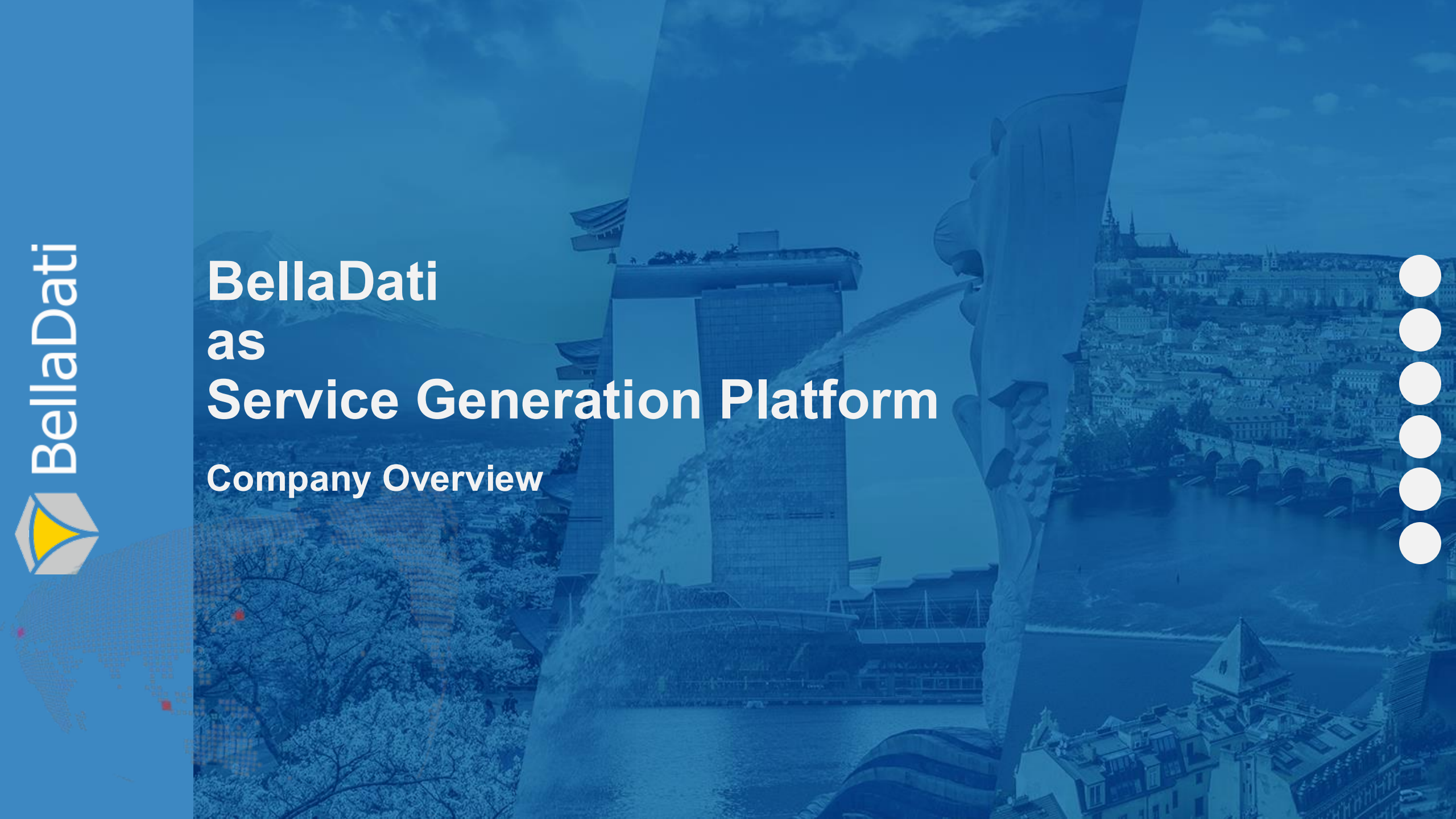


BellaDati

BellaDati as Service Generation Platform

Company Overview

BellaDati

Contents

BellaDati

01 BellaDati

BellaDati Group

•Predecessor Company Founding	: Founded in 2006 in the Czech Republic
•Establishment of BellaDati	: Founded in 2013 in Singapore
•Headquarters	: Singapore
•Branches	: Japan, Czech Republic Aoyama Palacio Tower, 11th Floor, 3-6-7 Kita-Aoyama, Minato-ku, Tokyo
•Provided Solutions	: Service Generation Platform
•Business Model	: Partnership-based (OEM licensing, resale)
•Origin of Company Name & Logo	: Bella (Beautiful) Dati (Data) Lotus Flower

BellaDati Solutions Overview

Industrial

Factory Overview
Gain immediate insights into production with BellaDati.

IoT Data Applications
Transforming sensor data into practical intelligence.

Advanced analytics

Embedded Analytics
Empower your software with Embedded intelligence.

Business Intelligence
Deep insights, smarter decisions, faster results.

Drone Applications
Aerial analytics made simple.

Integrated IoT

IoT Data Platform
Seamless connectivity for all devices

Embedded IoT (Software)
IoT enabler within your apps

Embedded IoT Hardware
Smart Devices: BellaDati Inside

Embedded IoT (for Software) Accelerating Digital Transformation Within Your Apps

Key Challenges

- Existing software platforms lack robust IoT data handling.
- Integration with enterprise systems is time-consuming and costly.

