

# datacakra

Indonesia's Leading **Industry 4.0** Solution Provider



## Wirawan Winarto

CEO & Founder

Unique blend of software-hardware industry expert with experiences working for tech giants such as Microsoft, Samsung, and Intel.

# Our Way Leading Industry 4.0

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Established in 2019, Datacakra quickly establishes itself as one of the most prominent Industry 4.0 player in Indonesia serving across industrial sectors and verticals.

By 2024, we offer various industrial solutions with dozens of real-world customer portfolio. Today Datacakra employs **60+ local talents**, of which 90% of them are engineers, stationed in our four offices in Jakarta, Bandung, Surabaya, and Batam.

We believe that Industry 4.0 will change the world that we know today.

# How Do We Work?

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At Datacakra, we are solving the world's toughest and most important problems with the brightest talents from across the Indonesian archipelago.

We believe in logic, innovation, openness, and problem-solving.

Currently, Datacakra is the owner and designer of the **Rapidsense** platform which has been deployed across various companies in Indonesia and Asia Pacific focusing on the **3M** sector. **Rapidsense** lays several designed solutions to tackle and handle Industry 4.0 problems to achieve the sustainable development goals.

## 3M Sectors



**Manufacturing**



**Mining**



**Military**

# Our Industry 4.0 Value Focus

## VISIBILITY



Increasing visibility by displaying what were once unseen.

## EFFICIENCY



Raising effectiveness and efficiency by reducing costs.

## PRODUCTIVITY



Boosting productivity with intelligence and automation.

## REVENUE



Finding new source of revenue streams by leveraging IoT.



An IoT platform owned, built, and utilized by Datacakra to serve Industry 4.0 solution needs in Indonesia.

The exclusivity of this platform is supported by the embedding of **Copilot AI** which is interactively able to assist various business operations.

# Datacakra Services

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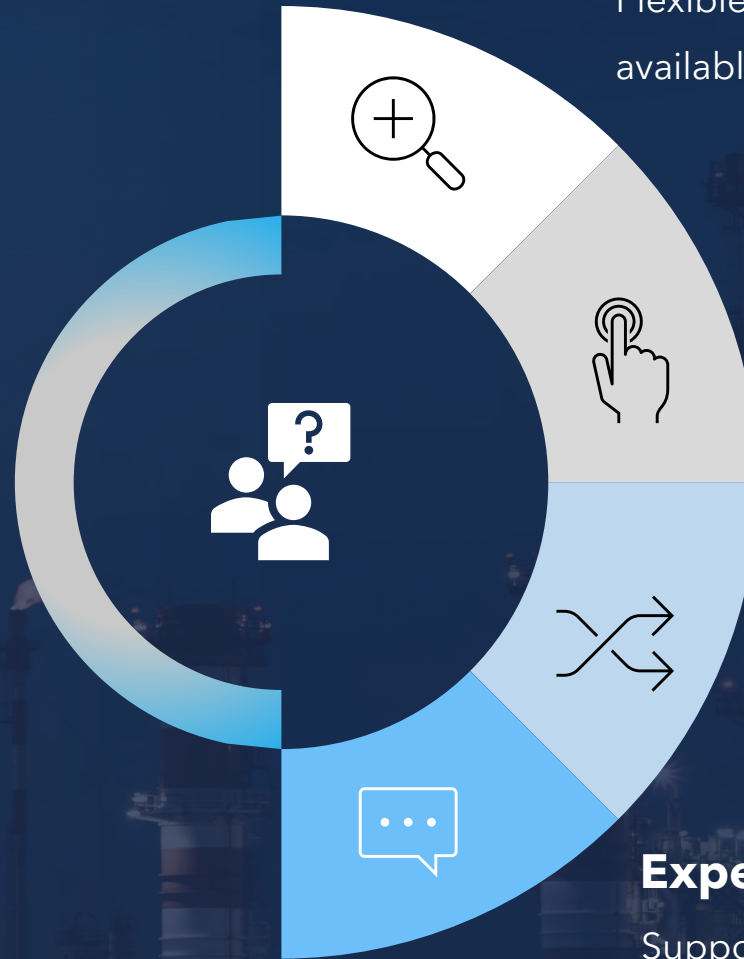
**Datacakra** assists the company's journey towards Industry 4.0. As the first step of entering Industry 4.0, **Datacakra** will give you the best services.



