

WHAT IF YOU COULD PREVENT OPERATIONAL MISTAKES BEFORE THEY HAPPEN

Accidental Release Events							
Number	Incident Date	Company	City	State	Fatality	Serious Injury	Substantial Property Damage (\$ Million)
1	2020-05-10	Cyriaco	Winnemucca	Nevada		1	
2	2020-10-01	BASF	Geismar	Louisiana		1	
3	2021-02-15	Chevron Phillips Chemical	Port Arthur	Texas			5.8
4	2021-02-15	Chevron Phillips Chemical	Sweeny	Texas			2.5
5	2021-07-02	Daikin	Decatur	Alabama	2	1	
6	2022-07-29	W.S. Red Hancock	Canton	Mississippi	1	5	
7	2022-08-19	Valero	Texas City	Texas			10
8	2022-09-22	Rubicon	Geismar	Louisiana		1	
9	2022-10-11	ExxonMobil (XTO Energy)	Carlsbad	New Mexico		1	
10	2022-12-23	Delek	El Dorado	Arkansas			36
11	2023-01-21	PBF Energy	Chalmette	Louisiana			34.1
12	2023-02-03	Dow	Hahnville	Louisiana		4	
13	2023-02-18	Cleveland-Cliffs	Warren	Ohio			1
14	2023-04-03	IMTT	St. Rose	Louisiana		2	15
15	2023-05-04	Marathon Petroleum	Wilmington	California		1	
16	2023-05-15	Marathon Petroleum	Texas City	Texas	1		829
17	2023-05-23	CVR Energy	Wynnewood	Oklahoma	- 1	1	8
18	2023-09-05	SABIC	Ottawa	Illinois		1	
19	2023-10-13	Hornady	Alda	Nebraska	1		
20	2023-12-29	Tradebe	Bridgeport	Connecticut		1	6
21	2024-02-14	Tronox	Hamilton	Mississippi		2	
22	2024-03-17	ExxonMobil	Baytown	Texas			32
23	2024-05-29	Western Sugar Cooperative	Fort Morgan	Colorado	1	1	
24	2024-07-12	LyondellBasell	Channelview	Texas			9.8
25	2024-08-29	LyondellBasell	Houston	Texas			16.8
				Total	7	23	1,006



