WIR & LMP®

EDGE DATA CENTER

Company Overview

About WIR Group

ABOUT THE COMPANY: WIR GROUP

WIR Group is an Indonesia-based technology company specializing in AR, VR, AI, quick commerce APIs, Blockchain, and Web3 gaming, creating innovative digital experiences for businesses and consumers.

2009
Establishment

1000+
Projects

Indonesia
Focus

23+
Countries where projects delivered

Global Award Winning Company

2022
Listed at IDX

5 Patents Registered under PCT
10+ Patents Pending

300+ total employees as of December 2024

ABOUT THE COMPANY: WIR GROUP

INDONESIA FOCUSED, GLOBAL PRESENCE

Projects Deployed

United States	Thailand	Hong Kong
Spain	Myanmar	Taiwan
Switzerland	Vietnam	Philippines
Malta	Brunei	Malaysia
Nigeria	Australia	Singapore
Oman	China	Indonesia

ABOUT THE COMPANY: WIR GROUP

Indonesia Best Digital Innovation Award **2024**

Representing Indonesia WEF DAVOS **2019-2023**

Digitech Award **2023**

The 8th Public Relations Indonesia Awards **2023**

Best Corporate Secretary Award **2023**

Best Data & AI Technology by DataGov AI Summit & Award November **2022**

Frontier Award Alibaba Cloud's Asiastar 10 x 10 November **2022**

WIR Solutions won an award hosted by the Asian Business Review October **2022**

Indonesia Technology Excellence Awards for AR and VR Technology October **2022**

Indonesia Top Digital PR Award September **2022**

Awarded Best Public Company by Warta Ekonomi with Prominent Trading Frequency August **2022**

Best IPO at the Investor Awards 2022 by Investor Magazine & Berita Satu Holdings July **2022**

Coverage by Forbes **2021**

Germany Design Award winner **2020**

Silicon Valley, USA **2016**

Silicon Valley, USA **2015**

Listed at Innovation 40 Companies by The New Economy awarded at the London Stock Exchange Studios **2014**

Company Overview

About LMP

ABOUT THE COMPANY: LMP

Leading Company in data center through manufacture modular data center for Hyperscale, Cloud, Colocation and Edge for data sovereignty and AI sovereignty.

Providing Hybrid Centralized & decentralized modular data center for savvy society

Founded in 2018

350+ Projects

International Certification Prefabricated Modular Data Center by TIA 942 Rated 3 Ready

Certified TKDN 30 Product by Ministry of Industry – 38 KBLI OSS

International Certification Assy MPO Connector by Sumitomo Electric Japan.

International Certification NPI (Networks of Preferred Installer by Corning USA)

Listed as a Vendor of Airforce Republic of Indonesia

ISO 9001 (2015) | 14001 (2015) | 45001 (2018) | 27001 (2022) | 37001 (2022)

ABOUT THE COMPANY: LMP

LMP®

Data Center Solution

We present LMP EDGE DC, a revolutionary solution to enhance efficiency, improve performance, and optimize your best Edge data center. With an approach that brings data processing closer to its source, we deliver remarkable latency reduction for maximum results in energy, cooling, and connectivity.

Our Services

Efficient & Personalized Process

Design a financial operating system that works for your business and streamlined cash flow management

Rapid Design

A simple, repeatable system that creates efficiency in construction, automatic design, and low-risk processes..

Tailored Integration

ration of mechanical & electrical systems in a factory for optimal quality & production speed.

Simplistic Assembly

Good documentation and a dedicated engineering team make it easier for the factory team to assemble modules smoothly

Global Service

Performing various types of maintenance and service performance enhancements to improve efficiency and reduce complexity at various locations.

Design & Build to dedicated to serve millions of people and thousands of businesses along Indonesia Archipelago who seek reliability, security, stability and availability for their critical systems every second.

As the first of Data Center Provider that serve Nationwide of People in Indonesia LMP NDC put his EDGE DC at every Main Island in Indonesia Archipelago.

Our EDGE DC are placed as near as possible to user to give high user experience on data processing by cutting the latency.

ABOUT THE COMPANY: LMP

LMP®

Our EDGE DC are placed as near as possible to user to give high user experience on data processing by cutting the latency.

specializes in solving complex challenges for industries operating in remote locations. By integrating connectivity, advanced compute, and real-world AI, we deliver solutions that provide immediate value.

