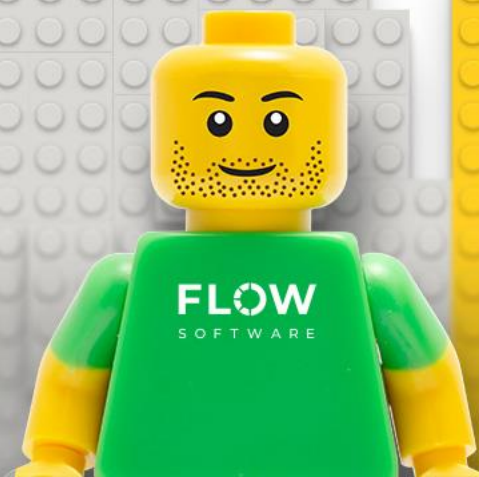
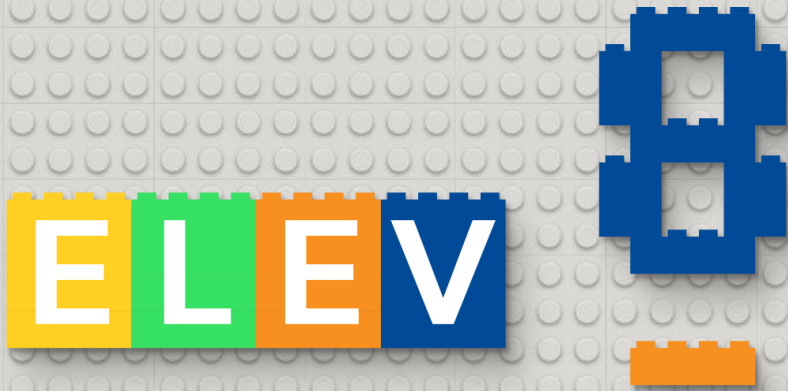


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BUILDING YOUR DIGITAL INFRASTRUCTURE



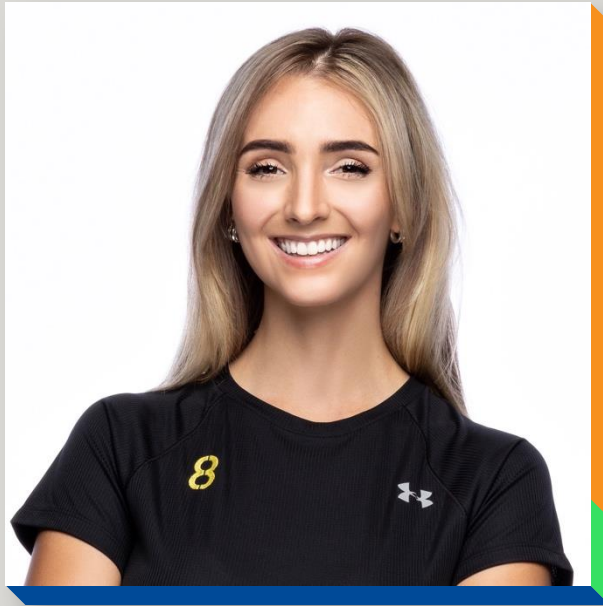


ENABLE

BUILD

EMPOWER

**How Digital
Transformation
Starts With SCADA**



Laura Strydom

Customer Success Engineer
Element8



What does “Platform” mean?

A platform is a group of technologies that serve as a foundation for other applications, processes, or technologies.



Why a “Platform”?

