

AIS Annual Investor Day 2017

17th November 2017





The Change and Development of Thailand in the past 6 months



2X mobile internet usage from last 6 months

Mobile internet usage per person grew 2 times from 3GB – 6GB

2X internet video consumption

Time spent on mobile contributes for 49% vs 36% TV

+400 new start-ups launched in Thailand In all industries, start-up company grew from 600 -> 1,000 in 1H17

30 smart farming started

Started in every province and contributing 3% of the industry

Eastern Economic Corridor started

13,000 sqr km of land for the new hub started

High speed trains will start in 2020

Connected all major provinces of Thailand and the CLMV







THAILAND 4.0 Prosperity, Security, Sustainability



Thailand 3.0
Heavy Industry



Middle Income Trap Inequality & Imbalance

Innovative/Value-based Industry
High Income Country

- Economic Prosperity,
- Social Well-Being,
- Raising Human Value,
- Environment Protection



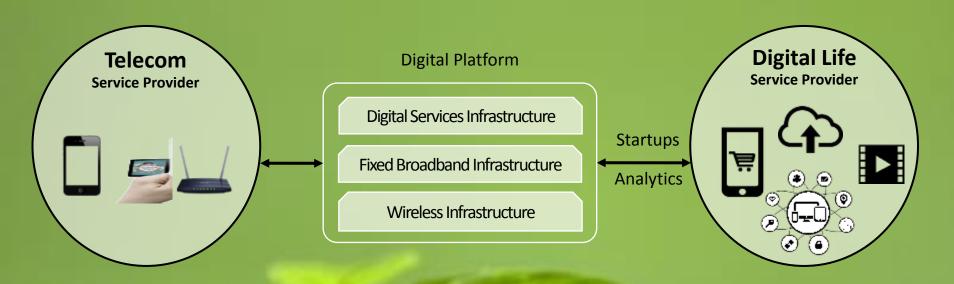
Thailand 2.0 Light Industry



Thailand 1.0 Agriculture



AIS Transformation



LEAN PATH

Culture Transformation

SMART PATH



Next Generation Network

Next Generation **Economy**

Next Generation Xperience

Next Generation Team

Overview of AIS digital transformation toward 2020



Next Generation Network

Next Generation **Economy**

Xperience

Next Generation Team

Network Function Virtualization & Cloudification

Contents and Enterprise Segments

Customer Value Management

Full Service Digitization

Organization Transformation













- Future-proof and 5G-Ready networks
- Transform legacy IT systems to Cloud friendly network architecture
- Al for network operation

Capturing new opportunities in:

- iot
- SME & R-SME
- Managed Security
- Mobile Digital Marketing

Maximize value of contents:

- Branding
- Retention
- Revenue

Data-driven analysis based on customer insights:

- SOC, a tool to empower using network analytics
- Segmentation and targeted offerings

Converged Mobile, Fibre & Content bundling

- Digitization of all customer journeys
- AI/Chatbots embedded into all self-service channels
- Full deployment of OMNI channels

- Organization readiness for digital disruption
- Leverage capabilities and create synergies in value chain supporting digital business objectives



Next Generation Network

Next Generation Economy

Next Generation Xperience Next Generation Team

Network Function Virtualization & Cloudification

Contents and **Enterprise Segments** **Customer Value** Management

Full Service Digitization

Organization Transformation











• > 90% cloudification Network virtualization ready

for 5G

 Expand revenue contribution of enterprise business from 9% to 25%

- Move from ARPU to
 Provide shops & **ARPH**
- Improve revenue assurance and increase proportion of valued users
- services that never sleep
- Data driven organization & culture

 Capex savings due to higher network capacity per footprint

 Improve opex efficiency

 Potential new revenue stream. serving emerging market needs

- Enhance customer satisfaction
- Potential margin expansion and efficient cost structure from effective marketing offerings
- Strengthen customer lovalty and stickiness through convergence
- Provide more options for customers including full control of service 24/7
- Improve cost efficiency from reducing service cost per head & human touch points
- Improve revenue generation from staff focusing more on sales activities

 Ability to proactively service and exceed the expectations of the new generation of digital customers

Savings/benefits

Target 2020



Next Generation

eam

TEAM, the most important element in digital transformation AIS



Digital Disruption Disrupts the Unprepared



- **Technology** swiftly changes
- Customers are more sophisticated and have many choices
- **Products** and services come in new business models
 - Shorter time to market
 - Online and customized