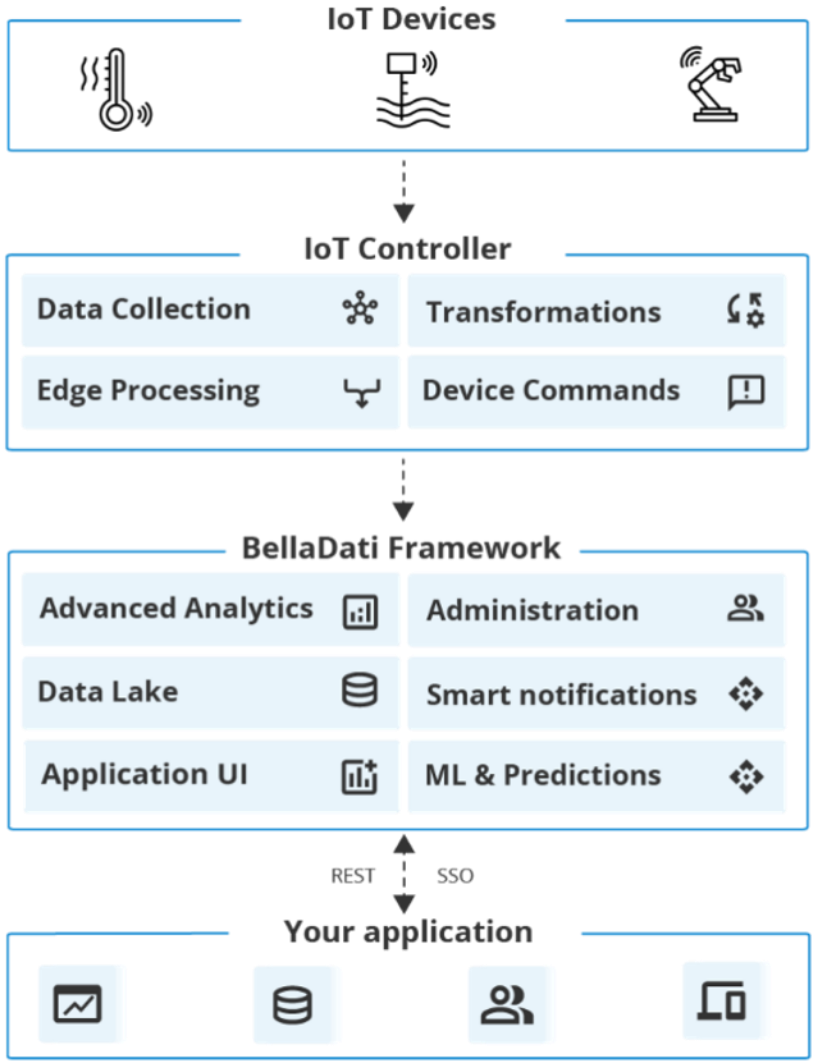
BellaDati Solution

- Embeds an IoT data pipeline within your existing software architecture.
- Provides a configurable rules engine for automated actions and alerts (e.g., sending notifications, triggering workflows).
- Offers real-time dashboards for your users, all accessible within your core software interface.

Success Story

- OEM integration of IoT and analytics into an existing PLM system enables real-time feedback from connected products in the field.
- eCall telematics solution embedded into call center system enables immediate response to emergency requests.

"Leverage existing infrastructure while adding advanced IoT capabilities."



Factory monitoring
Real-Time production insights with BellaDati

Key Challenges

- Data is available in multiple systems
- Implementation requires integration of many expensive modules
- KPIs are not updated timely

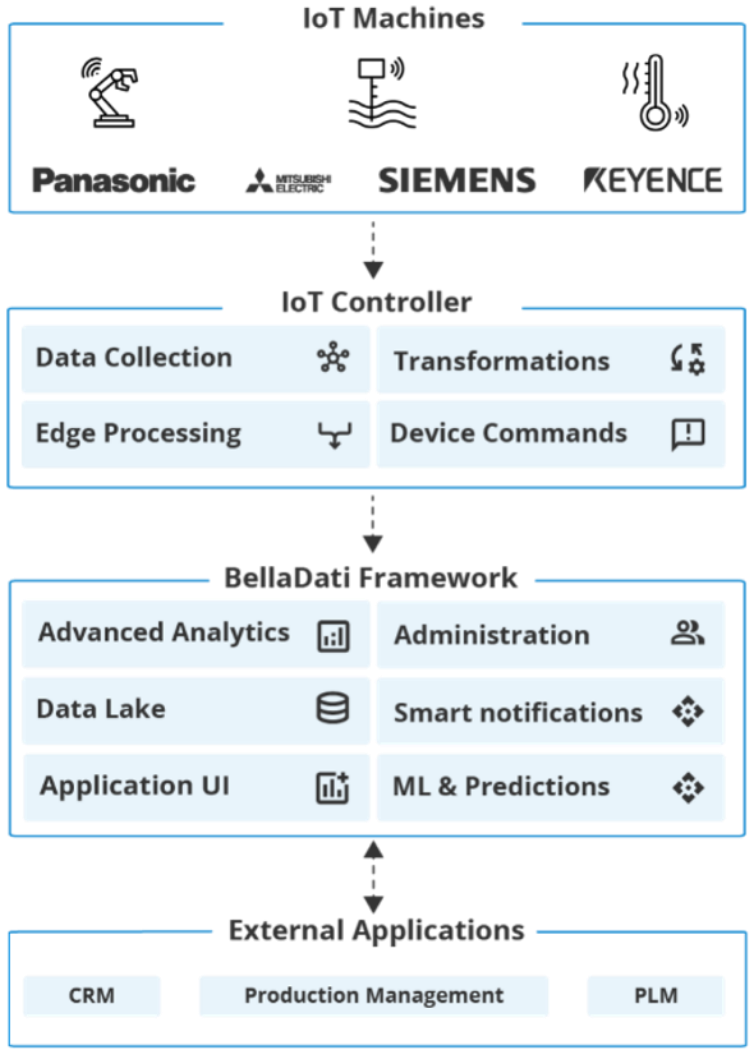
BellaDati Solution

- Collect data from multiple machines into single application
- Fully customizable UI with native analytics features
- Human tracking data features are available
- Predictive maintenance to avoid downtimes
- Native modules for rapid integration with other systems (Production, CRM and others)

Success Story

- Unique solution for collecting data from all manufacturers to support downtime reduction
- UI customized to support the customers manufacturing process
- Integration with production management system

“Configuration of new devices (Connect > Collect > Visualise > Send alerts) takes minutes!” ”Solution can run on-premise, in cloud or hybrid”



Embedded Analytics
Empower your software with Embedded intelligence

Key Challenges

- Developers spend significant time building analytics features from scratch
- Static reports lack interactive insights that end user demand

