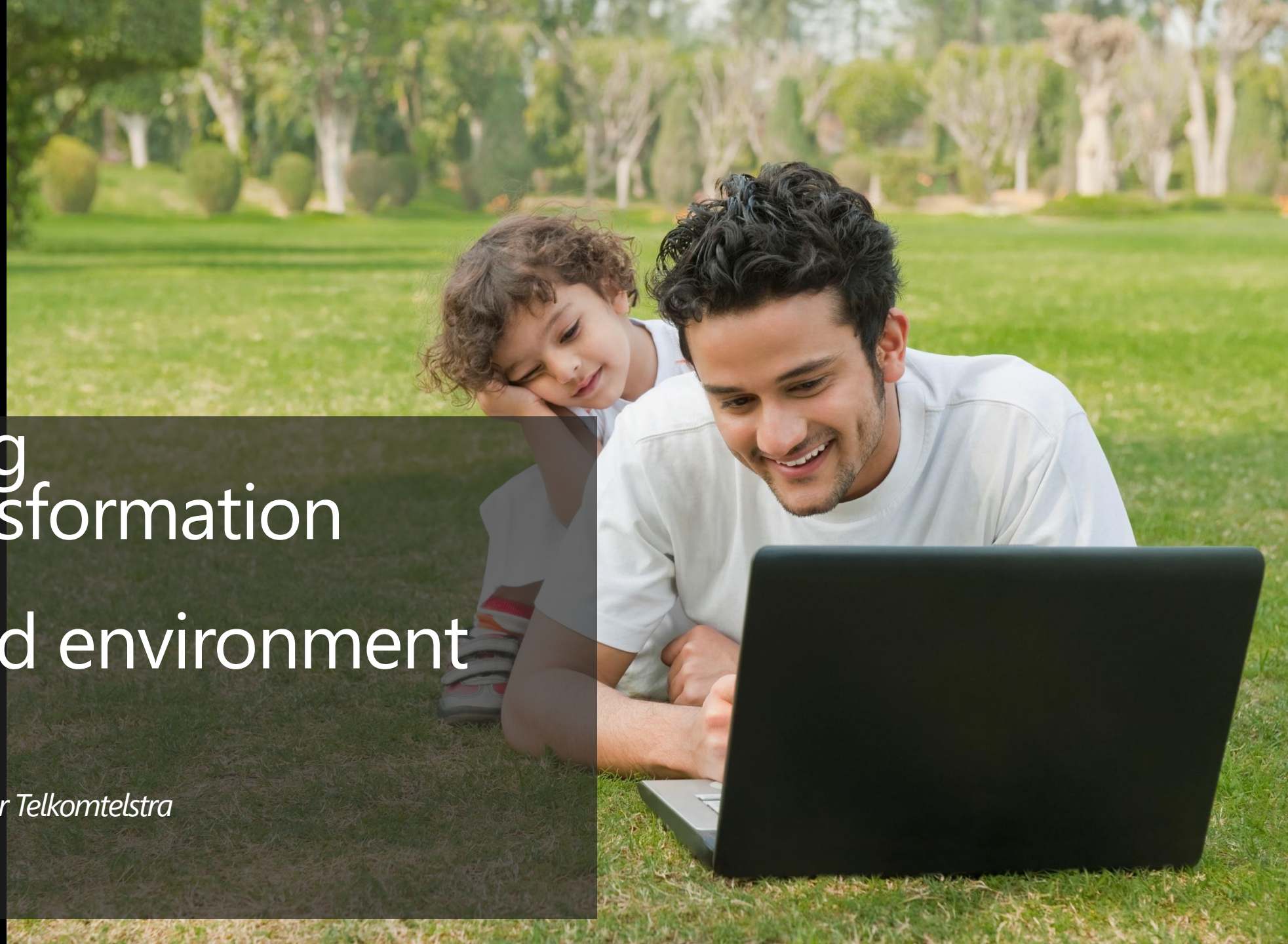


Accelerating Digital Transformation Journey in the hybrid environment

By, Agus F. Abdillah
Chief Product & Synergy Officer Telkomtelstra
Jakarta, 10 April 2018

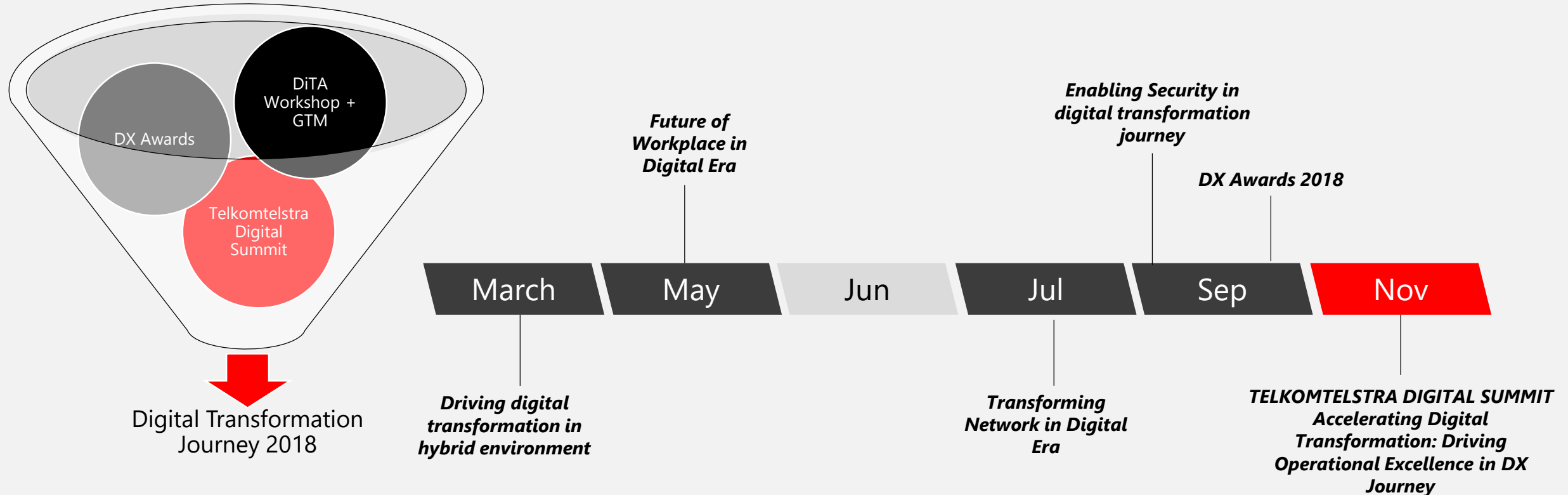


- Digital Technology become driver of disruption which bring new business model and disrupt many industries.
- Digital transformation is a must for any companies or organization to exist and it is a journey.
- Cloud become the driver and its adoption is fast becoming a new trend across the industries. Although it has existed for years before.



