SYNODUS COMPANY PROFILE

Forge ahead together
into the future Digital World

synodus

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01

Who we are

Your vision - Our solution

synodus

● Who we are

We are a group of more than 250+ competent developers based in Hanoi, Vietnam who are passionate about leveraging technology for inclusive growth globally.
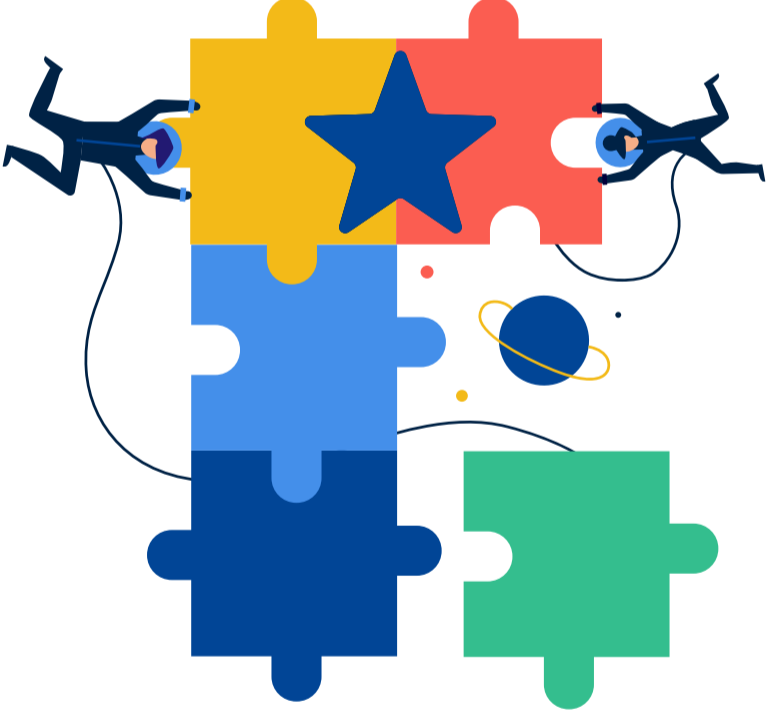

04+
years of experience

250+
competent developers

100+
projects completed & in progress

10+
countries

synodus

• Our team

DX

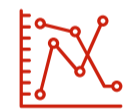Digital Transformation Implementation & Advisory for Public Sector

👥 100

Blockchain

Professional blockchain development &consulting services

👥 50

Data Analytics

Analytics Strategy & Roadmap, analytics Solutions & Services

👥 30

Software Development

Custom software development & tech advisory

👥 70

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We have expanded and served clients globally, acquiring valuable experiences and expertise in various domains, including:

Manufacturing

Logistics

Banking, Financial Services and Insurance

Retails

Energy and Utilities

Education

Telecommunications

Public Sector

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Sincerity
Empathy
Collaboration
Personal Accountability
Deliver Results
Diversity & Inclusion

"We never compromise on our principles and professional ethics."

• Our Mission

To be a reliable technology partner on our global clients' journey to digital future leveraging the right set of our assets and capabilities in Consulting, Technology and Smart Execution.

• What we believe

We believe that "Create value, start by listening". Work with us, then you will feel the difference. Why? An unique group of passionate people who care more about your success.

• **Our clients**

range from young and passionate Start-ups.....

BESPIN GLOBAL

Ovvy
The People Marketplace

yup.gg

Blockchain Tech Farm

DeFi For You.
defiforyou.uk

Okageシリーズ

BOODY

Travala.com

...to large ENTERPRISES

TOKYO GAS

viettel
Theo cách của bạn

DNP
Dai Nippon Printing

TECHCOMBANK

TOPPAN FORMS

SRA GROUP

B:
BUSINESS BREAKTHROUGH

KPMG

02

What we offer

One-stop shop for your mission-critical projects

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1. Digital Transformation Services

Digital-first companies are significantly transforming every major industry – from retail and energy to media, healthcare and travel. Confronted by robust digital disruption worldwide, enterprises have no other choice but adapt quickly and stay ahead of the curve by reimagining and elevating IT as a strategic core business function.

We are proud to contribute to digital transformation era with a strong focus on Vietnam public sector and large enterprises.

Technology   Consulting

Outsourcing

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What we offer

Unleash your business growth with New IT

What is New IT

New IT is a different way of conceiving, designing and deploying technology across an enterprise. New IT helps unlock unrealized streams of business value by optimizing a company's current IT estate while simultaneously innovating with a set of new technologies such as hyperconvergence, automation, cloud, AI, AR and VR, advanced algorithmic analytics, IoT, 3D printing or blockchain.

NEW IT PURPOSE

All about realizing value from technology innivation and the introduction of flexible controls.

New Modols, Efficiencies, New Costs & Funding, New Rules & Controls

NEW OPERATING MODEL

Change to a NEW IT operating model with new capabilities, evolved ecosystem relationships and new IT talent.

Multi-Speed Model, Culture & Talent, Governance, Ecosystem Management

NEW ENTERPRISE ARCHITECTURE

A decoupled, agile, future-ready architecture and an integrated ecosystem and critical enablers for NEW IT.

Lean Delivery, API Architeture, Collaborative Organization, Digital, Data & Agile Architecture

NEW METHODS AND TOOLS

New ways of working focus on scaled agile development, lean operations, innovation and intelligent automation.

Agile, DevOps, Innovation, Design Thinking

NEW TECHNOLOGY

Foundational new technologies page the way for businesses to unlock new potential streams of value; however they rely heavily on the evolution of EA methods and operating models to unlock their true potential.

Cloud, Platform & Ecosystem, Security, Big Data & Analytics, Robotic Process Automation, Artificial Intelligence, Blockchain, IoT

Our service in forcus

— Tech-driven digital transformation

— IT product strategy consulting

— Technology advisory

— Dedicated IT consulting tasks

Expectable business impact

✓ Establishing a new IT purpose: Positioning IT as a strategic business asset

✓ Building a future-ready IT Foundation

✓ Building more IT Muscles for your business leveraging innovative technologies

✓ Redefining a new way of working

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• How we can help to get started on the journey to New IT

How we can help

Define a New IT vision and strategy

Assess your organization's capabilities and create a digitally decoupled architecture

Analyse opportunities and identify gaps between what you want and where you are

Create a transformation roadmaps and actionable plan to deliver New IT to your organization

Implement new technology and ensure superb security along the journey

Why choose us

- ✓ Intense focus on security
- ✓ Deliver results
- ✓ Well-established expertise and experience
- ✓ Technology Agnostic
- ✓ ALL-IN-ONE provider

Client in focus

Public Sector   Consumer Goods & Services

Finance & Banking   Real Estate

Retail

Intelligent Operation Center (IOC)

Client: Public sector

Client background

Now more than ever, the public sector must balance the stability of service delivery with the speed to react to citizens' changing needs. Facing limited resources, compressed timelines and unprecedented challenges, leaders were looking for new ways of working to be successful.