Oil & Gas

Improving Operational Efficiency at Exploration and Production Sites through Reliable Edge Computing

Military

Decentralized Computing Infrastructure for Strategic Missions and High-Level Security

Manufacturing

Driving Industry 4.0 Transformation with Edge Data Centers on the Production Line

Mining

Real-Time Connectivity and Analytics in Remote Mine Sites with Robust Edge Solutions

Health Care

Delivering Speed and Security in Medical Data Processing at Critical Locations.

Telecommunication

Supporting Low Latency Infrastructure and Services with Integrated Edge Colocation.

THE INITIATIVE

WIR & LMP

The Role of EDGE DC (Container & Micro DC)

Empowering Connectivity:

Investing in Indonesia's EDGE Data Center Revolution

Indonesia Data Center Market

The Indonesia Data Center Market size is expected to reach 1.41 thousand MW by 2029, growing at a CAGR of 16.92%. Further, the market is expected to generate colocation revenue of USD 4,012.7 Million in 2024 and is projected to reach USD 11,193.7 Million by 2029, growing at a CAGR of 22.77% during the forecast period (2024-2029).

The penetration of data center in indonesia is still low 0.3 watt per capita compared to Japan 10 watt per capita and Singapore 100 watt per capita. The shows high gap in the supply of data center in Indonesia.

Source:
https://www.mordorintelligence.com/industry-reports/indonesia-data-center-market

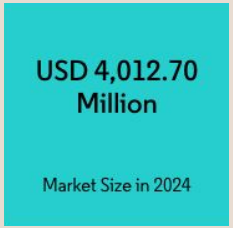
https://www.tribunnews.com/bisnis/2024/03/01/penetrasi-data-center-di-indonesia-salah-satu-yang-terendah-di-asia-pasifik

SUPPLY < **DEMAND**

430 MW
Current estimated capacity for data center in Indonesia (2025)

2,700 MW
Projected market demand for Data center in Indonesia

Dependant solely on current growth, although growing steadily, the demand is likely to continue outpacing supply, driven by increased digital transformation across industries, including government initiatives.
Source: https://investor.id/business/389709/indonesia-butuh-kapasitas-pusat-data-2700-mw



The factors contributing to data center growth in Indonesia are:

- Ongoing increased use of smartphones that coincides with the growth in e-commerce transactions, including mobile phone or computer games;
- Development of e-government services;
- Online computer and mobile voice over internet protocol calls and/or social media platforms;
- Cloud computing and big data analytics;
- The “Internet of Things”—the increasing connectivity of physical objects that allows them to collect and transmit data; and
- Government Regulation No. 82/2012, which states that by October 2017, all organizations, particularly financial institutions, must locate their Indonesian-related data in country.

Tax incentives

The Indonesian government rolled out tax incentives under Minister of Finance Regulation 130 of 2020 which provides support in the form of tax reduction for 18 industries, including digital economy data processing, hosting, and its related activities. The period of the tax reduction and the amount is dependent on the minimum investment of the applicant.

Investment	Income tax reduction	Period
100 billion rupiah (US$6.5 million) < 500 billion rupiah (US$32.8 million)	50 percent	5 years
500 billion rupiah (US$32.8 million) < 1 trillion rupiah (US$65 million)	100 percent	5 years
1 trillion rupiah (US$65 million) < 5 trillion rupiah (US$328 million)		7 years
5 trillion rupiah (US$328 million) < 15 trillion rupiah (US$984 million)		10 years
15 trillion rupiah (US$984 million) < 30 trillion rupiah (US$1.9 billion)		15 years
≥ 30 trillion rupiah (US$1.9 billion)		20 years

Indonesia’s enticing prospects for data centers

With a moratorium in place on new data centers in Singapore due to a lack of space, many data center operators are exploring alternative operations in so-called ‘tier two’ countries like Indonesia and Malaysia. Indonesia has the potential to develop over 500,000 sq ft for data center usage by 2028.

Indonesia’s thriving technology sector, a digital economy expected to have a GMV of more than US$220 billion in 2030, a burgeoning startup ecosystem, and an increasingly tech-savvy consumer base of more than 215 million people, the country provides a fertile ground for investment opportunities in local data centers.

National Resilience and AI System Continuity

Indonesia offers strong potential for EDGE Data Center development, driven by rising digital demand, geographic dispersion, and growing need for low-latency infrastructure. Global trends support this direction—former Google CEO Eric Schmidt recently emphasized the importance of decentralized data centers to enhance digital and AI system resilience.

