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Emergency Management

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Reach 3rd Call

Emergency and Risk Management:

sensors, trackers and data integration for data driven decisions

Theme:

REACH-2022-THEMEDRIVEN-CONNECT5_10 - Emergency Management

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The problem

Emergency and Crisis

fires
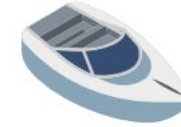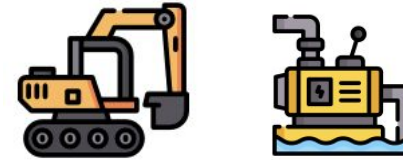
earthquakes

tornados

Decision Central

Emergency Responders

Emergency Responders need help
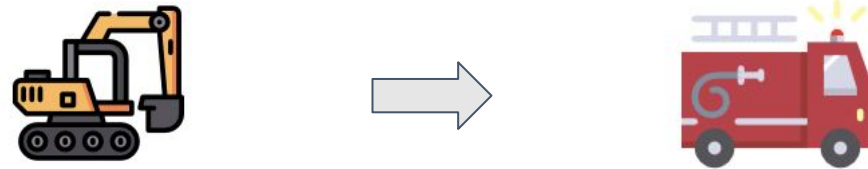
+

public and/or private **assets**:

Excavators
Water pumps
Speedboats
etc

Question 1
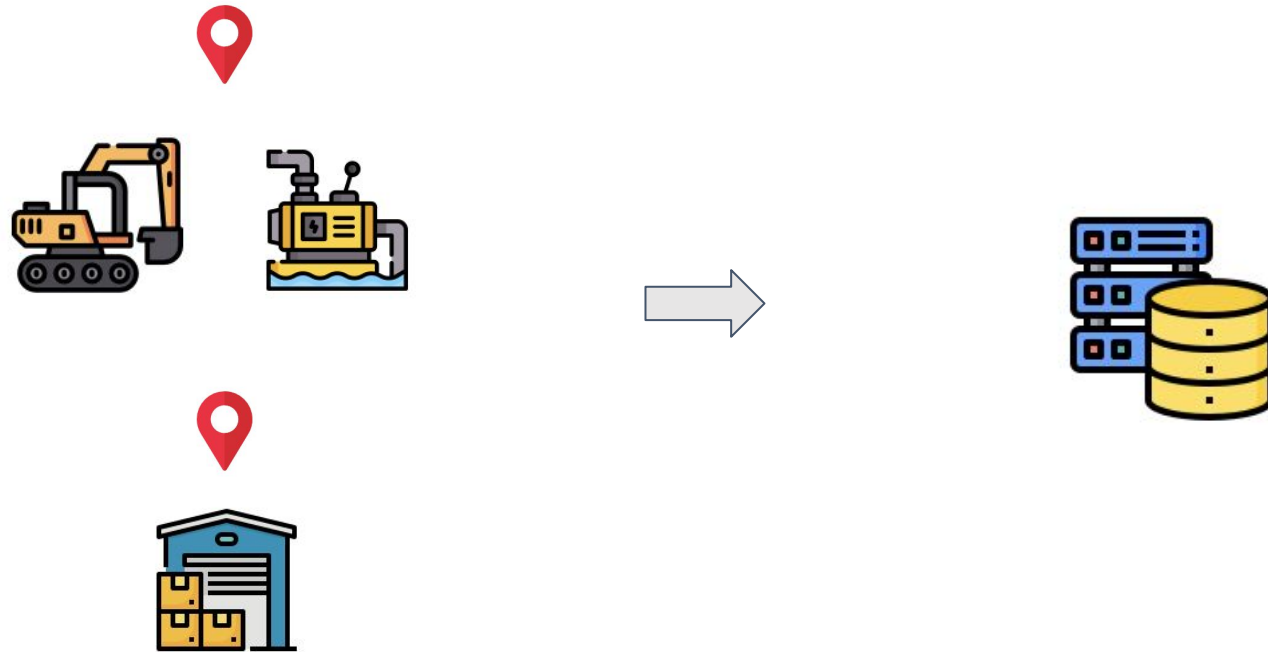
Any near by?