We combine advanced technology and customer-centric approach to enable leaders across public sector organizations to turn ambition into action. We build an extensive and smart platform which serves specific needs of multi layers of governance, at the same time, delivers sustainable value for citizens.

Featured modules

- ✅ Data warehouse & Integrated Axis
- ✅ Electronic Reporting System
- ✅ Citizen Feedback & Request Platform

- ✅ Attendance Tracking Application
- ✅ Document Management System
- ✅ Task Management System

- ✅ Real-time dashboards & BI Reports
- ✅ Smart Meeting System
- ✅ Operational Application

CASE STUDY

Production Planning Optimization

Client: Unilever Vietnam

Client background

Unilever is one of the world's leading multinational companies specializing in food, home, personal care products. Started its operation in Vietnam in 1995, so far, Unilever Vietnam has built an extensive network of over 150 distributors and 200.000 retailers

Challenges

Time consuming on Production Planning & Scheduling

Internal large number of SKUs increases complexity, which costs money

Paper-based system lacks control, accuracy and agility

Solutions

- Intelligent Scheduling
- Production control & tracker

Result

10%
changeover cost reduction

80%
time savings weekly on production planning

Quickly
re-schedule the plan and get most optimized

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Enabling the concept of "Smart Hospital" to become reality in Vietnam

Client: Smart Hospital

Client background

The smart hospital approach is an inevitable choice in Vietnam to improve the quality of healthcare, achieve patient satisfaction and ensure security, safety and efficiency in hospital management. So as to spearhead in overhauling the conventional practices, a nation hospital reached out to us for IT Consulting and Implementation.

Our featured products

- Humanoid Robot Asasistant
- Hospital Information System

What we offer

- Assess the current capabilities and analyze opportunities to apply innovative solutions
- Identify gaps
- Define a new IT Strategy and Roadmap
- Execute the IT Modernization Pilot Project
- Ensure the first-class security

Benefits

- Humanoid Robot Assistant ran approximately 25% tasks of nurse related to instruction and guiding
- Monitor and share data from all departments & systems to prioritize patients activities and discharges
- Reduce ED wait time
- Improve quality, safety and optimized clinical operations
- Smart storage of medical records & ready for use
- Online Booking for health check at hospitals/ clinics

2. IoT & AI Solutions

We are on our way to complete a comprehensive suite of smart city solutions ranging from smart tourism, traffic management, surveillance system, smart chatbot platform and intelligent lighting systems. Our deep understanding of IoT and proven expertise in wireless design and connectivity solutions, have made us recognized and trusted by our global clients and partners.

Smart Lightning   Smart Tourism

Smart Chatbot   Surveillance System
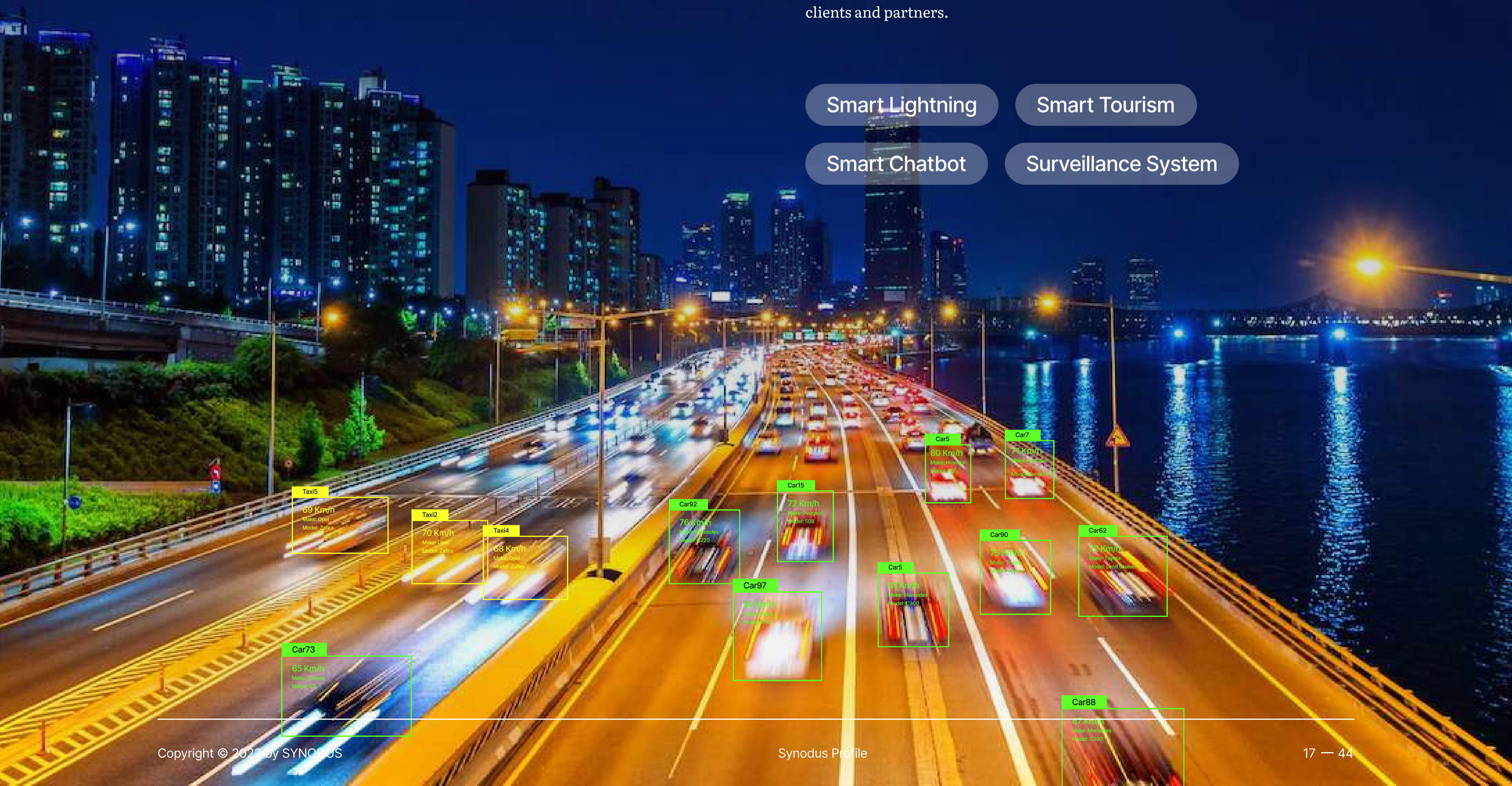
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Device Management System

Video Analytics System

Client background

Local authorities in Vietnam are seeking CCTV solutions for the sake of public safety, criminal control, disease tracking. Amid Covid-19 pandemic, they are more eager to make the most out of hundred thousands of available cameras and the expansion of 5G over the past years.