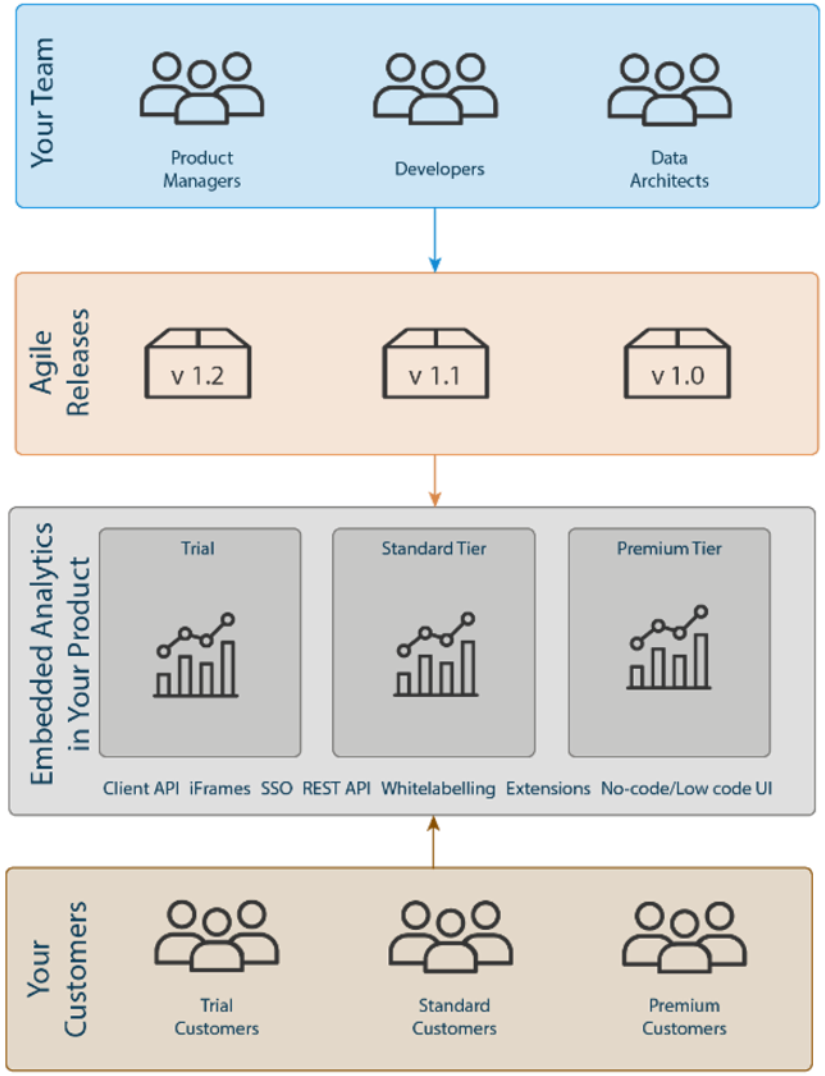
BellaDati Solution

- Embeds BellaDati dashboards directly into your web or mobile application via iFrames or API.
- Offers fully customizable reports, charts, and drill-downs without complex coding.
- White labeling and multi-tenant features support flexible deployment.

Success Story

- ■Software vendor embedded BellaDati as reporting tool for financial operation tool (https://gms.dentsusoken.com/cix/)
- ■Solution provider embedded BellaDati into hospitality application for reporting and data entry

"Reduce development cycle and get to the market faster."
"Empower your software with existing features."



IoT Data Applications
Turning sensor data into actionable intelligence

Key Challenges

- Sensor data overload makes insights difficult
- Disconnected data streams delay critical actions

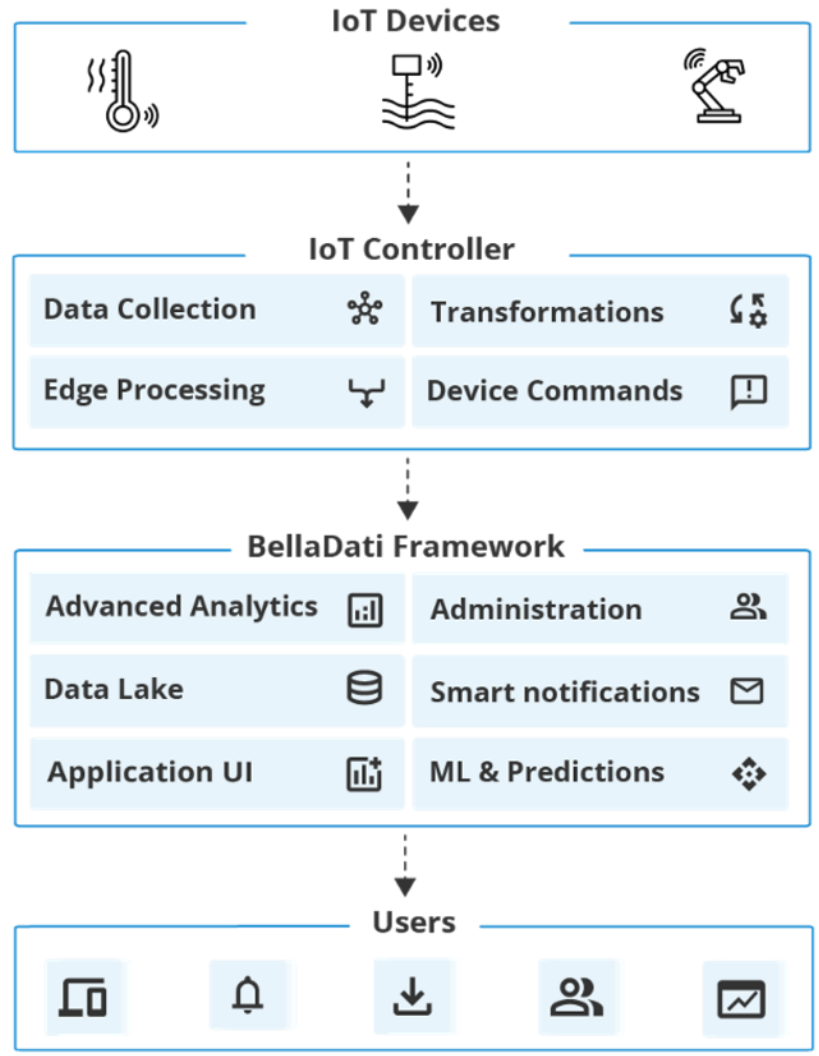
BellaDati Solution

- Collect real-time data from multiple sensors and data sources
- Data are available inside one application
- Flexible non-code/low-code UI
- Complete solution in one package (Data connection/collection > ETL > Data storage > Application UI > Administration)
- Predictive maintenance

Success Story

- Comprehensive fleet management platform for construction and special vehicle industry
- Smart parking solution that leverages camera footage to analyze parking occupancy in real-time to support parking lot management

“Rapid data ingestion from various IoT device types.”
“Flexible integration with the existing systems.”



Embedded IoT (for Hardware) Smart Devices: BellaDati Inside

Key Challenges

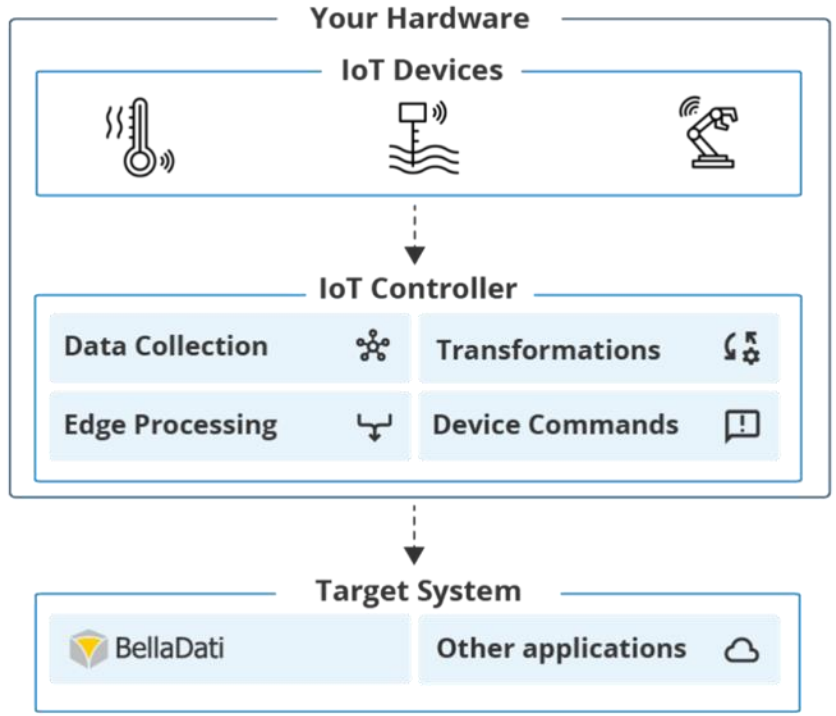
- Traditional devices need real-time analytics capabilities built in.
- Integration of the IoT features is a complicated process.