Drivers

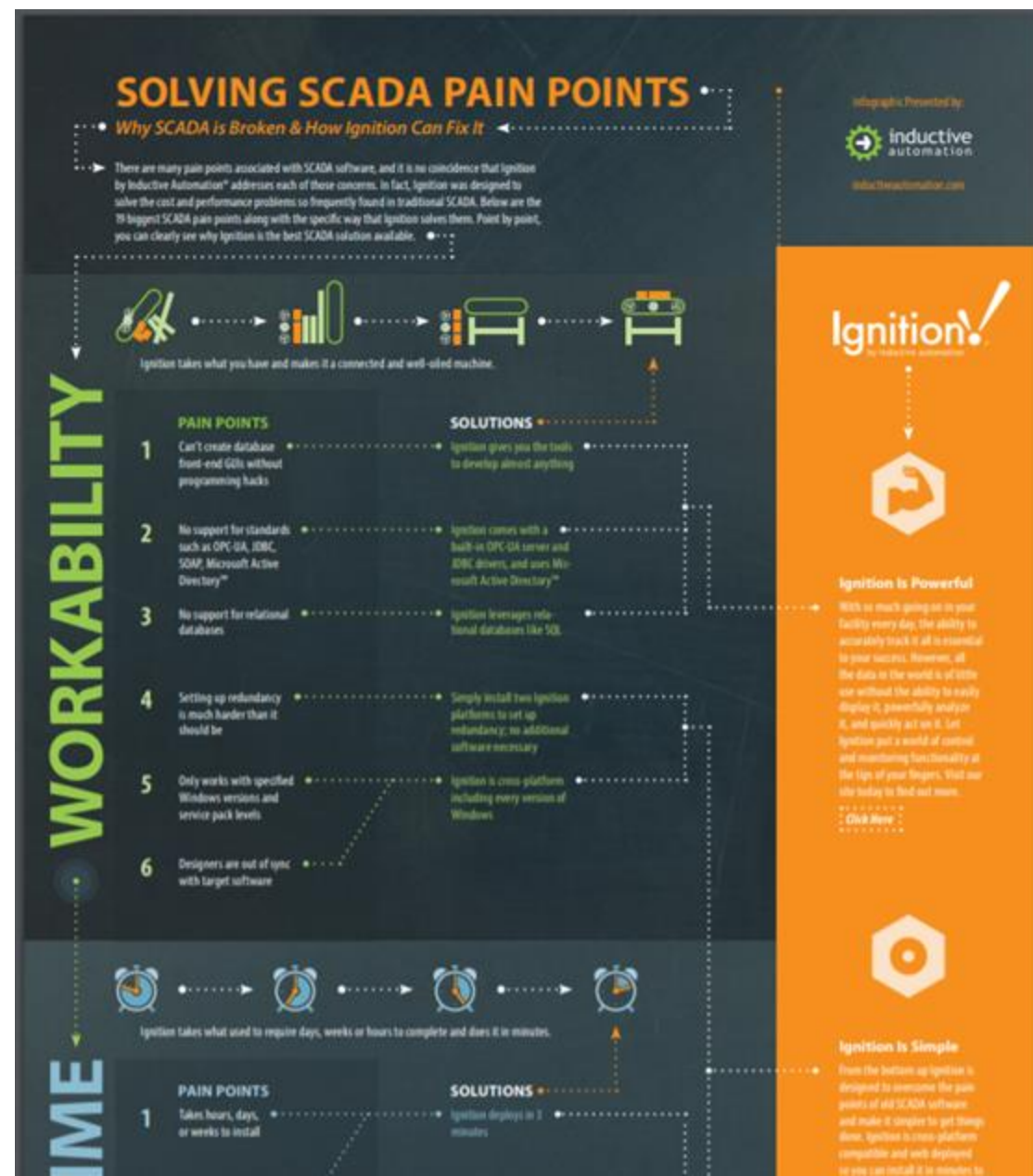
- Innovation (ecosystem of users, partners, collaborators, and producers who contribute and generate innovative ideas)
- Faster response times (technology shifts)
- Lesser risk (more stability, more users and contributors)
- Large community (case studies, training, templates)



Why a "Platform"?

Solving Pain Points

- Ease of installation/upgrade
- Open, standards-based
- Cross-platform
- Rapid design & deployment
- Scalable
- Modular
- Extensible
- Backwards-compatible
- Future-proof



Product vs. Platform

Product



- Closed, proprietary
- Keeps only consumers in mind

Platform



- Open, standards-based
- Keeps producers and consumers in mind



Core Platform Tenets

Building Blocks

- Open access & interfaces (but not insecure)
- Connectivity (in & out)
- Modular architecture (easy to build on, extend)
- Provide solutions (endless possibilities)
- Vibrant ecosystem (how value is created around the platform)





Digital Transformation With **Ignition**



20 Years of Transformation

The Practical & Proven Digital Transformation Solution

- Over 20 years of experience
- Deployed in every major industry
- Used by 57% of the Fortune 100
- Supported by thousands of integrators



Data Problem: Stranded Data

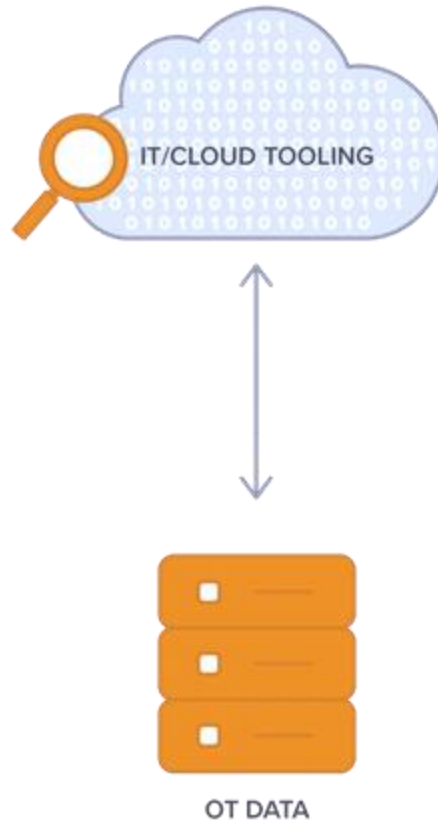
Companies Aren't Getting the Data They Need to Make Better Decisions

