innoveam
Knowledgeable Innovation

3D SIMULATION & XR SPECIALIST

Optimise your operations with AI-Driven 3D Digital Twins & Collaborative XR

Innoveam is a leading 3D Simulation & XR Specialist with a decade of experience. We help businesses implement digital transformation strategies to enhance efficiency & productivity through AI-driven 3D Digital Twins & interactive XR interfaces that revolutionize workplace collaboration within secure virtual environments.

ABOUT US

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Innoveam is a leading provider of Engineering and Digital Transformation solutions, specializing in 3D computer simulations and interactive application design. Our niche lies in integrating 3D technologies with other advanced digital solutions to solve complex engineering challenges and enhance industrial operations.

We deliver 3D engineering analysis, AI-driven digital twins, and collaborative XR applications, helping industries like Oil & Gas, Construction, Military & Defense, and Smart Cities improve efficiency, reduce costs, and accelerate decision making. Backed by a proven track record with PETRONAS and government-linked agencies in Malaysia & Indonesia, Innoveam is at the forefront of driving 3D-powered innovation in industrial digitalization.

ABOUT US

ASPIRATIONS

Innoveam is dedicated to empowering industries with Collaveo, our NextGen Industrial Computing Interface, designed to transform the way businesses operate. Through the convergence of 3D Digital Twins, Real-time Data, AI, and collaborative XR, we equip the future workforce with tools to accelerate decision-making, boost productivity, and reduce environmental impact. With strategic investment, we aim to lead regional growth, scale up Collaveo's capabilities, and enable industries to leapfrog into sustainable, digital-first operations, creating enduring value and positioning Innoveam as a regional powerhouse in digital transformation,

VISION

It is our vision to see businesses implement digital technologies that transform the way they work—empowering their future workforce, creating sustainable business practices, reducing costs, and increasing productivity.

MISSION

Our mission is to provide a NextGen Industrial Computing Interface through our industrial metaverse platform, Collaveo, delivering a convergence of 3D Digital Twins, real time data, AI, and collaborative XR. Collaveo is designed for the future workforce, enabling accelerated decision-making and a reduced carbon footprint.

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DIRECTORS

ZAMIR RASHID
Principal Engineer, Managing Director

- MBA from Manchester Business School,
- MSc in Thermal Power and Fluids Engineering
- BEng in Mechanical Engineering from UMIST, Manchester.

SADDIQ KAMARUL BAHRAIN
Team Leader, Technical Safety Engineering, Operation Director

- BEng (Hons) Food & Process from University Putra Malays (UPM)