BellaDati Solution

- ■Provides modules to run processing on edge devices or gateways.
- ■Minimizes latency by processing sensor data locally with offline capabilities.
- ■Synchronizes data to the cloud for long-term storage and advanced analytics.
- ■Wide range of communication protocols is available out-of the box (PLCs, OPC UA, MQTT and others)

Success Story

■Factory PC provider embedded IoT capabilities into their system, enabling real-time machine and environmental status monitoring, which significantly reduced downtime and improved operational efficiency.



"Enhance device intelligence without costly hardware overhauls."

Business Intelligence (Advanced Analytics)
Deep insights, Smarter decisions, Faster results

Key Challenges

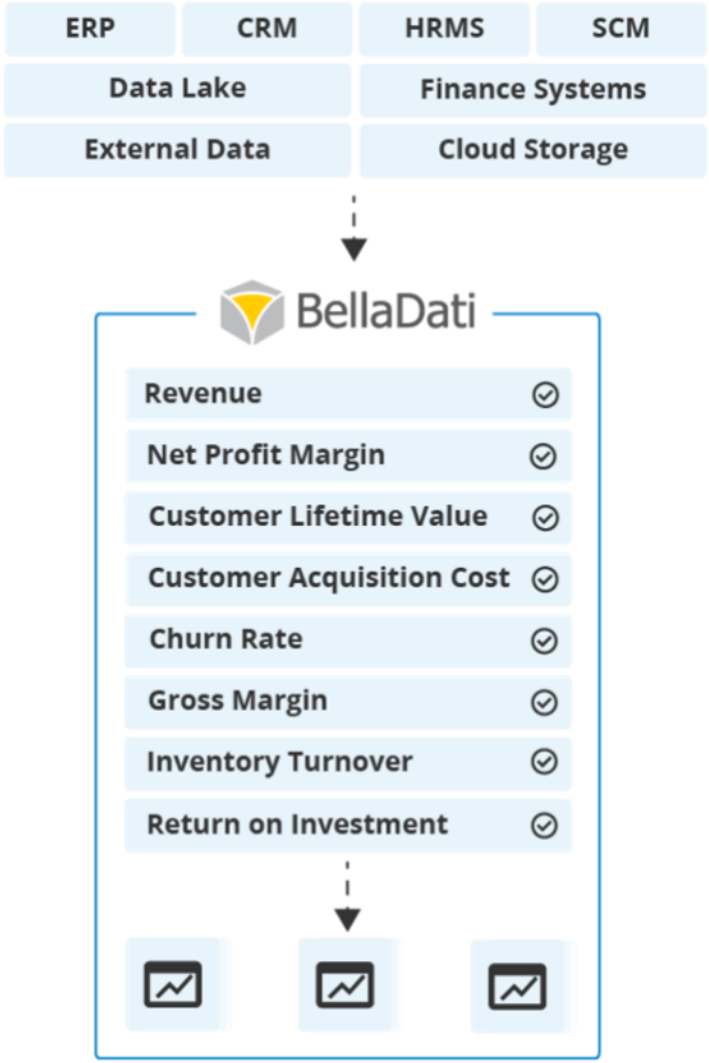
- Complex data and analytics projects slow down business decisions.
- Static reporting prevents businesses from acting proactively.

BellaDati Solution

- Provides intuitive tool for advanced analytics
- Enables rapid creation of interactive dashboards and real-time reports
- Integrates seamlessly with existing business systems (ERP, CRM, databases) for end-to-end analytics

Success Story

- Software vendor uses BellaDati as data analytics module for his application focused on data center monitoring
- Retail company uses BellaDati as self-service BI for monitoring of financial KPIs across 8 countries



"Enable advanced analytics capabilities without reliance on data scientists."

IoT Data Platform for Data Integration
Seamless connectivity for all your devices

Key Challenges

- Different IoT devices speak different protocols, complicating data integration
- Complicated handling of velocity and variety of IoT data