Built on the state-of-the-art Computer Vision technology, our VMS suite enables clients to reap the benefits of anywhere, anytime, and any device video surveillance with high accuracy, ultilizing optimal hardware resources and at optimal processing speed.

This VMS system includes 2 main modules:

— Device management system

— AI-based monitoring system

Feature highlights

- ✔ Centralized system management
- ✔ Unlimited Scalability
- ✔ Health monitoring and alerts in real time
- ✔ Customizable user management
- ✔ Live stream in real time
- ✔ UI/UX friendly

Device Zone - Các thiết bị giám sát

Data storage/Storage

NVR Storage

Event Storage

Edge SmartCCTV - Phân hệ chức năng biên

(NVR) (Camproxy) (NVS) (MonitorDisk) (PtzOnvif)

SmartCCTV Center - Phân hệ quản lý thiết bị

(NVRCtrl) (NVSContrl) (MonitorCtrl) (AuthZ) (APIControllerSvc) (PtzCtrl)

(CamproxyCtrl) (AuthN) (FtpServer) (Web) (Eureka) (APIGateway)

Control Center - Giám sát & Điều hành
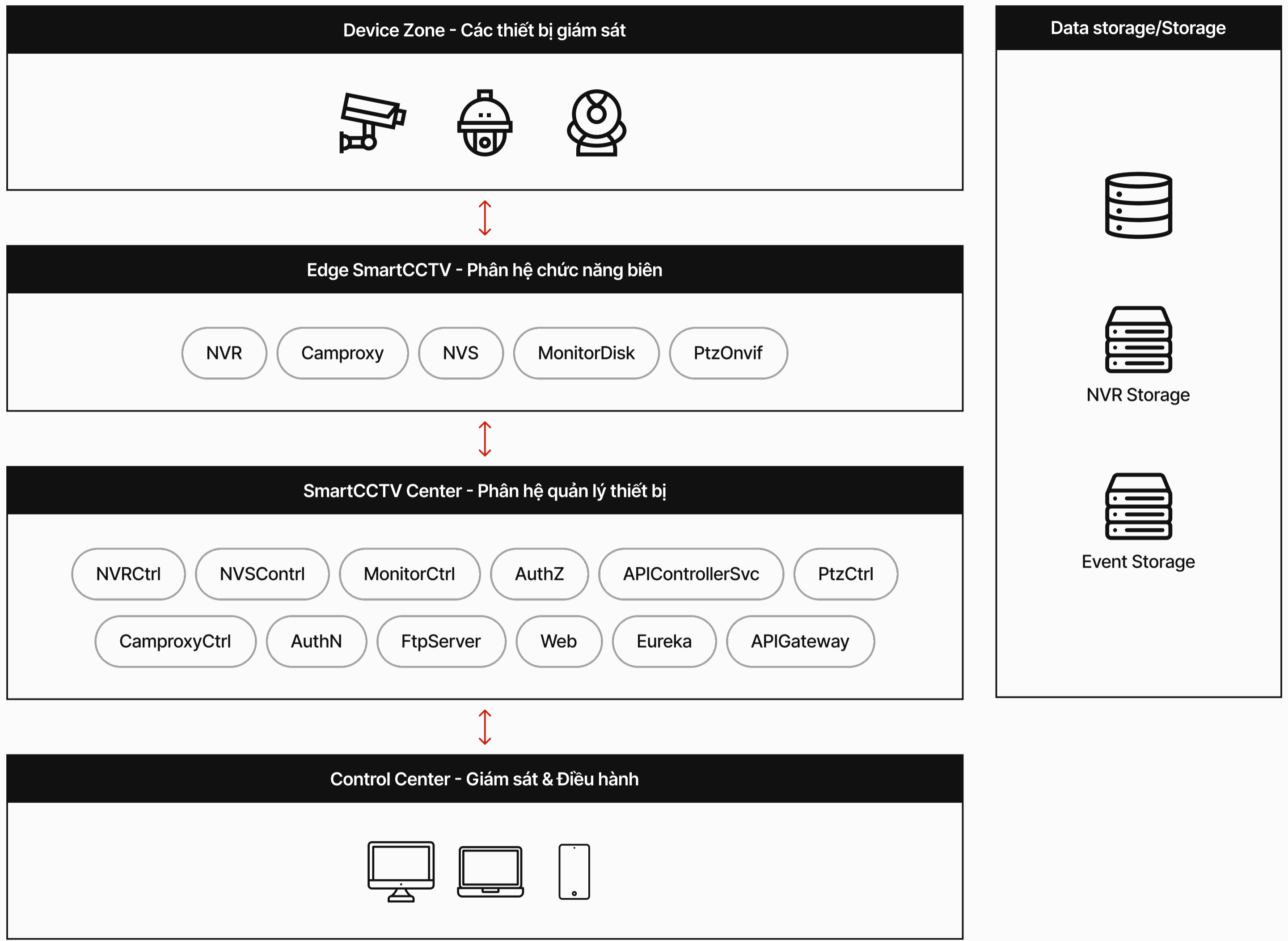
SOLUTION