AMIR HIDAYAT HAMZAH
Principal Engineer, Technical Director

- Beng in Chemical Engieering from Vanderbilt University, USA

COMPANY HIGHLIGHTS

10 year anniversary
on 1 January 2023

PT Innoveam Indonesia
established in 2016

>100 Unique Clients

>300 Projects Completed

PETRONAS Licensed Company

Microsoft Partner | Mixed Reality

MALAYSIA DIGITAL

TM ONE 5G SPHERE

MTDC MALAYSIAN TECHNOLOGY DEVELOPMENT CORPORATION

MAJOR CLIENTS

PETRONAS

TOTAL COMMITTED TO BETTER ENERGY

PERTAMINA

CyberSecurity MALAYSIA

TM ONE

celcom

DEPARTMENT OF OCCUPATIONAL SAFETY & HEALTH

POLISI SATWA

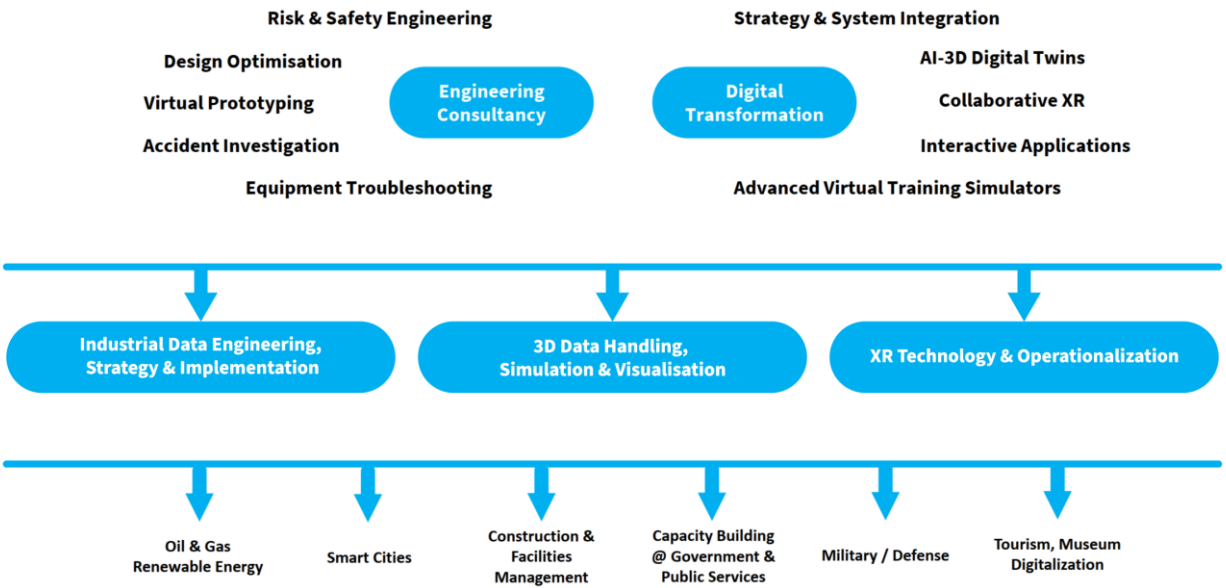
JTP JAWATIMURPARK

tmi pesona indonesia

tamanpintar YOGYAKARTA

muspen saksi perubahan generasi

OUR SERVICES



CORE CAPABILITIES

More than 10 years of experience in industrial digita
l transformation initiatives, with unique applied
knowledge in 3 key areas:

**XR Technology &
Operationalization**

**3D Data Handling,
Simulation & Visualisation**

**Industrial Data Engineering,
Strategy & Implementation**

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Industrial Data Engineering, Strategy & Implementation

01 **Data-Driven Strategy Identification**

Data Acquisition Technologies 02

03 **Intelligent Data Platforms**

Advanced Analytics & AI/ML 04

Advisory & Augmentation

- Enterprise Architecture
- Data Driven Strategies
- Modernisation

Data Governance & Integration

- Multi-sourced Data Migration / Integration
- Data Quality
- Master Data Management
- Cybersecurity

Analytics Delivery

- Data Modelling
- Multi-modal analytics
- Synthetic Data Preparation
- Predictive / Prescriptive Analytics

Data Deployment

- Cloud Design / Deployment
- Full stack Development
- Software Integration
- Workflow Automation

3D Data Handling, Simulation & Visualisation

Various Types of 3D Data

- Volumetric CAD Models
- Surface Mesh Elements
- Photogrammetry Models
- Point Cloud Data
- 3D Game Objects
- GIS & 3D Maps

3D Data Optimization

- Improved User Experience & Visualisation Quality
- Low Latency Application
- Rendering Optimisation

High Fidelity Simulation

- Advanced 3D Simulation
- Multiphysics Simulation
- Synthetic Data Generation
- Validated Computational Models

Advanced 2D/3D Visualisation Strategies

- Interactive XR / Web / Mobile Deployments
- Realtime Remote Rendering
- Cloud/On-Premise Architecture

XR Technology & Operationalization

XR Operationalization Expertise

- Collaborative XR
- Spatial Computing
- Remote Assistance and Support
- Realtime Rendering Strategies
- User Experiences & Instructional Design
- Custom Application Development
- System Architecture Design & Implementation
- Turnkey implementation

collaveo
Collaborative XR

Our collaborative XR Platform, designed and built by our developers for industrial use

The Industrial Metaverse

Integrate and operationalise multiple digital technologies across the data value chain to improve business processes, improve efficiency and reduce costs.