# Why Datacakra?

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Let **Datacakra** helps your organization to overcome challenges in your Industry 4.0 transition. With the help of IoT, the first step of entering Industry 4.0 will be done easily.



## Low Upfront Cost

Flexible pricing and also available as a service

## Designed for You

Solution is architected to tackle your specific needs

## Rapid Development

Our products shorten your time-to-market

## Expert Supports

Supported by a team of experienced IoT engineers



We will take you to learn more about  
Datacakra through our implementation

# CASE STUDIES



# Case Study #1

## Military Assets

Dealing with maintenance and supports of military vehicle (alutsista) to ensure the combat capabilities of TNI. Digitalization for asset monitoring simplifies the amount of data inputted into the system without manual data entry methods to reduce complexity of data input.



Location

Nationwide



Sector

Military



Solution

Military 4.0



## Case Study #2

# Environmental Monitoring

Monitoring industrial environment through temperature, humidity, CO2, O, NO. Our client was a healthcare sector, this solution helped ensure the incubator room quality is in stable condition. It also helped to make it easier to monitor sensitive areas that had standard environmental conditions.



Location

Jakarta



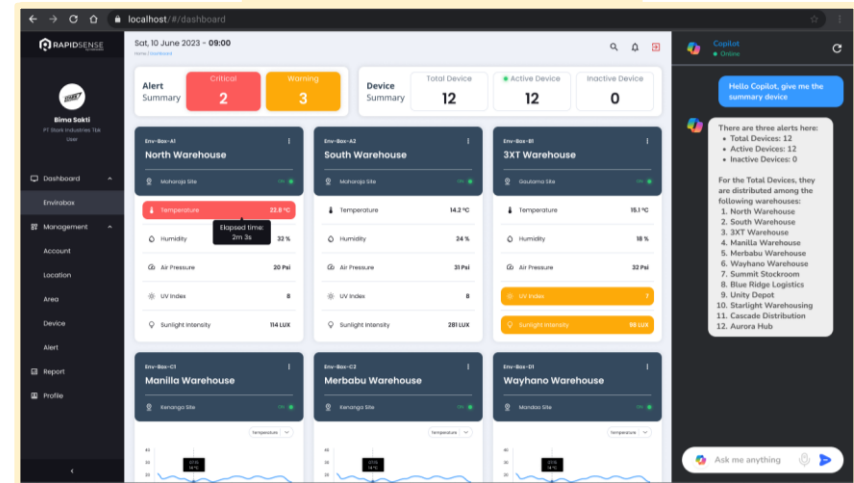
Sector

Healthcare



Solution

Environment Monitoring



# Case Study #3

## Machine Monitoring

Datacakra provided Energymeter device that was leased by our client. We developed a monitoring device that could track welding machine usage through the dashboard. The monitored object were energy usage, machine running status, and machine location (tracking).