- Majority of data is stranded in the field
- Coupling devices with applications stops innovation
- Systems take too much time to set up

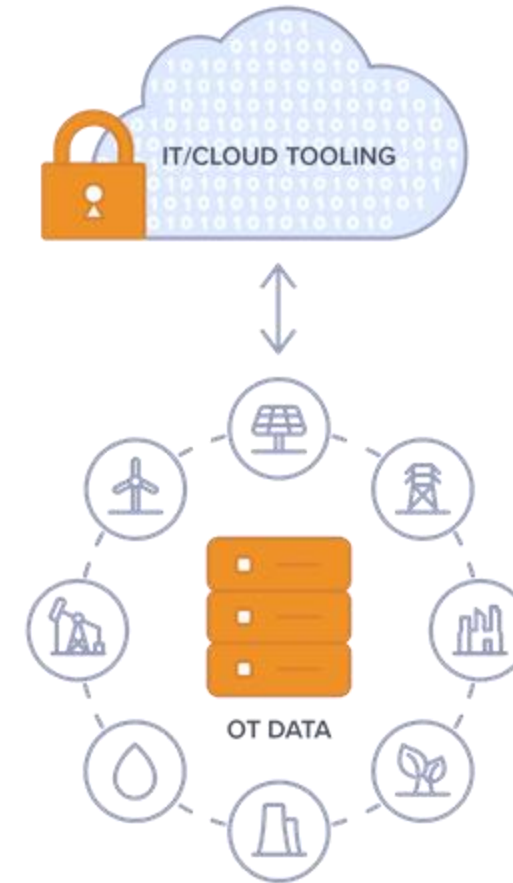


Data Problem: Proposition vs. Reality

The Proposition (Looks Simple)



The Reality (It's Difficult)



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Data Problem: OT Data vs. IT Data

OT Data Consists of:

- Proprietary Protocols
- Multiple Data Formats
- No Contextual Information
- Designed for Operations
- Different Across Market Segments
- Poll/Response Data Retrieval
- Directly Coupled to Applications
- Isolated Networks

IT Data Needs:

- Data Objects/Modeling
- Standard Data Formats
- Contextual Information
- Decoupled from Enterprise
- Publish/Subscribe Methodology
- Easy to Integrate
- Secure