Leading cloud providers like AWS are also investing in edge locations to bring services closer to users. With similar needs across Indonesia's archipelagic regions, EDCs offer a scalable and localized solution. This project aligns with global edge infrastructure strategies, making it both commercially attractive and strategically future-proof.

Sources:

- https://www.datacenterdynamics.com/en/news/former-google-ceo-suggests-building-data-centers-in-remote-locations-in-case-of-nation-state-attacks-to-slow-down-ai/
- https://awsfundamentals.com/blog/aws-edge-locations

Why Decentralised DC is important for Indonesia being an island nation?

A decentralized data center approach could be highly beneficial for Indonesia, particularly in terms of cybersecurity and geographical resilience.

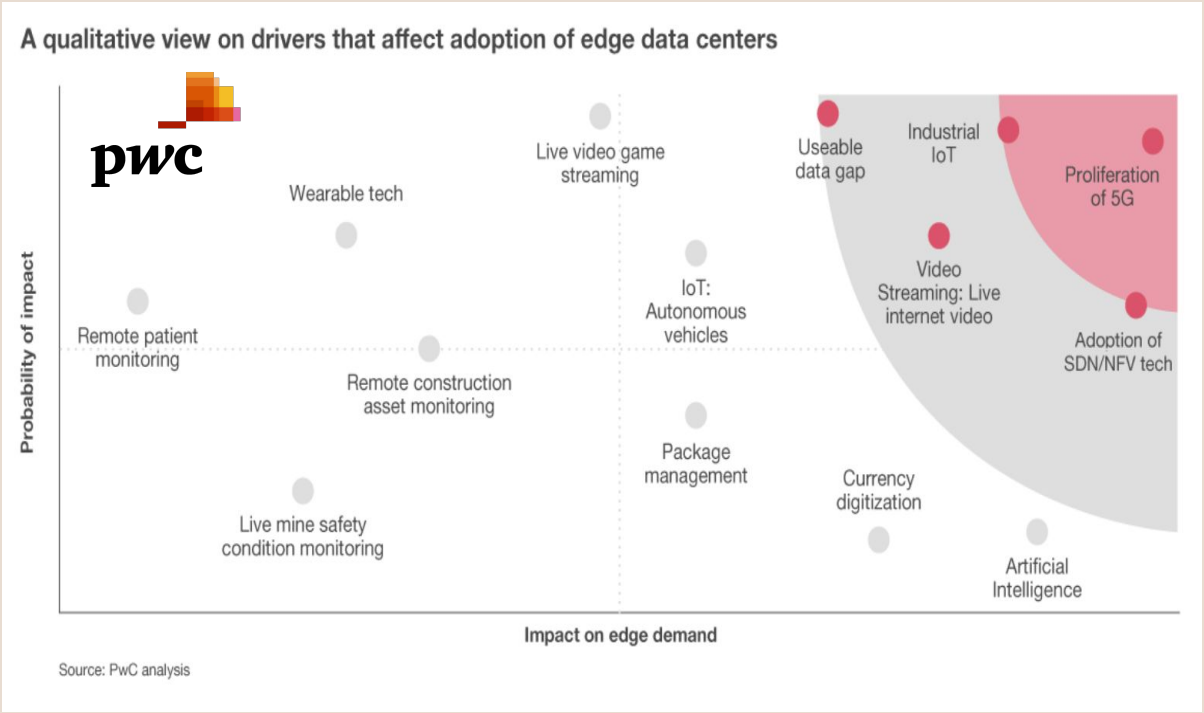
1. **Cyberattack Prevention**
   - A centralized data center creates a single point of failure, making it a prime target for cyberattacks. Indonesia has already experienced disruptions due to ransomware attacks on its national data center.
   - Decentralization distributes data across multiple locations, reducing the risk of a single breach crippling essential services. If one center is compromised, others can maintain operations.
   - Advanced security measures, such as AI-driven threat detection and high-level encryption, can be integrated across multiple decentralized centers to enhance protection.
2. **Geographical Resilience**
   - Indonesia is an archipelago with over 17,000 islands, making centralized infrastructure challenging. A decentralized network ensures data accessibility even in remote areas, improving service reliability.
   - Natural disasters, such as earthquakes and tsunamis, pose risks to centralized data centers. Distributing infrastructure across multiple locations enhances disaster recovery capabilities.
   - Decentralized centers can support local economies by fostering regional tech hubs and reducing dependency on Jakarta-based infrastructure.