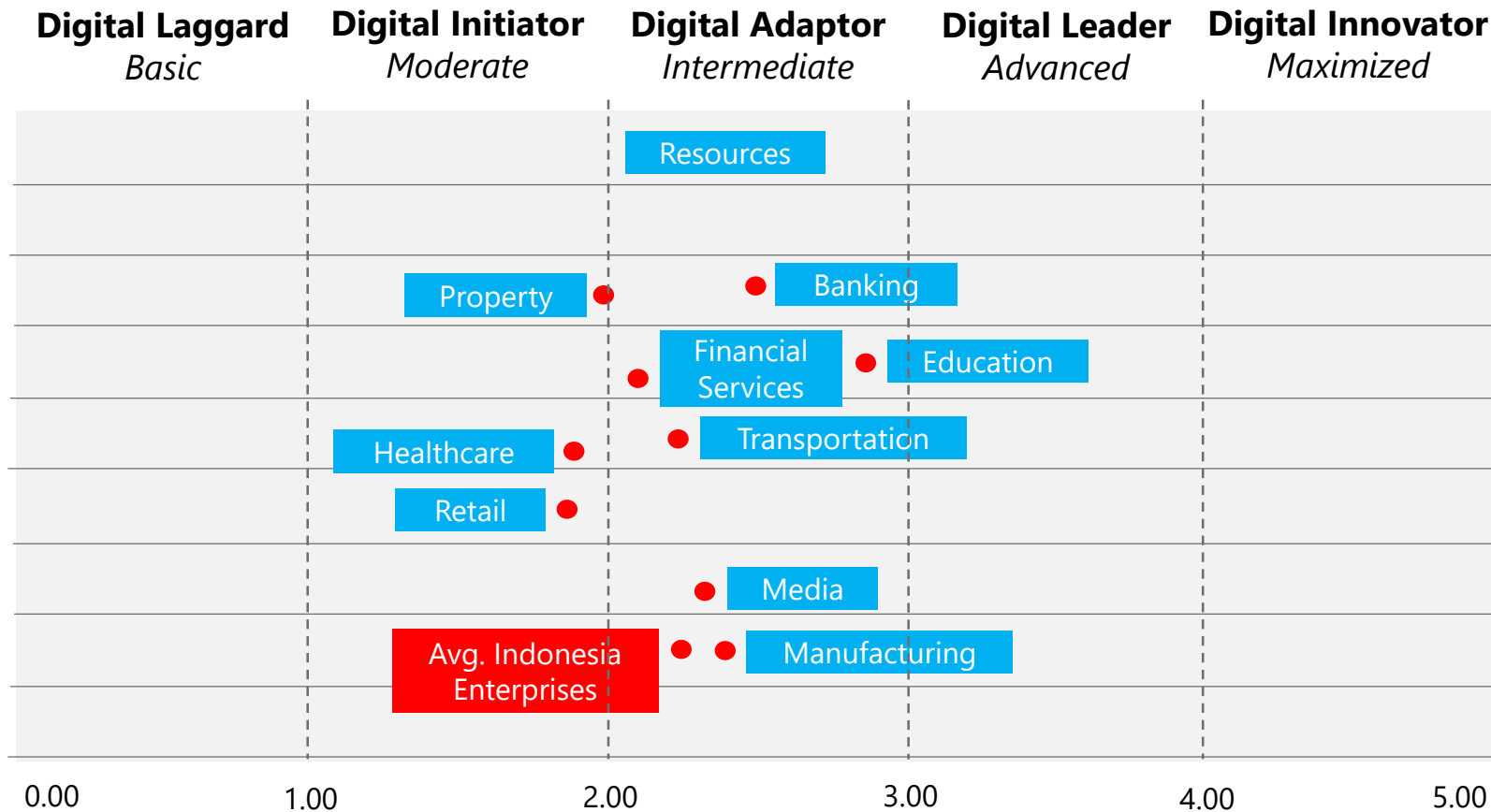
Telkomtelstra Digital Transformation Program

Digital Transformation (DiTA) is an annual continuous program designed for helping customer provide insight a transformational journey within their organization.



Last year (2017) we successfully invited more than 100+ participants from 80 companies to attend series of Digital Transformation workshop. This year (2018) we have 4 series and a Telkomtelstra Digital Summit, and planned to invite more participants than last year.

Digital Readiness Assessment by Vertical Industry

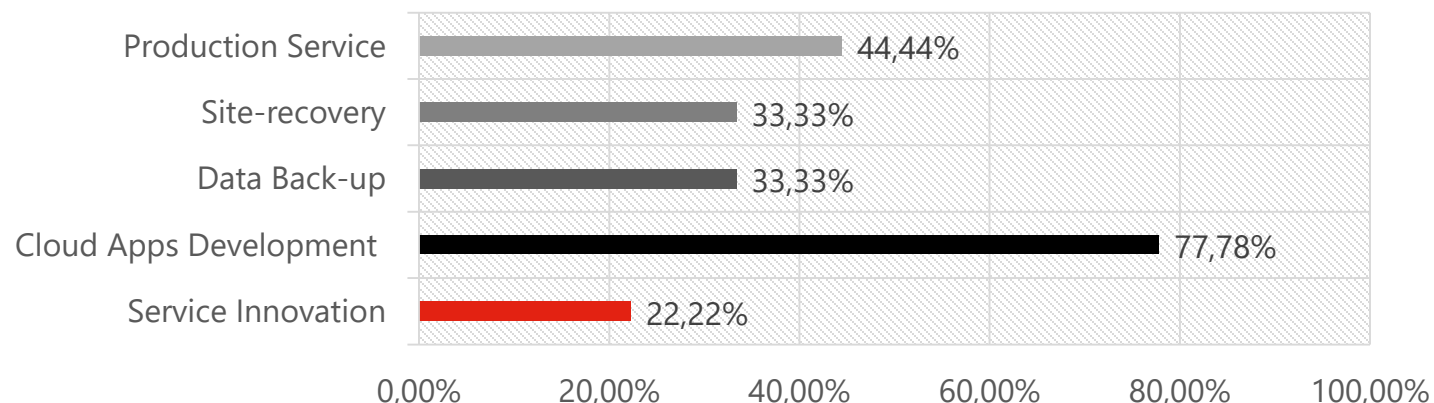


In average, Indonesia's enterprise are in intermediate stage where organizations are already aware and looking for adoption to digital environment through the consistency of using emerging technology

Cloud Survey: for IaaS

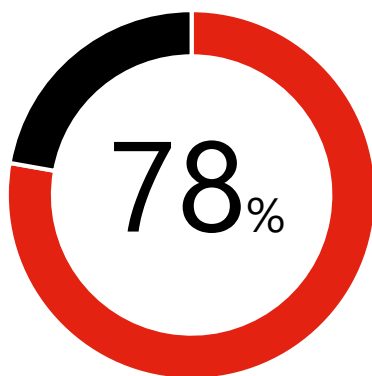
What DiTA attendees say about IaaS

WHAT DO YOU USE IaaS/ PaaS FOR?



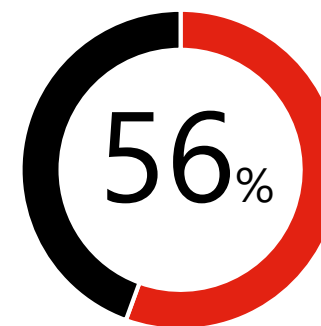
Majority respondents use IaaS/PaaS for Cloud Apps Development. Surprisingly, IaaS/PaaS are also used as Production Service environment.