AI-based Monitoring System

Video Analytics System

Video Analytics use cases

- Face mask detection
- Traffic management
- Parking management
- Crowd anomaly detection
- Fighting/ chaos detection
- Intrusion detection
- Fire & smoke detection
- Fire & smoke detection
- Incident detection
- Age detection
- Attendance tracking
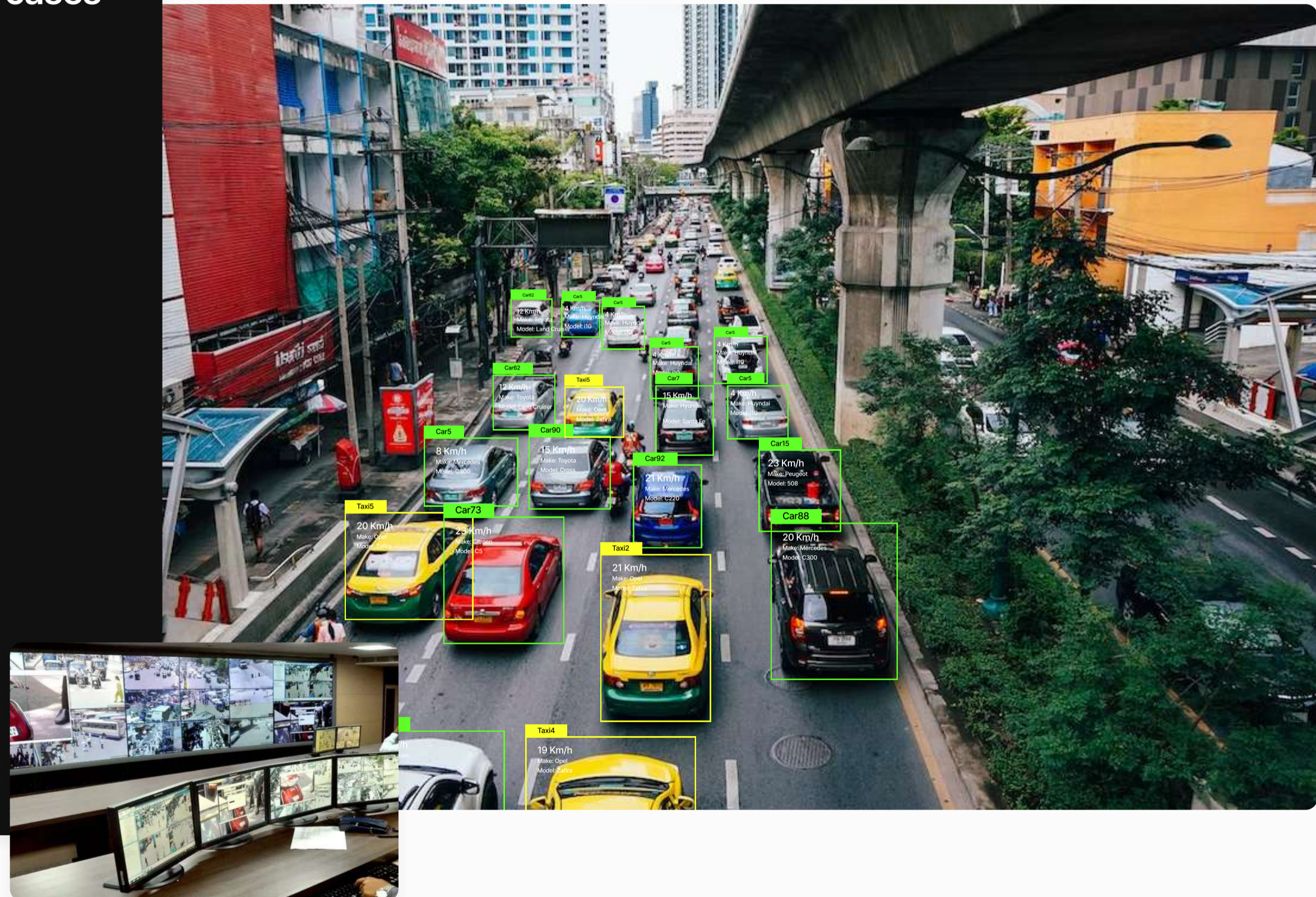
Smart Lighting

Client background

Growing awareness about energy savings among both private and public sector has paved the way for the arise of energy-efficient lighting systems. At the same time, cities and municipalities update infrastructure and street lighting systems, the demand for smart lighting systems will certainly grow significantly in coming years.

Our Smart Lighting Solution leverages the cutting-edge technology such as Big Data Analytics, Machine Learning, AI and IoT to ensure a great ROI on efficient energy consumption as well as save on costs of maintenance of the lights

The system can be deployed in a wide range of scale from smart buildings (smart home, smart building) to smart streets (smart city).

Feature highlights

- Control and monitor lighting equipment (via RF radio waves), measure & calculate energy remotely

- Assets management

- Display lighting points on an intuitive, real-time GIS map

- Encrypted data management system for collection, storage, and backup

- On-site equipment failure warning

- Energy saving analysis

- Safety and security for the entire system of electrical and IT

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3. AR/VR Solutions

Our team have had a firm foothold in VR/ AR since 2016. We develop AR & VR applications which are based on realistic business analysis to reinvent your company showcase and enhance customer experience. We have designed applications for real estate business, automobile industries, metaverse gaming and so on. Our team proudly converge innovative 3D designers, effective storytellers and competent developers who will bring you the first-class content for your AR/ VR needs.

Education & Training

Marketing & E-commerce

Tourism & Exploratory

Retails & Interior design

Gaming & Entertainment

Metaverse Gaming

Cyber8, a chill & earn NFT sport gaming experience

Client background

Global market giants are excited about Metaverse investments. The domain is currently a high-margin business battlefield with no leader. Great opportunities are open to every content creator. A well-established game studio in Vietnam reached out to us for end-to-end Metaverse solution.

Just like in the traditional game industry, in the Metaverse gaming dimension, people want to consolidate their identity and boost their wealth. We deliver a comprehensive Metaverse gaming solution to Cyber8 which ensures Cyber8 will grab the attention of potential investors, at the same time, create an immersive 3D gaming experience for game players.

What we offer

- ✅ Metaverse consulting
- ✅ Digital economies & assets development
- ✅ Metaverse NFT marketplace engineering
- ✅ Crypto infrastructure development
- ✅ Metaverse application engineering
- ✅ Metaverse integration services

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4. Blockchain Solutions

You need more than a great idea to achieve blockchain success. Our great team proudly converge top Blockchain & Security experts and talents based in Asia. We'll help you apply this technology to serve your business transformation and blooming tomorrow.

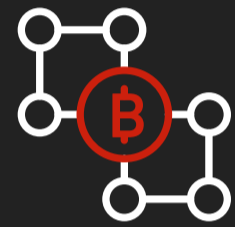Defi   Gamefi   Peer to peer leading

Digital assets (NFT)   Food trust   Music Copyright

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● Our service in focus

Synodus provides one-stop blockchain solutions, ranging from Blockchain Consulting to User Experience and Design, Blockchain Development, Deployment, Maintenance, and Upgrades.

Blockchain-based
Products Development

Platforms
Development

Blockchain
Professional Services

Blockchain with
Big Data, IoT & AI

Target market

Enterprise Market

Our major target market consists of corporates, public institutes and SMEs who are looking for blockchain-based solutions for the sake of business transformation.

Industry focus

Finance & Banking · Real Estate · Supply Chain

Telecommunication · Public Sector

Location APAC, North America

Start-ups

As a technology strategic partner, we accompany start-ups who own disruptive innovations throughout their development lifecycle from ideas to practical applications.

Industry focus

Cryptocurrency · Gamefi · Defi · Metaverse

Location Vietnam, North America, UK, Switzerland, UAE, APAC

Our Focus for Web3 Economics

Assets Tokenization

Increase liquidity at fair prices & reduce management costs

Domain Specific

Target on Domain to bootstrap values and market

Exchange value

Increase the value of assets, drive innovations on Web3 Economics

Metaverse Experience

Generate a new age of User Experience

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corda

A world-leading open source and enterprise platform that powers next-gen blockchain applications

D. DeFi For You.
defiforyou.uk

The world's first peer-to-peer lending platform that allows you to finance your assets without any intermediaries

Travala.com

A travel booking platform has been merged with cryptocurrency flight booking portal TravelbyBit

• Our people

15 Blockchain developers

Defi

Peer to peer lending

Gamefi

Non-fungible tokens

Smart contract

Supply chain transparency

05 Blockchain Researchers

Platforms: Ethereum, Binance SmartChain, Trons, Polkadot, Solana, Polygon, Corda

Cryptography: Multi-signature schemes, cross-chain custodial

Consensus Algorithm: Proof of Work, Proof of Authority, Proof of Stake, Raft Protocol

30 Software developers

Application development

Web design

Database design

Quality Assurance

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Defi For You

The world's 1st decentralized peer-to-peer lending platform to bring hard assets to blockchain

Client background

DeFi For You.
defiforyou.uk

DeFi For You.™ - A new decentralized P2P loan economy and the first-ever P2P NFT trading platform built on the Binance Smart Chain, powered by $DFY smart contract token.

