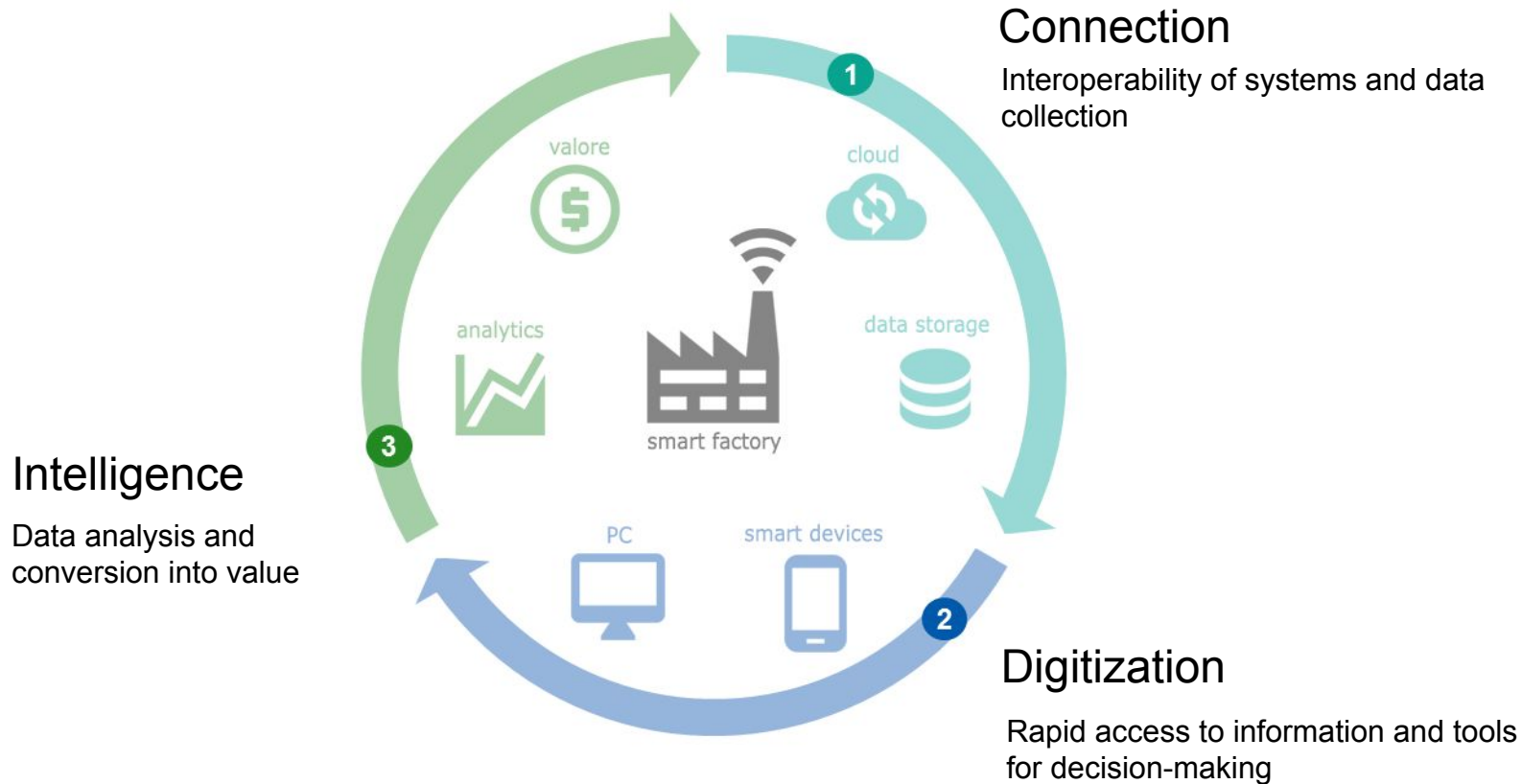# Smart Factory - Internet of Things



**Connection**

Interoperability of systems and data collection
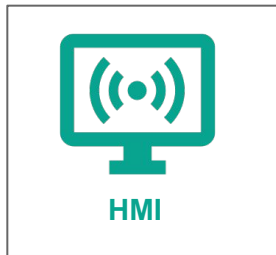
valore

cloud

analytics

data storage

smart factory

**Intelligence**

Data analysis and conversion into value

PC

smart devices

**Digitization**

Rapid access to information and tools for decision-making

G2 DI GHIOLDI SRL

# **Connection**

## 1

Interoperability of system and data collection 1/2

**Supervisore**

**Smart Factory**

**USB**

**LAN**

sensors

sensors

WET

**HMI**

PLC

sensors

**Cloud**
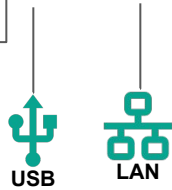
- State of the system

- Performance:
  1) Nr° Pouring ended;
  2) Nr° Complying Pieces.