Leverage TEAM Capability to Support Digital Business



- Strengthen existing competitive advantage
 - o Telecoms stay in the center of change
 - High employee engagement
- Create synergies with partners
 - Embed outside expertise into inside know-how

Expand Beyond Traditional to Digital



- Build digital environment and enhance new skillsets
 - Innovation-driven
 - AIS ACADEMY/IC/D.C.
 - Job rotation
- Cultivate fair culture
 - Less hierarchy
 - Rewards based on merit

Data driven organisation







AIS Academy

Coaching of mindset and skillset





Innovative Space



Note: Located in SC Tower



THE SPACE

4th Floor















AIS





Kriengsak Wanichnatee - Chief Technology Officer

AIS ANNUAL INVESTOR DAY 2017

17th November 2017





Next Generation Next Generation Contact Cont

AGENDA

- Our Success Story in 2017
- Road to 5G
- Service Excellence Era



AGENDA

- Our Success Story in 2017
- Road to 5G
- Service Excellence Era





Massive MIMO

JANUARY 2017, AIS ANNOUNCED

World first FDD Massive MIMO 32T32R "Cell level" capacity increases around 5 times compared with 2x2 MIMO.







1st LIVE NB-IoT Network in South East Asia

เอไอเอสเปิดตัวเครือง่ายอัจฉริยะ

Internet of Things - Narrow Band IoT

จุดประกายสมาร์ทซิตี้ หนุนประเทศไทย 4.0

FEBRUARY 2017, AIS ANNOUNCED











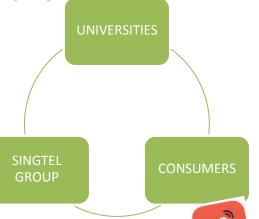


mobike



Street light control

Prince of Songkhla University







NEXTG

LTE

AIS SUPER WiFi

รวมกับสุดยอดความเร็ว

จาก AIS SUPER WiFi

ที่ให้ความเร็วได้สูงสุด 650 Mbps

ที่สุดของเทคโนโลยีสูงสุด 3CA, 4x4MIMO และ DL 256QAM ช่วยทำให้รับส่งข้อมูลได้เร็วกว่า 4G

ให้ความเร็วได้สูงสุด 700 Mbps*

*บนมือกือ Samsung Galaxy S8 I S8+





MAXIMUM SPEED 1GBPS

AUGUST 2017, AIS ANNOUNCED





MAXIMU

AUGUST 2

Let's test it live!

BPS

AGENDA

- Our Success Story in 2017
- Road to 5G
 - ➤ What is 5G?
- Service Excellence Era



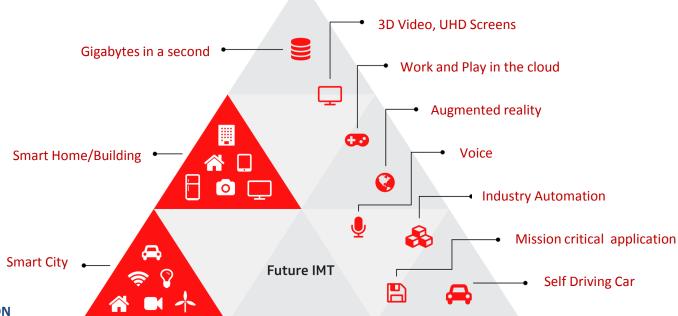
5G Driven





Enhanced Mobile Broadband

HIGH CAPACITY, HIGH USER EXPERIANCE



MASSIVE CONNECTION DEEP COVERAGE POWER SAVING LOW COST

Massive Machine Type **Communications**

Ultra-reliable and Low Latency **Communications**

LOW LATENCY HIGH RELIABILITY

eMBB: enhanced Mobile Broadband









HIGH CAPACITY

Throughput 5Mbps

Throughput 25Mbps

100Mbps





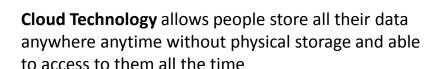


eMBB: enhanced Mobile Broadband





HIGH CAPACITY

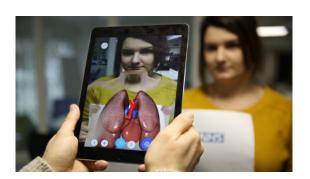






eMBB: enhanced Mobile Broadband





Augmented reality (AR) is a live direct or indirect view of a physical, real-world environment whose elements are "augmented" by computer-generated or extracted real-world sensory input such as sound, video, graphics, haptic or GPS data.