HAVE YOU USE IaaS/ PaaS?



Most of them are using IaaS/PaaS recently.

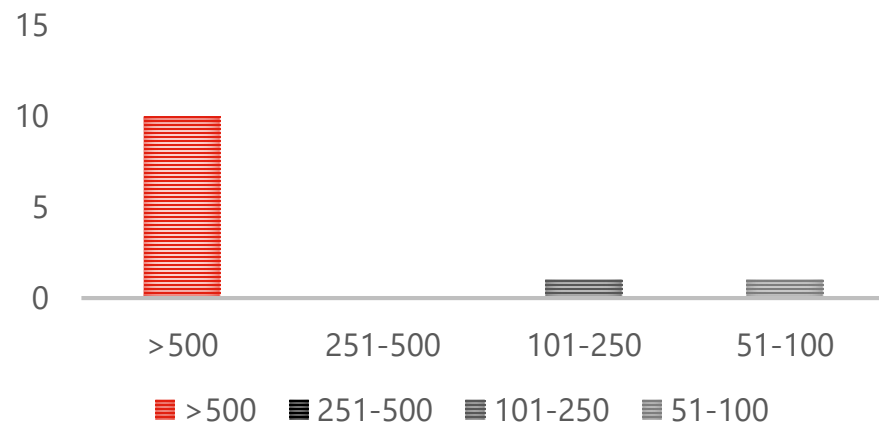
DO YOU PLAN TO ADD IaaS/ PaaS SERVICE IN THE FUTURE?



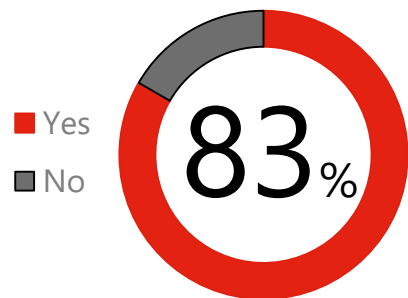
Cloud Survey: for SaaS

What DiTA attendees say about SaaS

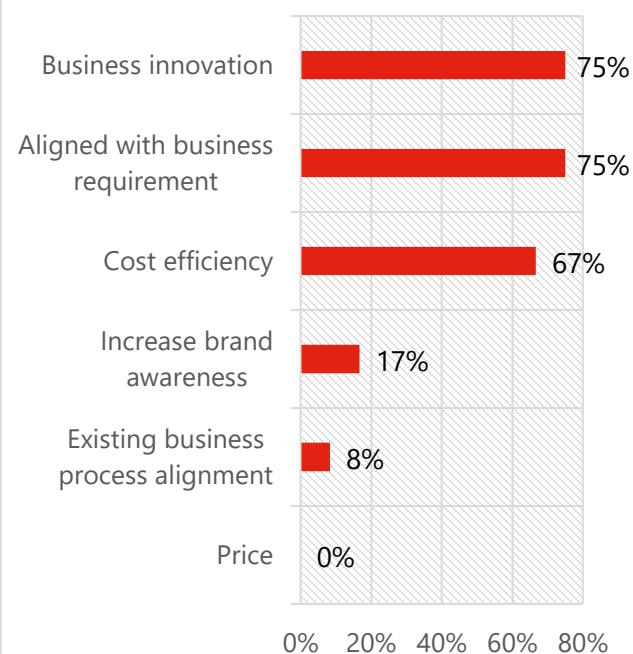
COMPANY SIZE BY NUMBER OF EMPLOYEES



ARE THEY USING SaaS NOW?

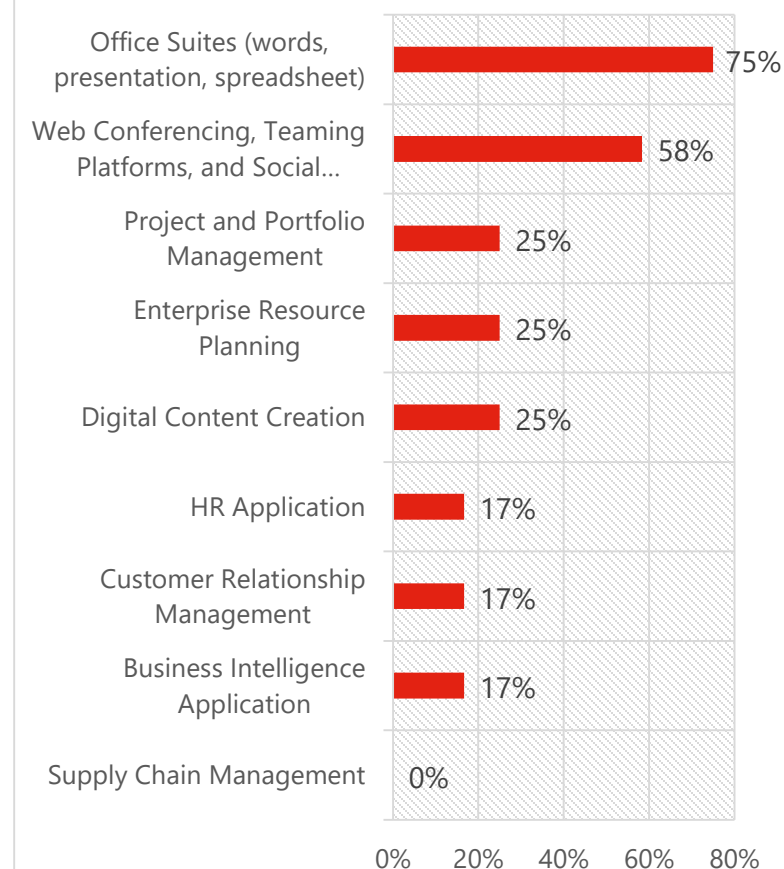


WHAT ARE THE KEY DRIVERS FOR YOUR COMPANY TO USE SaaS?



Business innovation and alignment with business requirement are the top key drivers for company to use SaaS

WHAT KIND of SaaS PRODUCTS THAT YOUR COMPANY USE/ WANT?



Telkomtelstra Digital Transformation Framework

ECE – Engaging Customer Experience and strengthen relationship.

ECE

API

API – Apps Programming Interface to connect and scale to ecosystem.

IDA

IoT

IoT – Intelligent of Things to sensors/ monitor by connecting things surround you.

ITO

IDA – Intelligent Data Analytics to decide by creating smart intelligent model.