Question 2

Who needs to know?
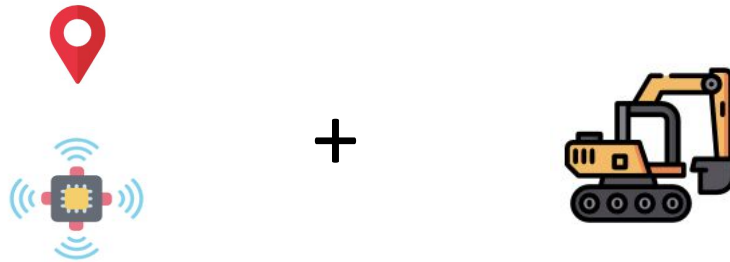
Question 3

Any **risks** nearby?
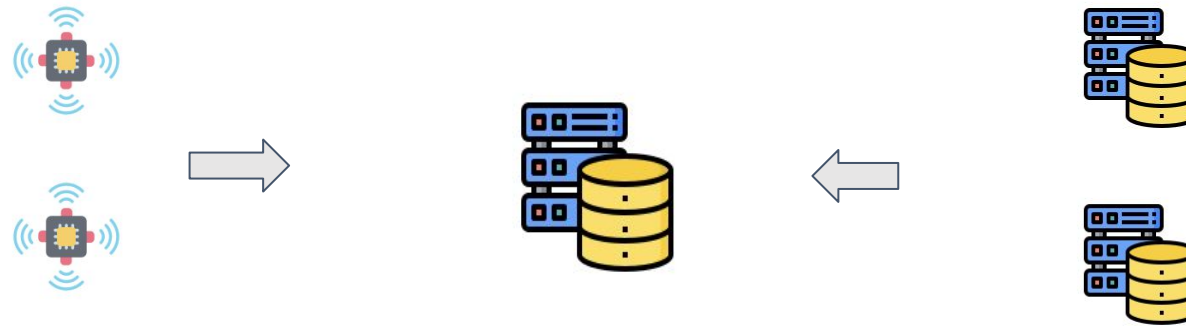
e.g. flammable warehouse!

Solution: IoT!

Build a Location Data Hub
of **Helpful assets** and **Risk assets**

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Step 1: add IoT trackers

Tracker will send GPS **location**
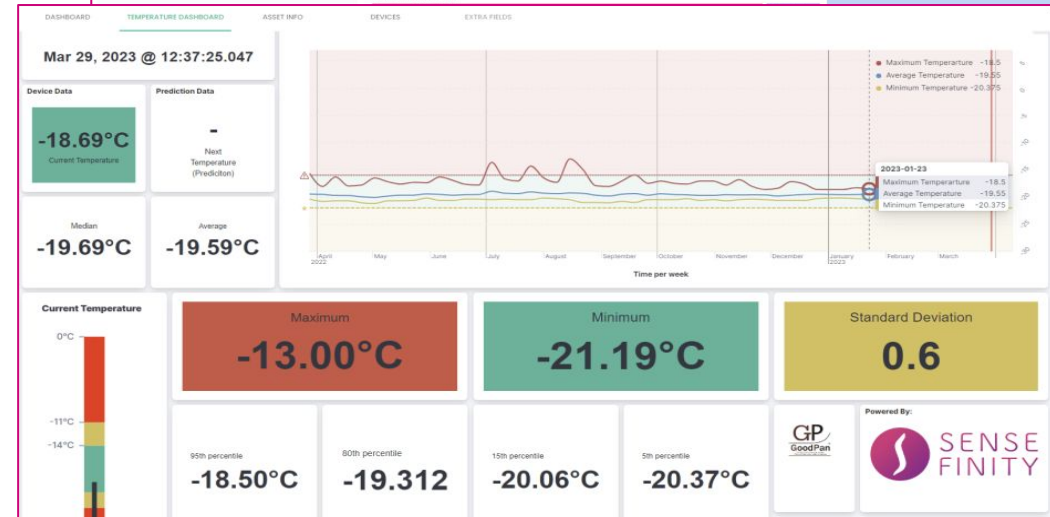
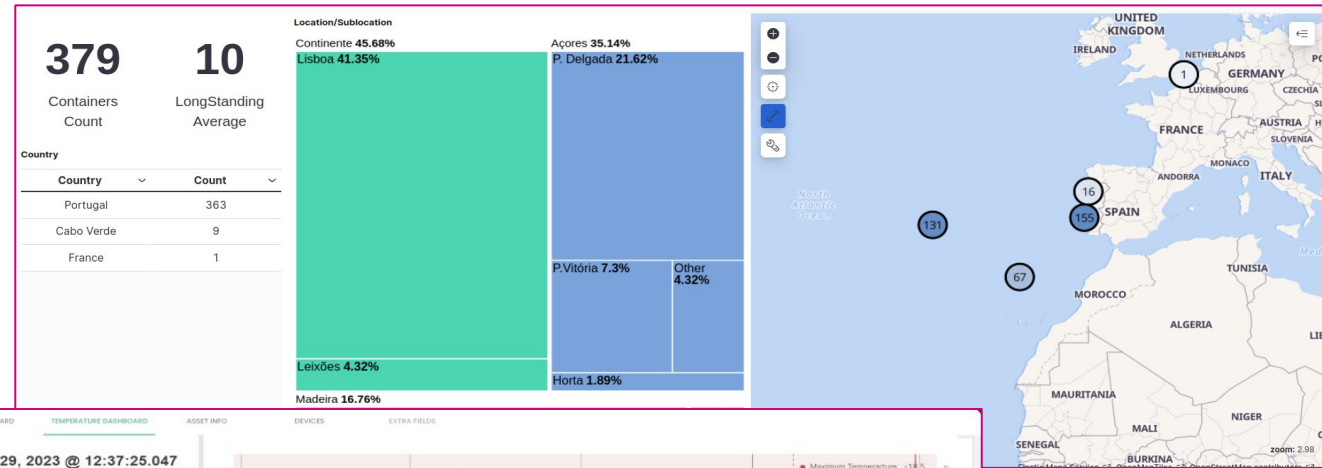# Step 2: integrate all data