Bridges The Gap Between IT And OT



Using Ignition for Digital Transformation



Collection



Data
Modeling



Publication &
Subscription



Industrial &
Business
Applications



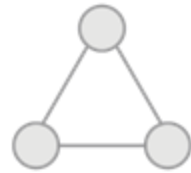
Analytics &
Machine
Learning



Collection



Collection



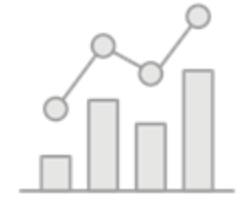
Data
Modeling



Publication &
Subscription

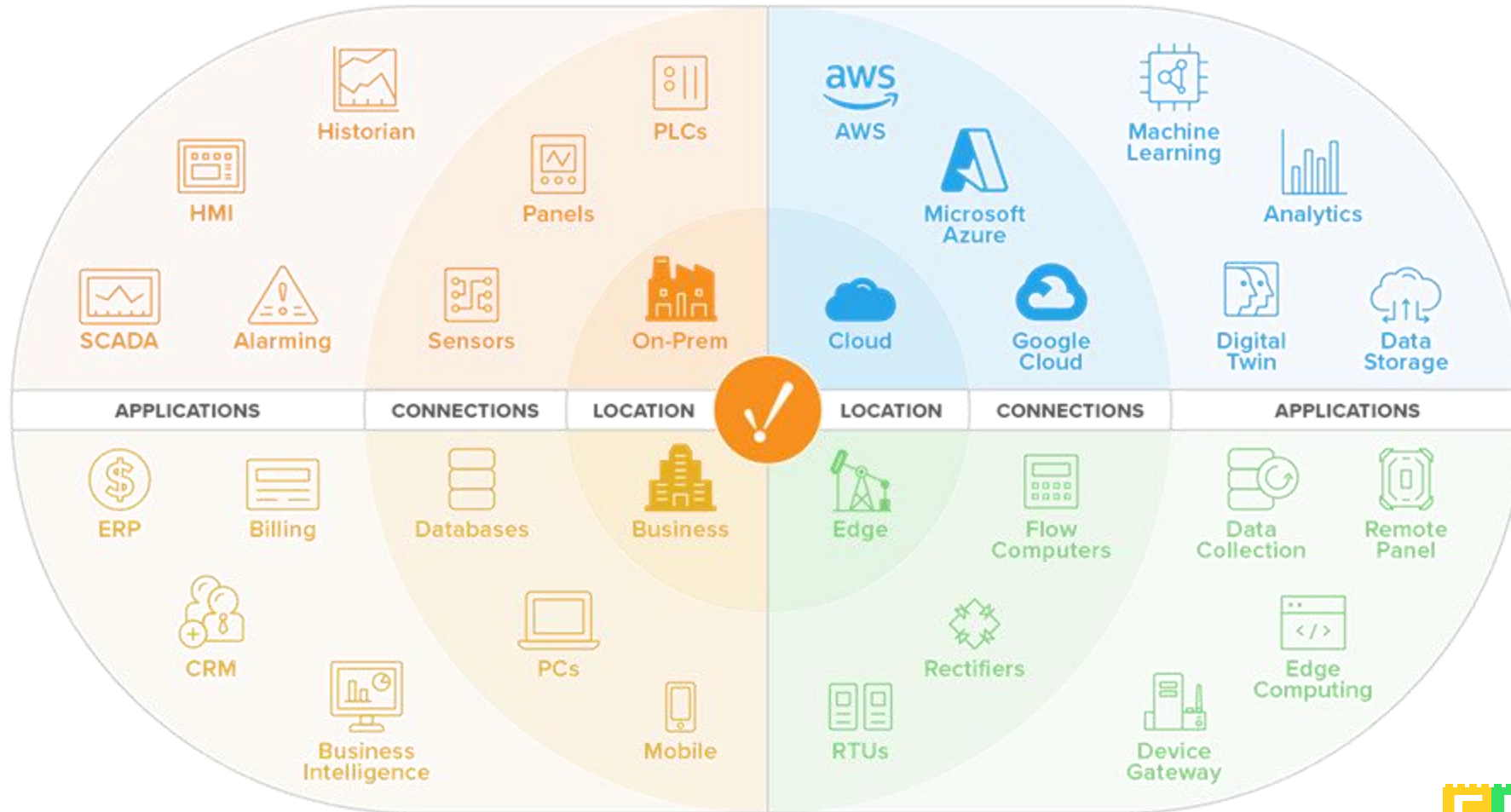


Industrial &
Business
Applications



Analytics &
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Collection



Data Modelling



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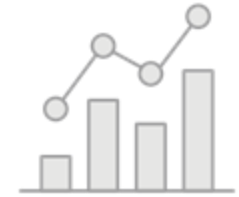
**Data
Modeling**



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Data Modelling

Sparkplug Provides the Standard for Modelling OT Data

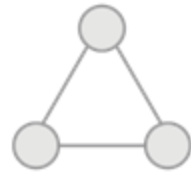
- Defines an *OT-centric* topic namespace, data model structure, and extensible process variable payload
- Defines MQTT state management
- Sparkplug DOES NOT break or modify the MQTT specification
- Sparkplug establishes a Single Source of Truth for models/tags at the origin!



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Collection



Data
Modeling



**Publication
&
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Industrial &
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Analytics &
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Learning