Location

Balaraja & Majalengka



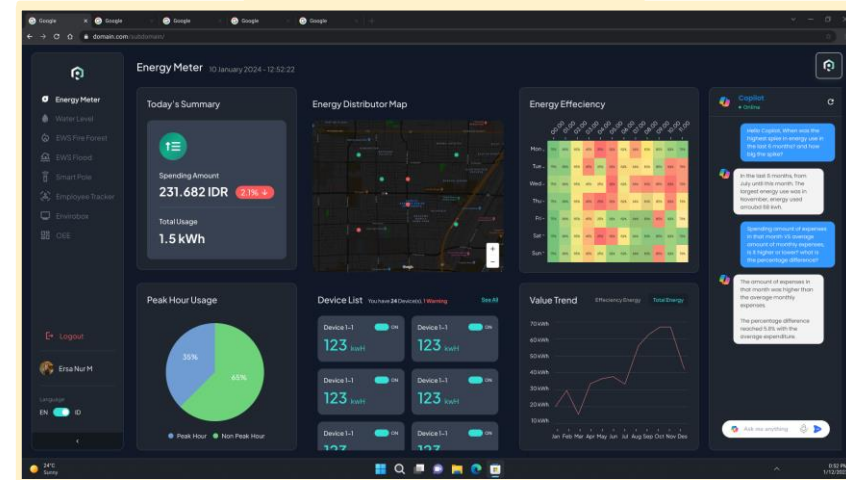
Sector

Manufacturing



Solution

Smart Factory



# Case Study #4

## Dwelling Time

Monitoring truck dwelling time, by measuring the duration of unloading time in front of the warehouse. By doing this, the company could measure the efficiency and effectiveness of unloading process. The identity of the truck and the goods could be monitored accurately.



Location

Cikarang & Karawang



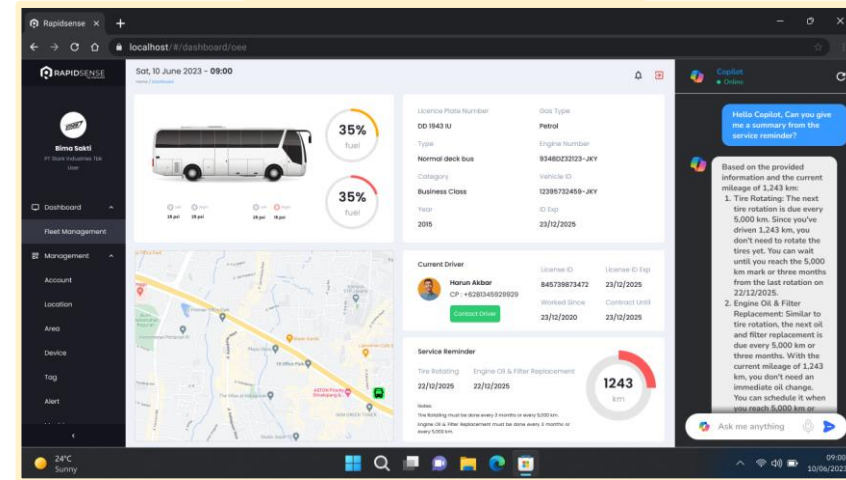
Sector

Manufacturing



Solution

Smart Factory



# Case Study #5

## Smart Pole

Monitoring the mining road to calculate the pollution level and intensity, smart street light, announcement board, and others. It was capable of processing the data to be utilized in ensuring acceptable environment quality level.