Location data sets from **IoT trackers**
+
Location data sets that already exists
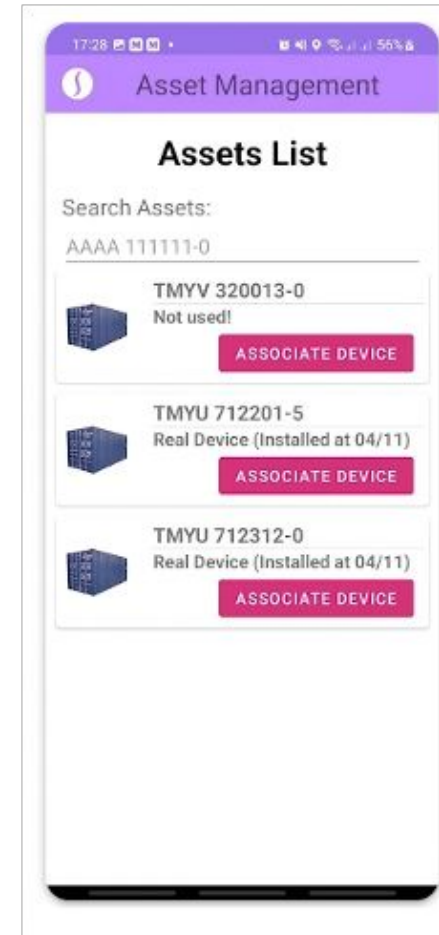
The application