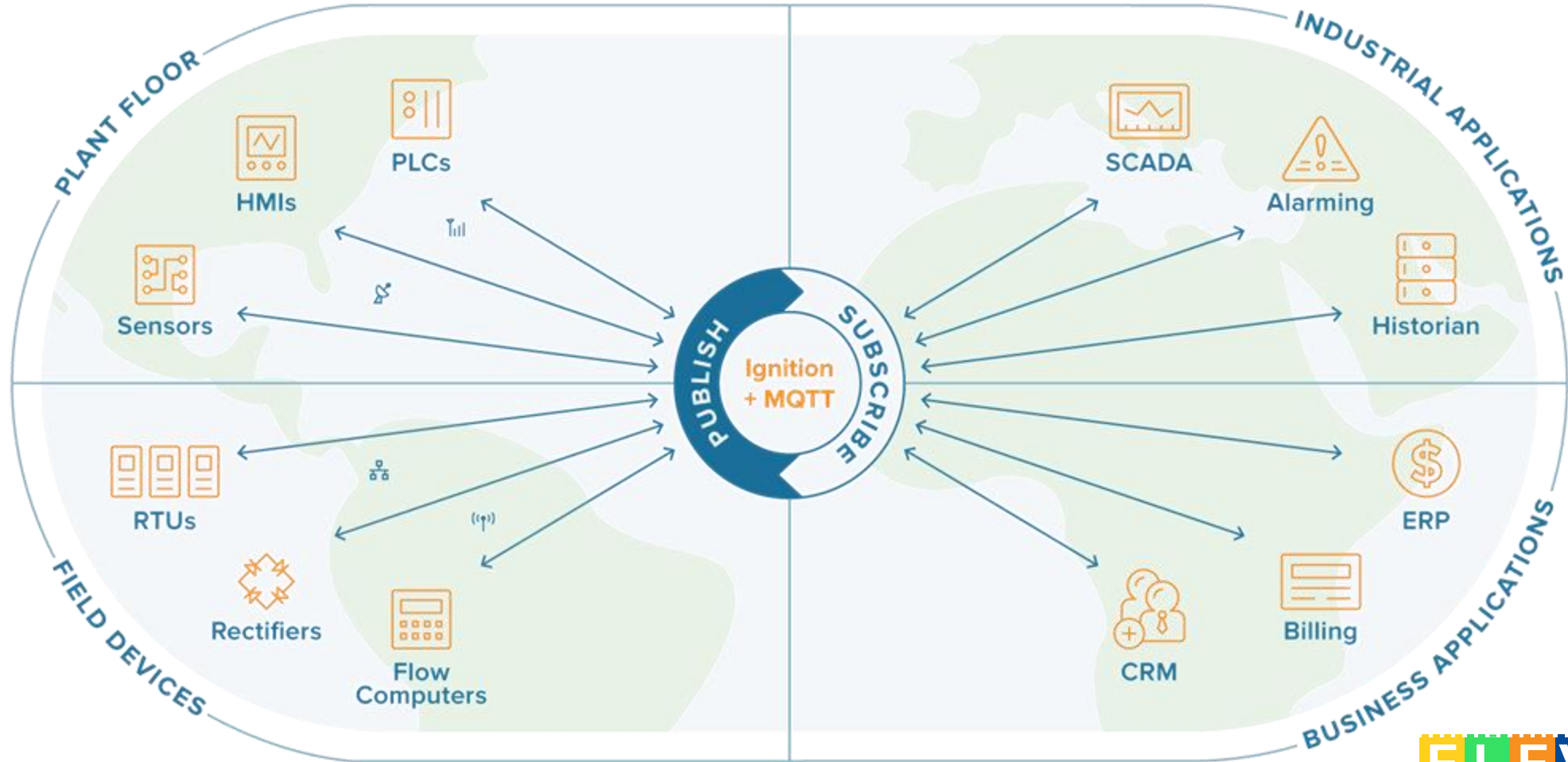
Cirrus Link Solutions

Cirrus Link Provides MQTT-Centric Software for Industrial Automation

- Founded in 2012
- CTO is Co-Inventor of MQTT
- Developed Sparkplug B to create a complete IIoT environment
- Strategic Partners with Inductive Automation since 2016

