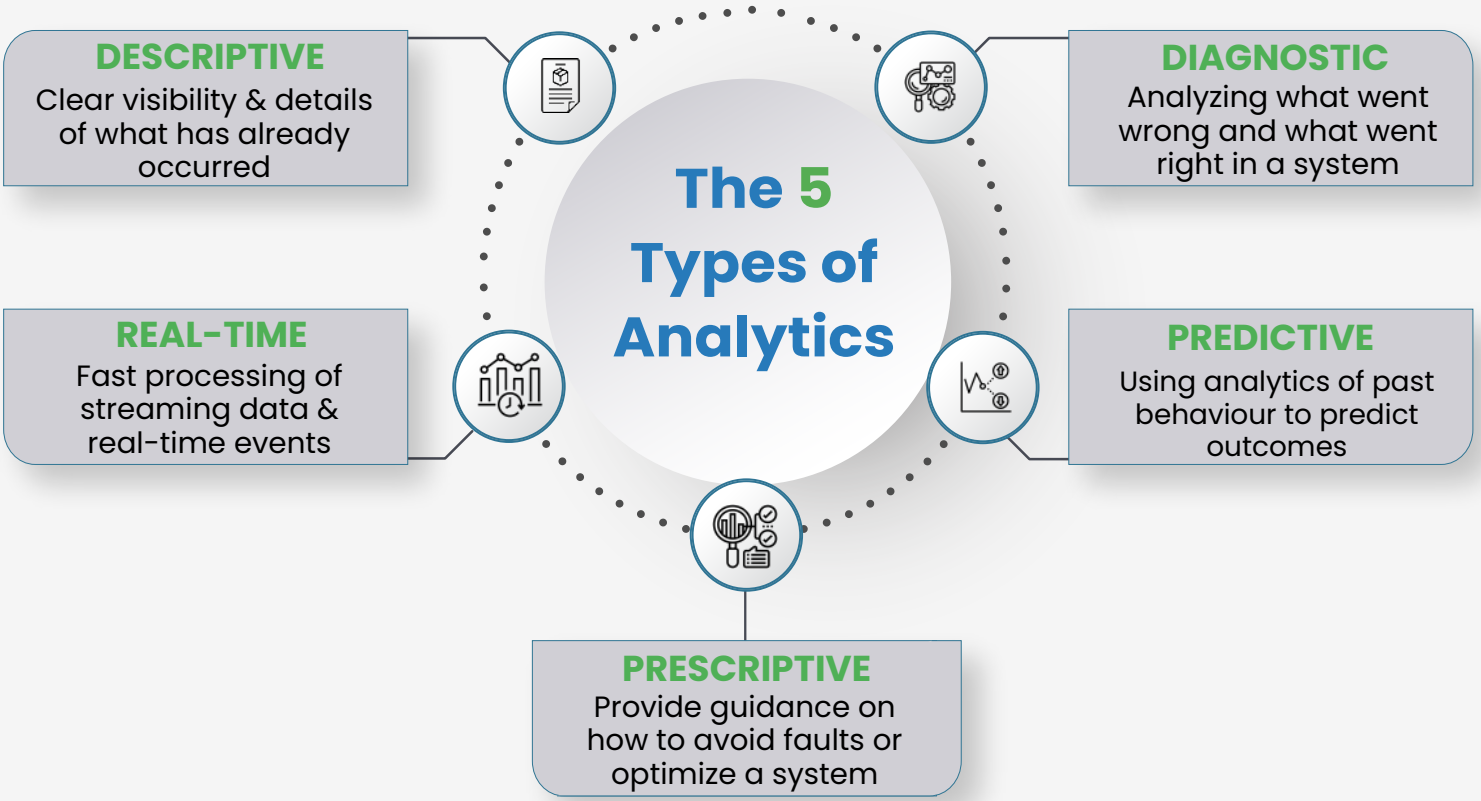
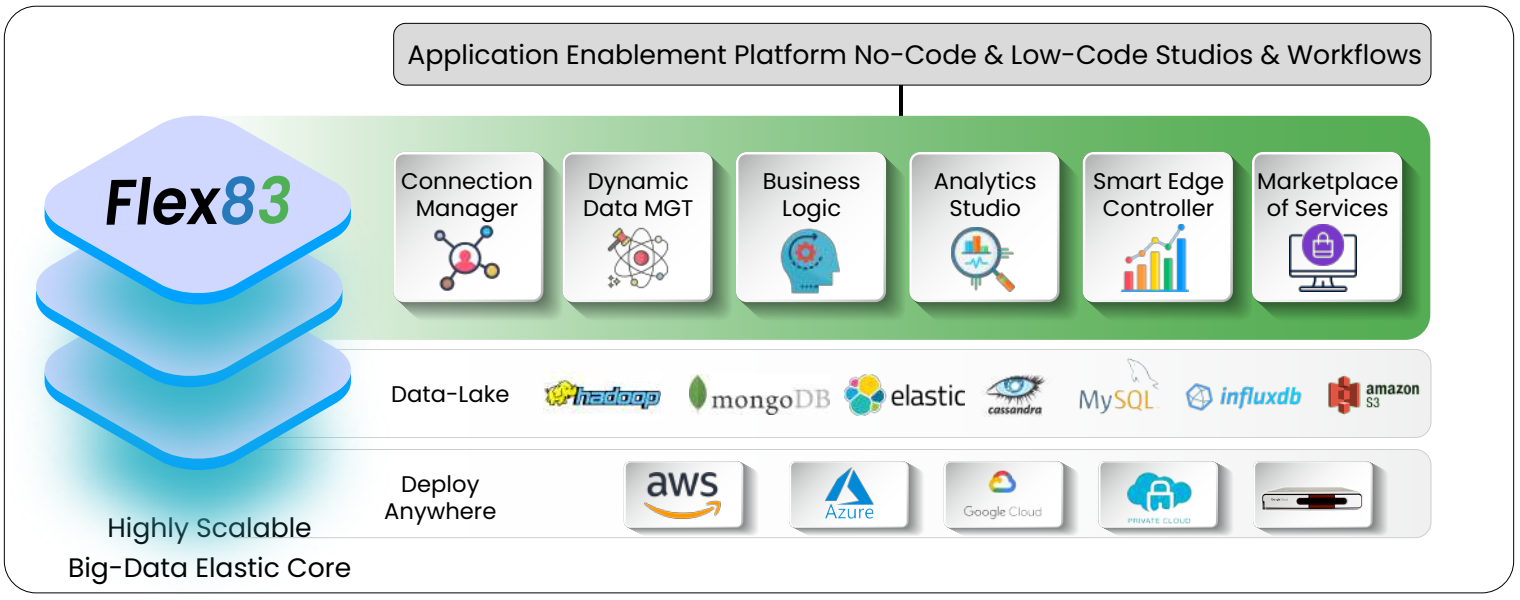
Build/Enhance IoT/OT Applications with Flex83's Analytics Engine