HIGH USER EXPERIANCE

VR WIRELESS GAMING REQUIRE 1 Gbps

Virtual reality (VR) is a computer **technology** that uses **virtual reality** headsets or multi-projected environments, sometimes in combination with physical environments or props, to generate realistic images, sounds and other sensations that simulate a user's physical presence in a virtual or imaginary environment.



uRLLC: Ultra-Reliable and Low Latency Communications

Self Driving Car



Wireless VR (Ultra Low Latency)





Machine Controller

REQUIRED LIVE RESPONSE, LOW LATENCY.

5G response within 1 ms





mMTC: Massive Machine Type Communications



SMART HOME



INTERNET OF THINGS



mMTC: Massive Machine Type Communications





More than 10,000 connections/cell in 5G

AGENDA

- Our Success Story in 2017
- Road to 5G
 - Roadmap
- Service Excellence Era



ROAD TO 5G: RELEASES

3GPP R10 ∼ *R12*

3GPP R13 ∼ *R14*

3GPP R15 ∼ *R16*

EVOLUTION (eLTE)







Base on
LTE air interface
(eLTE)



5**G**

Base on
New Radio air interface
(5G NR)

2015

2017

2017

2018

2019

2020

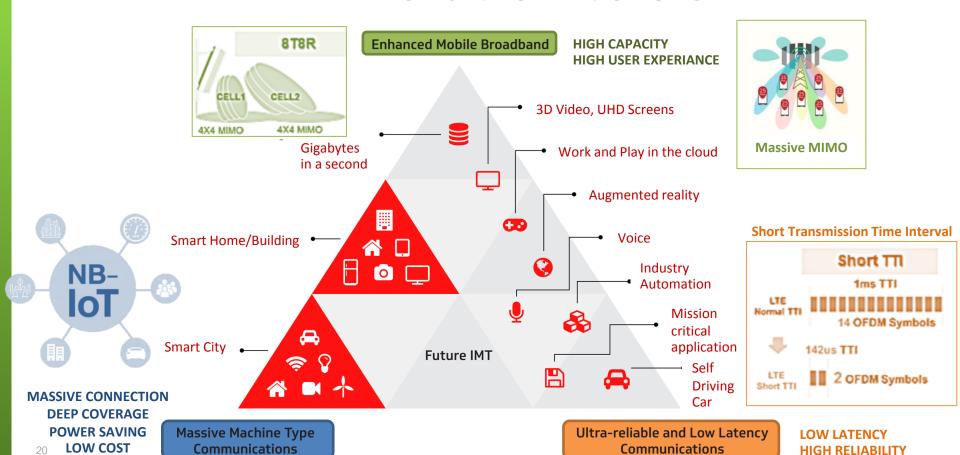
A GLOBAL INITIATIVE

Rel-15 (5G Phase 1) Rel-16 5G Phase 2 (Full IMT-2020 NR)



LTE Evolution to 5G





AGENDA

- Our Success Story in 2017
- Road to 5G
 - > Frequency for 5G
- Service Excellence Era



Global expected frequency bands for 5G

Sub3GHz

C-Band

mmWave

There are 3 frequency bands allocated for 5G



Sub3GHz

C-Band

mmWave

GLOBAL HARMONIZATION

Sub3GHz

C-Band

mmWave



B41 (2500-2690MHz) as TDD Mode



B7 (2500-2570MHz/2620-2690MHz) as FDD Mode and B38 (2570-2620MHz) as TDD Mode



B41 (2500-2690MHz) as TDD Mode



B41 (2500-2690MHz) as TDD Mode



Sub3GHz

C-Band

mmWave



B41 (2500-2690MHz) as TDD Mode



B7 (2500-2570MHz/2620-2690MHz) as FDD Mode and B38 (2570-2620MHz) as TDD Mode



B41 (2500-2690MHz) as TDD Mode



B41 (2500-2690MHz) as TDD Mode

2600 MHz

- Available for both **FDD (B7) and TDD (B41)**
- Suitable for 4G than 5G due to less bandwidth (< 100 MHz)