We are strategic technical partner of Defi For You who have brought this breakthrough idea to life by leveraging our knowledge, expertise and experience.

Defi For You infrastructure

> **Peer-to-peer loans:** Users can borrow and lend from each other.

> **Lending from liquidity pool:** Stake your crypto and earn interest or borrow immediately at fixed interest rates.

> **Soft (digital) NFT market:** Trade and borrow against NFTs. Tokenize soft assets like carbon credits and trade instantly.

> **Hard asset NFT market:** Tokenize hard assets as NFTs and store them with our partners to get a crypto loan against them.

861,416,467	**28,700**	**120,000**	**139,381,732**
Total token supply	Wallet holders of DFY tokens	Transactions have been made with DFY	DFY burned so far in quarterly burned

5. Data Analytics Services

Our team of certified engineers and analysts are experienced in data projects across diverse industries and well-versed in a range of techniques while continuously re-equipping ourselves with state-of-the-art market solutions and researches.

Analytics Solutions

BI Dashboards & Reporting

Data Science

Data Transformation

Data Lake Warehousing

Data Unification

Data Strategy & Roadmap

Microsoft
Partner

Gold Data Analytics

Microsoft

Top companies and leading start-ups choose us
for their mission critical Analytics projects.

TECHCOMBANK   BỘ KẾ HOẠCH VÀ ĐẦU TƯ — MINISTRY OF PLANNING AND INVESTMENT   GOLDEN GATE   NGHI SON REFINERY AND PETROCHEMICAL LLC (NSRP)   **HITACHI**

TaylorMade   VSMART   **AVIS**   SMART CHANNEL PTY. LTD.   BOODY

• Our people

15 Data Scientists	**05** Data Engineers	**30** Data Analysts
Video Analytics	Microsoft Azure certified	Microsoft DA certified
Text Recognition	**Database:** Oracle, Spark SQL, SQL	**Domain:** E-Commerce, Finance & Banking, Retail, HR, Governmental Sector
Recommendation System	**Language:** Python, Java, PHP	**Tool:** Power BI, Tableau, Qlik, Looker
Chatbot	**Platform:** NiFi, Cloudera, Kafka	
Virtual Fitting Room		

Commercial Bank

Migrate reporting system to Power BI on-premise

Client background

One of the largest joint stock banks in Vietnam, our client provides a range of consumer and commercial financial services. It is a market leader in digitalization applications, especially in customer service (8.4 million customers by 2021).

Challenges

> The bank manages enormous volumes of transaction data. Managers need to respond to this information real-time.

Solutions

> We provide a full deployment of an on-premise Power BI Report Server. Currently, our Power BI experts are creating a centralized dashboard that oversees all bank activities for thousands of bank personnel, and hosting Power BI training for Techcombank analysts. We plan to optimize and automate credit analysis procedures and lead generation applications.

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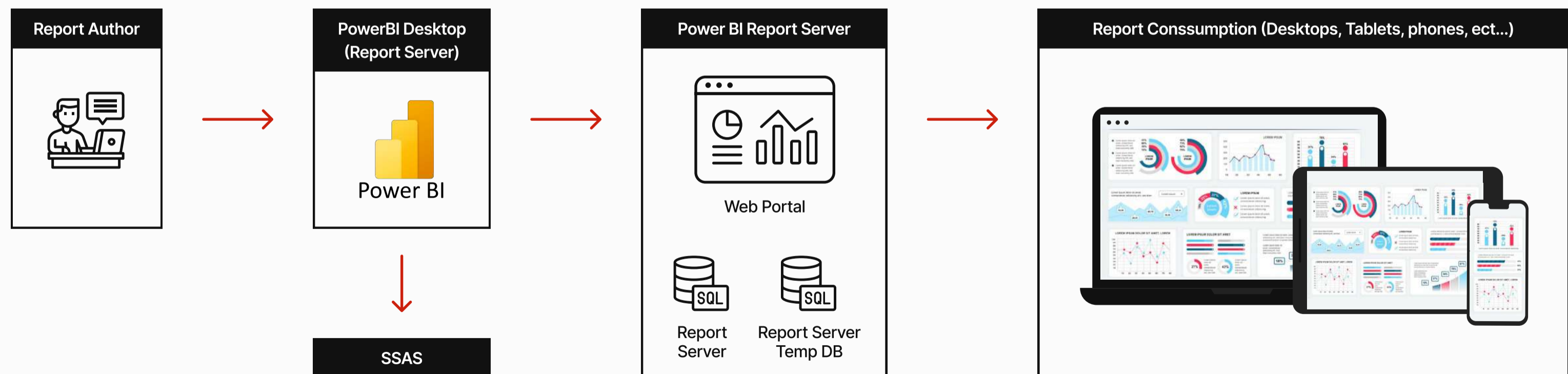
6. Custom Software Development

We are well-versed in building custom software. Whether you are a leading enterprises or a new start-up, you can delegate your mission-critical projects for us. We offer a matrix structure that ensures delivering the perfectly fit solutions and products to your specific needs and standards.

Mobile App Development   DevOps
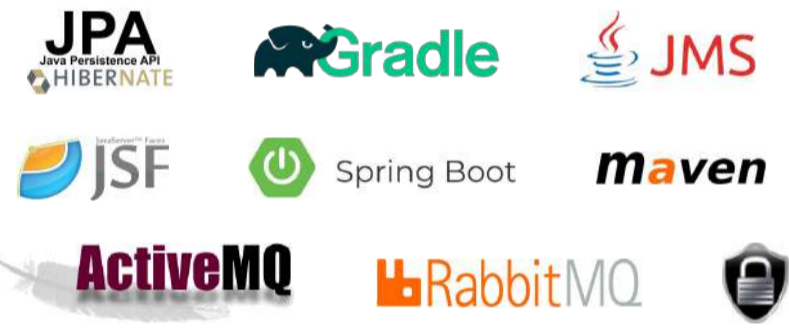
CRM Development & Business Automation