Analytics is at the very heart of IoT - enabling system-wide process visibility and with the right analysis processes, providing insights and understanding to make huge strides forward in business productivity and profits.

How Flex83 Application Enablement Platform (AEP) Enables Analytics

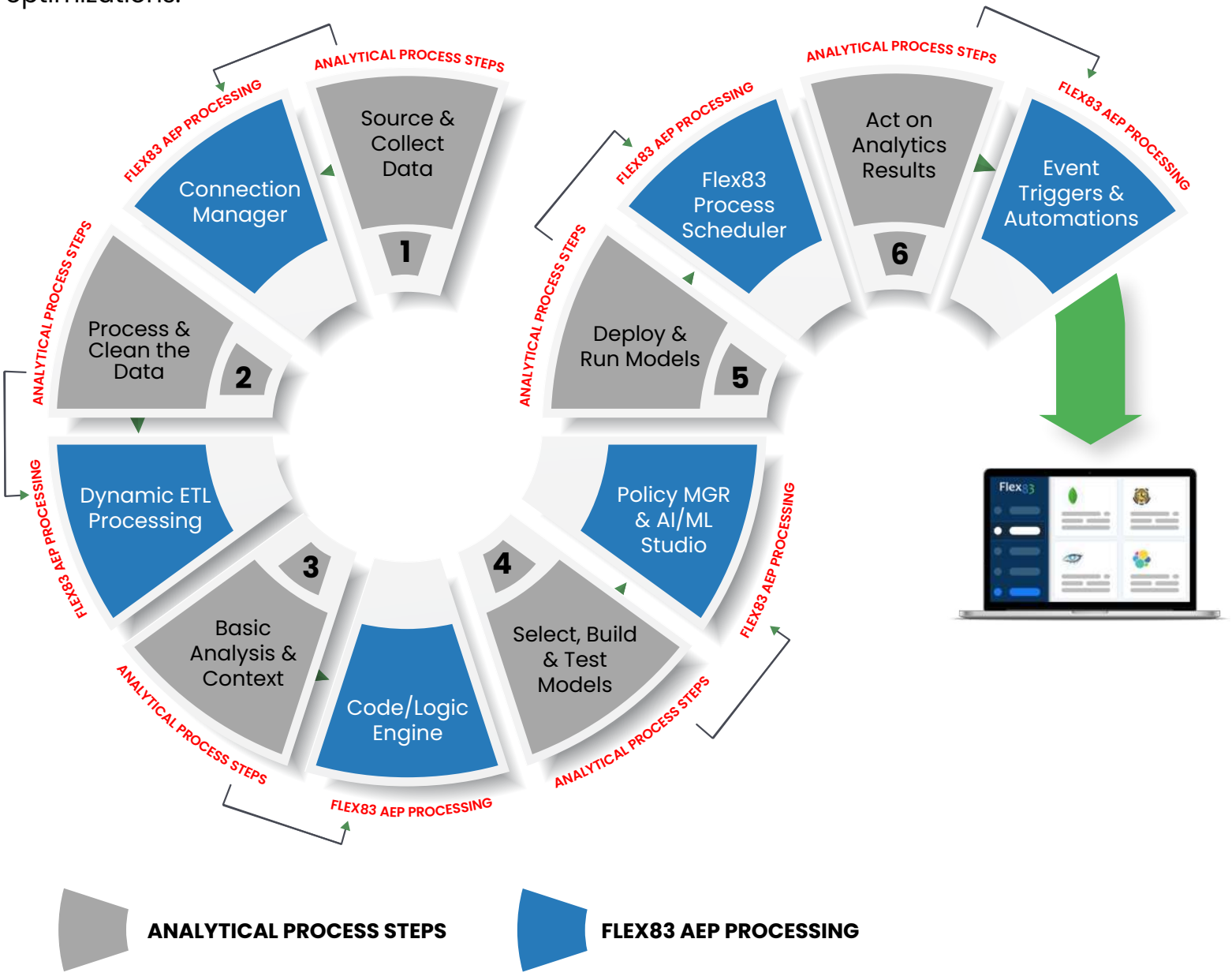


The Flex83 Application Enablement Platform (AEP) consists of the highly reliable & scalable IoT elastic core that provides full "run anywhere" portability, along with a full set of no-code and low-code big-data collection, transformation, visualization, and analytical tools and workflows - All to make it easy to build, validate and deploy custom applications & solutions.



Flex83's Analytics Workflow

Our Flex83 Application Enablement Platform (AEP) has been designed to streamline the entire analytical process for clear system-wide visualization & real-time insights and to provide all the tools needed for clear diagnostics, predictions, and even prescriptive system optimizations.