ITO – IT operation to Operate Automate and Build Digital Operation Center

Industries

BFSI

Manufacturing

Resources

Retail

Government

Education

ECE

- Dynamic 365
- App Service

ECE

- Cortana
- AI Solution
- Dynamic 365

ECE

- Dynamic 365
- App Service

ECE

- Web Apps
- Azure Media Service

ECE

- Web Apps
- Mobile Apps
- Cloud Service

ECE

- Web Apps
- Cloud Service
- Azure Media Service

IoT

- IoT Hub
- Data Lake Storage

IoT

- IoT Suite
- IoT Hub
- Windows IoT

IoT

- IoT Suite
- IoT Hub
- Stream Analytics

IoT

- IoT Hub
- IoT Edge
- Data Lake Storage

IoT

- IoT Hub
- IoT Edge
- Stream Analytics

IoT

- IoT Hub
- IoT Edge
- Stream Analytics

IDA

- Power BI
- SQL Database

IDA

- SQL server database
- Power BI

IDA

- Machine Learning
- Cloud Service

IDA

- Machine Learning
- Bot service
- Power BI

IDA

- Data Lake Analytics
- Machine Learning

IDA

- Power BI
- Machine Learning
- SQL Database

ITO

- Office 365
- Active Directory

ITO

- Office 365
- DevTest Apps
- Visual Studio

ITO

- Active Directory
- Visual Studio
- Logic Apps

ITO

- Office 365
- SQL Database
- DDoS Protection

ITO

- Office 365
- Security Center
- SQL Database

ITO

- Office 365
- Active Directory

API

- Notification Hubs
- API Management

API

- API management
- Computer Vision API

API

- API Management
- Face API

API

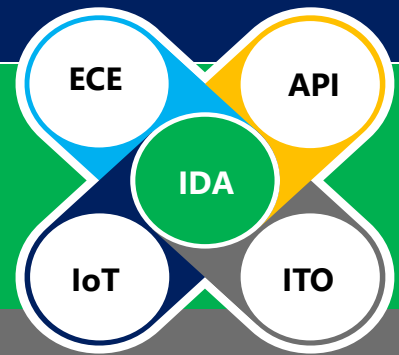
- API Management
- Cloud Service
- Loct Based Service

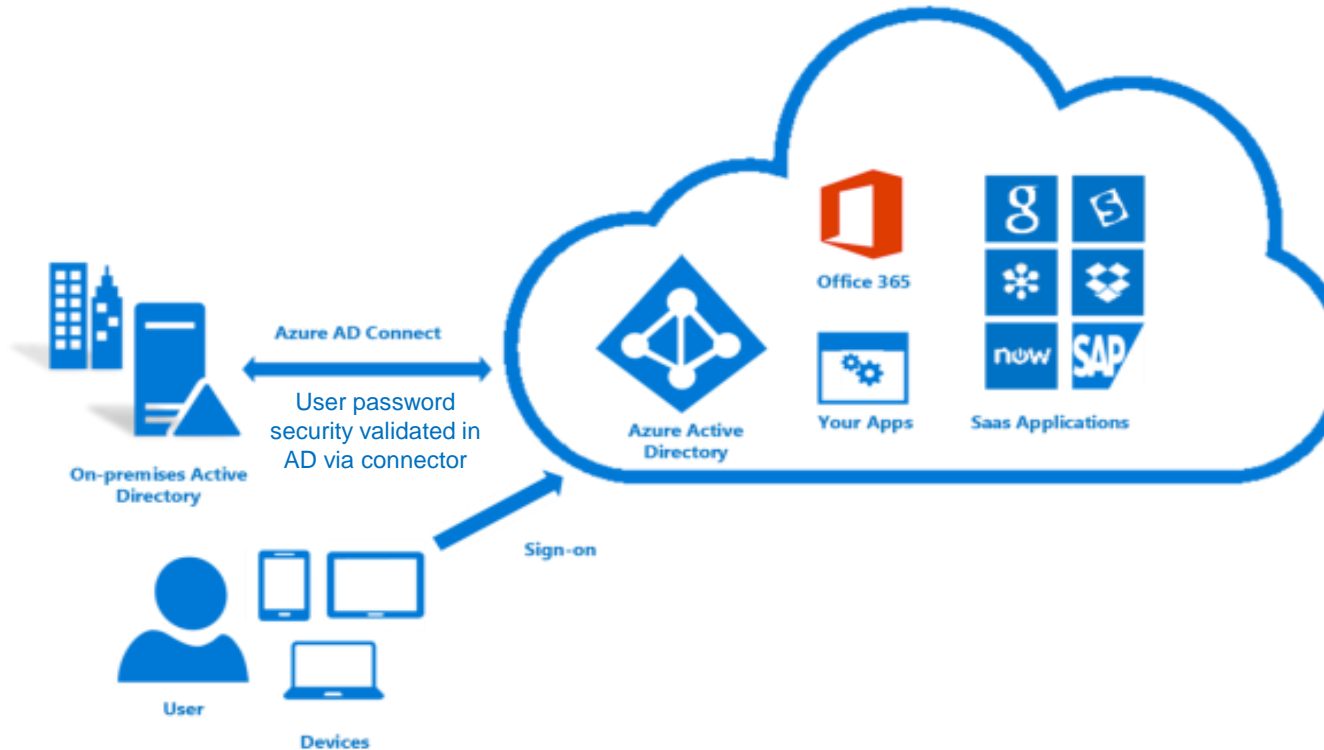
API

- API Management
- Azure Location Based Services

API

- API Management
- Face API





Challenges

- ID Synchronize with all university apps: Office 365, WiFi, library, student data, campus portal, etc.
- Placing AD on-premise for security matter

Solution

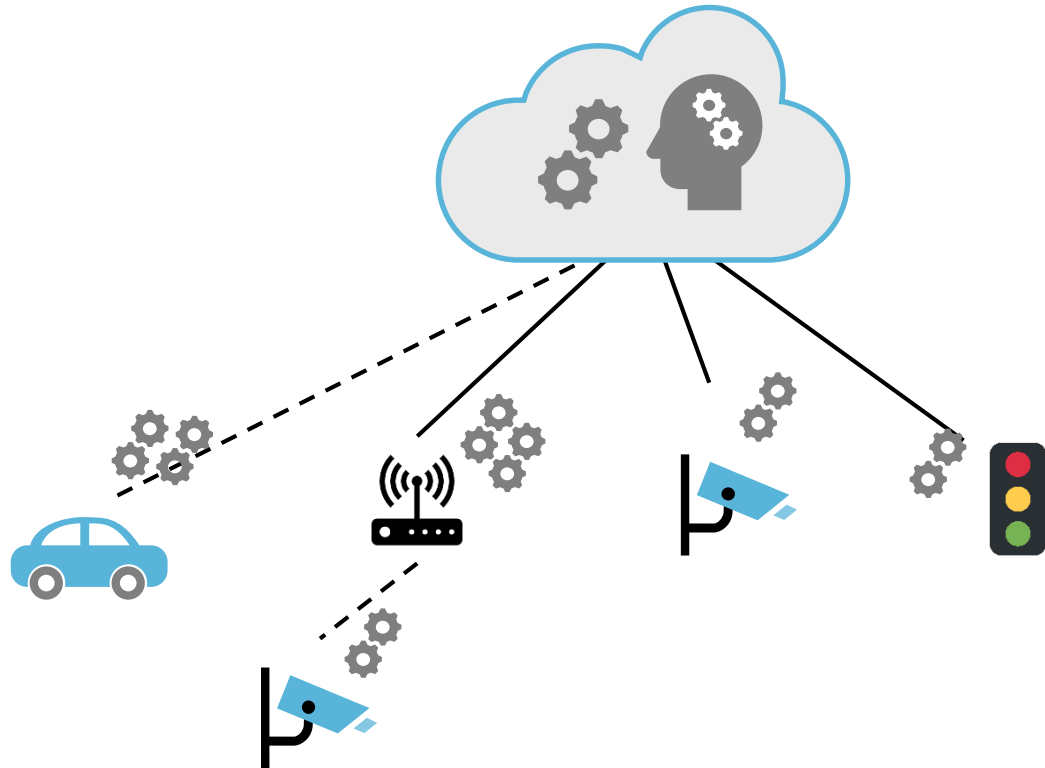
- Hybrid Identity solution
- Identity of all university apps