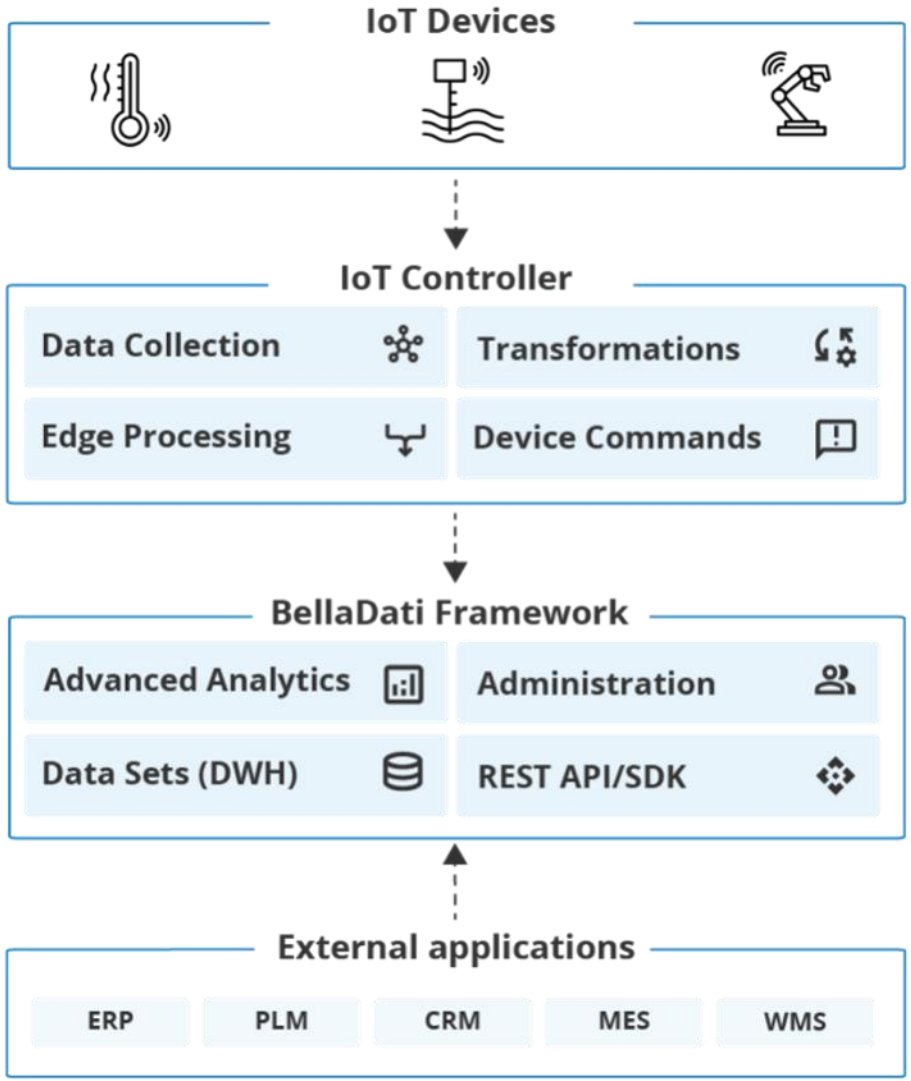
BellaDati Solution

- IoT controller for integration of various IoT protocols (MQTT, HTTP, OPC UA etc.)
- Real-time data transformation and processing at the edge or cloud
- Big datawarehouse
- Flexible API for communication with other enterprise systems (ERP, CRM etc.)
- Designed for self-service controls

Success Story

- Smart building management system from smart meters monitors energy usage, optimize resource consumption and enhance operational efficiency.
- Fleet management data are provided as data platform available to the 3rd party subscribers.

"Integrate data from all required sources in days."



Drone Applications
Aerial Analytics Made Simple

Key Challenges

- Capturing high volume imagery or sensor data is time consuming to analyze
- Data is not integrated with existing enterprise workflow

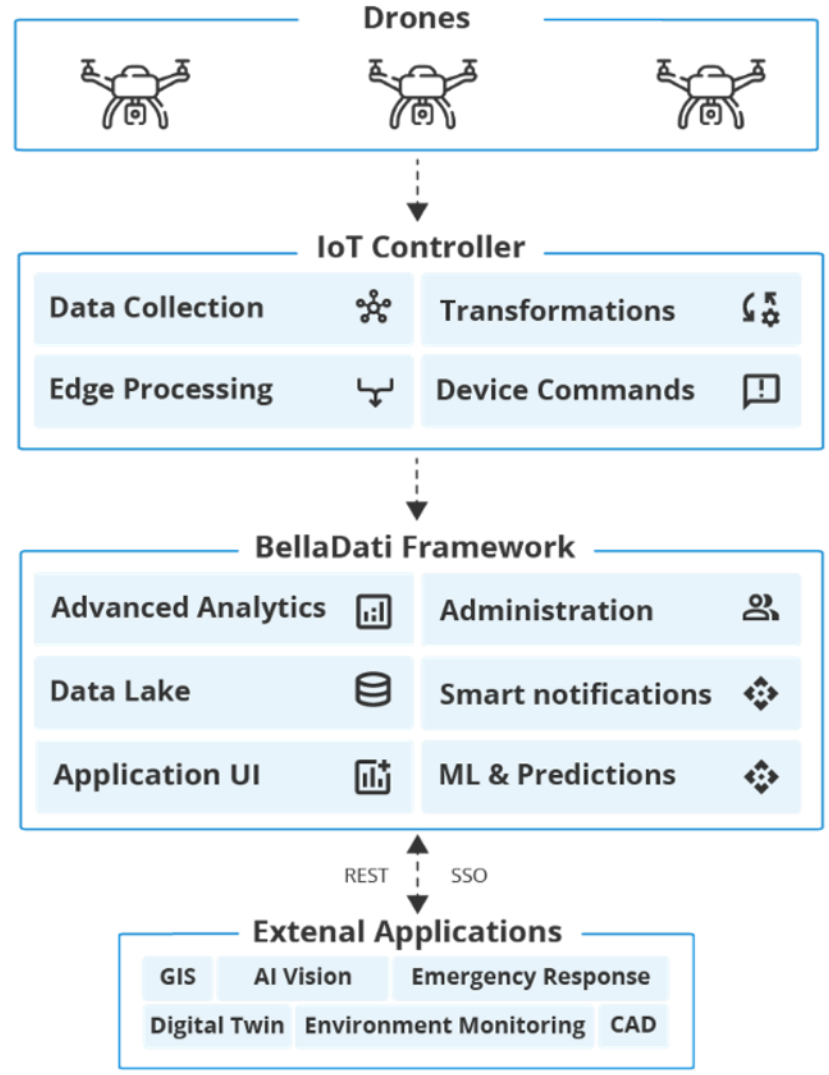
BellaDati Solution

- Integration of drone imagery and sensor data into BellaDati platform
- Automated processing and categorization of images and sensor outputs
- Integration with the existing GIS
- Easy to build UI for the land/wood analysis, crop or damage detection

Success Story

- Drone analytics for forestry monitors forest health, tracks growth patterns resulting in more accurate data collection, faster decision making and significant reduction of manual field inspections
- Mining authority monitors old mine areas, enabling early detection of sudden ground subsidence.

"Scale from pilot project to full enterprise deployment in days"



BellaDati's Vision

Maximizing Investment Efficiency by Rapidly Generating Digital Services – Aiming to be the OS for IT Resources

Achieve all-in-one service construction for any business scenario

A platform that enables easy service development

Connect people, devices, and data seamlessly

Service Generation Platform

A lightweight, standardized application development module that spans multiple layers. Providing IoT service development with speed, from cloud integration to on-premise deployment, connecting people, devices, and data – the standard OS for service creation.

Visualization | IoT | Application | Analyze | Edge Computing | Data Interface

- Activity & Sensor Data from In-house Equipment, Machines, and Devices
- Operational Data
- Application Transaction Data
- +External Equipment & Machine Data
- +Environmental Data

What the Service Generation Platform Can Achieve

Challenges in Digital Service Generation

- Achieve all-in-one service construction for any business scenario
- Need a fast and easy way to test
- Have service ideas but require a clear roadmap for implementation and monetization

Target Customers : Businesses and departments considering various internal and external service developments.

Businesses seeking a unified service platform, including SI companies, manufacturers, and service providers.