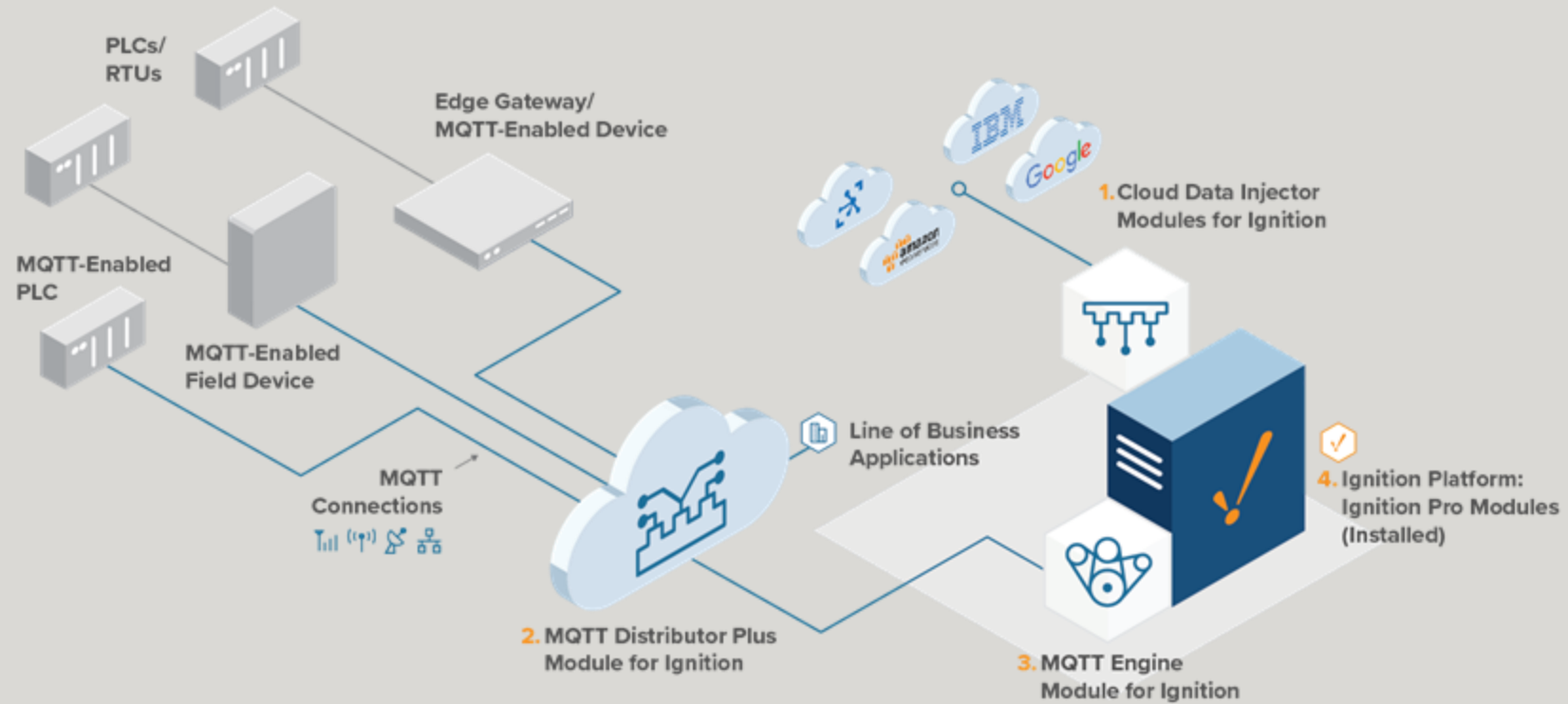


Publication & Subscription



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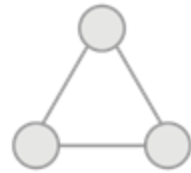
Ignition IIoT Bundle: Cloud Package