Data Value Chain

Data Acquisition

- Realtime Data (IoT, Smart Sensors)
- **On**-Demand Data (Inspection, drones)

Data Storage

- Cloud/On-Premise
- Data Security/Cybersecurity

Data Analytics

- Business Intelligence
- Data Contextualisation
- AI/ML , Predictive, Prescriptive Analytics

Data Simulation

- 3D Digital Twins
- Engineering Simulation
- Synthetic Data for AI/ML

Data Visualisation

- Collaborative XR (VR/AR/MR)
- Spatial Computing
- 3D Data Platforms

3D SIMULATION & VISUALISATION

+

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

+

REALTIME DATA

+

COLLABORATIVE XR

collaveo
Industrial Metaverse Platform

MADE WITH Unity

NEXTGEN INDUSTRIAL COMPUTING INTERFACE

3D SIMULATION & VISUALISATION

+

REALTIME DATA

+

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

+

COLLABORATIVE XR

COLLAVEO IS OUR NEXT GENERATION INDUSTRIAL COMPUTING INTERFACE

designed to revolutionize industrial operations through the convergence of Realtime Data, 3D Digital Twins, Artificial Intelligence & Machine Learning, as well as Collaborative XR

By merging digital and physical spaces, Collaveo offers TechnoDigital Solutions that enhance operational efficiency and accuracy, accelerate decision making, reduce costs, and improve personnel safety.

Collaveo **integrates various off-the-shelf solutions and cloud services** to provide a robust and scalable immersive digital twin platform. Its system architecture leverages 3D datasets and realtime data integration, while offering rich and customizable user experiences for professionals to operate in a collaborative and immersive environment.

Additionally, Collaveo is designed to be deployed within secure corporate networks, supporting both on-premise and cloud infrastructure, ensuring compliance with security and data governance requirements.

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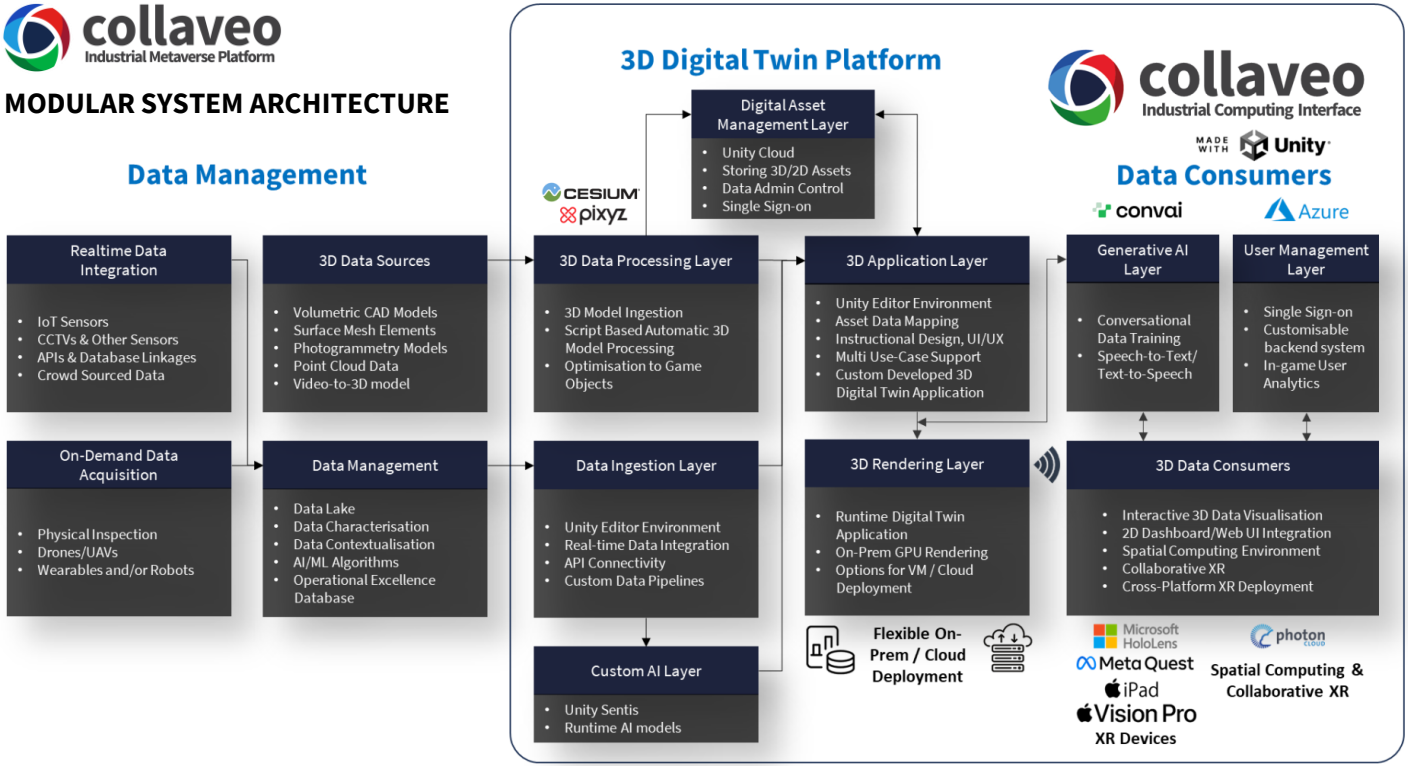
Industrial Metaverse Platform