<u>B7</u>

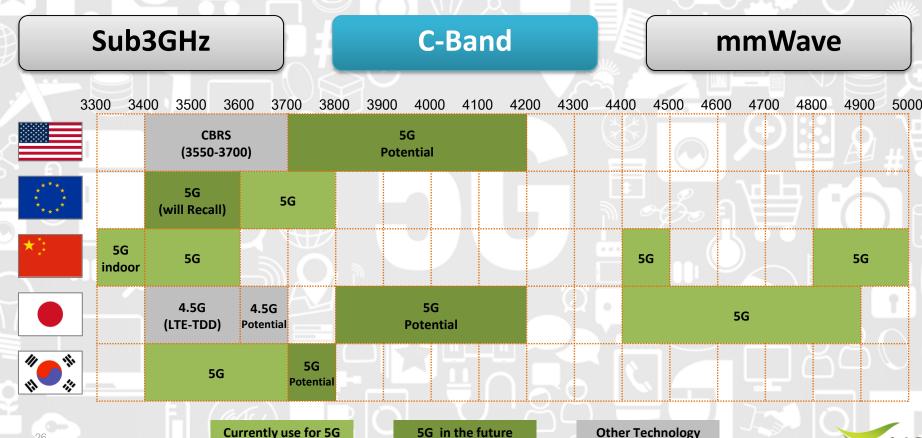
FDD-LTE 2600MHz = **2 x 30 MHz**

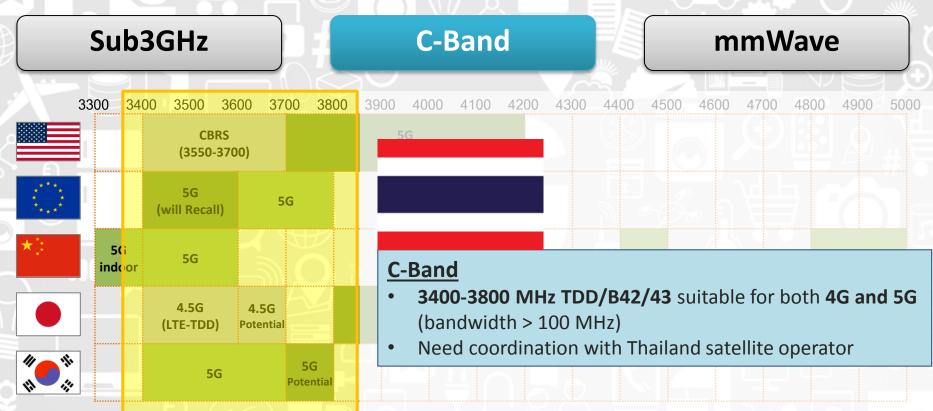
(2535 - 2565 MHz & 2655 - 2685 MHz) Or (2540 - 2570 MHz & 2660 - 2690 MHz)

B41

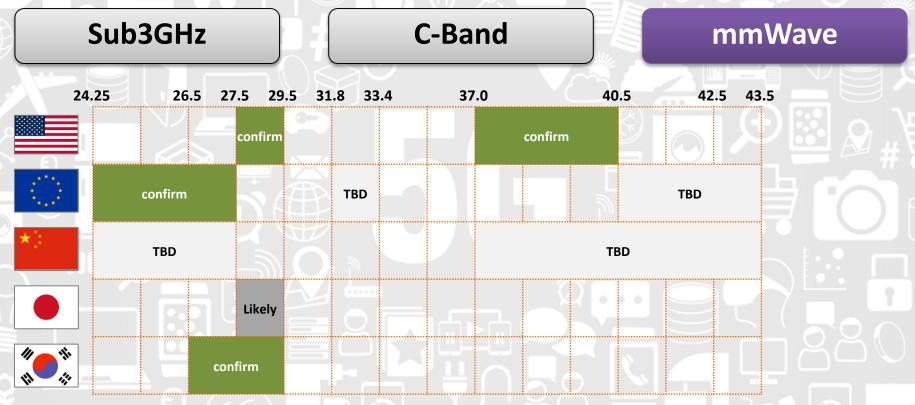
TDD-LTE 2600MHz = **40 MHz** (2575 – 2615 MHz)