All-in-One Service Generation

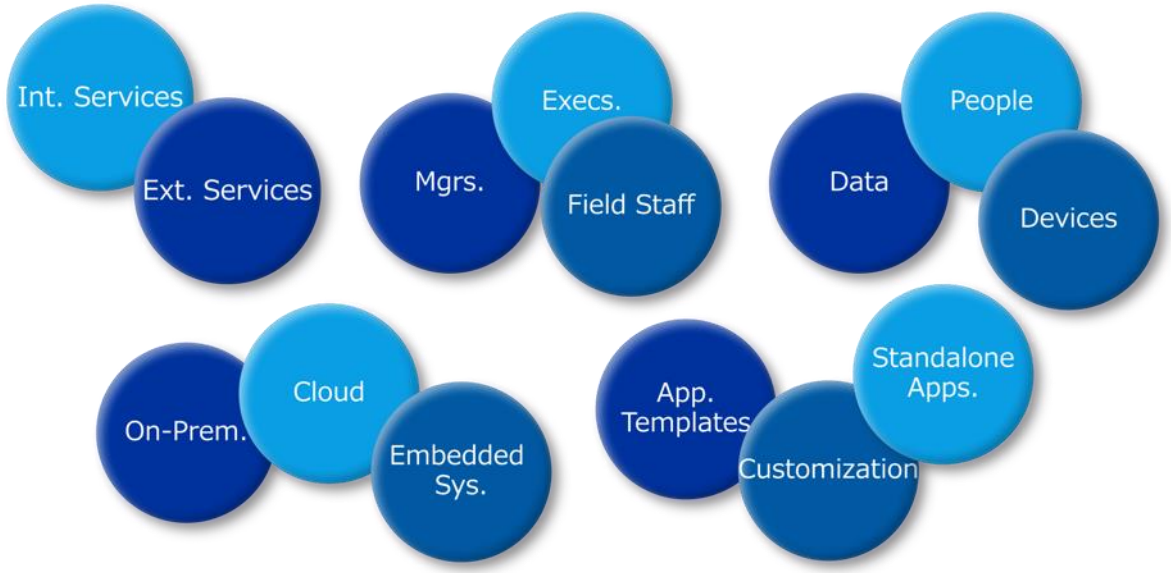
Service Generation Platform

What the Service Generation Platform Can Achieve

Integrated Functions Across Multiple Layers

- Visualization
- IoT
- Application
- Analyze
- Edge Computing
- Data Interface

Highly Customizable for Various Use Cases



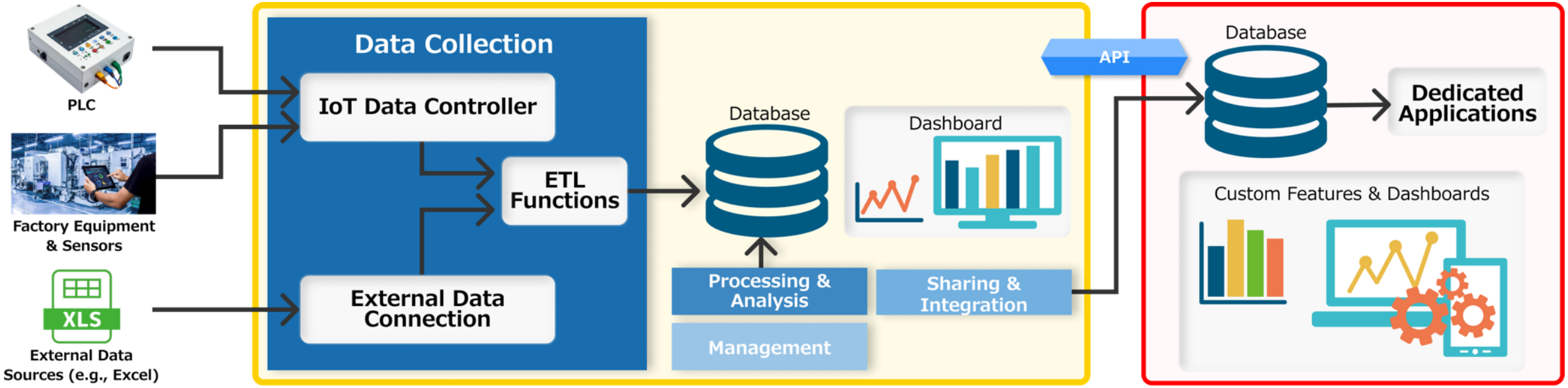
Key Strengths of BellaDati

A comprehensive solution combining quality, cost-efficiency, rapid delivery, and scalability

Versatility: Supports both external service generation and internal engine integration

