Davide Montanari - Head of analytics translator

Energy and Nuclear Engineer Degree

R&D engineer

Head of Analytic Translator

Ammagamma is a data science company that offers artificial intelligence solutions to help companies evolve their potential.

2013	Foundation
65	People
2	Headquarters in Modena (ITA) and Haifa (ISR)
+200	Projects based on AI solution

Italian headquarter

Predictive maintenance of natural gas distribution grid

Energy Utility

20.000 km of pipes
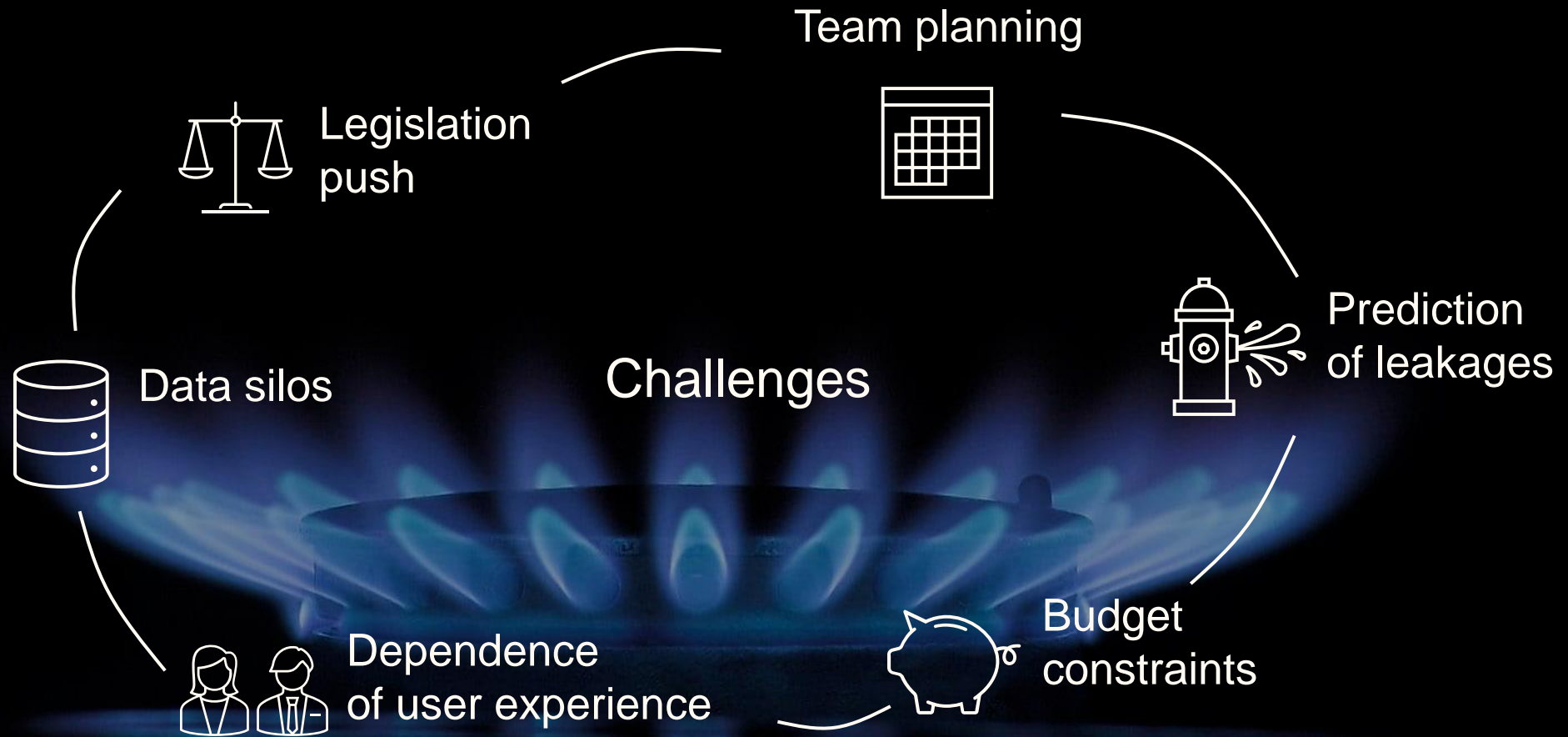
1.000.000 clients served

140 municipalities

2bn m3/y of gas distributed
(3% of italian yearly consumption)