Web Development & Accessibility   IT & Software Development Consulting

Our Extensive Technical stacks

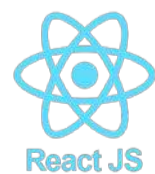|	Front-End	Back-End	Database	CI/CD/Deployment
Software Design	(DDD) Domain Driven Design - (SOA) Service Oriented Architecture TDD - BDD - Enterprise Service Bus - Microservices			Jenkins
Programming Language	HTML5, CSS3, JS, TypeScript, iOS Objective-C, Swift 2.0, Java, REST API	REST API, Java, Microsoft .NET, php, python	PostgreSQL	Octopus Deploy, TeamCity, kubernetes
Coding Framework	jQuery, jQuery mobile, jQuery user interface, Bootstrap, node.js, spring, React Native, hydra powered by redis, ANGULARJS by Google, Xamarin	JPA Java Persistence API HIBERNATE, Gradle, JMS, JSF, Spring Boot, maven, ActiveMQ, RabbitMQ	SQL Server, SQLite, neo4j, ORACLE, cassandra	docker, MARATHON
Testing Automation & Test Management Framework	Jasmine, KARMA, Protractor end to end testing for AngularJS, JUnit 5, APACHE JMeter, Selenium WebDriver, RedwoodHQ, cucumber Simple, human collaboration, POSTMAN, SoapUI, TestLink, ZEPHYR		MySQL	VAGRANT, Apache MESOS, Apache Tomcat
Project Management	agile Scrum, Jira, Confluence, Bitbucket, git		GraphDB, mongoDB.	amazon web services, Azure

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KPMG & AIA

Payment Portal Development

Business overview

Client were about to build a new payment portal which can be accessible through multiple entry points, with a customer-centric, consistent look and feel. Features required in the back end included automated notifications, dashboards, administrator page, etc... to streamline the end –to-end flow.

Tech stack

ESB Enterprise Service Bus

Adobe Experience Manager
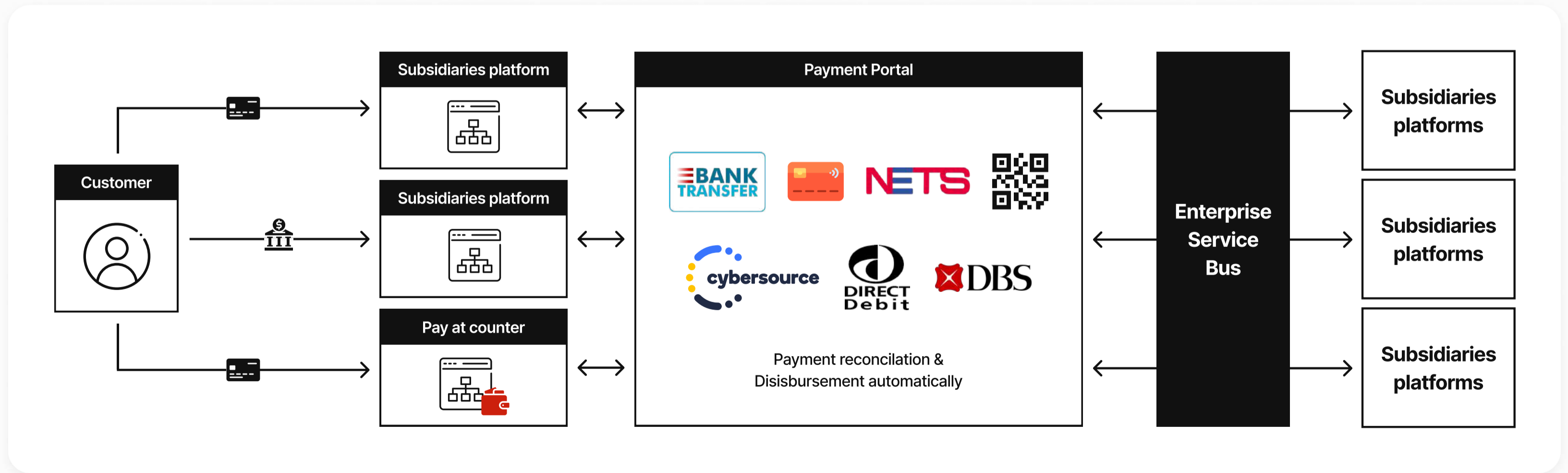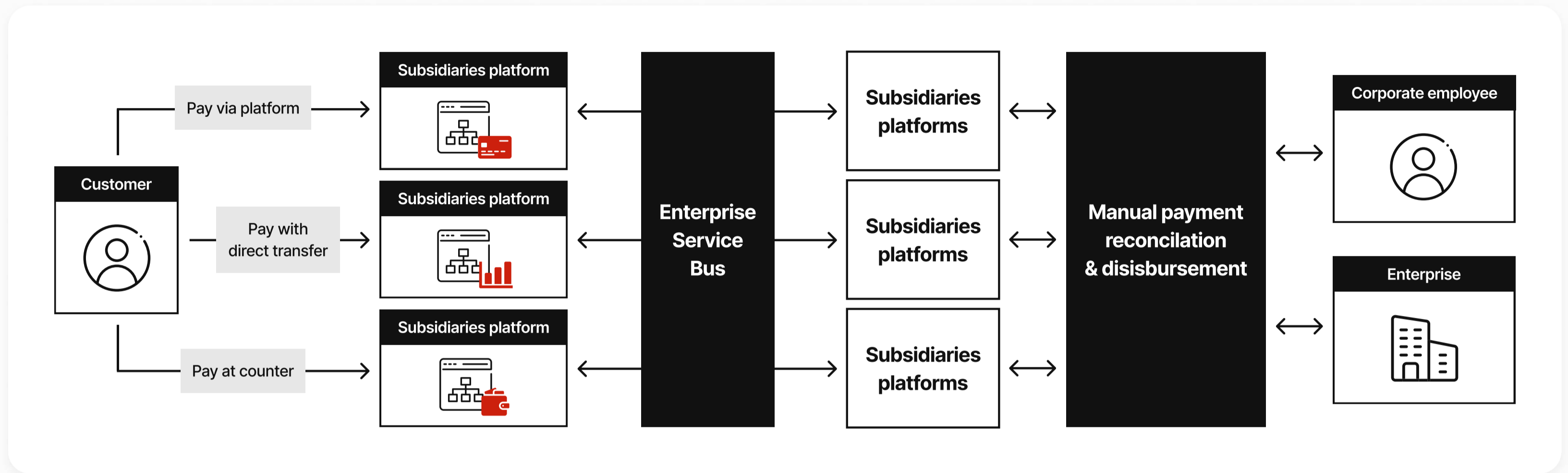
Microsoft SQL Server

JBoss™

Java

React JS

Challenges

- Multiple platforms for various products

- No single payment portal to be shared across platforms

- Needs to support multiple type of transactions and payment methods

- Complex client applications infrastructure

- Need to be easily configurable to include new transaction types, payment mode and leverage on business rules
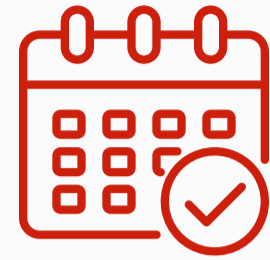

