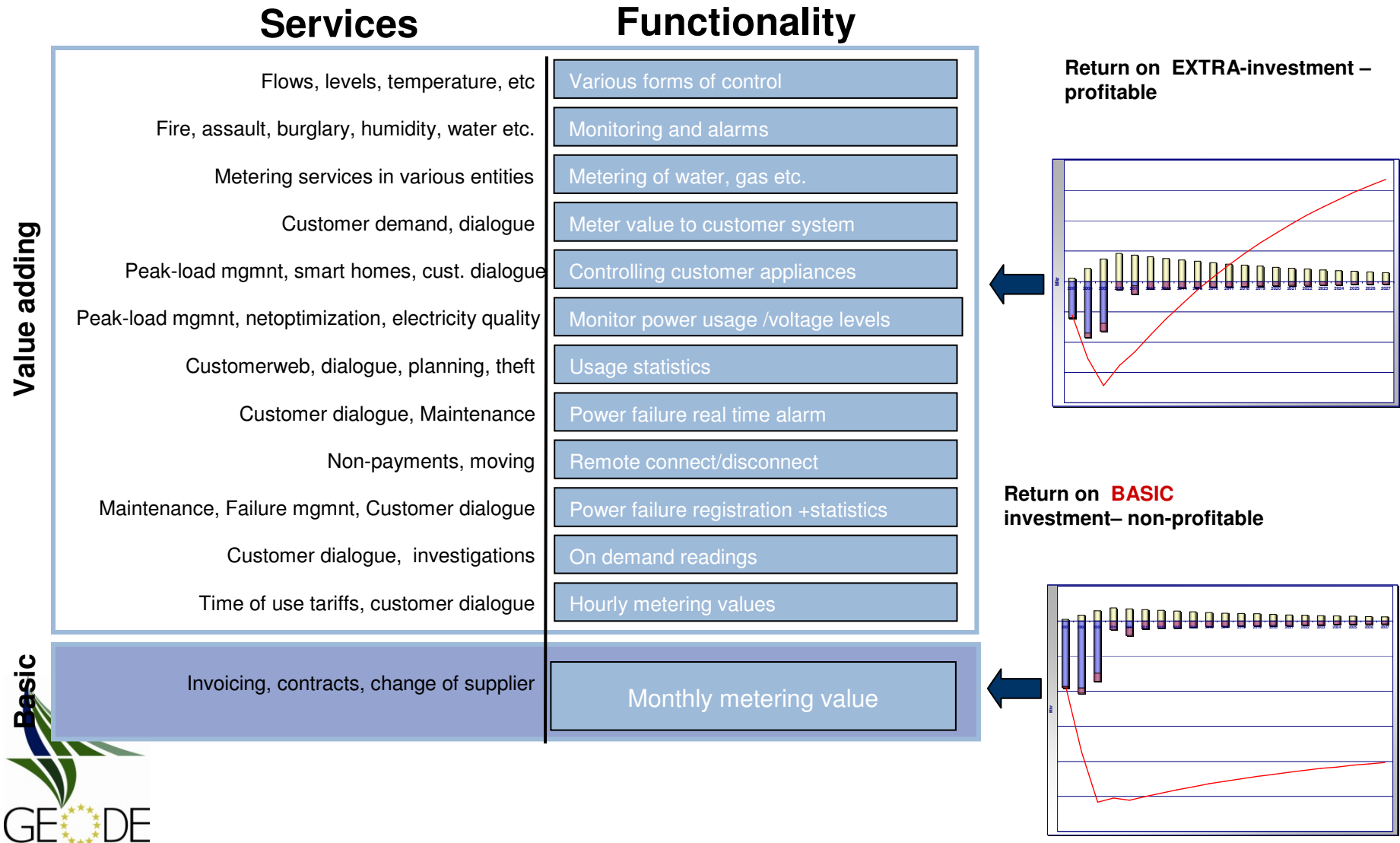


# Functionalities

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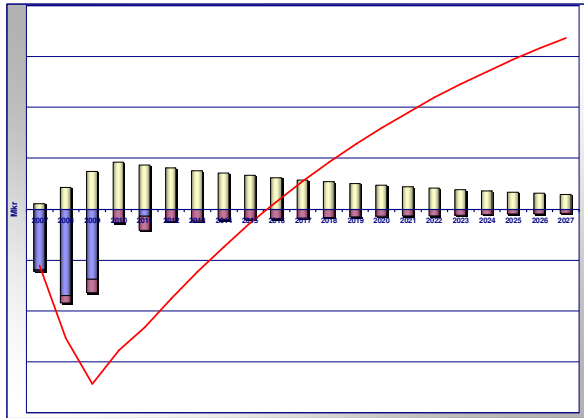
Important to define certain minimum Smart Meter functionalities across a country or EU.

# AMR to AMM to AMI



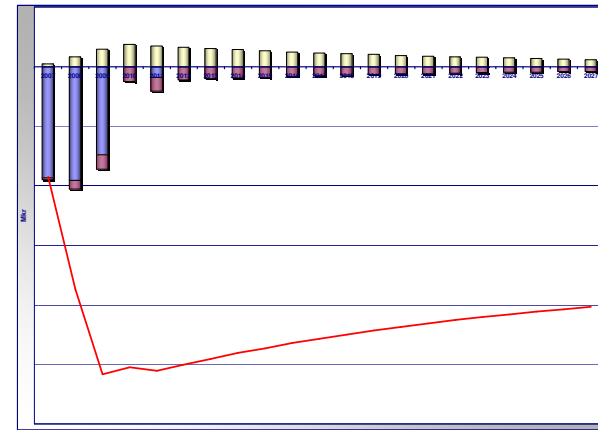
# AMR to AMM to AMI

Return on **BASIC**  
investment – non-profitable

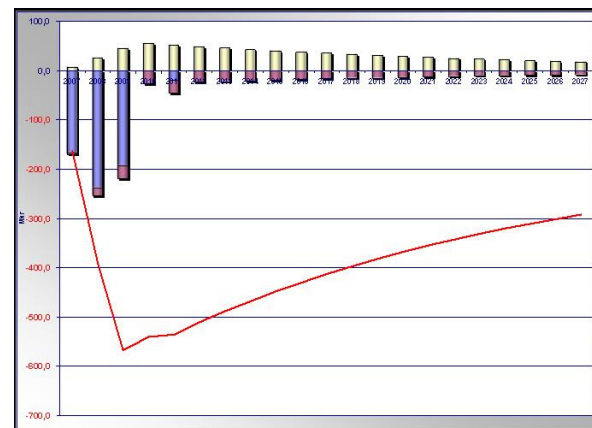


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Return on **EXTRA**-investment –  
profitable



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# Standardisation

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- Need of standardization – on communication level
- GEODE supports the work being done by CENELEC (Commission's mandate)
- Procedures should speed up as much as possible

# Customer concerns

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Customer concerns over privacy issues, data handling and EMF must not be taken lightly and can increase costs or at worst stop installation or even roll-out of Smart Metering

# Customer concerns

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**Psychotherapist**

Incorrect metering  
EMF  
Privacy issues

# Summary

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- **GEODE** supports the implementation of Smart Metering
- **GEODE** holds that the DSO is the suitable actor to be responsible for and to manage the Smart Metering infrastructure
- **GEODE** stresses that the installation of Smart Metering Systems is a large investment for DSO. It is necessary that the DSO is given financial allowance in order to recover the cost.
- A minimum level of functionalities should be defined at national and European level, in order that all customers are given the same basic option of services.
- Standardisation at European level is needed and should be made on open communication level
- Customer concerns over privacy issues, data handling and EMF must not be taken lightly and can increase costs or at worst stop installation or even roll-out of Smart Metering



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**Thank you**

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