Fast implementation: Enables POC development within three weeks

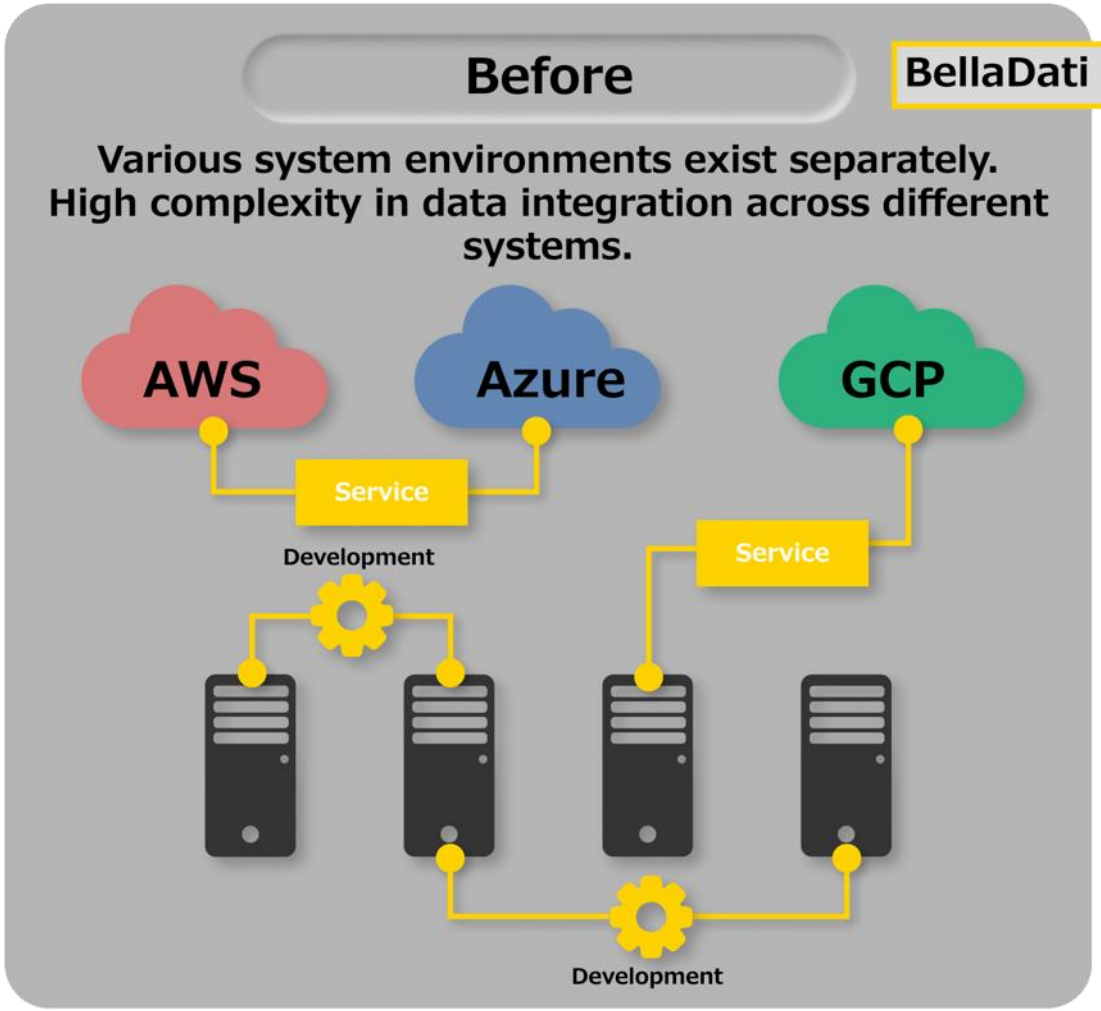
Overview of Service Generation Platform

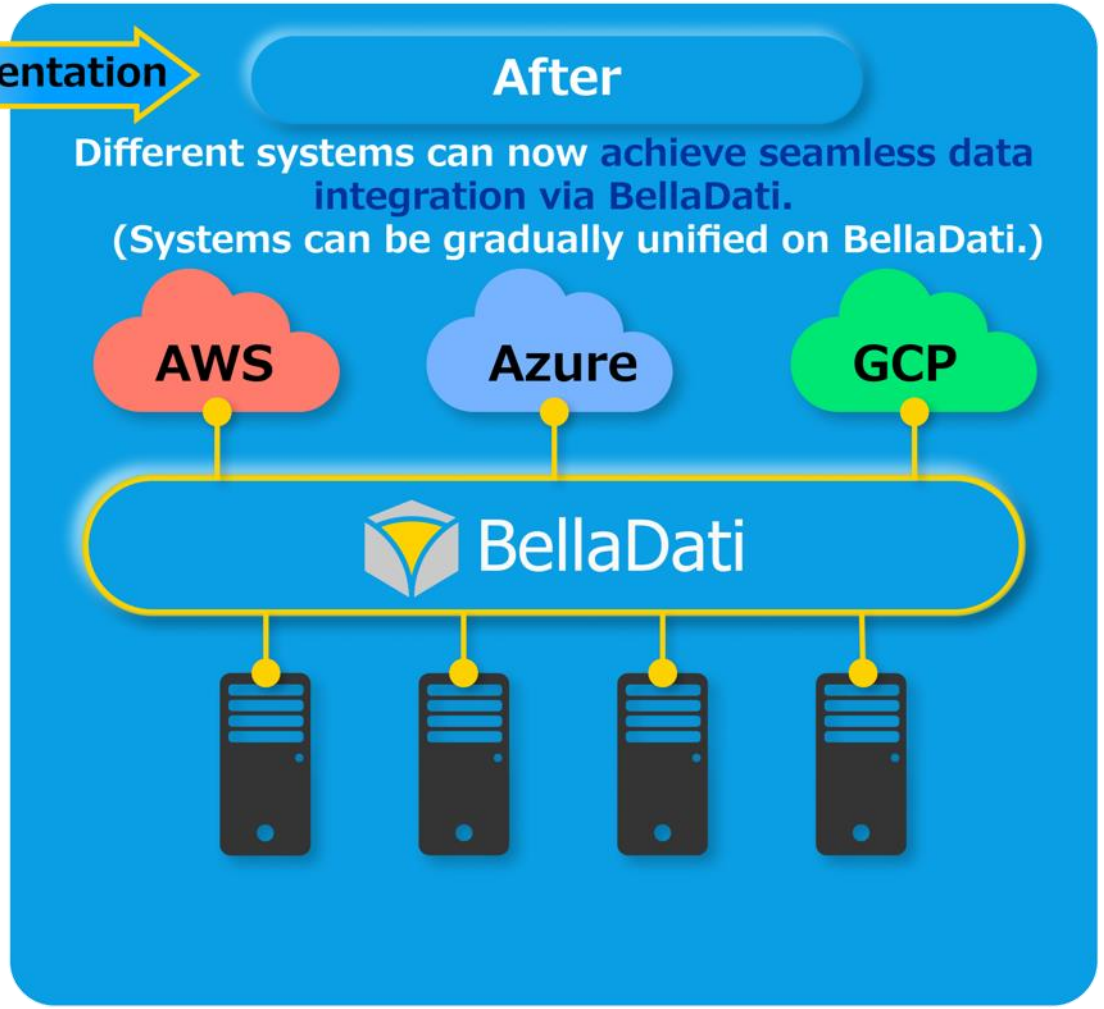


Data Collection	**IoT Data Controller** Collects data from sensors by specifying protocols and data types.	**External Database Connection** Imports data from external databases, applications, and HTTP sources.
Processing & Analysis	**Analysis Functions** Creates graphs and tables from collected data for analysis.	**Alert Notifications** Sends email alerts when threshold values are exceeded.
	Dashboard Allows data, record, and report-level permissions settings	
	Data Processing & Editing Data transformation, processing, GUI settings, and calculations.	**Location Information** Analyzes location-based data, including movement history and regional aggregation.
Sharing & Integration	**Flexible Access Control** Sets permissions at the data, record, or report level.	**API** Integrates data and reports via API with other systems.
	Data Output Exports data and reports in XLS, PDF, PPT formats, with automatic email sending.	
Management	**Admin Functions** User creation, permission settings, screen customization (HTML editing), and other shared settings.	

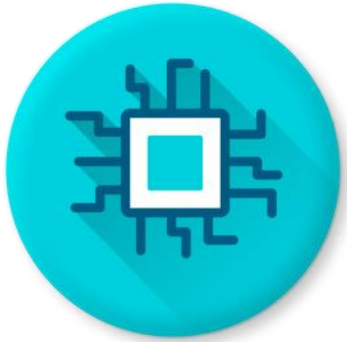
Versatile Data Collection & Storage

- Supports multiple platform coexistence, enabling efficient use of existing assets
- ETL functions enable data aggregation on BellaDati from various file and database formats.
- If a new protocol gains market adoption, BellaDati R&D will develop and provide the necessary connectors





Key Features



IoT Controller
Collects and transfers data from sensors

Real-time API & SDK
Acquires and processes data in real-time

ETL & Data Cleaning
Prepares data for analysis and improves data quality

Big Data Warehouse
Aggregates large-scale data for efficient storage and analysis

Machine Learning & Statistics
Learns patterns and trends from data for predictive modeling

Agile BI
Quickly generates analytical reports

Geo Data & Visualization
Uses location data for spatial analysis and visualization

Multi-Domain Cloud
Centralized management of multiple domains and applications

BellaDati

02 Key Implementation Case

Cost-Effective Remote Visualization of Large-Scale Equipment

Collect | Store | Viz. | Anal. | Deploy

Customer Challenges

- Typhoon No.15 (2019) caused prolonged power outages in Chiba, making it difficult to track EV status.
- Difficulties in tracking EV location, contact details, charging status, and availability.
- Kanagawa Prefecture sought a solution.