Industrial & Business Application



Collection



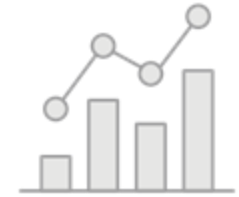
Data
Modeling



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Applications**

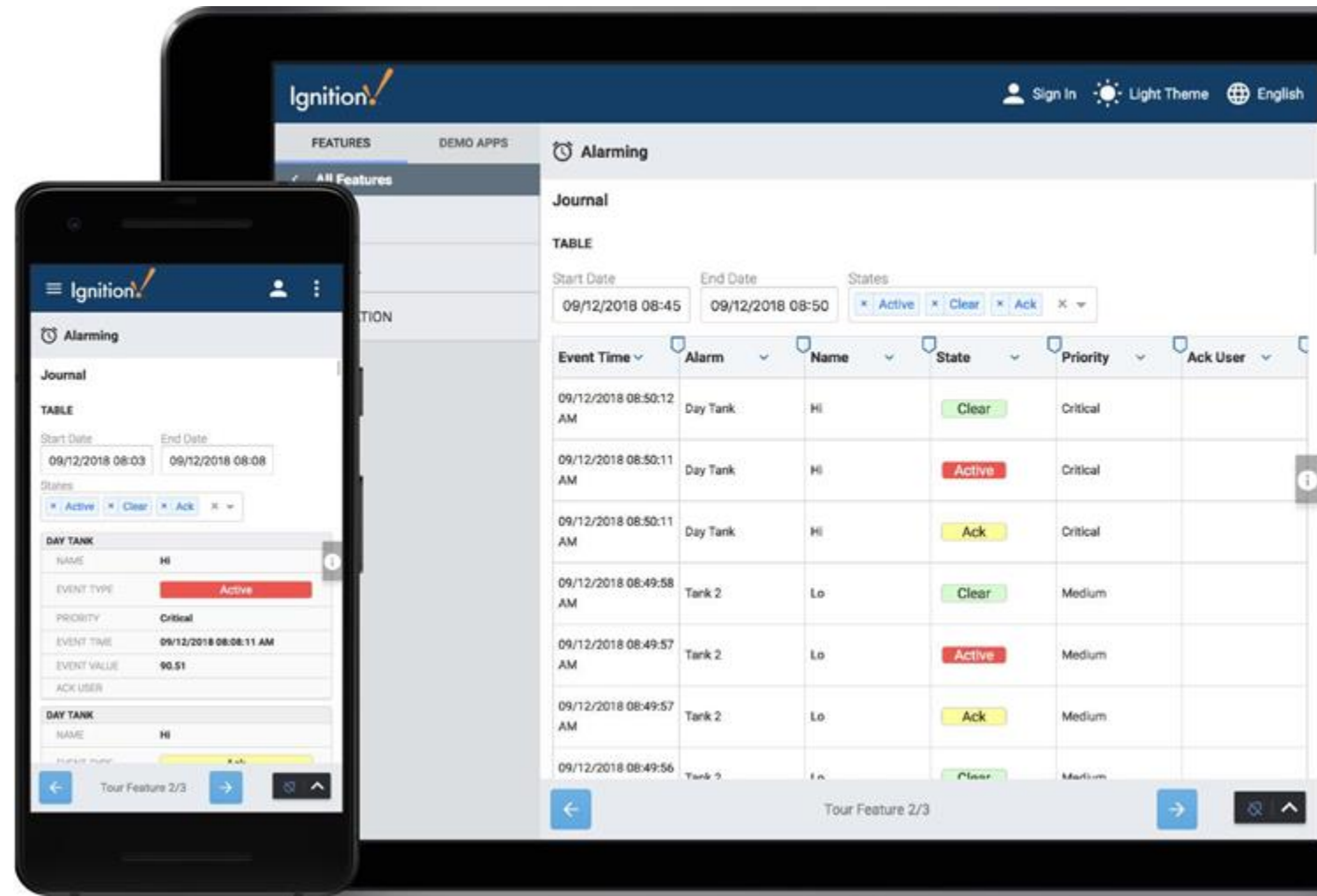


Analytics &
Machine
Learning

Industrial & Business Application

One Universal Platform for IIoT, SCADA and More

- Enterprise
- HMI
- MES
- Alarming
- Reporting
- Mobile



Industrial & Business Application

One Universal Platform for Business Applications

- Easily subscribe to data
- Connects to ERP, CRM, and more



Industrial & Business Application

Develop the Applications Your Organization Needs



Easy Drag-
and-Drop
Design



Rapidly Build
and Customize
Large Projects



Create
Custom
Graphics and
Animations



Unlimited
Designers
Included

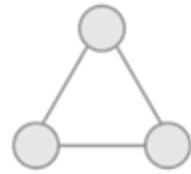
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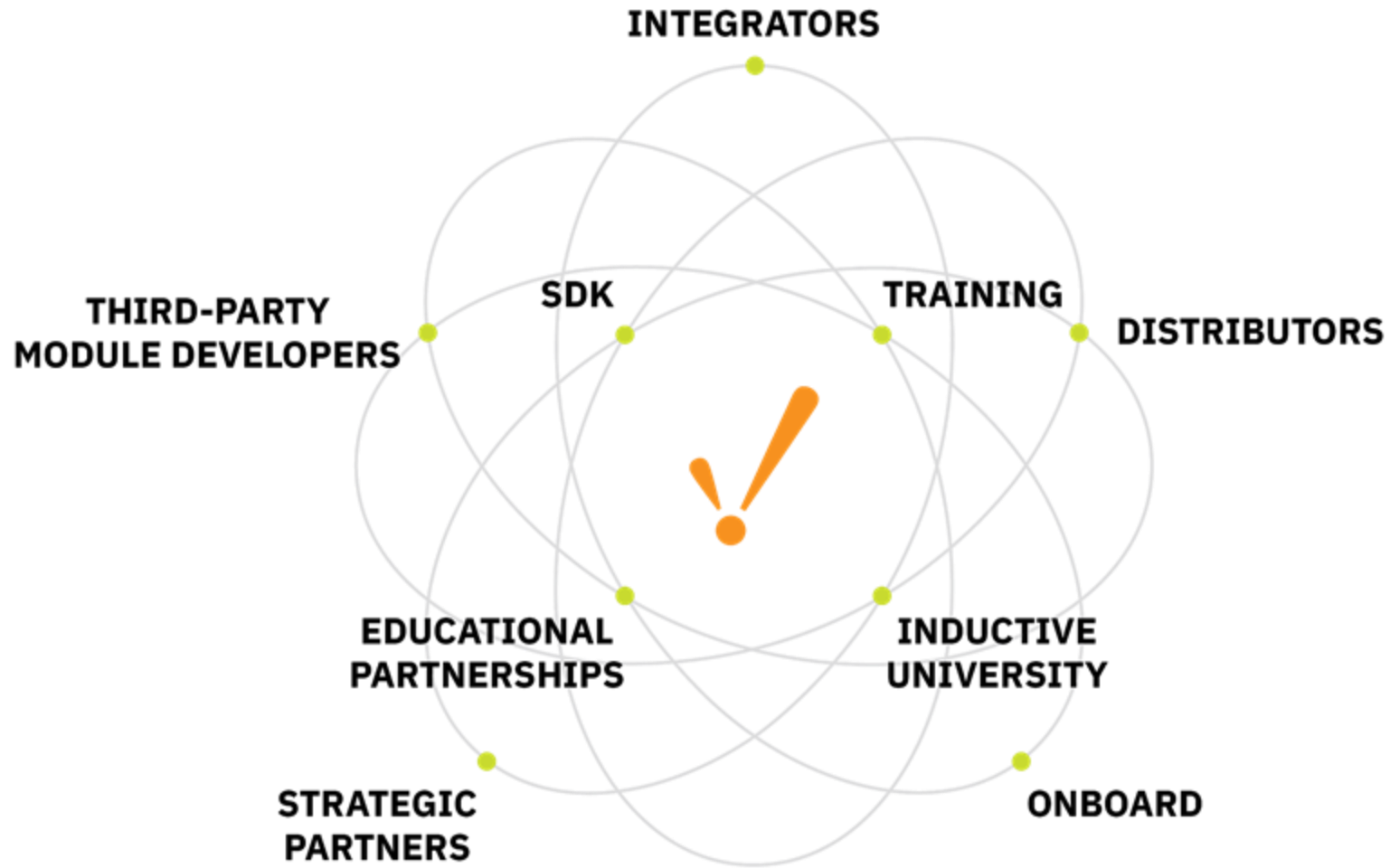
**Analytics &
Machine
Learning**