Products & services

- VDI
- Azure Active Directory
- Azure AD connect
- Office 365

Benefits

- Decrease un-sync between to resource (on-premise & cloud)
- Focus & managed only single Active Directory
- Sync students & teacher ID into single ID



Challenges

- Handling city traffic and citizen safety
- Utilize city devices : CCTV, Wifi, traffic light, cars, etc.
- Public information of traffic

Solution

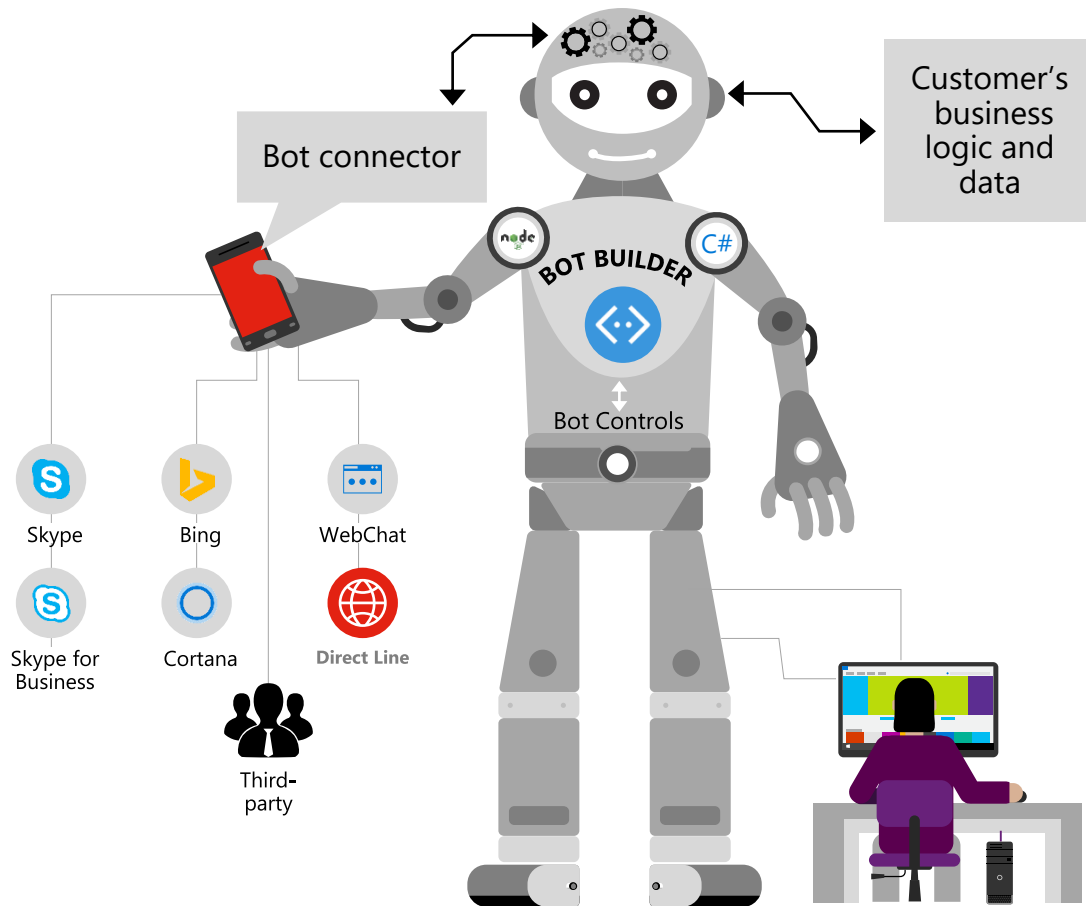
- Traffic Management Controller
- Citizen Traffic Viewer

Products & services

- | | | |
|----------------|-----------------------|--------------|
| • App services | • Data Lake Analytics | • Storage |
| • IoT Hub | • Stream Analytics | • Event Hubs |
| • IoT Edge | • Machine Learning | |

Benefits

- Departement of Transportation can easily managed & control city traffic & safety
- Citizen have access to view city traffic



Challenges

- Take advantage of customers' increasing use of mobile channels to interact with its brand
- Integrating with multiple messaging apps

Solution

- Customer service chatbot
- Conversation bot

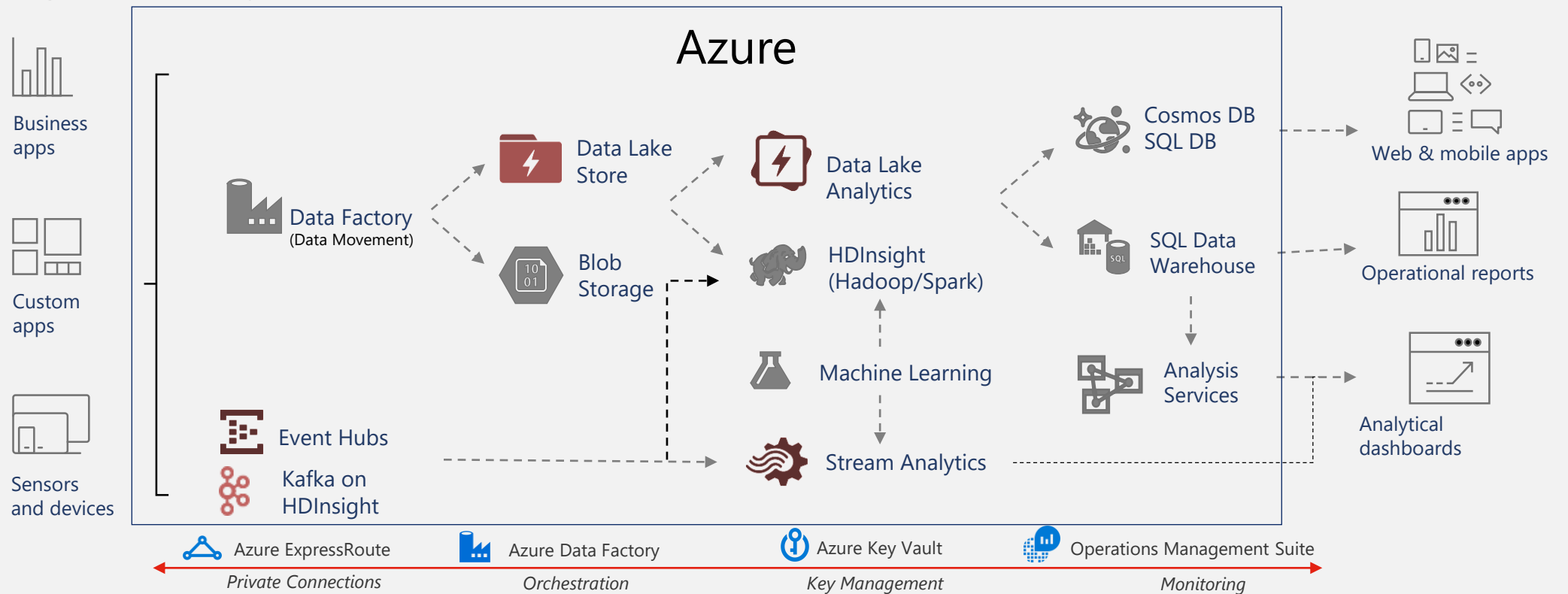
Products & services

- Bot services
- Cortana
- Cognitive service

Benefits

- Better customers experience
- Lower budget with resource maintenance

Retail – Big Data Analytics



Challenges

- Capturing structure and unstructured data
- Lack of insight for targeted campaigns
- Inability to support data growth