Location

Kutai



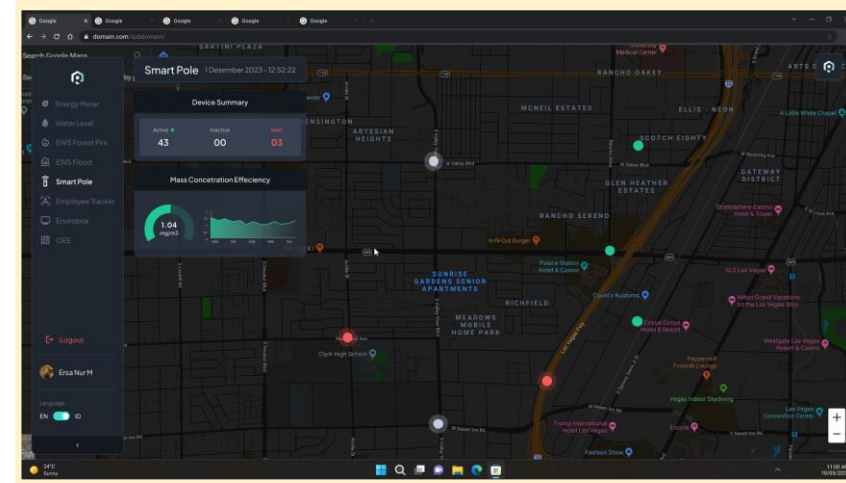
Sector

Mining



Solution

Environment  
Monitoring



## Case Study #6

### Visitor Truck Monitoring

The density of paper delivery transported by trucks required a digital system that made each truck's visit more structured. We provided and designed a system (mobile apps) that was able to record truck arrival schedules (reservation first), truck identities, and other data, therefore there was no buildup of truck queues in factory area.



Location

Bekasi

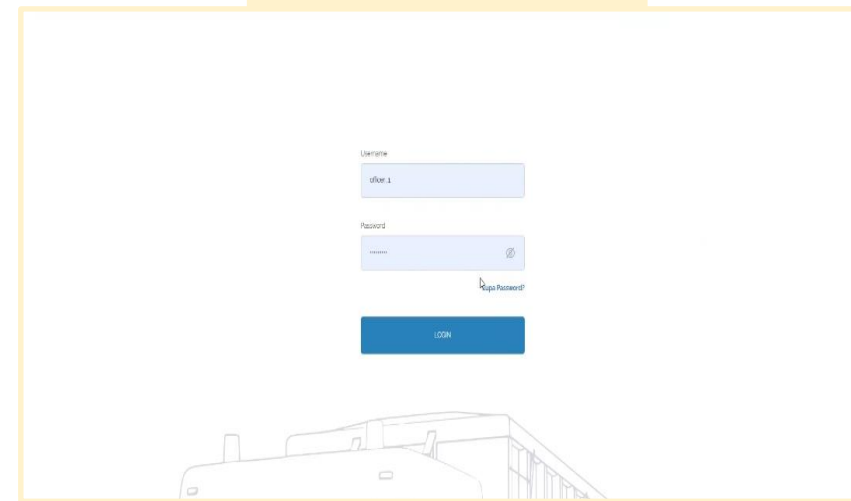


Sector

Manufacture



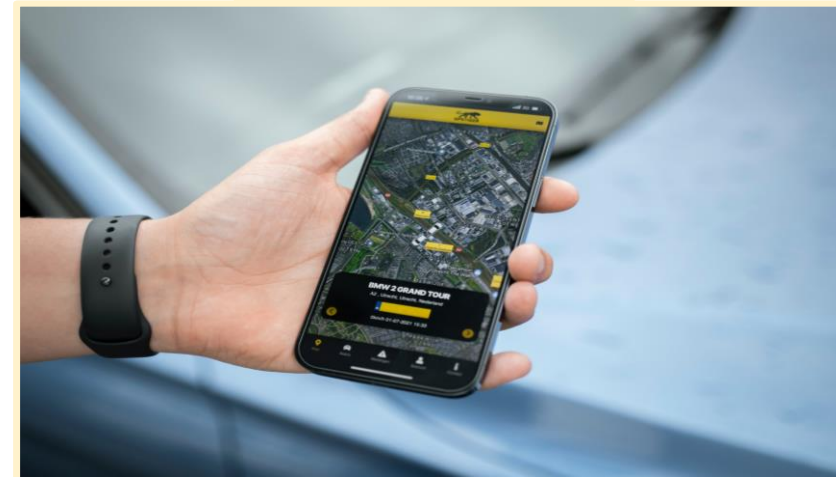
Truck Tracking



# Case Study #7

## Employee Tracking

Monitoring the operational area in the factory to avoid discipline issue. This solution was embedded with Bluetooth Low Energy that could transfer small amounts of data between nearby devices accurately.