Solution

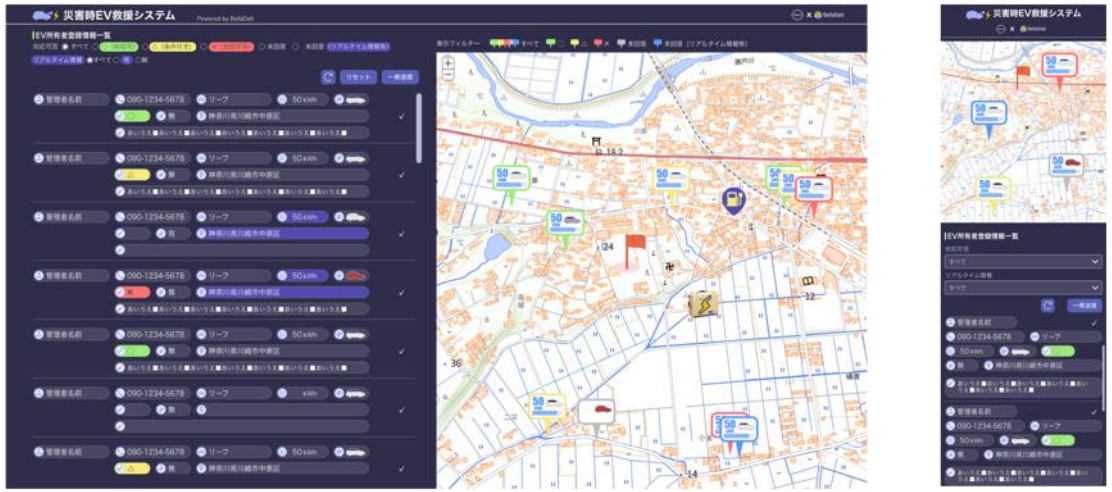
- Digitization streamlined EV support operations.
- Blueswitch's automation enabled a structured process for EV assistance during disasters, allowing for quick dispatch decisions based on driver responses.

Effects

- 導入効果
  2時間かかっていたEV派遣判断が2分となる。（模擬訓練で実証）

Solution Image

- Global use cases are pre-configured, reducing lead time for implementation.



Implementation Process

- UI development completed in 1 week
  Leveraged proven templates from similar cases for rapid UI implementation.

Rapid Visualization of EV Support Operations During Disasters

Collect | Store | Viz. | Anal. | Deploy

Customer Challenges

- Typhoon No.15 (2019) caused prolonged power outages in Chiba, making it difficult to track EV status.
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Solution

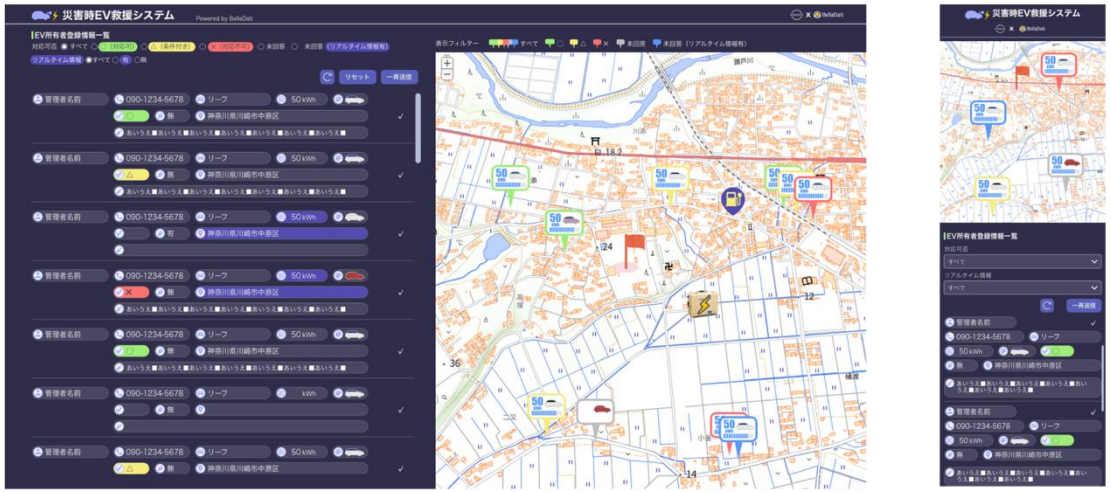
- Digitization streamlined EV support operations.
- Blueswitch's automation enabled a structured process for EV assistance during disasters, allowing for quick dispatch decisions based on driver responses.

Effects

- Dispatch decision time reduced from 2 hours to 2 minutes (validated through simulation).

Solution Image

- Global use cases are pre-configured, reducing lead time for implementation.



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Enhancing Factory Productivity with Multidimensional Analysis

収集 蓄積 可視化 分析 サービス化

お客様課題

- Improving factory productivity
  - ・ Visualizing operational status
  - ・ Identifying bottlenecks that hinder productivity

方策・提案

- Visualizing of order-based manufacturing processes
  - ・ Collecting equipment operation data & tracking personnel & assets
  - ・ Enhancing production plan visibility for real-time progress tracking

導入効果

- Implementation Effects
  Productivity increased by ~30% （Reduction in verification tasks & equipment downtime）

Solution Image

- Low-code/no-code UI development enables end-customer service offerings.

※Collects and analyzes 450 columns per order from the production management system.

✓Production planning incorporating equipment uptime & capacity
✓Error categorization & priority-based decision-making
✓Real-time equipment monitoring for site managers
✓Reduced verification workload for inspection items
✓Cost & BOM estimation from production data

BellaDati

03 Summary

Summary: Key Strengths of BellaDati

01 End-to-end software covering data collection, storage, visualization, analysis, and service deployment in a unified platform.

02 Supports both internal operations and external service offerings, enabling customers to deliver services to their end-users.

03 Pre-configured global use cases and system integration connectors facilitate rapid implementation.

BellaDati

THANK YOU!

For more details, please contact us at contact@belladati.com