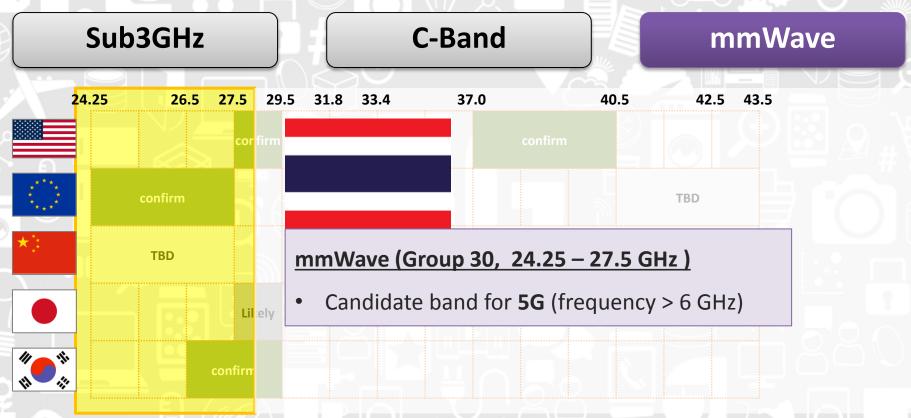














Sub3GHz

C-Band

mmWave

C-band 3400 - 3800MHz (bandwidth > 100 MHz)

- ✓ Suitable for 5G <u>macro cell</u> and <u>small cell</u>
- Can support 5G services e.g. AR and High Quality VDO streaming, Vehicle-to-Vehicle Communication which need high speed, low latency and mobility of users





<u>mmWave band 24.75 – 27.5 GHz (bandwidth > 100 MHz)</u>

- ✓ Suitable for 5G pico cell
- ✓ Can support 5G services e.g. <u>AR, VR and High Quality VDO,</u>

 <u>Smart Office/Factory/Hospital</u> which need <u>very high speed,</u>
 low latency and <u>limited mobility due to coverage</u>

AGENDA

- Our Success Story in 2017
- Road to 5G
 - Network Preparation
- Service Excellence Era

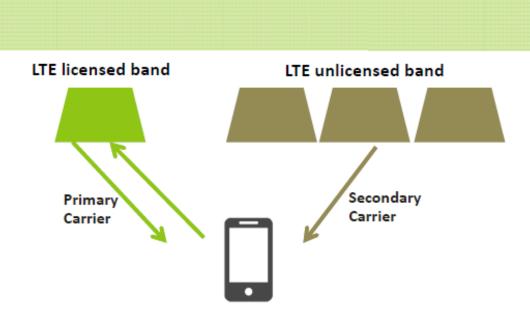


LAA: License Assisted Access

LTE Licensed + LTE Unlicensed

LTE in unlicensed spectrum

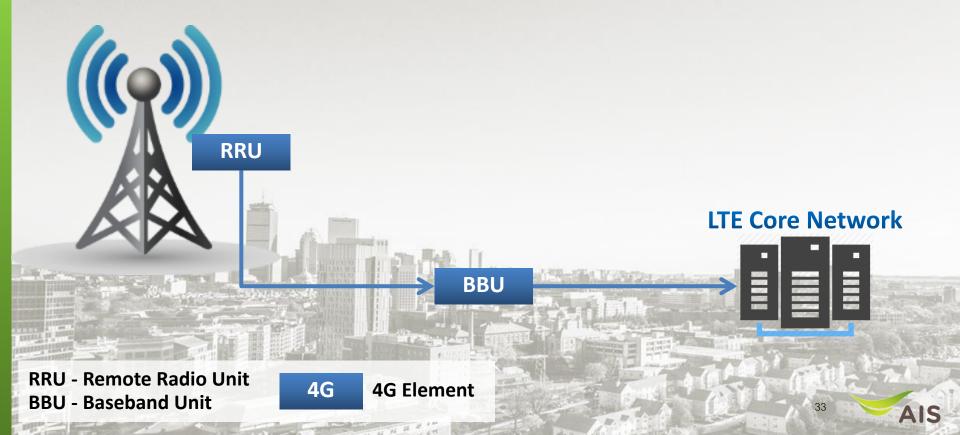
would allow cellphone carriers to boost coverage in their cellular networks, by using the unlicensed 5 GHz band



- Limited commercial LAA-supported smart phones in the market and less operators announcement for commercial rollout
- Expect more commercial LAA supported smart phones in Y2018