Location

West Jakarta



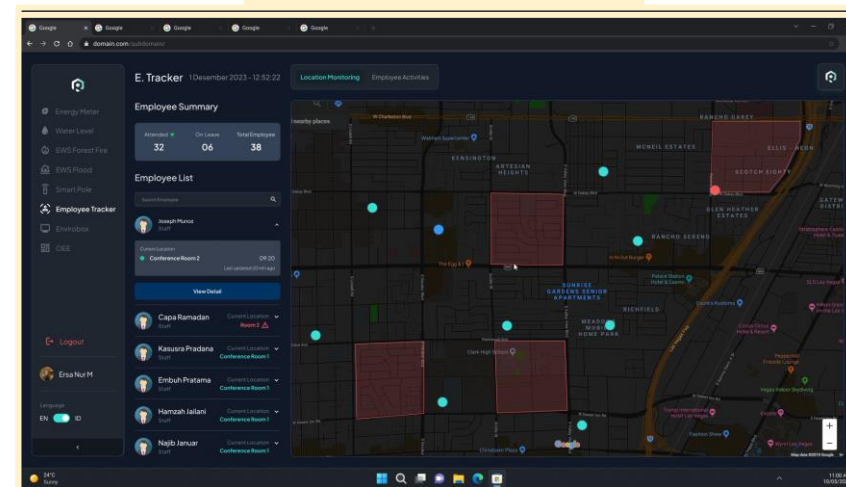
Sector

Manufacture



Solution

BLE Tracker



## Case Study #8

### Humidity Sensor Probe

Humid level in paper affected quality and operating costs. The humidity measurement was required in delivered paper. We made an adapter that could connect humidity probe sensor to a smartphone as QR Code scanner which was adjusted to registration number. All adapter limits were increased, so that they could measure paper humidity from a scale of 0-100%.



Location

Bekasi



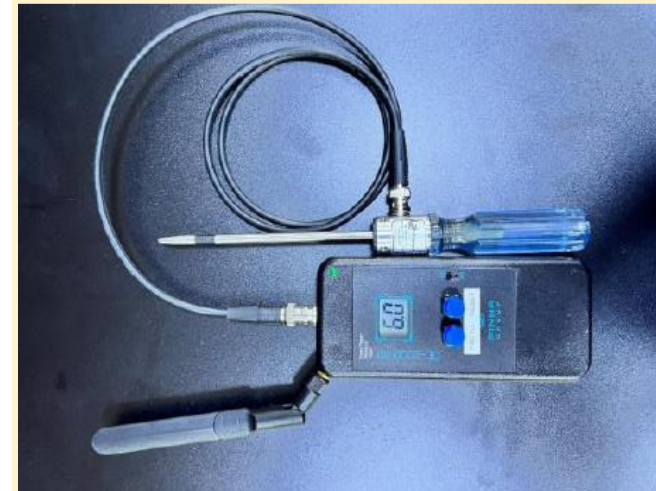
Sector

Manufacture



Solution

Moisture  
Checking





## Case Study #9

### Personnel Information System

The manual military personnel data input was upgraded to digital system. We designed special software that could be used to input all personnel data which was directly recorded in the system. With this solution, our client were greatly helped in terms of time and cost.