Solution

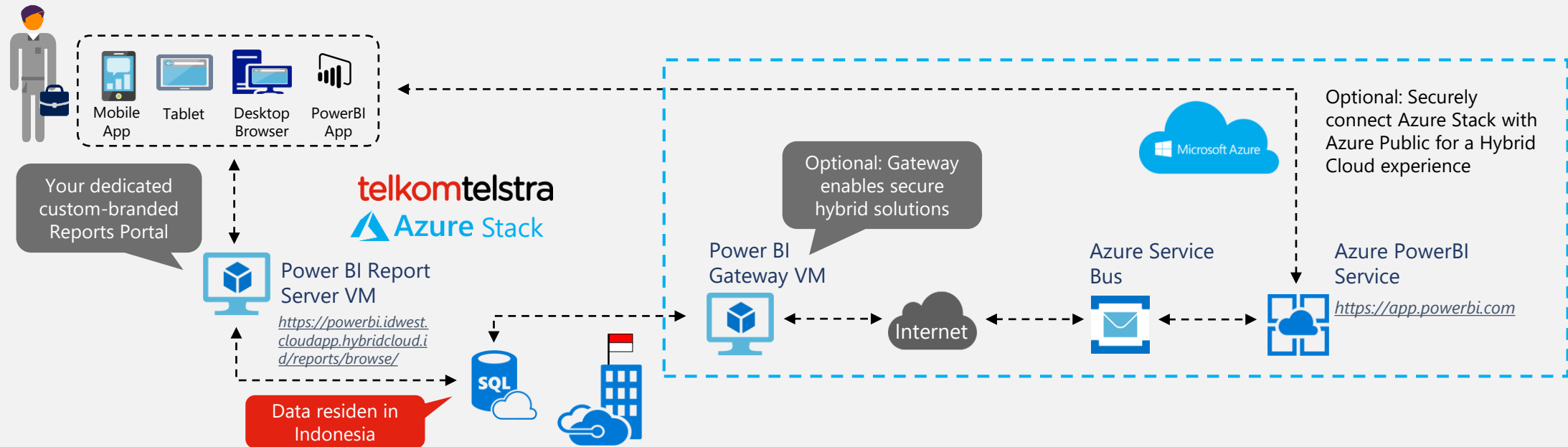
- Modernizing a data warehouse with big data
- Instant analysis of social sentiment and customer feedback

Benefits

- Reduced time to customer insight
- Ability to make changes to campaigns or adjust product rollouts based on real-time customer reactions
- Personalized experience & promotion

Values: Rich Insights & campaign optimization | Truly personalized experience

Retail – Business Intelligence with data security



Challenges

- Build advanced data analytics while also securing data in local DC
- Combining other data and hosted in local DC

Solution

- Advanced reporting portal
- Securing credential data

Benefits

- Secure sensitive data in local DC
- Comply government regulation PP82/12 of data sovereign
- Fokus on analytics not data gathering

Values: Keep your location-sensitive Business Intelligence data in Indonesia



Challenges

- Marketplace sites cooperate with banking to ease customer payment
- Decrease risk of payment with wrong ID/ person
- Notify customer before and after payment transaction

Solution

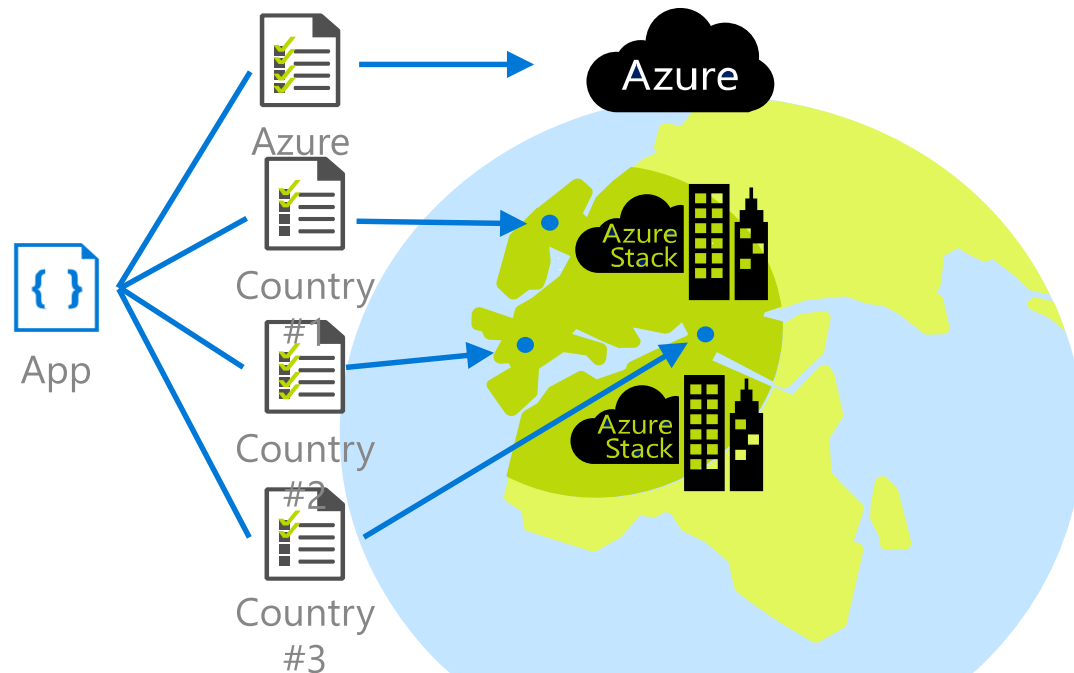
- e-Payment model with third party
- Payment notification

Products & services

- API Management
- Notification Hub
- SQL Database

Benefits

- Customer safety of right payment process and ammount
- Increase customer satisfaction



Challenges

- Company have to use that same apps that used globally
- Government regulation of data sovereignty
- Complicated claim process

Solution

- E-Claim management
- Customer Relationship Management

Products & services

- App services
- Mobile App
- Dynamic 365
- Power BI
- SQL Database

Benefits

- Customers can easily and without complicated process
- Papeless and modernise claim process

Manufacture – Smart Devices and Monitor

Challenges

- Want improve user satisfaction, user insight and company efficiency
- Difficulty on updating patch for better security & performance