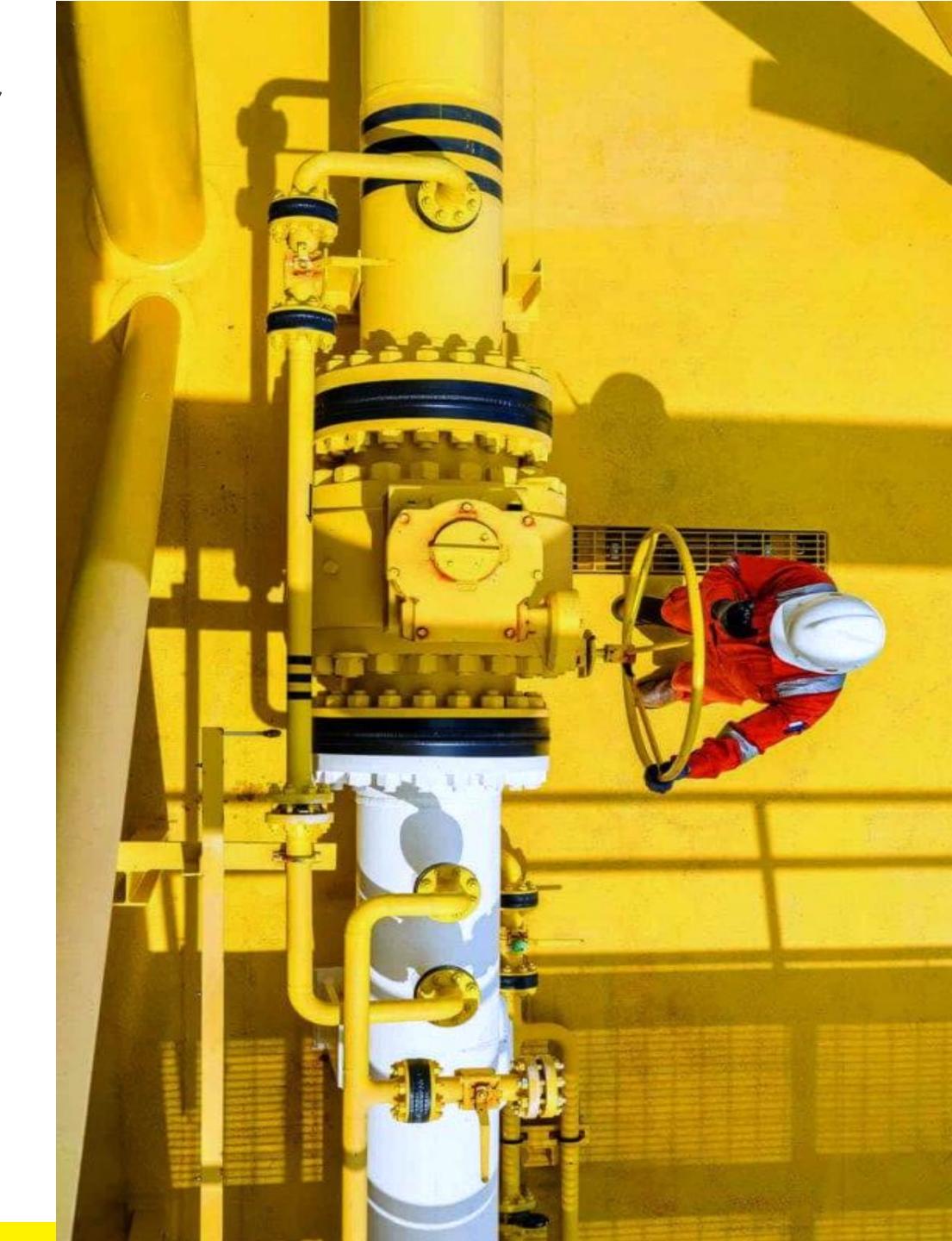
INCIDENT REPORTS

Incident reports volume 2. March 12, 2025



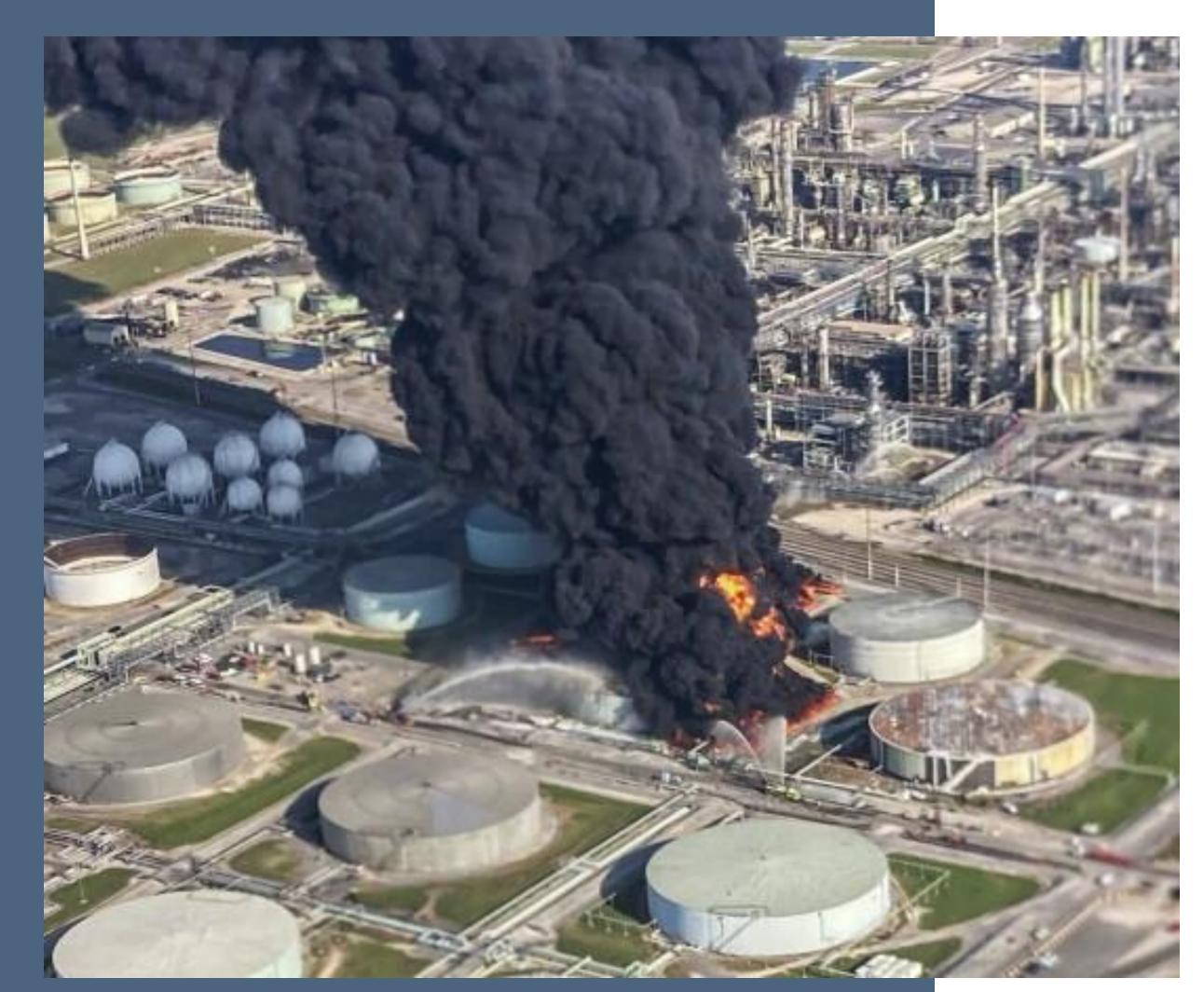
MANUAL VALVE MONITORING TODAY

- Manual valve positions are unknown in the control room
- Errors can lead to safety incidents, downtime, or contamination / spills
- Manual checks are slow and prone to human error
- Wired manual valve monitoring solutions are expensive and cumbersome to install



THE RISK OF DOING NOTHING

- Higher operational risk
- Downtime and costly cleanups
- Loss of productivity





Real-time manual valve monitoring

Key features

- ✓ Easy and universal mounting
- ✓ Cutting edge Motion Sensors
- ✓ Measures accurate valve position, open/close and incremental (%)
- ✓ 5+ years battery life,
- ✓ Secure data end-to end encryption
- ✓ IP69 ingress protection
- ✓ II 2 G Ex ib IIC T4 Gb











WHY IS ALOXY DIFFERENT

Installed in minutes without customised brackets on any type or size of valve.















