About us

Bludigit is the commercial and technological partner of the digital and energy transition in the energy distribution industry

Our Vision

Enabling the digitalisation of plants and distribution networks along the entire value chain and promoting the energy transition

Our value

We provide digital solutions to optimize costs, reduce risks and improve the work experience of our customers by delivering our expertise and consolidated experience **on 81,000** km of network in Europe and **over 8 million smart meters**

Thanks to the collaboration with Italgas and the Polytechnic of Turin, Bludigt has a **research laboratory** which has made it possible **to unlock the full potential of Smart Meters with the IoT platform** through a set of unique value drivers

Defining **the best communication architecture**, even in complex installation situations (cellars, inside apartments, distance from antennas, etc.)

Identification of the **best performing smart meter** models

Study of battery life performances for the different smart meter models

Develop **in-depth technical skills and knowledge** in the metering field

Readings

Missed remote readings result in fines to be paid and the need for rework

Management

Lack of features to **remotely manage smart meters** requires manual intervention (e.g., closing the valve)
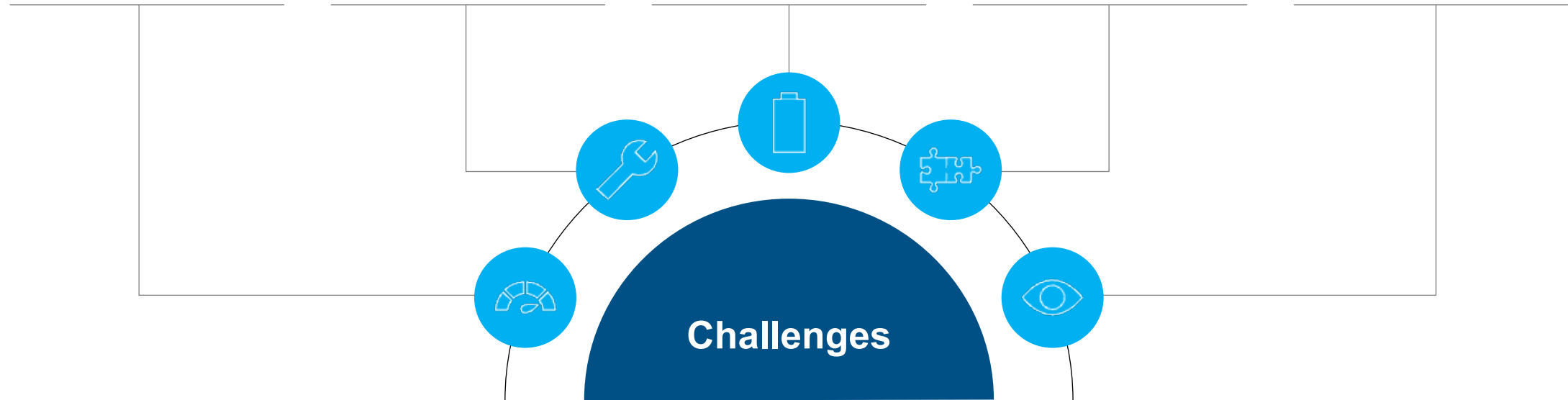
Battery life