Location

Surabaya



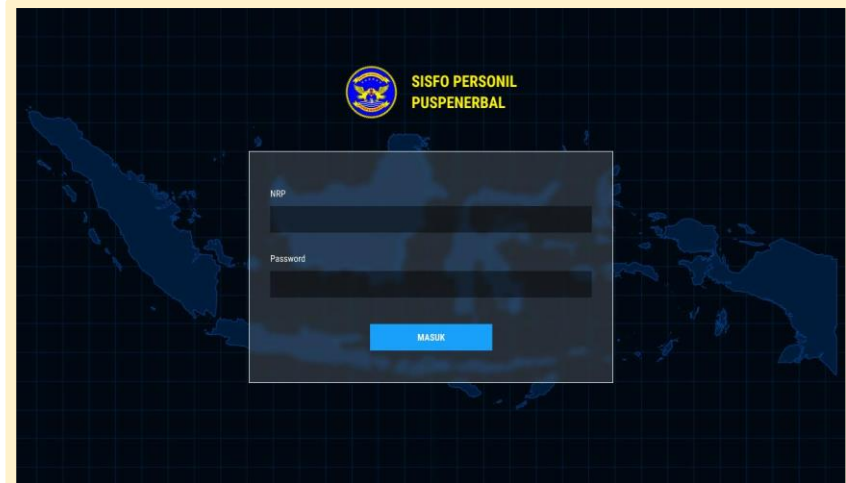
Sector

Military



Solution

Information  
System



# Case Study #10

## Flood Early Warning System

The high rainfall encouraged the Pasuruan and BSD City to install a warning system. We were here to help digitalizing water level monitoring with the Flood Early Warning System. Currently, flood conditions in Pasuruan and BSD City can be detected so that the communities can prepare for evacuation.



Location

Pasuruan and  
BSD City



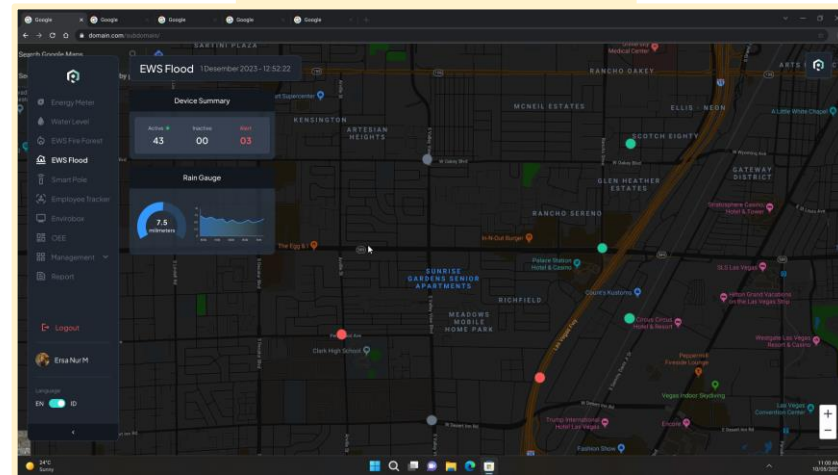
Sector

Government  
and Enterprise



Solution

Early Warning  
System



# Case Study #11

## Spatial Geoportal

In order to develop a more advanced Batam, we implemented Geo-X aimed at Batam by building interactive maps in Spatial Geoportal. We design maps with various categories with output in the form of geospatial website.



Location

Batam



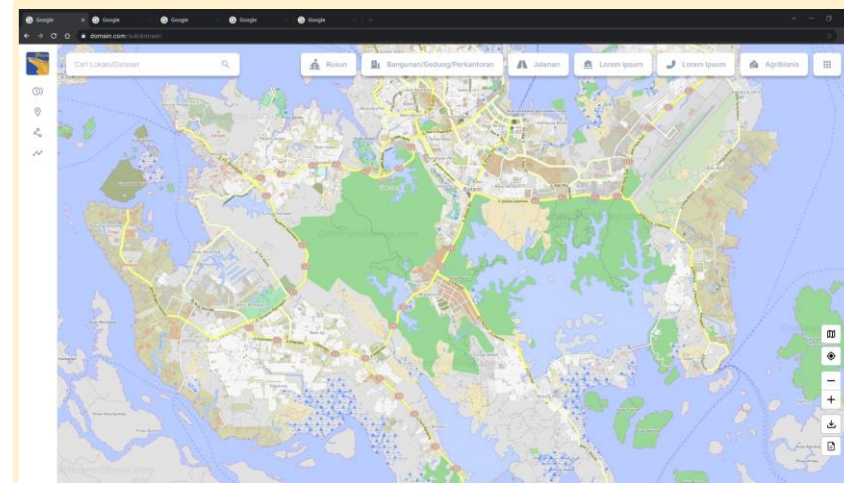
Sector

Government



Solution

Spatial Geoportal













**Datacakra** is Indonesia's leading Industry 4.0 solution company.

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