Gate valve

Aloxy IIoT Possibilities

Gearbox

Easy to install

Calibrate by Using buttons or by smartphone



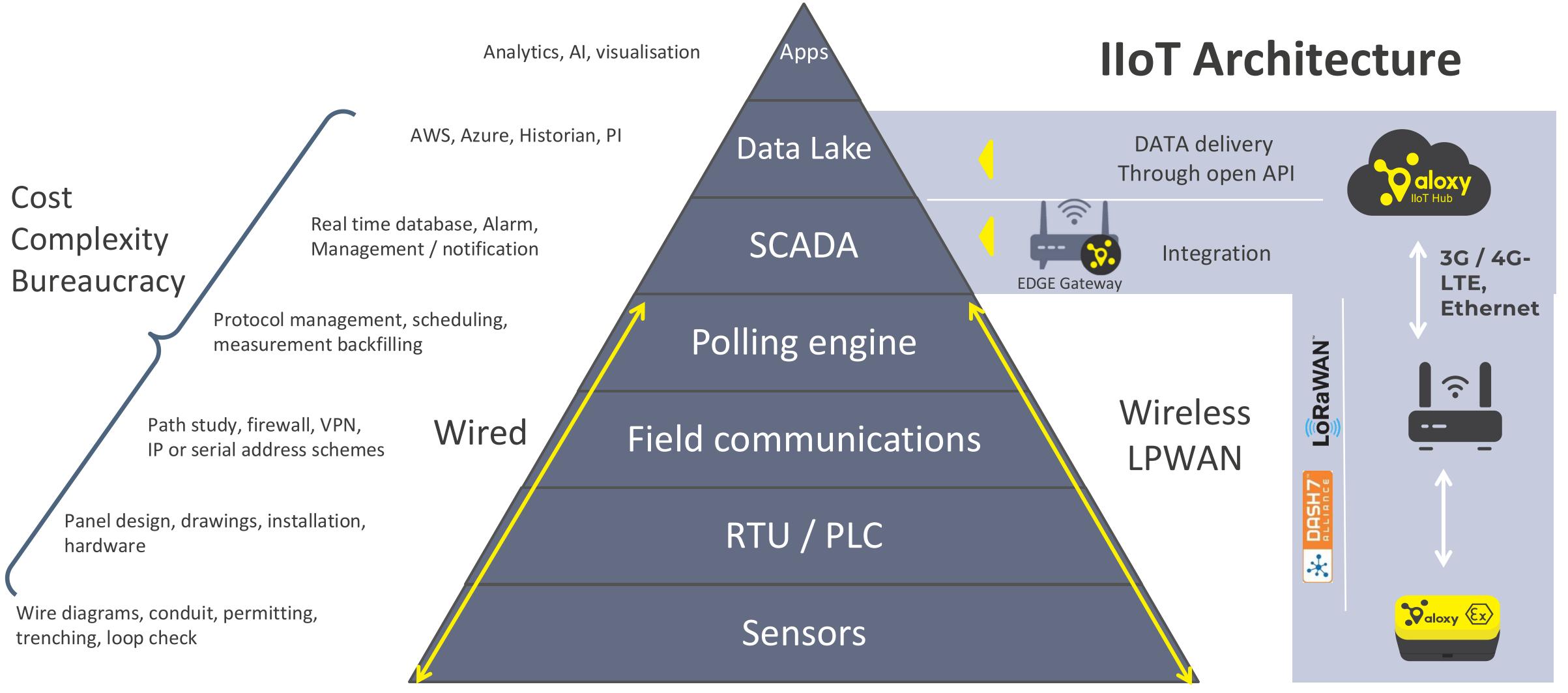
- ✓ Suitable for Atex phones

 (Android & IOS)
- ✓ Firmware **updates** over NFC.
- ✓ Calibration of device over NFC.
- ✓ Identification of device ID
- ✓ **Lock** devices.