Short battery life generates extra costs to perform frequent substitutions
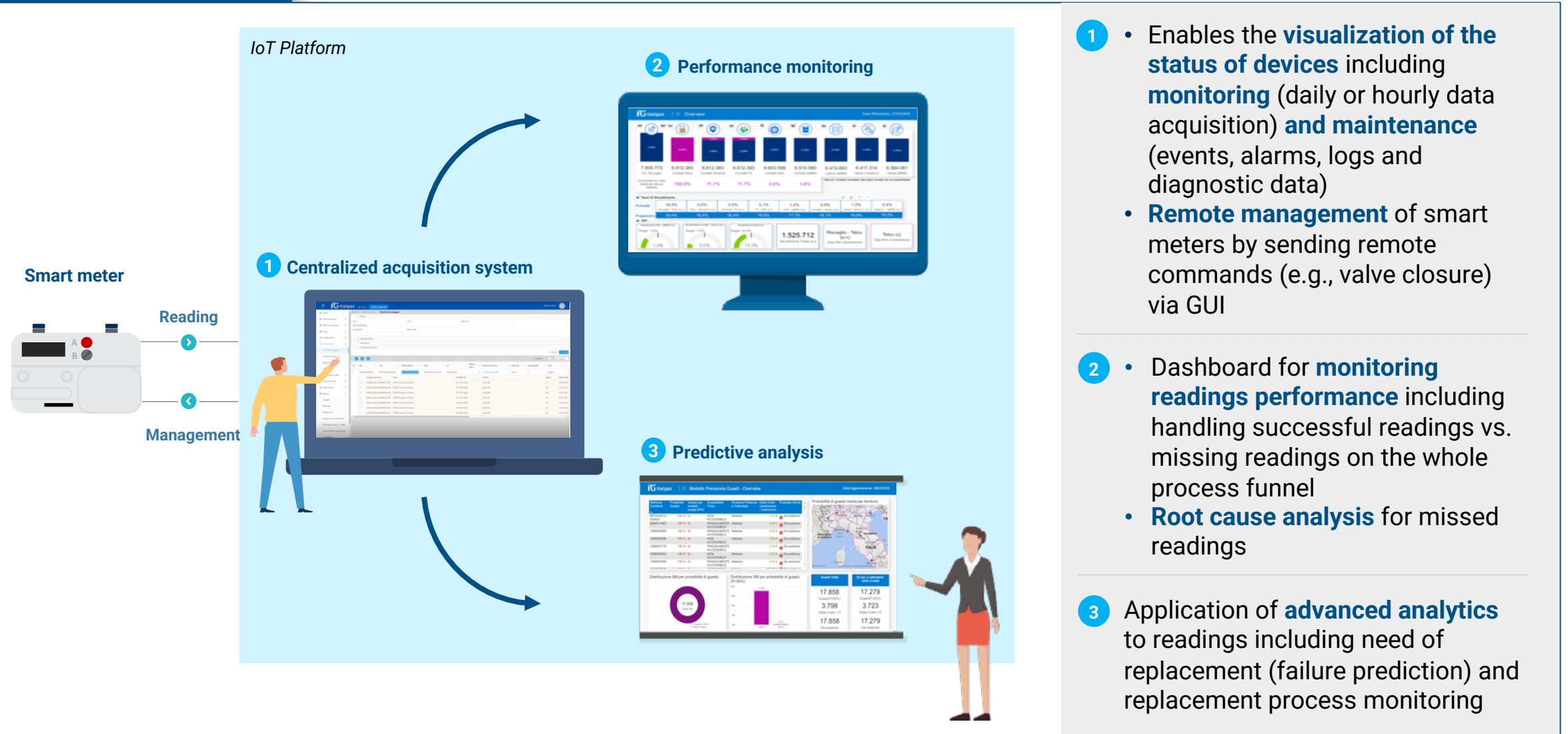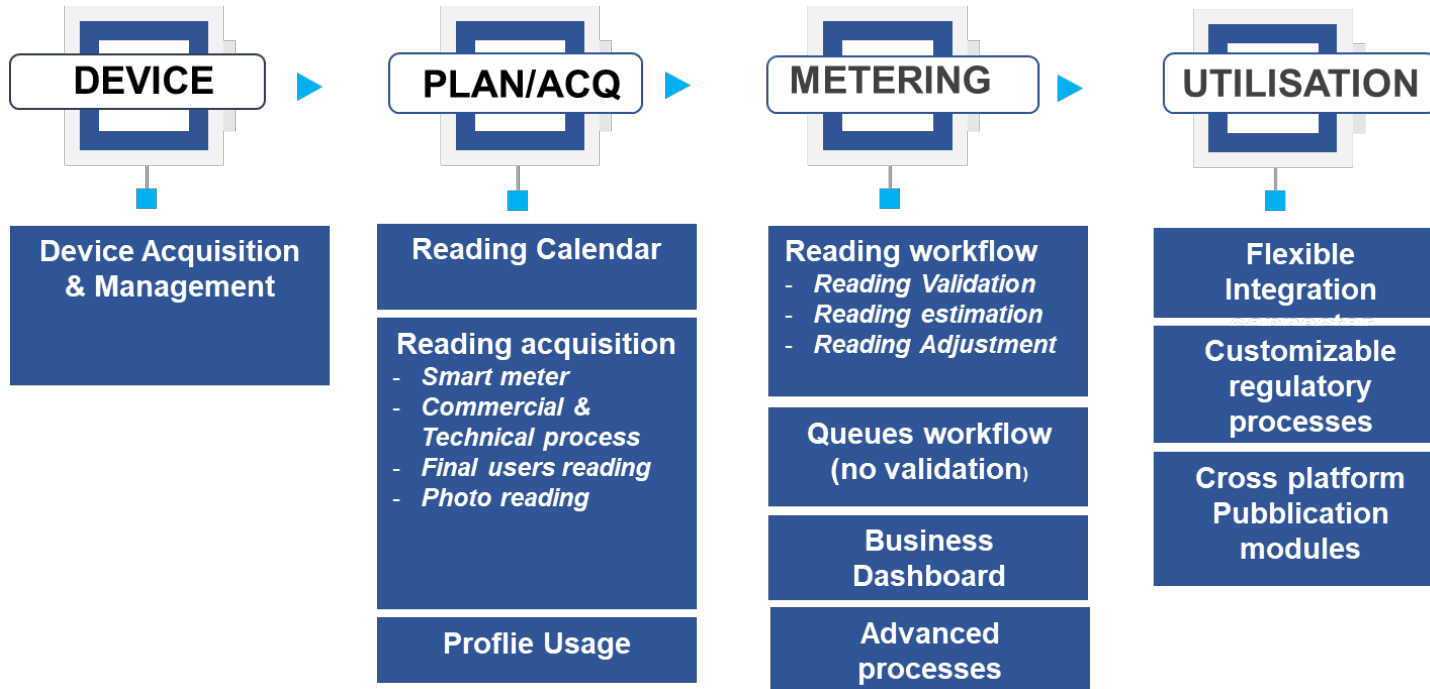
Integration

