IoT Management

Leverage data from your connected objects, enrich them with data from other sources, receive alerts in the event of anomalies, optimize your activity, and automate your decisions.

CONTEXT

For many manufacturers, fuel, oil and lubricant consumption for onsite vehicles is a major expense. Other significant costs include electricity consumption and CO_2 production. In the mining industry, for example, a fleet of trucks travelling between the excavation site and the processing area can use hundreds of millions of liters in fuel. It's therefore no wonder that controlling and optimizing these consumption rates has become a concern for many companies.

The challenges of managing these consumption rates can be summed up in 3 questions:
- How can we visualize and explore consumption in order to analyze it?
  e.g.: measuring the consumption of each vehicle on a site.
- How can we detect anomalies?
  e.g.: identifying an increase in consumption on a specific part of the journey.
- How can we optimize consumption?
  e.g.: changing the journey of vehicles depending on their load or weather conditions.

CHALLENGE

Managing consumption depends on identifying and handling a wide range of different data:
- Data produced by industrial systems
  e.g.: the number of tons of material handled
- Data from IoT sensors
  e.g.: the weight of vehicle loads, the number of liters of fuel put into a vehicle, stock levels of lubricant, etc.
- Data from the vehicles themselves
  beginning with GPS tracking of journeys

By combining these data streams, we can create indicators to follow the consumption per ton transported, by vehicle category, by journey type, etc. This information can then be geolocalized to optimize processing and analysis.

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ForePaaS

SOLUTION

- Capable of integrating diverse sources of data, whether they come from files, API or IoT sensors
- Platform as a Service is backed up by cloud resources to handle any load without technical complexity
- Possibility of integrating existing algorithms to leverage previous work
- Capable of handling high volumes of data in real time thanks to cutting-edge technology
- Alerts are issued when pre-defined limits are passed, keeping you informed in real time of potential malfunctions
- Information is displayed differently depending on each person's role for improved operational efficiency

CURIOUS? REQUEST A DEMO

We'd love to talk to you about data and cloud and know more about your current challenges
✉ contact@forepaas.com

www.forepaas.com