History and Statistics

KPIs

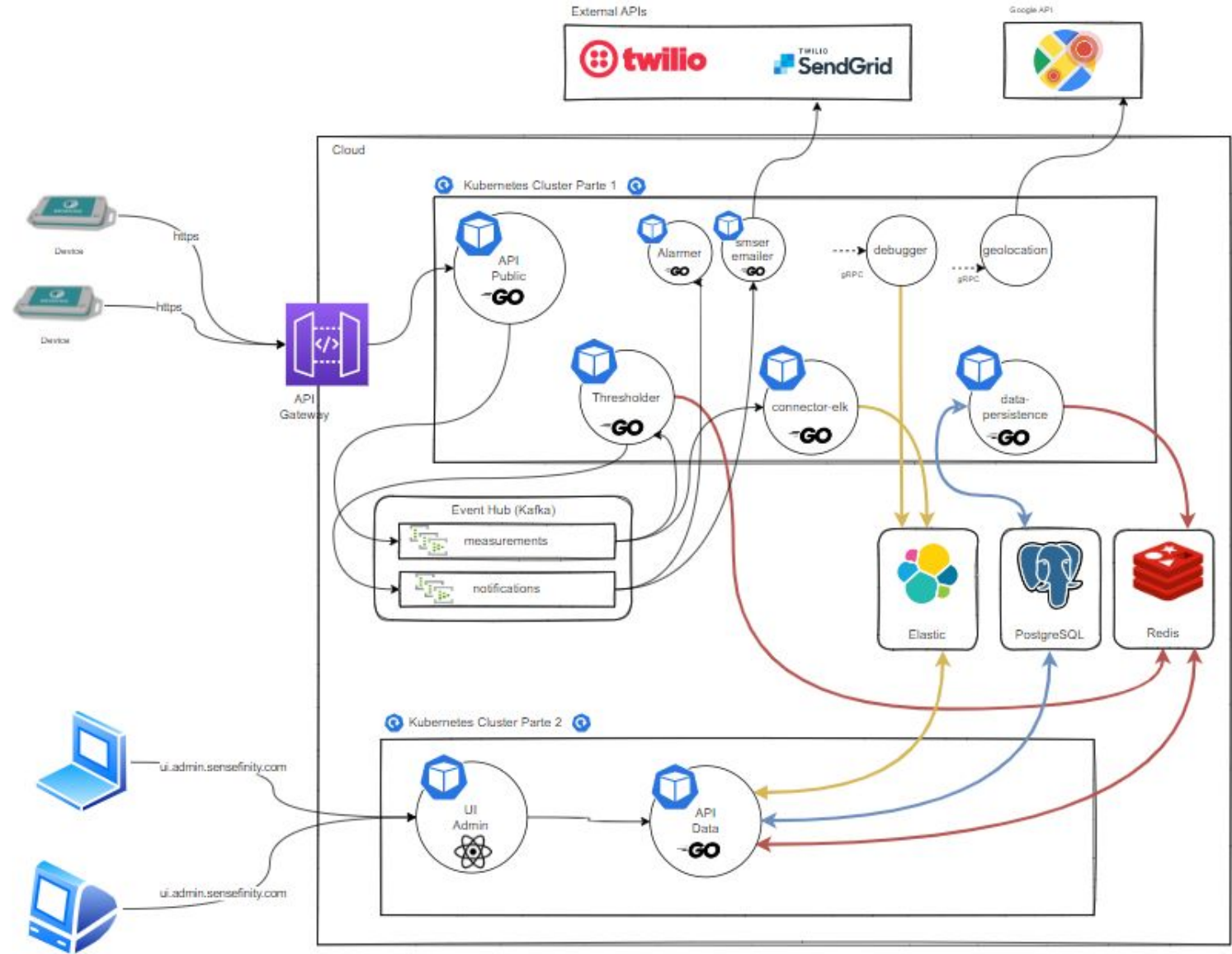Maps with geolocation

Charts with thresholds

Mobile Application

Asset management
Notifications

The architecture

Microservices
Scalable
Event-Driven
Northbound APIs

* A simplified version.

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Big Data stack

elasticsearch

Scalable

kafka

Event driven

GO

Go lang
microservices

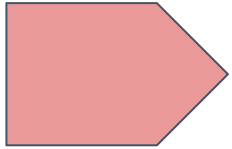**Kibana**

State of the Art
Reports

PostgreSQL

Transactional DB
for configurations

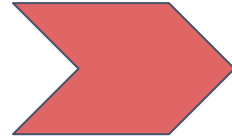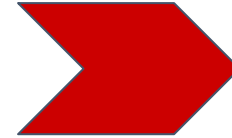# Roadmap

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Roadmap

Stakeholders meetings:

Roles & responsibilities
Requirements refinement
Outputs & outcomes

MVP implementation

Development
Validation

PoC

Feedback
Adaptations
QA

Expansion

New Stakeholders
New Data Sets

Team

An Experienced Team

NOKIA **SIEMENS** **DANONE** **LÖWENBRÄU** **Henkel**

Orlando Remédios, CEO

Nokia and Siemens R&D Manager

Serial Entrepreneur

Rolf Glöckler, COO

CEO of Löwenbräu

VP of Danone

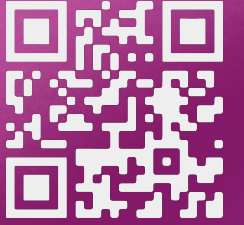**Tiago Andrade, CMO**

Nokia and Siemens BI Lead

Serial Entrepreneur

Hélder Castro, CFO

Siemens General Manager

Angel Investor

Emergency Management