MADE WITH Unity®

collaveo
Industrial Metaverse Platform

MODULAR SYSTEM ARCHITECTURE



collaveo
Industrial Metaverse Platform

SAMPLE DEPLOYMENT

Use Case: Maintenance Planning & Facility Improvements

Use Case: Advanced Training Simulators

Use Case: Project Management & Construction Modelling

Use Case: Facility Management & Virtual Control Rooms

INDUSTRY USE CASES

Oil & Gas, Process Industry

Smart City Management

Construction & Facilities Management

Military & Defense Industry

Government & Public Services

Oil & Gas, Process Industry

3D Engineering Simulation

- FEED/Detailed Design
- Design Optimisation
- Debottlenecking
- Safety Engineering

AI-Driven 3D Digital Twins

- Production Optimisation
- Asset Integrity / Project Management
- Construction Simulation (4D/AWP Planning)
- OSDU & CFIHOS data management compliance

High Fidelity Training Simulator

- Interactive Operator Training Simulator
- Capacity Building
- Role Based Emergency Response Training

Virtual Integrated Operations Centre

- Virtual Screens and Spatial Computing
- Remote/Co-Located Collaboration
- Remote support/ inspections

Benefits & Value Creation

- Optimise designs with detailed virtual prototyping
- Extend value from sunk costs in the development of 3D models
- Accurate predictive/ prescriptive analytics
- Avoid massive costs in physical command control centres
- Train as a team

Smart City Management

AI-Driven 3D Digital Twins

- Smart Infrastructure Planning & Management
- Environmental Monitoring & Sustainability
- Emergency Response & Public Safety
- Smart Energy & Resource Management
- Urban Development & Construction Optimization

Virtual Integrated Operations Centre

- Virtual Screens & Spatial Computing
- Remote/Co-Located Collaboration
- Interactive Public Engagement & Education
- GIS Data Integration

Benefits & Value Creation

- Manage large areas & citywide developments in a more intuitive way
- Simulate advanced phenomenon & gain valuable insights in the city level responses
- Accurate predictive/ prescriptive analytics
- Avoid massive costs in physical command control centres
- Communicate better with all stakeholders

Construction & Facilities Management

3D Engineering Simulation

- FEED/Detailed Design
- BIM LOD100/200/300
- Construction Engineering
- BIM LOD400
- 4D/5D Modelling
- Safety Engineering

AI-Driven 3D Digital Twins

- Realtime Construction Monitoring
- LOD500 & Facilities Management
- GIS / BIM Integration
- Carbon Monitoring & Reporting

High Fidelity Training Simulator

- Interactive Operator Training Simulator
- Capacity Building
- Role Based Emergency Response Training