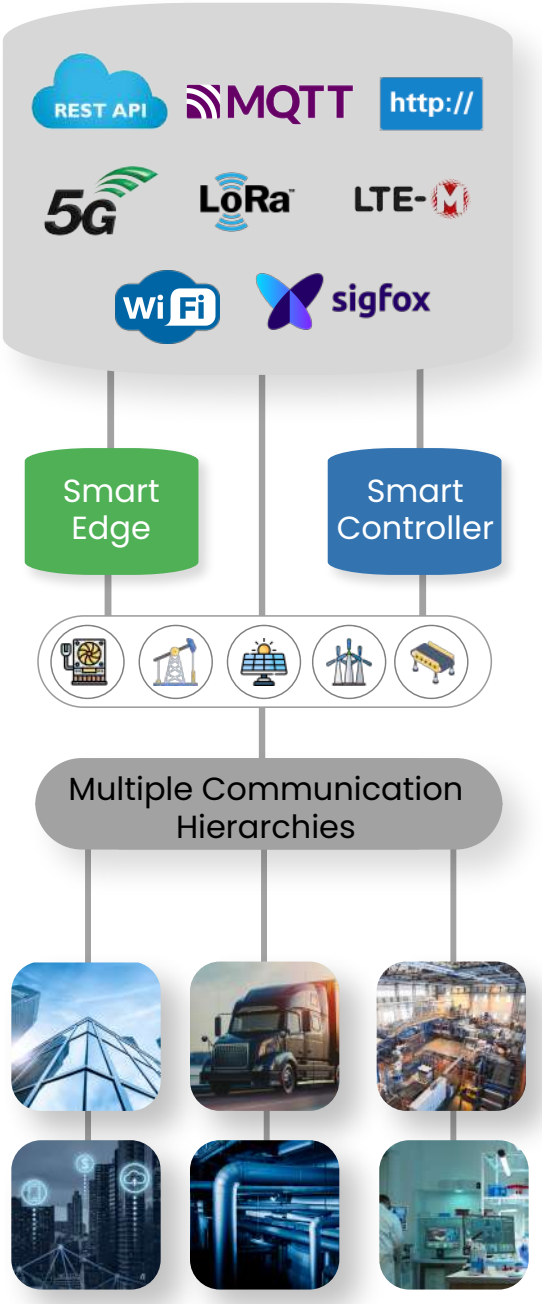


You can have an immediate impact by using the Flex83 IoT no-code solution where you can easily connect IoT devices and "click-to-configure" a complete visualization & analytics solution. Next, you can add new layers of value and fully customized your application using the rest of the Application Enablement Platform (AEP) low-code tools workflows

Flex83 Application Enablement Platform Analytics

The Flex83 Application Enablement Platform (AEP) Analytical tools from simple "action on event" policy management, to complex