



The SIMA Journey

BIG DATA ERA

A JOURNEY TOWARD DATA-DRIVEN TECHNOLOGY

- ▶ Without DATA: Problem remains **hidden**.
- ▶ With DATA: Problem becomes **actionable**.



VP.Start
Innovation Through Technology

We Are Living in a **Data Explosion**

► Every industry **generates data**:



Smart Homes



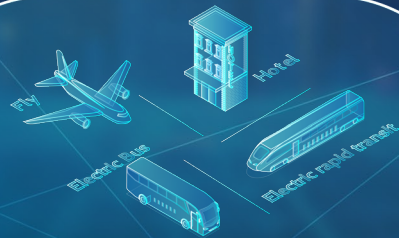
Smart Cities



Power Grids



Industries



Transportation



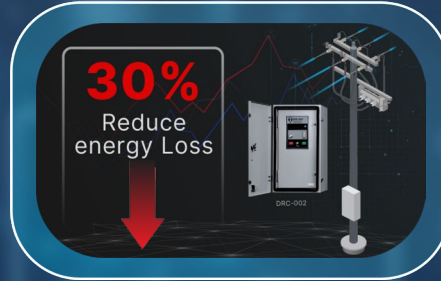
Climate Systems

Why Data Matters

► Data helps us:



Reduce **Outages**



Reduce **Losses**



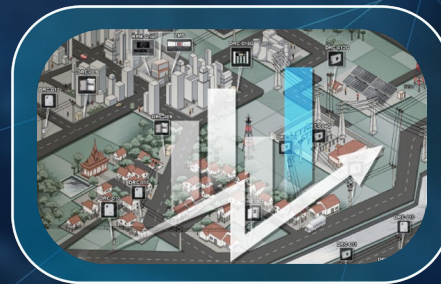
Reduce **Carbon Emissions**



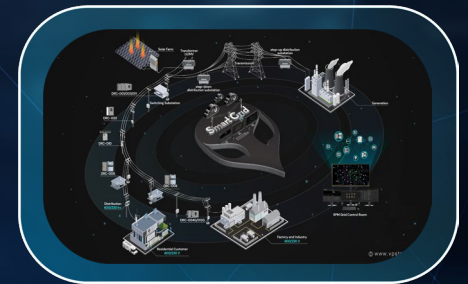
Improve **Efficiency**



Increase **Revenue**



Integrate **Renewables**



Improve **Sustainability**

First **Real** Challenge

▶ DATA Exists Everywhere but **Remains Invisible**



Utility operators often ask

- 📍 Where is the fault?
- 📍 Why are we losing energy?
- 📍 Which assets are overloaded?
- 📍 Which customers consume abnormal energy?

▶ Without **DATA visibility**



Manual Inspection



Slow Response



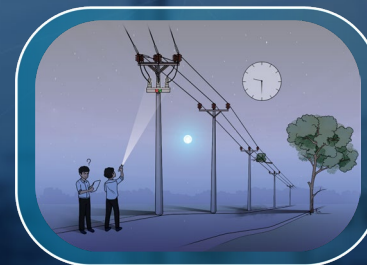
Operational expenses



No **Fault Data**



High Operation
Expense



Long Outage Time

Second **Real** Challenge

► Electricity **Outages**

Fault Occurs >> Customers **Complain** >> Operator **Investigates**
>> Field Team **Dispatched** >> Fault Found **Hours** Later