Virtual Integrated Operations Centre

- Virtual Screens and Spatial Computing
- Remote/Co-Located Collaboration

Benefits & Value Creation

- Manage & Visualise 3D BIM data in a more intuitive way
- Simulate advanced phenomenon & gain valuable insights in the building level responses
- Accurate predictive/ prescriptive analytics
- Avoid massive costs in physical command control centres
- Communicate better with all stakeholders

Military & Defense Industry

3D Engineering Simulation

- Strategic Planning
- War Simulation
- Scenario Modelling
- Safety Engineering

AI-Driven 3D Digital Twins

- Asset and Facilities Management
- Troop management, personnel deployment logistics, & resource allocation

High Fidelity Training Simulator

- Interactive Operator Training Simulator
- Capacity Building
- Role Based Emergency Response Training

Virtual Integrated Operations Centre

- Virtual Screens and Spatial Computing
- Remote/Co-Located Collaboration

Benefits & Value Creation

- Manage & visualise assets in a more intuitive way
- Simulate advanced phenomenon & gain valuable insights in defence activities
- Accurate predictive/ prescriptive analytics
- Avoid massive costs in physical command control centres
- Communicate better with all stakeholders

Government & Public Services

Customised 3D Based Tools

- Strategic Planning
- Capacity Building
- Scenario Modelling
- Safety Engineering

AI-Driven 3D Digital Twins

- Asset and Facilities Management
- Troop management, personnel deployment logistics, & resource allocation

High Fidelity Training Simulator

- Interactive Operator Training Simulator
- Improve human resource capabilities

Virtual Integrated Operations Centre

- Virtual Screens and Spatial Computing
- Remote/Co-Located Collaboration

Benefits & Value Creation

- Manage & visualise assets in a more intuitive way
- Improve capabilities and capacity to serve public
- Accurate predictive/ prescriptive analytics
- Avoid massive costs in physical command control centres
- Communicate better with all stakeholders

COMPLETE END-TO-END SOLUTION

Innoveam is part of Microsoft, AWS and Apple partner network focusing on Mixed Reality and Visualisation Application Development, Cloud Services, Deployment and Operationalisation

Innoveam collaborates and actively engages with various Ministries & Government Agencies for the advancement of Digital Transformation solutions in Malaysia

Data Engineering Solutions Provider

Innoveam are experts in utilizing 3D based solutions from various OEMs and partners

Preferred 3D Game Engine

Alternative Developer Tool

Preferred Multiplayer Tool

Preferred Cloud Service

Preferred VR Headset

Preferred AR Headset

Full Haptic Suit for XR

3D Subsurface Solutions Partner

Realtime Drilling Solutions Partner

Cybersecurity Partner

Full stack Cloud Based Application Partner

IoT Data Platform

IoT Sensor Supply & Installation Partner

High Speed Connectivity Partner

ENVIRONMENTAL, SOCIAL, GOVERNANCE

Innoveam takes our responsibility for sustainability very seriously. For our ESG goals, we are using the UN Sustainable Development Goals as our guiding framework in our business decisions

We promote the usage of VRAR and Metaverse technologies to provide quality and fair education for all

Innoveam is an equal opportunity employer, and no discrimination is tolerated in the company

We promote the usage of VRAR and Metaverse technologies for collaboration, which can be done remotely. This avoids costly travel and reduce unnecessary carbon emissions.

We promote the usage of VRAR technology, providing good jobs for the youth and contribute to the growth of the economy

We promote the usage of cutting edge VRAR and Industrial Metaverse technologies, providing new and innovative ways of working

We are always looking at collaboration and partnerships than can further strengthen our efforts in fulfilling the SDGs and achieving our ESG goals

Ready to Revolutionize Your Company?

Transform your company with Innoveam's expertise in industrial data engineering, 3D simulation, and XR technology. We're more than a solutions provider; we're your partner in pioneering a smarter future.

- Tailored Solutions for Your Unique Challenges.
- Cutting-Edge Technology for a Future-Ready Business.
- A Partnership Built on Mutual Growth and Success.

GET IN TOUCH

Explore Schedule a discovery session to see how we align with your vision

Experience Witness our technology in action with a tailored demo

Collaborate Join our network of innovators shaping the future

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