combinations-based policies, to user-defined function logic, to full digital twin and AI/ML model Building and deployment. The easy-to-manage platform workflow also lets you iteratively enhance your solutions over time.

Diverse Sensors & Smart Edge Devices



Asset Data

Remediation

Analytics Priorities Driven by Business KPI Goals

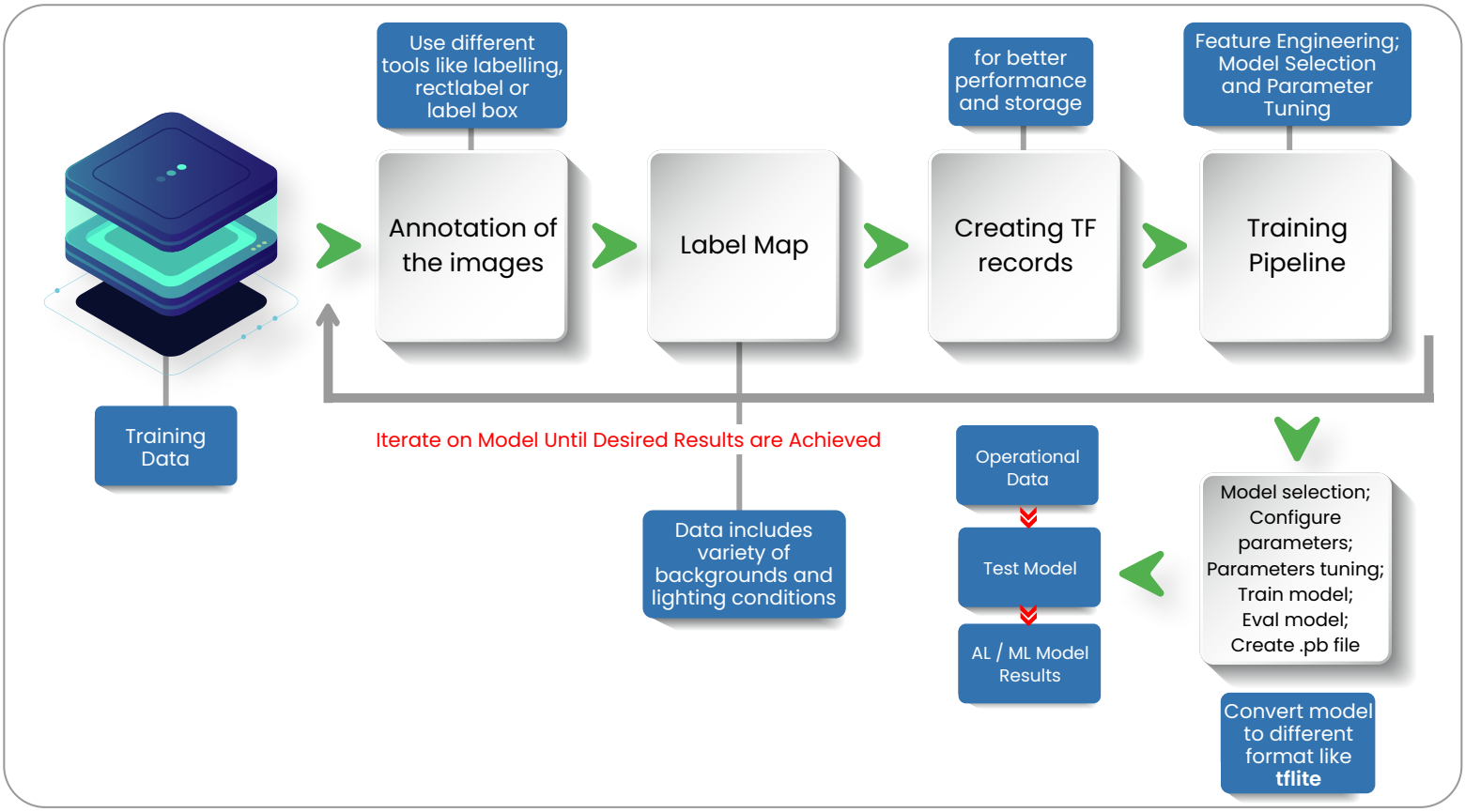
- **A** Trigger on Event: Simple & Fast Results
- **B** Algorithms: Rule-Based Telemetry Tests
- **C** Digital Twin: More Complete Modelling
- **D** AI Ops: ML / AI Insights & Prescriptions