By adopting a decentralized data center strategy, Indonesia can strengthen its cybersecurity defenses while ensuring robust digital infrastructure across its many islands.

Why EDC Is Growing in Trends - PWC Insights

- **Digital Infrastructure is the backbone of global economic growth**, driven by rising demand for AI, cloud computing, IoT, and low-latency services.
- **Hyperscale Data Centers alone cannot meet all market needs** — demand for **distributed, scalable, and proximity-based infrastructure** is accelerating, especially near the edge.
- **Edge Data Centers complement hyperscale deployments**, enabling faster content delivery, real-time processing, and localized digital services.
- Investors are increasingly drawn to **modular and scalable infrastructure models** that can meet dynamic digital workloads while reducing time-to-market.
- **Sustainability, energy efficiency, and automation** are becoming key evaluation factors — MDCs with lower PUE and smart monitoring systems provide competitive advantage.
- **M&A activity and infrastructure fund interest** continue to rise in the digital infra space, particularly for **regional and edge-based assets**.

Driver's of EDGE Data Center Growth

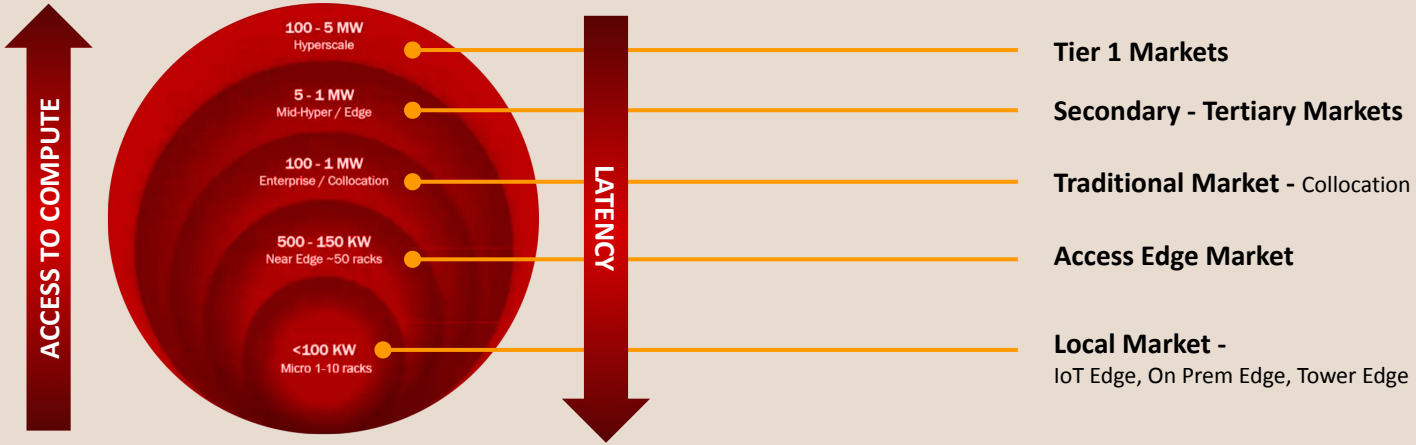


- **5G Acceleration :** The rise of 5G networks requires a distributed infrastructure. Edge Data Centers, integrated into decentralized small cell networks, provide a low-latency, cost-efficient backbone to support high-density 5G applications such as smart cities, autonomous systems, and real-time analytics.
- **Explosion of IoT Devices :** With the rapid growth of IoT deployments across homes, industries, and smart infrastructure, edge processing becomes critical. Edge DCs enable near-device data processing, reducing latency and easing pressure on core networks.
- **Closing the Data Processing Gap :** Edge computing helps bridge the widening gap between total global data generated and what can actually be processed centrally. By filtering and processing data closer to the source, EDCs reduce network load and improve data usability at scale.
- **Shift to Software-Defined Infrastructure :** The adoption of **Software-Defined Networking (SDN)** and **Network Function Virtualization (NFV)** allows data centers to deliver advanced network services without expensive proprietary hardware—boosting agility, scalability, and cost-efficiency.
- **Demand for Video, AR/VR, and Real-Time Content :** Edge-based (Container) DCs significantly lower latency for high-bandwidth applications like video streaming, virtual reality, and augmented reality—meeting growing consumer and enterprise expectations for seamless, real-time digital experiences.