Team planning

Legislation push

Prediction of leakages

Data silos

Challenges

Dependence of user experience

Budget constraints

The solution

One centralized geo-referenced data platform with custom AI algorithm properly data enriched with external data

Leakage prediction

Prediction algorithms that identifies the most dangerous pipes (through a probability of potential multifunction in the next 6-12months)

District clustering

Clustering of all area in term of probability of leakage, distance, position and weather data in order to schedule the best visit time in the year

Routing optimization

Geo-routing algorithm to efficiently guide the teams in the patrol of the network

External
data

Company
data

Leakage
prediction

District
clustering

Routing
optimization

Optimized
planning
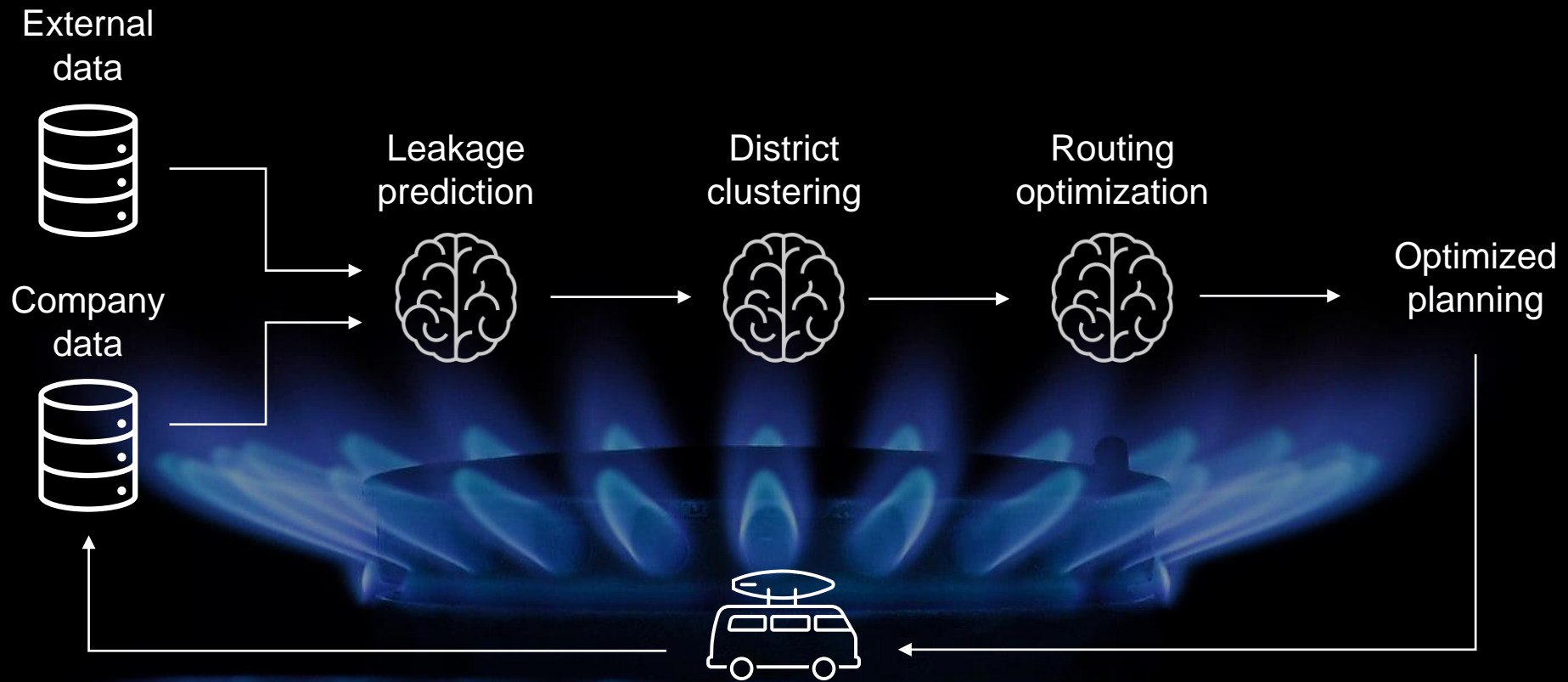
Results in numbers

-30 %

Leakage detected by citizen

+20 %

Km covered with the same team size

20

Trained people

Impact on society and environment

- Less atmospheric emission of high GWP gasses

- Less wasted natural gasses

- Less fuel consumption by field team to patrol the grid

- Digital up-skilling of final users

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