Solution

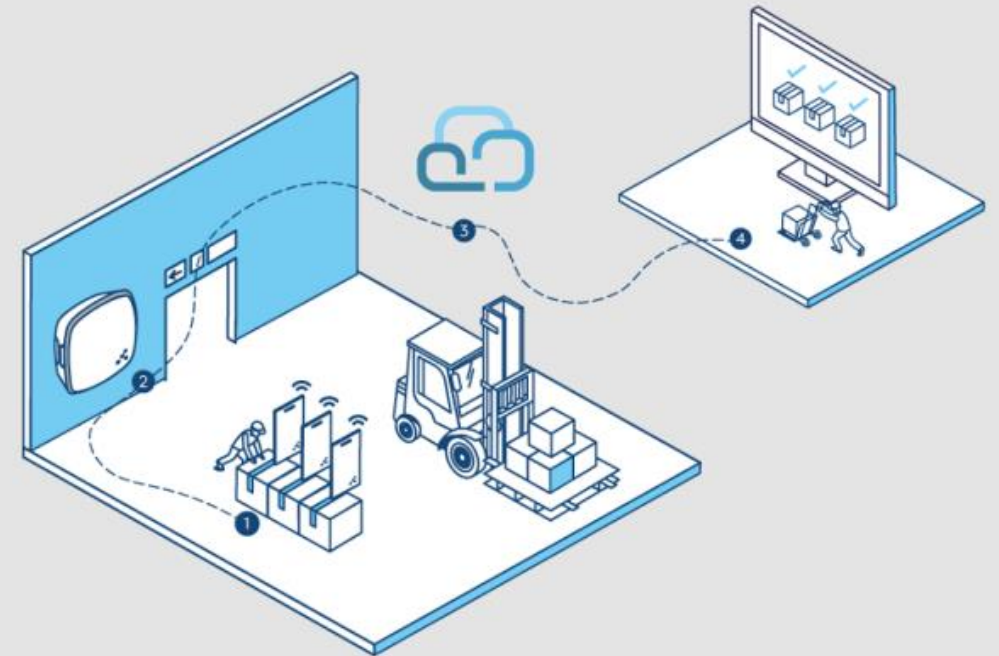
- Cloud-based IoT central gateway

Products & services

- App services | • Stream Analytics
- IoT Hub
- Windows IoT

Benefits

- Using IoT gateway to update devices
- Gather user behaviour as feedback further product innovation





Challenges

- Want to improve power restoration effort and manage its fleet
- Utilize existing equipment, vehicle, container and crew to collect data
- Want combine with others tech solution

Solution

- Analyze data in motion from multiple real-time sources
- build an Internet of things (IoT) app to track truck and crew locations for its distribution assets

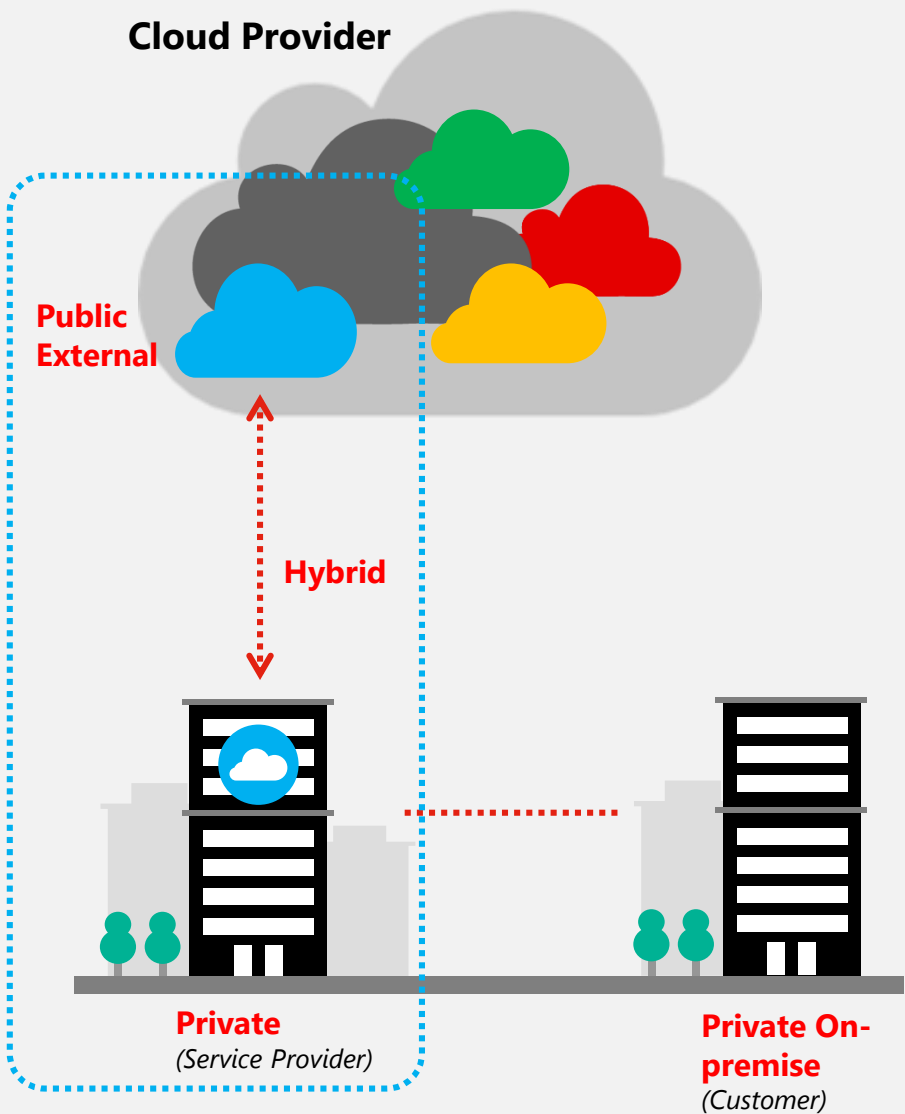
Products & services

- | | |
|--------------------|-------------|
| • Stream Analytics | • IoT Hub |
| • Cloud Service | • Event Hub |
| • Storage | |

Benefits

- Reduce data and make decisions in real time
- Great analytics to restore service efficiently and quickly

Cloud Deployment Model



public

Cost



Service & infrastructure provided publicly for multiple client. Most economical solution, but security and compliance concerns.



Share infrastructure across different users



Inexpensive and easy to setup



private

Control



The hosting infrastructure is provided exclusively for one customer (either locally or at an external provider). Most expensive solution for security requirements.



Does not share infrastructure



Mission critical workload, security, uptime, etc



hybrid

Both



Customized combination of private and public cloud services. Most flexible system, but difficult to implement.