► **Pain**



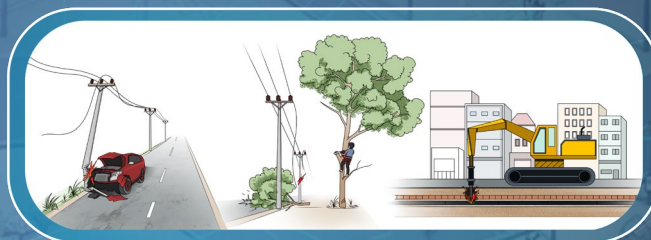
Long outage duration



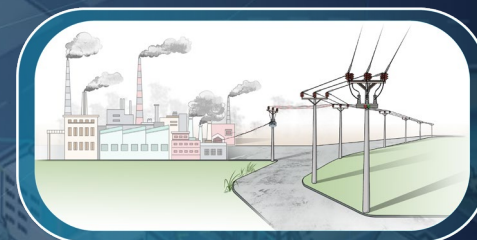
High operational cost



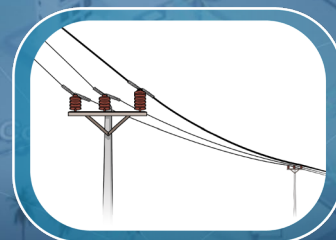
Low customer satisfaction



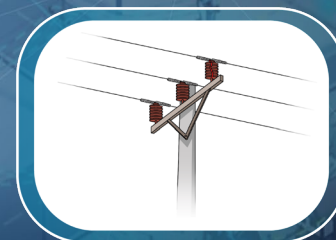
Human Issues



Overload



Technical Issue



Unbalance Phase



Weather

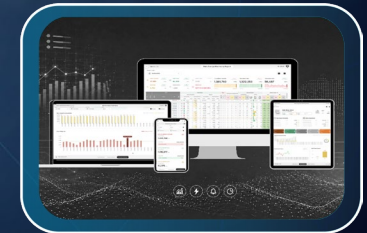
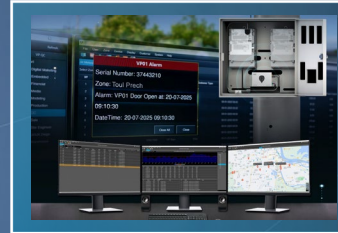
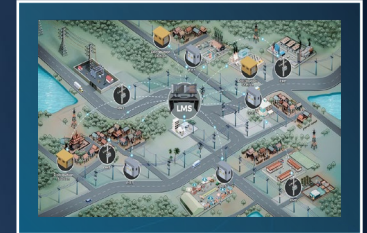
Big Data Changes Everything

► How can VP.Start Collect Data?

- 📍 Digital Remote Controllers (DRC)
- 📍 RPM Grid System
- 📍 Distribution Remote System
- 📍 Low Voltage Distribution Management System

► Collect

- 📍 Meter data, grid data, fault events, voltage levels, current levels, operational activities in real-time



Real Solutions

► DRC + RPM Grid



When fault occurs:

📍 Automatic alert

📍 Fault localization

📍 Remote switching

📍 Faster restoration



VP.Start's Data-Driven Journey



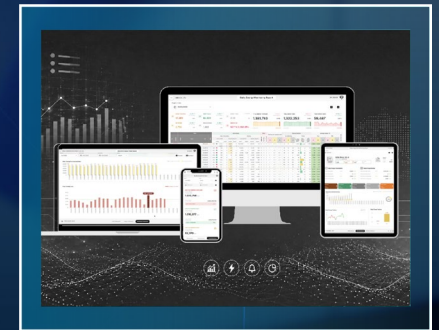
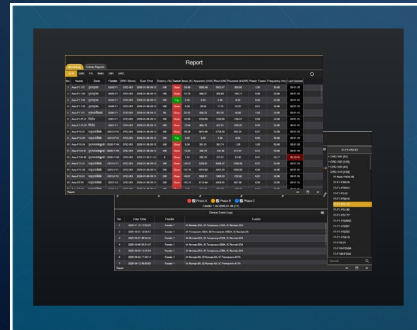
- ▶ SIMA Smart Grid - DRC-series
- ▶ SIMA Smart Home
- ▶ SIMA Smart City

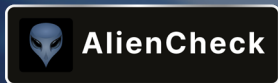
Structure Data and unstructured Data

- ▶ Data cleaning & transformation
- ▶ Data integration from multiple sources
- ▶ Scalable storage (data lake / data warehouse)
- ▶ Fast processing for analytics tools

Difference module

- ▶ RPM Grid
- ▶ LMS
- ▶ DRS
- ▶ ROSE
- ▶ HEM System
- ▶ Statistical methods, machine learning, or visualization tools
- ▶ Optimize Processes
- ▶ Support Decision making
- ▶ Prediction and Focasting





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