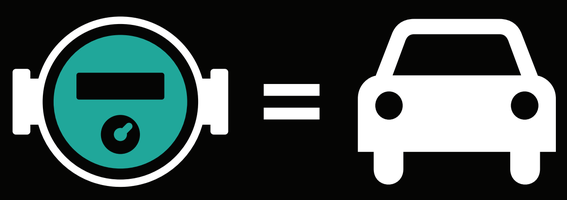
Advanced Water Meter Management System to improve water meter efficiency

What is optimal frequency for replacing a meter?

The optimal frequency for replacing a water meter depends on the type and the use made of it. It is similar to car replacement criteria.



How to make better decissions to reduce apparent losses

APPARENT LOSSES

- UNAUTHORIZED CONSUMPTION
- SYSTEMATIC DATA HANDLING ERRORS
- CUSTOMER METERING INACCURACIES

- Analyzing each water meter individually
- Calculating PKIs to identify water meters that may be causing apparent losses
- Prioritizing works based on given score and relevance
- Data mining to detect issues

How it works

TECHNOLOGY

SOFTWARE ENGINEERING
- CLOUD COMPUTING
- BIG DATA

METROLOGY
- WATER METER SYSTEM MANAGEMENT

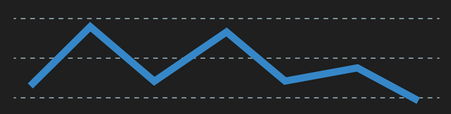
MATHEMATICS
- STATISTICS
- PREDICTIVE ANALYSIS
- MACHINE LEARNING

METHODOLOGY

1 INPUT
METER TYPE
NOMINAL DIAMETER
CONSUMPTION
ACTIVITY
ETC.

2 OUTPUT
METER DETAIL

CONSUMPTION



METER TYPE
SINGLE JET - 1/2"

RELEVANCE

SCORE

TOTAL	DETAIL
4,3	3
	0
	2
	1

GLOBAL SCORE / PKIs

REPLACEMENT	
	1207
	993
	10,595
	10

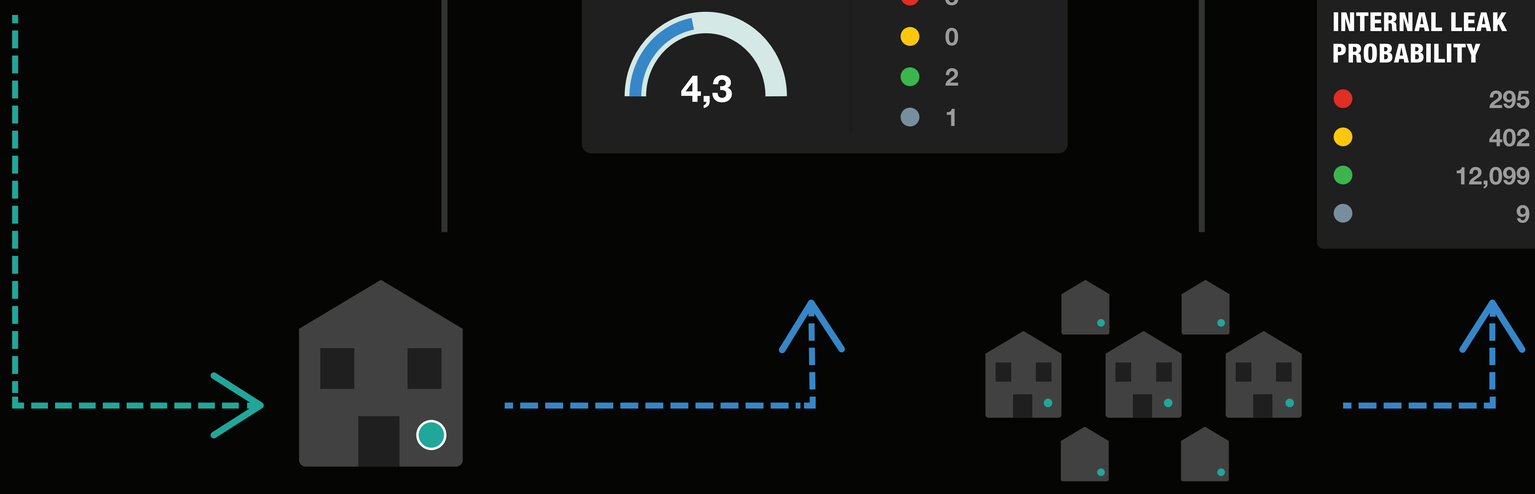
STOPPED METER PROBABILITY	
	31
	54
	12,705
	15

SIZING	
	32
	15
	12,751
	7

ABNORMAL CONSUMPTION	
	44
	17
	12,732
	12

INTERNAL LEAK PROBABILITY	
	295
	402
	12,099
	9

DATA RELIABILITY	
	67
	148
	12,579
	11



FOR MORE INFORMATION
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