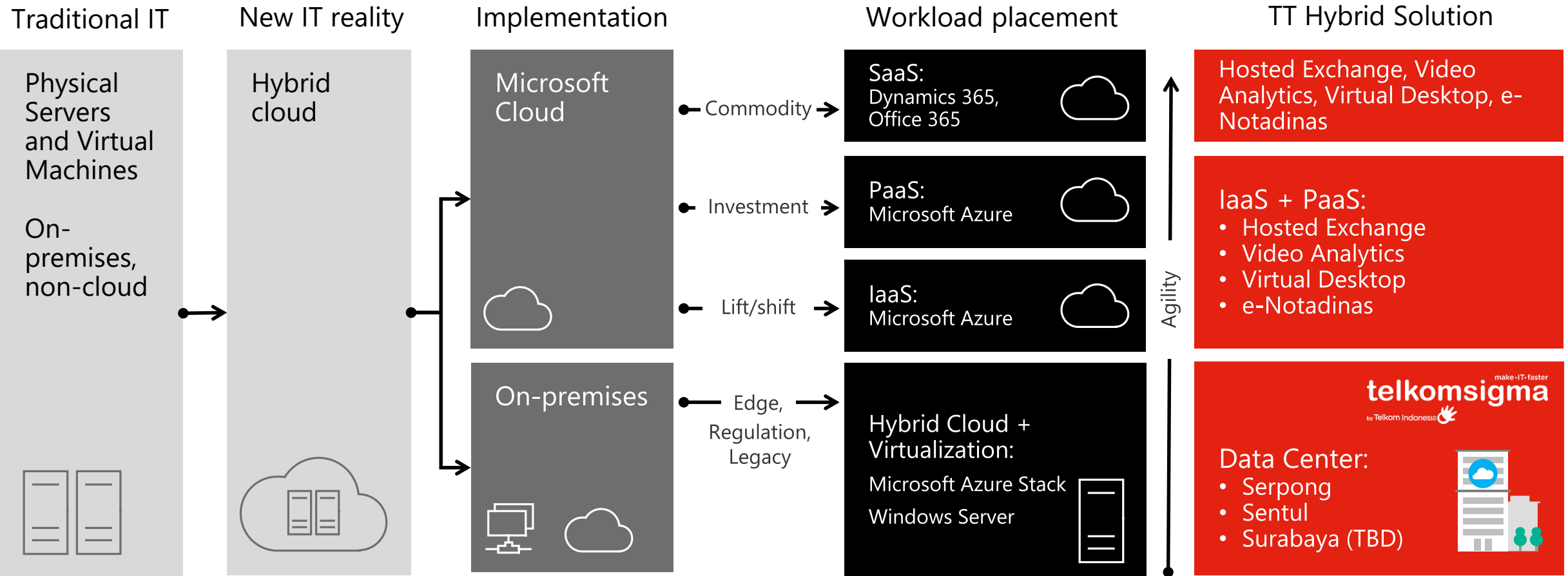


Data residence based on classification

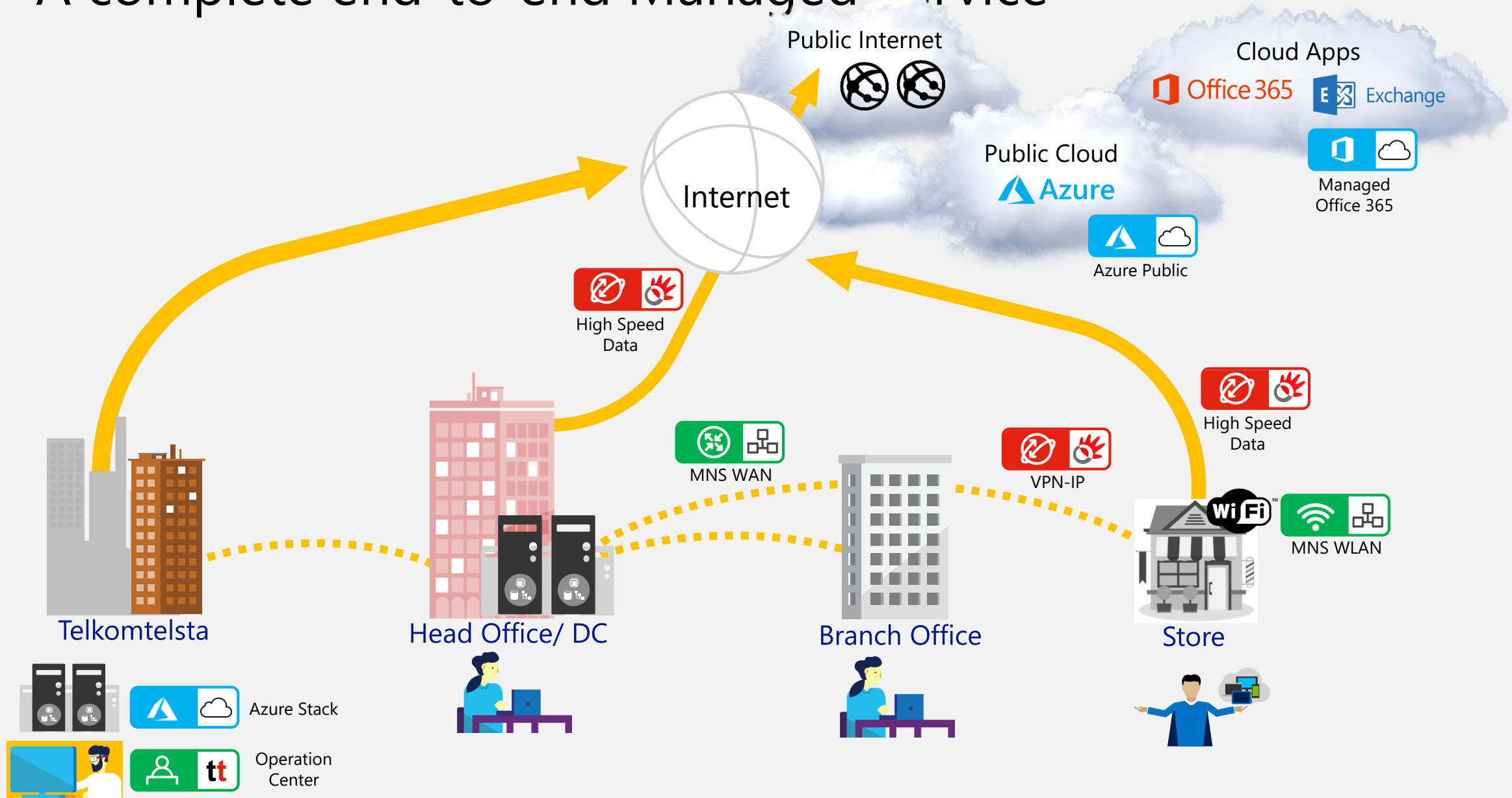


Dynamic and highly changeable workload

Hybrid Cloud Platform



A complete end-to-end Managed Service



Why Choosing Telkomtelstra Cloud Solution

Powered by Microsoft

Telkomtelstra Cloud Platform powered by Microsoft, leader in cloud technology. Provides a trusted and an innovation driven to support your business

Roadmap on the First True Hybrid Cloud in Indonesia

Telkomtelstra will be the first Cloud Service Provider in Indonesia with a true hybrid cloud technology.

Powerful on Cloud, Stable in Network

Combining network capabilities by TelkomGroup, in order to keep your business stable accessing cloud services.



Combining other Capabilities

Combining and integrating other telkomtelstra services to create better cloud experience, such as business productivity apps, network services, security services and professional services

Reliable and resilient service delivery

Reliability

- 99.5% or greater uptime
- Control over planned maintenance
- Pro-active monitoring



Availability and DR

- Redundancy and resilient design
- Data and process isolation
- Disaster recovery through geo-replication



Supported SLAs

- SLAs achieved through software resiliency
- Financially backed
- Partner and customer support



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