The presence of different types of smart meters makes **integration** difficult and expensive

Data

Data alone does not generate relevant information, it requires algorithms, dashboards, and processes

Challenges

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IoT Platform
IoT Smart Metering

IoT Platform

1 Centralized acquisition system

2 Performance monitoring

3 Predictive analysis

Smart meter

Reading

Management

1
- Enables the **visualization of the status of devices** including **monitoring** (daily or hourly data acquisition) **and maintenance** (events, alarms, logs and diagnostic data)
- **Remote management** of smart meters by sending remote commands (e.g., valve closure) via GUI

2
- Dashboard for **monitoring readings performance** including handling successful readings vs. missing readings on the whole process funnel
- **Root cause analysis** for missed readings

3
Application of **advanced analytics** to readings including need of replacement (failure prediction) and replacement process monitoring

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IoT Platform
Metering data management

DEVICE ▶ **PLAN/ACQ** ▶ **METERING** ▶ **UTILISATION**

Device Acquisition & Management

Reading Calendar

Reading acquisition
- *Smart meter*
- *Commercial & Technical process*
- *Final users reading*
- *Photo reading*

Proflie Usage

Reading workflow
- *Reading Validation*
- *Reading estimation*
- *Reading Adjustment*

Queues workflow (no validation)

Business Dashboard

Advanced processes

Flexible Integration

Customizable regulatory processes
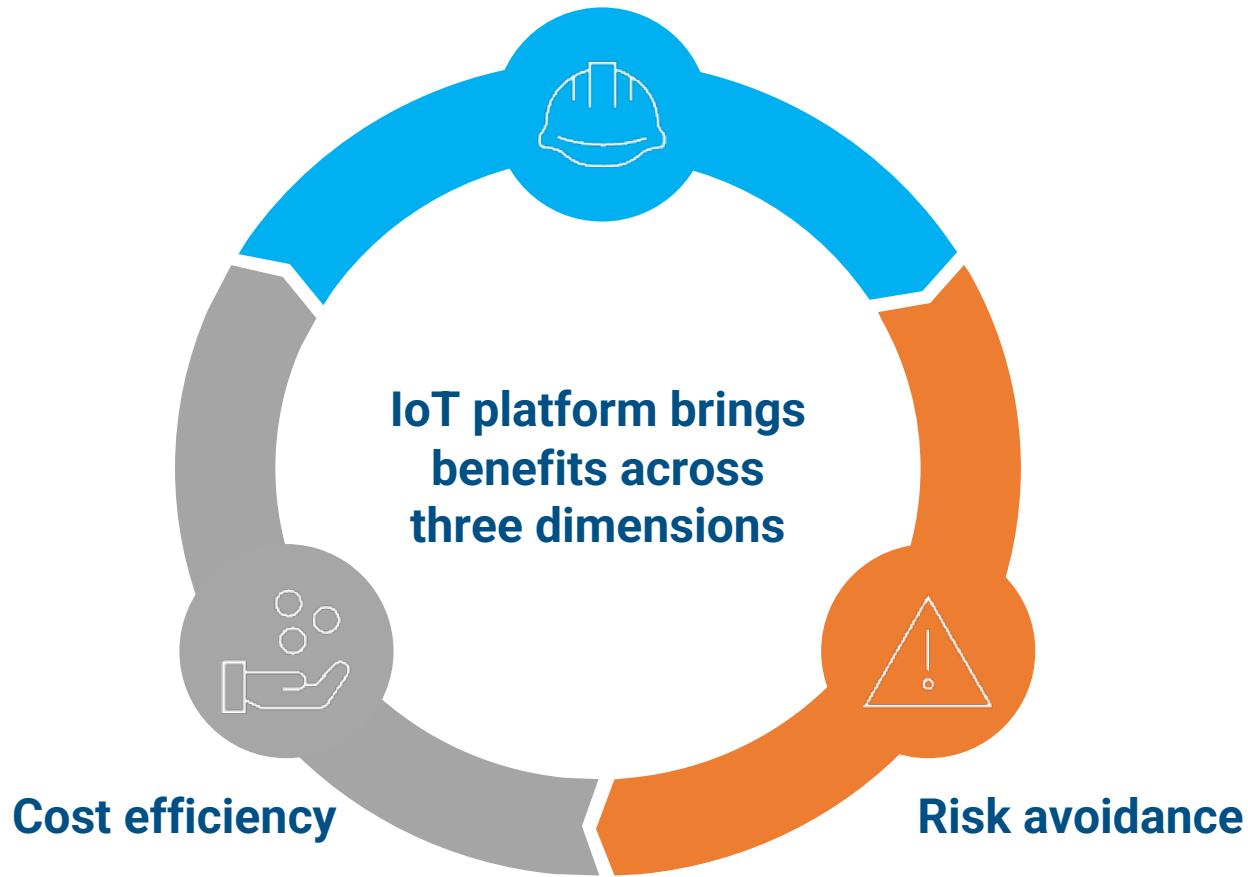
Cross platform Pubblication modules

1
- Multiple channels for reading acquisition from different areas & **different communication protocols** (messaging queues, automatics files transfer, web portal)
- **High adaptability**: Integration modules can adapted in term of scalability and infrastructure

2
- **High configurability:** reading management is facilitated by centralized & configurable workflows
- **High flexible:** all processes can be customized. Core processes (reading compensation, smart installation) are prepared for European regulation

3 Application of **advanced analytics** to reduce no validation making use of cognitive services

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bludigit
una Società Italgas

Operational efficiency

IoT platform brings benefits across three dimensions

Cost efficiency

Risk avoidance

Operational efficiency

- Reduction of the **decay rate** ensuring read performance of **+98%**
- Reduced reading **process inefficiencies**

Cost efficiency

- Reduction of **operating costs** (e.g., reduction of on-the-ground maintenance)
- Reduction of costs for **meter replacement**

Risk avoidance

- Creates **visibility on network status and usage**
- Ensures **adherence to regulatory trends**

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