Recommendations / Actions

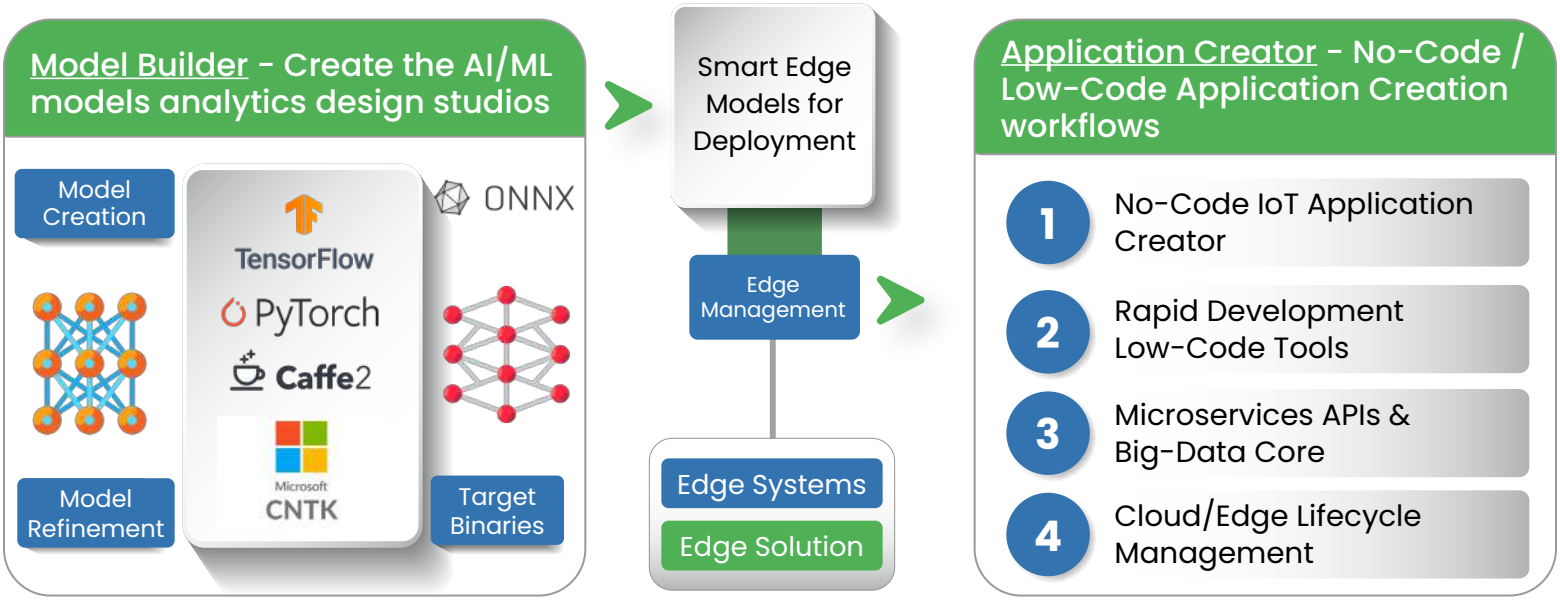
Operations, Business & Service Optimization

Flex83 Application Enablement Platform Analytics

The Flex83 AI/ML Studio incorporates AutoML to simplify model building, but also provides full model building workflows as well as audio & video analysis and object recognition workflows.