Analytics & Machine Learning

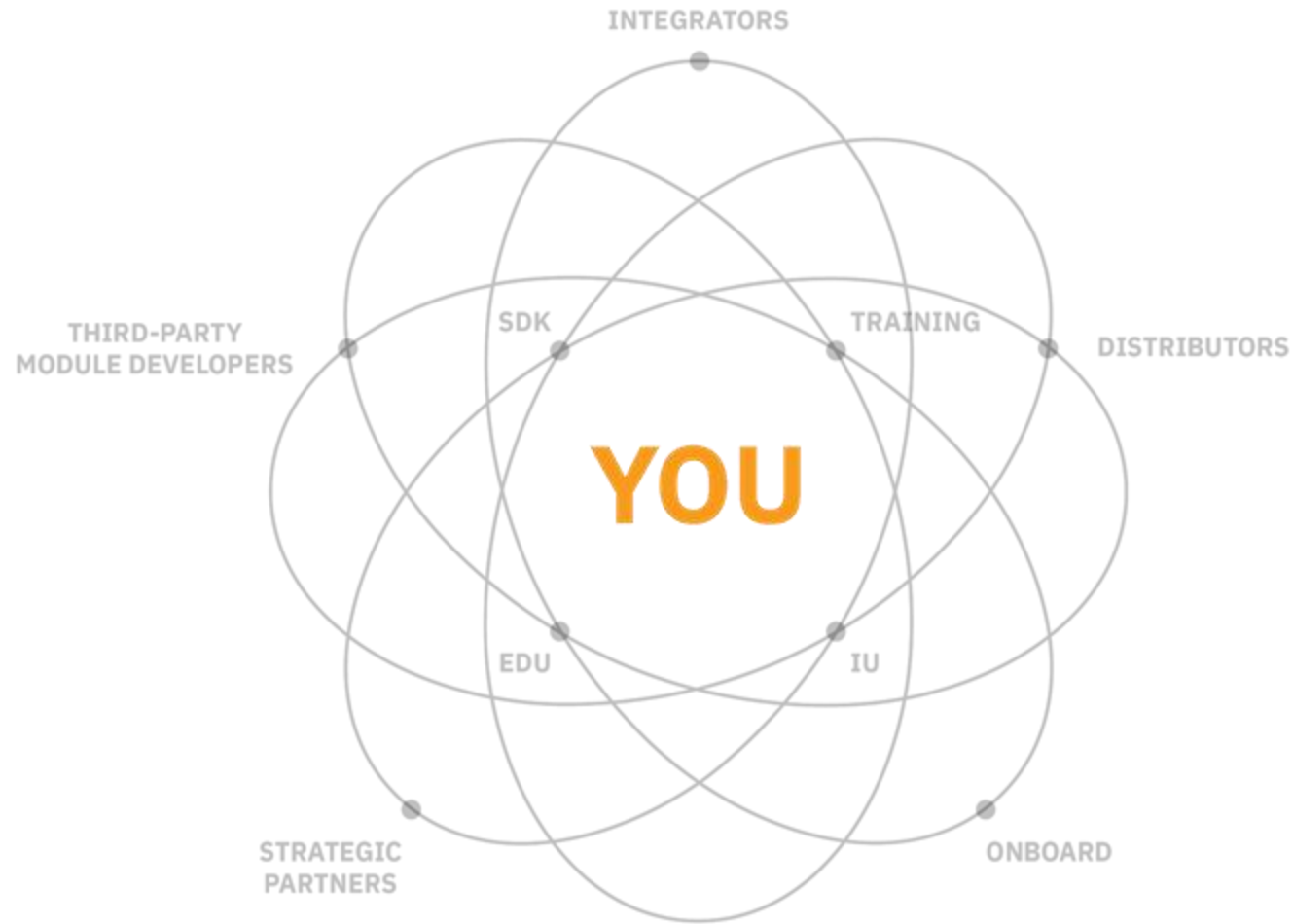
- Ignition has built-in data visualization tools and machine learning algorithms
- Ignition provides connections for using external systems
- Ignition is open source, empowering users to leverage best-of-breed tech
- Users can leverage popular external analytics and ML tools



Ignition Ecosystem



Center Of The Ecosystem



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THANK YOU.