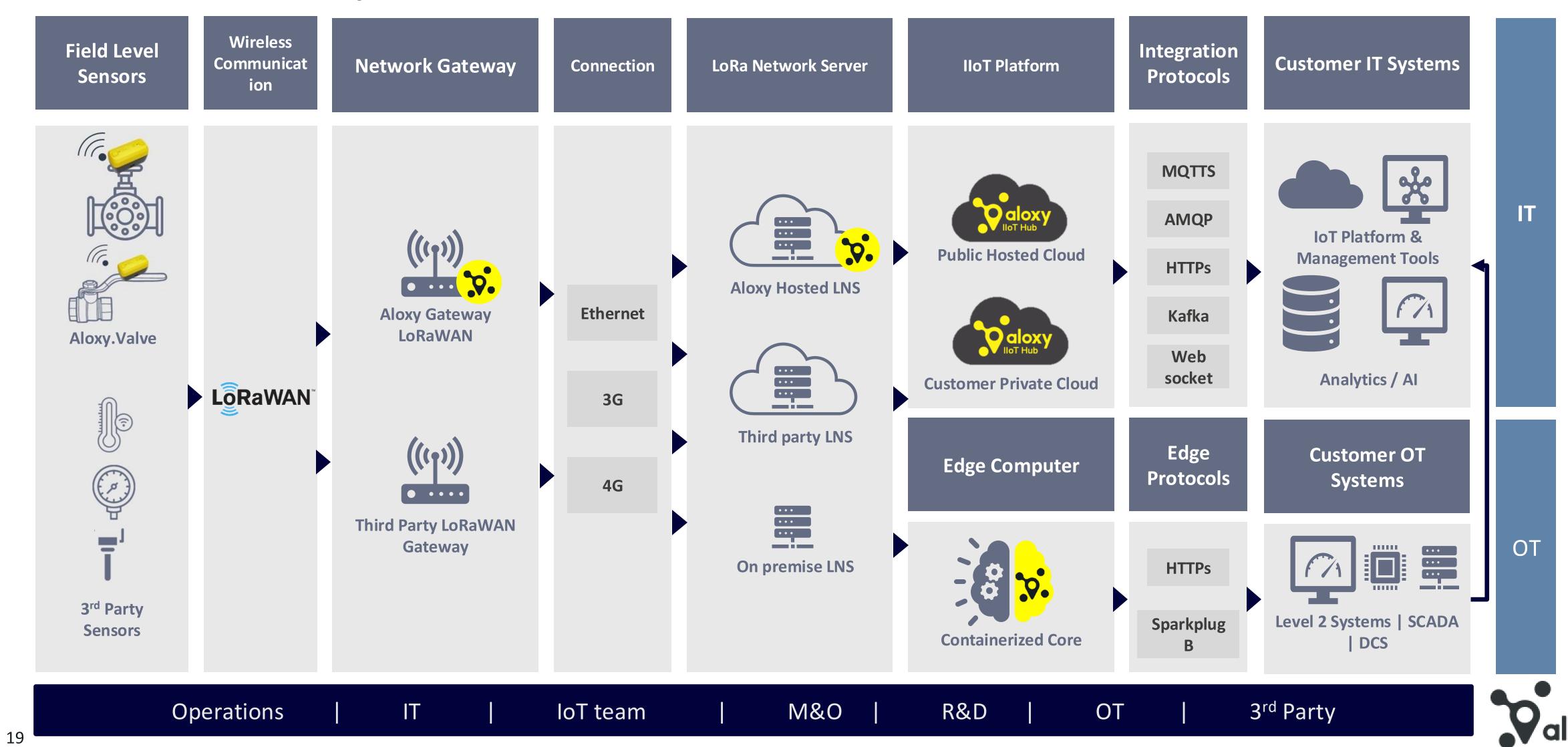
TRADITIONAL SCADA DATA CREATION.





ARCHITECTURE OVERVIEW

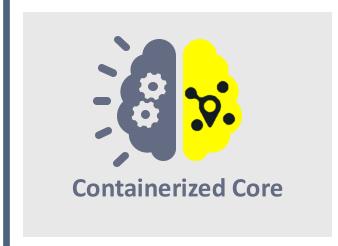
Get the data where you need it



ALOXY IIOT HUB

An essential part of the solution





Also available as light weight on-prem software application

PROCESSING POWER.

Processes raw data from the sensors into useable valve positions resulting in lighter, and more affordable sensors.

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RELIABLE DATA.

Issue detection, heartbeat monitoring and network connectivity checks to validate the data is correct.

M

MANAGEMENT TOOL.

Increase the effectiveness of large amounts of sensors.

4

FLEXIBLE PLATFORM.

Connect downstream through different API's. Deployment in Aloxy's Multi tenant cloud. Customers' private cloud or On-premise

TRUSTED BY INDUSTRY LEADERS...





































Valve position Monitoring Starter kit

Engage in a Proof of Value with us

Aloxy provides

- 50 + sensors
- Universal brackets
- Outdoor Gateway
- LoRa Network Server (LNS)
- Access to IoT Hub
- Gateway with 3G, 4G
 Sim card or Ethernet
 No connection to
 IT/OT systems are
 made
- Training and support

Identify valves that are operated frequently and prone to error.

- Drains
- Vents
- Manifolds
- Steam circuit valves
- Bypass valves
- Emergency Showers
- Isolation valves