Flex83 also lets you Build on the Cloud & Deploy on the Edge with cloud/edge integration workflows. Build models using the AI/ML studio the deploy on the edge. Then build system wide analytics & insights solutions.



Flex83 Application Enablement Platform Analytics

The analytics **ENABLER**

The Flexs3 Application Enablement Platform (AEP) intuitive workflow lets you connect vitally anything, transform ingested data to a useful format, create custom business logic, and perform multiple layers of analytics - and then to use the analytics insights to interwork, automate & optimize your entire operation.

CONNECT ANYTHING
From IoT devices external databases, or 3rd party software

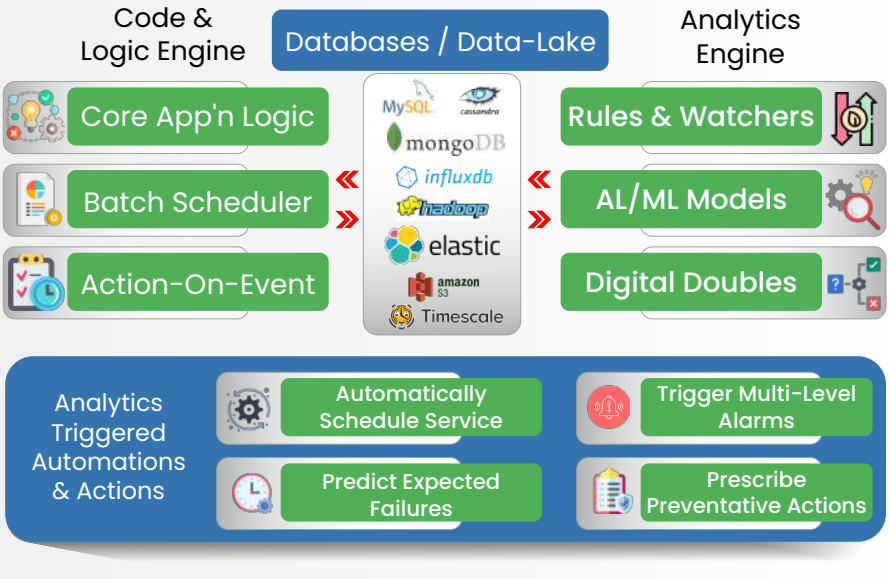
ANY DEVICE OR DATA
can be easily connected via the Flex83 Connection Manager

THE DYNAMIC ETL
gives you low-code simplicity to ingest and transform data & on-the-fly data enrichment

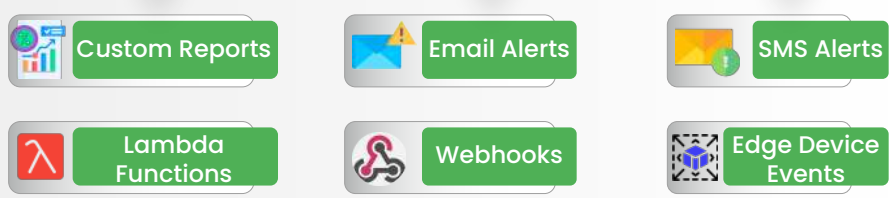
THE CODE ENGINE
is the heart of your application and the Analytics Coordinator

THE ANALYTICS ENGINE
Is rules, AI/ML model, and Digital Double based

ANALYTICS TRIGGERS
on conditions and events to automate system wide services and operational optimizations



EXTERNAL EVENTS
Coordinate the results of analytics insights with workers and other software systems



Benefits of Predictive Maintenance

- Less equipment down time
- Ability to catch problems earlier
- Savings on machine repairs
- Better environmental safety
- Better operational efficiency
- Higher product quality
- Better supply chain predictions
- More delighted customers
- Business results & profits

Build Your Solution With IoT83

1. **Deploy Sensors:** Collect the Data to Capture Real-Time Status
2. **Build a Baseline:** Understand "What is Normal" in your Devices & Systems
3. **Start Simple:** Use Your Domain Expertise to Build Rules & Event Thresholds
4. **Build ML Models:** Use AutoML & IoT83 Tools to Construct Model
5. **Integrate & Deploy ML:** Add Models to System Business Logic