Payment Portal Overview

Top diagram (current state):

Customer
- Pay via platform → Subsidiaries platform
- Pay with direct transfer → Subsidiaries platform
- Pay at counter → Subsidiaries platform

↔ Enterprise Service Bus ↔

Subsidiaries platforms
Subsidiaries platforms
Subsidiaries platforms

↔ Manual payment reconcilation & disisbursement ↔

Corporate employee
Enterprise

Bottom diagram (future state):

Customer
- → Subsidiaries platform
- → Subsidiaries platform
- → Pay at counter

↔ Payment Portal

BANK TRANSFER · NETS · cybersource · DIRECT Debit · DBS

Payment reconciliation & Disisbursement automatically

↔ Enterprise Service Bus ↔

Subsidiaries platforms
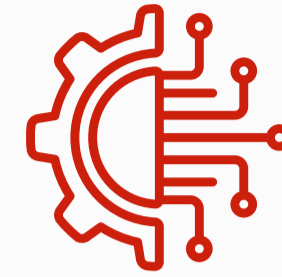Subsidiaries platforms
Subsidiaries platforms

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End-users

100,000+ AIA users
in Singapore

Development Period

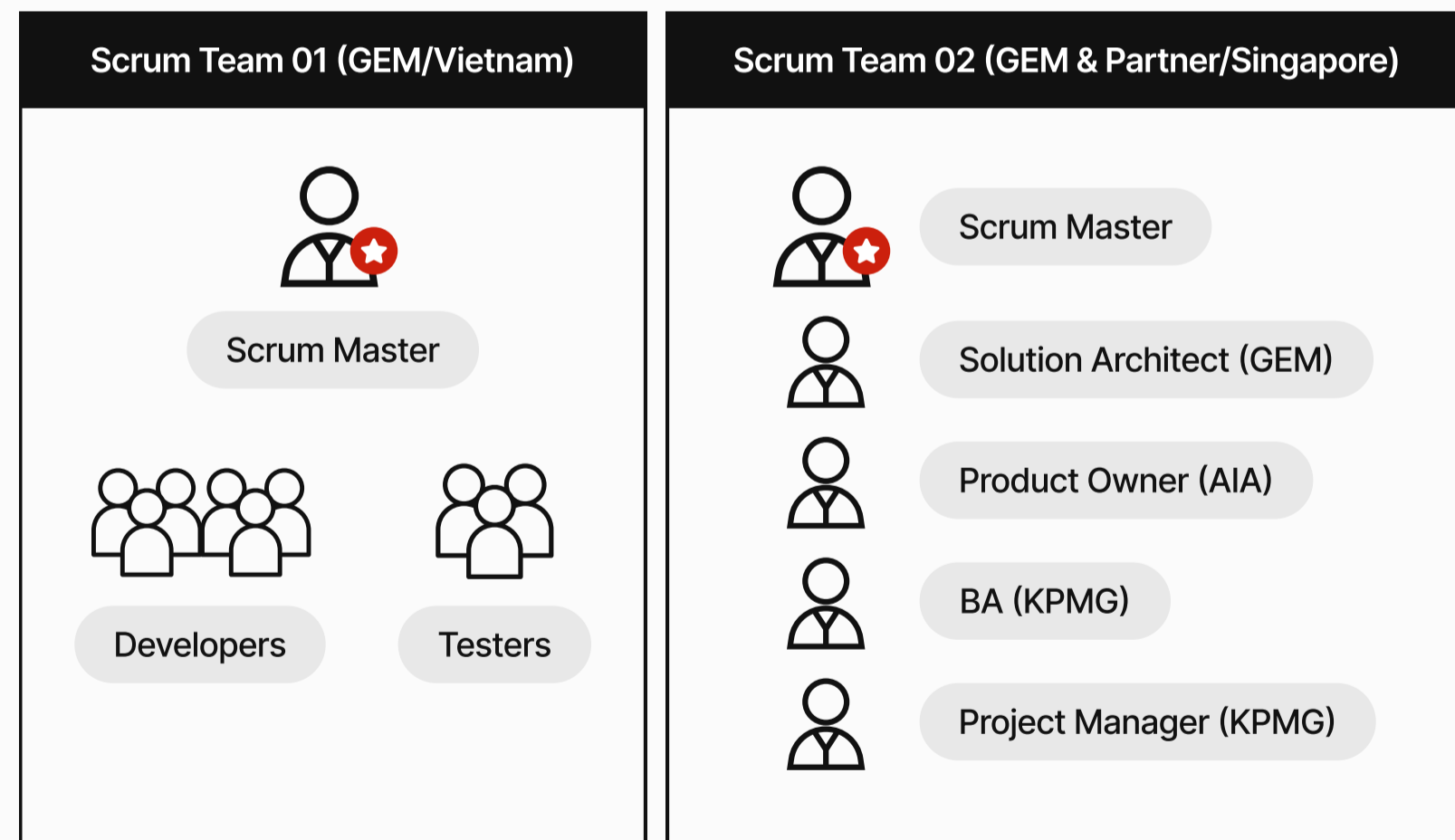01 discovery Sprint,
05 development Sprints

Technologies

Java, VISA's CyberSource
Platform, ReactJS & Adobe AEM,
AWS Deployment

Project Size

17 (GEM + AIA + KPMG
+ Partner)

Project Structure

Scrum Team 01 (GEM/Vietnam)

Scrum Master

Developers   Testers

Development + PoC Focus

Scrum Team 02 (GEM & Partner/Singapore)

Scrum Master

Solution Architect (GEM)

Product Owner (AIA)

BA (KPMG)

Project Manager (KPMG)