- Critical parameters:
  1) Material Temperature;
  2) Efficiency pumping Units;
  3) Pressures.

- Consumption:
  1) Chemistry;
  2) Compressed Air;
  3) Nitrogen;
  4) Elettric Energy;
  5) Water.

- Preventive and predictive maintenance based on actual use of the components.

- Allarms

- Operator Login
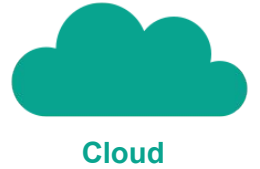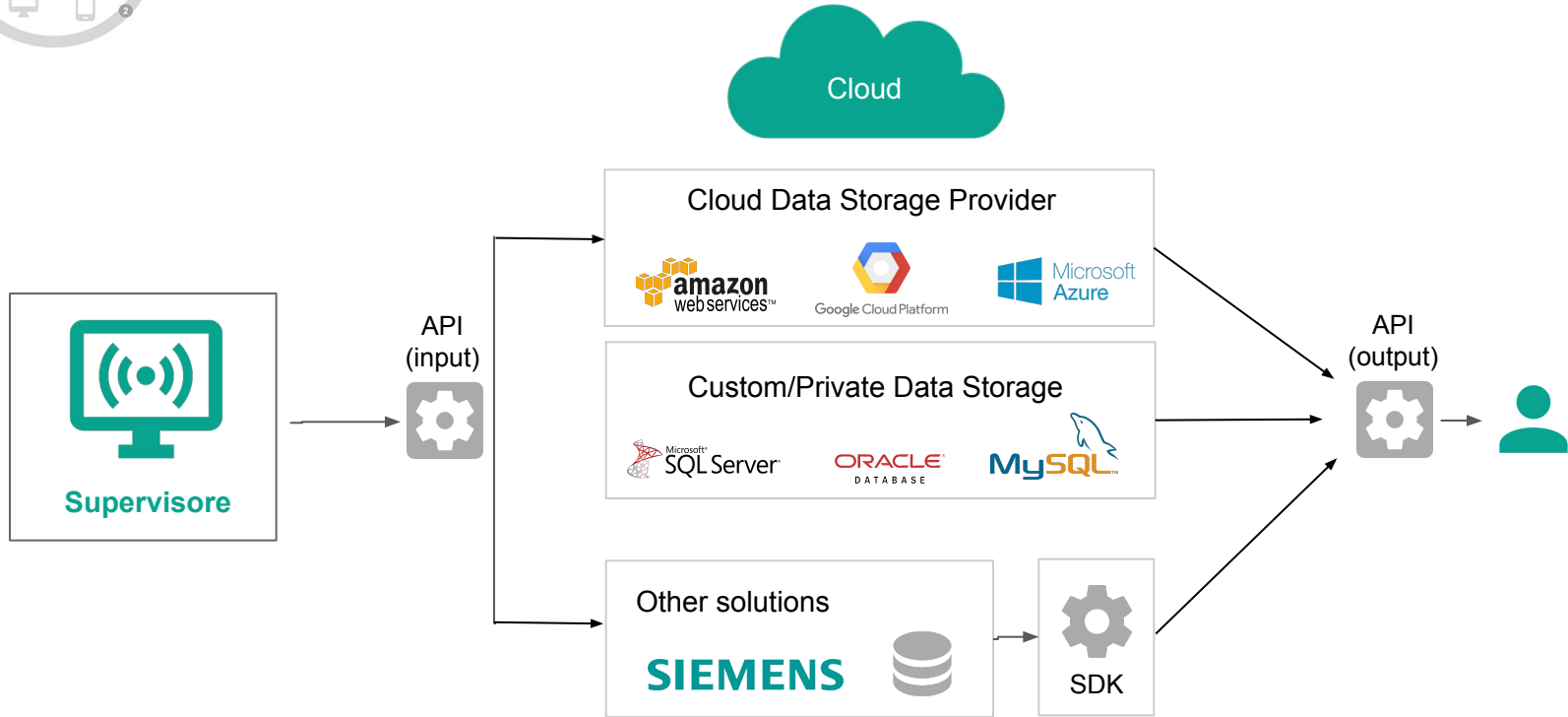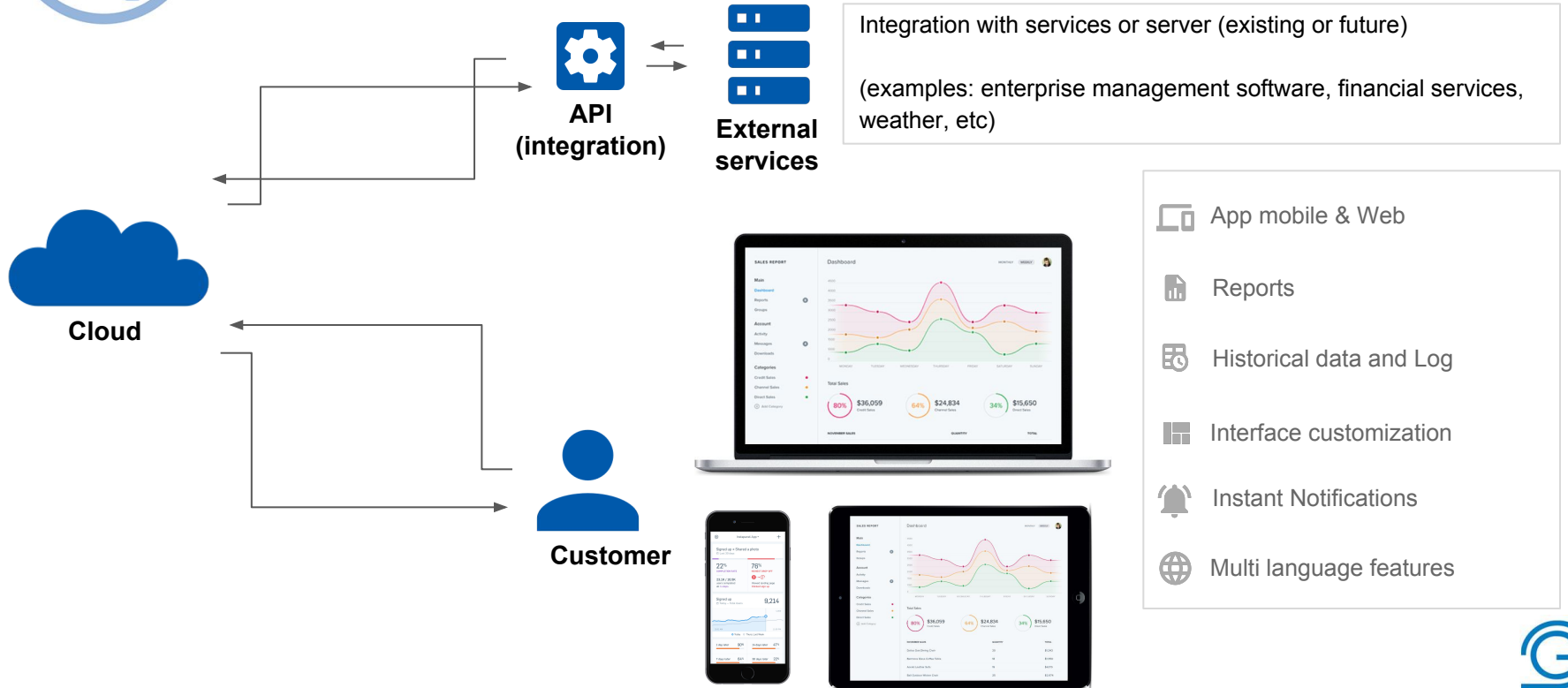
# Connessione

Interoperability of system and data collection 2/2

## 2 Digitalizzazione

Rapid access to information and tools for decision-making

**API (integration)**

**External services**

Integration with services or server (existing or future)

(examples: enterprise management software, financial services, weather, etc)

**Cloud**

**Customer**

App mobile & Web

Reports

Historical data and Log

Interface customization

Instant Notifications

Multi language features

G2 DI GHIOLDI SRL

**3** **Intelligence**

Data analysis and conversion into value



Transformation

**Data Analysis**

**Value**

- Preventive and predictive maintenance
- Optimization of energy consumption
- Reducing system downtime
- Performance analysis
- Optimization of business processes