The Rising of EDGE Data Center in the era of EDGE Computing

Edge data centers, which have a small footprint, deliver the capabilities of traditional data centers in a more compact form and are often used for edge computing applications. According to Gartner, it is projected that by 2025, 75% of data generated by enterprises will be processed outside of the cloud or centralized data centers, with a significant portion being handled through Edge data centers.

Edge data centers are compact, self-contained computing facilities that include components like servers, storage, networking, power, and cooling on a small scale. These portable units can be deployed indoors or outdoors.



Why the role of EDGE data centers are important?

Meeting latency demands through scalability & cost effectiveness

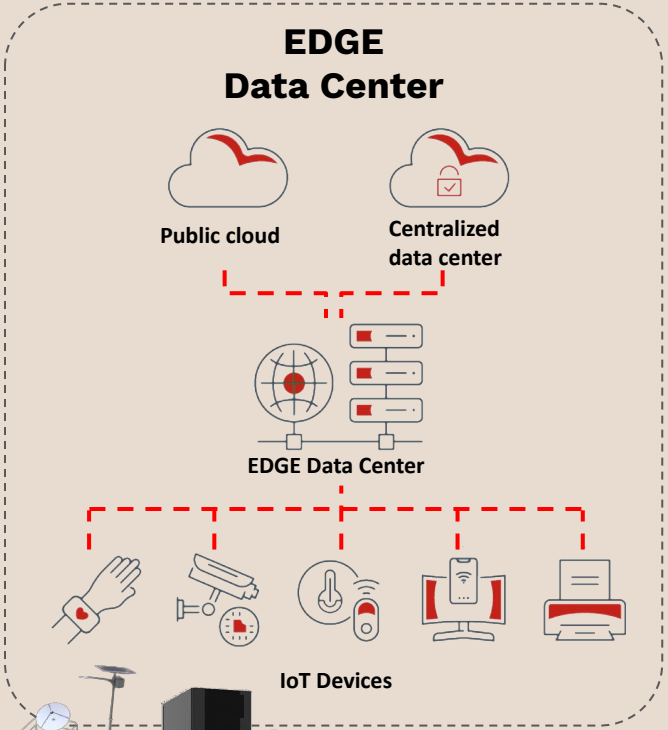
In applications where even a millisecond of delay can be critical, such as in emergency services, These Data Centers provide the speed necessary to process and analyze data in real time.

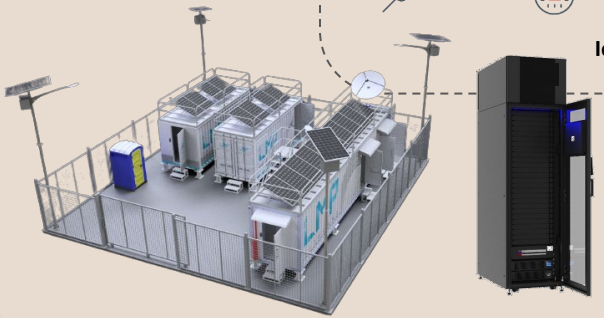
Bringing data closer to users

By decentralizing data processing, the data center ensure that data does not have to travel long distances to be processed, thus reducing latency and bandwidth costs.

Facilitating IoT and other real-time applications

The proliferation of IoT devices and applications relies on the immediate processing of data. These Data Centers make this possible, enabling smarter cities, industries, and homes.





Potential EDGE Data Center Use Cases

Potential use cases for edge data centers

Edge data centers may soon handle much of the data that flows through many sectors of our economy.

Agriculture: Billions of farm animals are scattered all over the world. Farm analytics to manage disease are adding to the data gap—which edge centers can close.

Banking: Edge data centers provide the low latency that traders and asset managers increasingly depend on.

Defense: Military drones connected to edge computing react faster and relay information more quickly.

Health care: Robotic surgeries depend on ultra-low latency computing and uninterrupted network access, which edge data centers supply.

Industry 4.0: Multiple smart factory use cases include machine predictive maintenance and predictive quality management.

Inventory: Analytics at the edge can increase efficiency for robotic picking and inventory management, as well as for delivery fleet management and package tracking.

Mining: When analyzing data from mines that could indicate dangerous geological or chemical conditions, edge computing's low latency can save lives.

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THANK YOU