**REQ Development Design
Documentaion Focus**

Agile Development Activities

- Planning & Retrospective with customer's presence (ALL)
- Effective daily standup & progress tracking with burn-down chart (ALL)
- Weekly product backlog review & prioritization (SM/BA/PO/PD)
- Well-developed Definition of Done (SM/PO)
- Automated reporting using JIRA (SM)
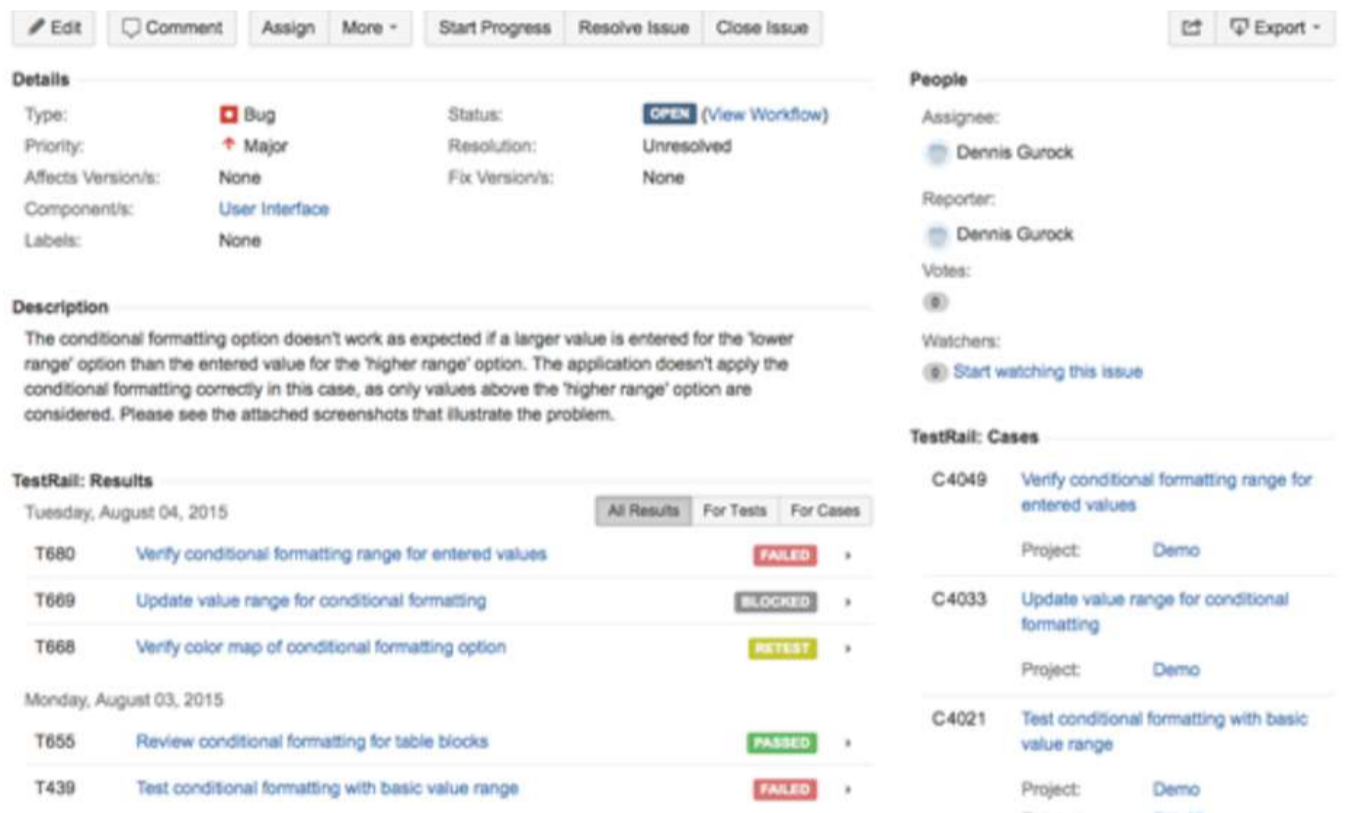- Automated testing report using JIRA (QC)
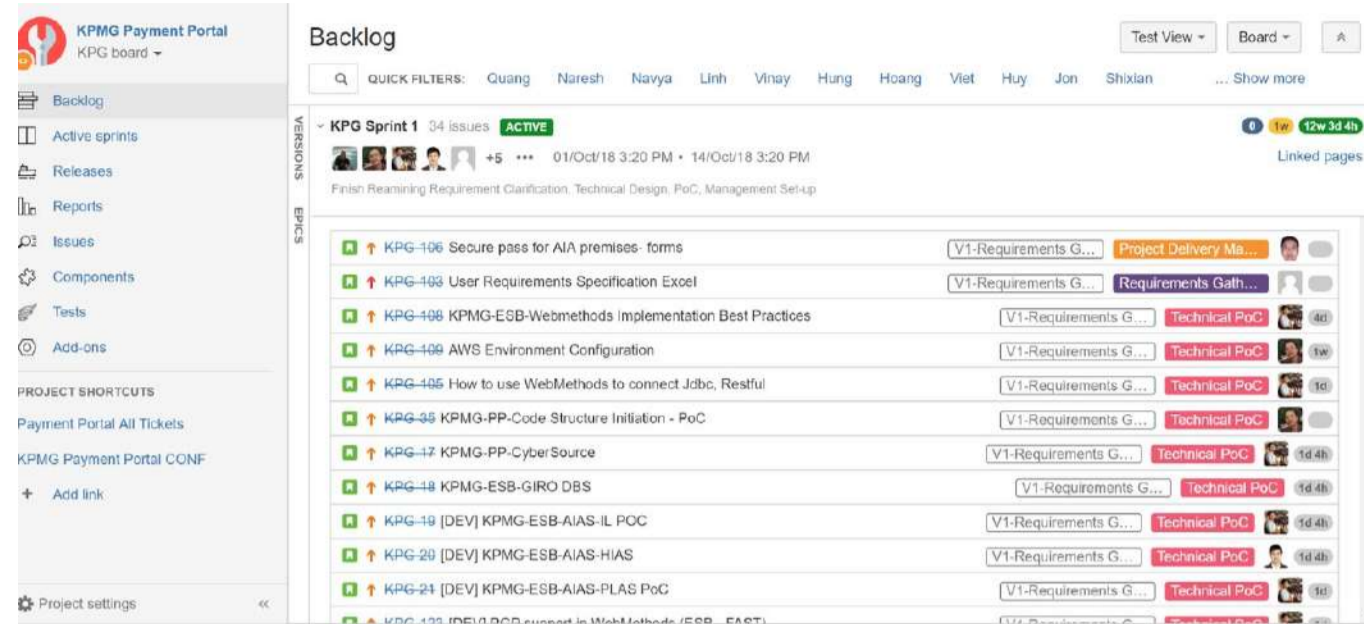
Typical JIRA Backlog

REQ & CR Management

Burndown Chart

True Progress Monitoring

Test case Management

Centralized Management

Quality Report

Automated Reporting

03

Cooperation Models

We offer a range of cooperation types

03 Outsourcing Models

Synodus offers 3 types of Outsourcing models as following:

Time & Materials

Best suit for maintenance and support with small tasks.

Fixed Cost Project

Best suit for projects with clear scope.

Dedicated Team

Best suit for agile projects with on-going requirements for the team.

Business Partnership Vs. Joint Venture

Moving past IT Outsourcing, you can choose Synodus as your IT Strategic Partner. We can either form a business partnership or establish a joint venture.

Business Partnership

Synodus builds a business unit in-house to serve PARTNER's projects and releases the team when the project is done.

Joint Venture

Synodus and PARTNER commit a long-term partnership by setting up a Joint Venture and all staffs belongs to the joint venture.

*** In both above scenarios, PARTNER takes charge of business stuff (including finance, sales, marketing & cost for technical team) & Synodus takes charge of building and operating technical teams.

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Thank you! We're excited to have you as our new partners

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🌐 — www.synodus.com

📞 — +84 97 997 8289