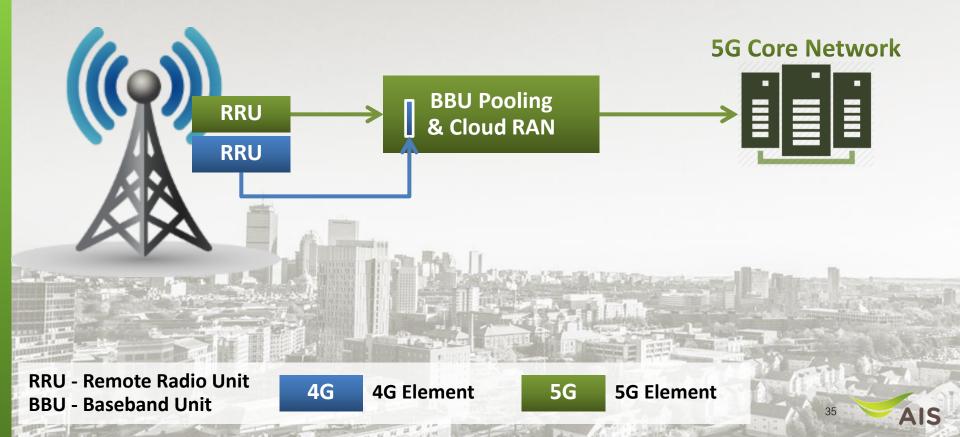
Network Preparation LTE Evolve Existing



Network Preparation LTE Evolve Existing

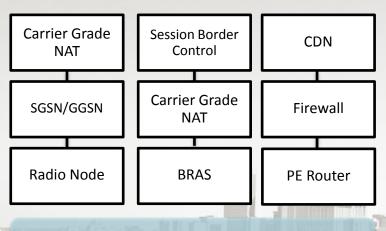


Network Preparation 5G Environment



Network Function Virtualization

Classical Network Equipment





Independent Software vendor

Virtualize network function Virtualize network function Virtualize network function

Programmable Automate Remote installed

Standard Hardware

Standard server

Standard storage

Standard switch

Benefit of NFV

- 1) Capacity per footprint is higher (CAPEX saving)
- 2) Save power consumption (OPEX saving)
- 3) Resource sharing
- 4) Faster time-to-market
- 5) Programmable operations



AGENDA

- Our Success Story in 2017
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NOC Network Operation Center

SOC Service Operation Center

AIS







- Customer Segments
- Services prioritized based on Value
- User Device Monitoring
- Service Monitoring
- Service Events linked to Network Events





Network Assurance

- Technology Based
- Availability and Capacity focused
- Platform Monitoring
- Network Events



Benefits

Marketing

- Unleash the power of customer insight
 - Targeted marketing





- Handle network complaint smartly
- Improve first call resolution rate
- Deliver personal treatments and campaigns

Engineering

- Smart planning
- Excellent network experience/quality





- Provide prediction on CEI
- Customer experience uplift with Enhanced Analytical Capability and Network Insights













Cost Efficiency

- Utilize tools and resources across teams
- Maximize potential for outstanding business outcomes

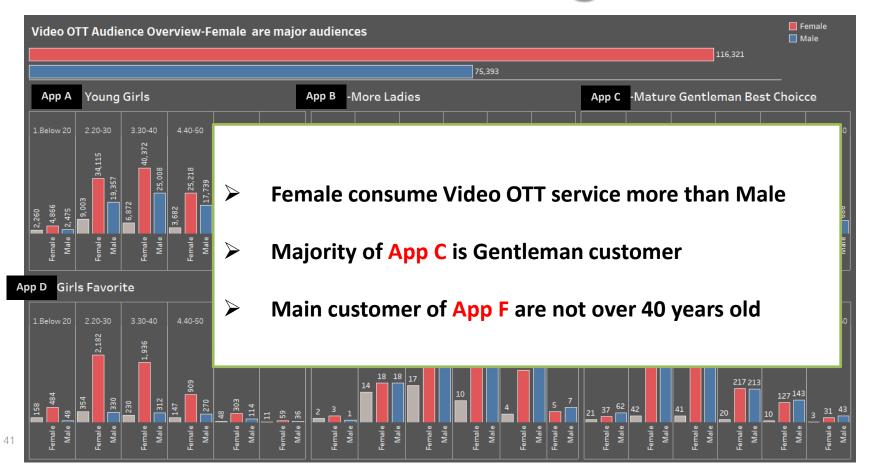






Consumer Insight





Consumer Insight

Top Travel App Ranking

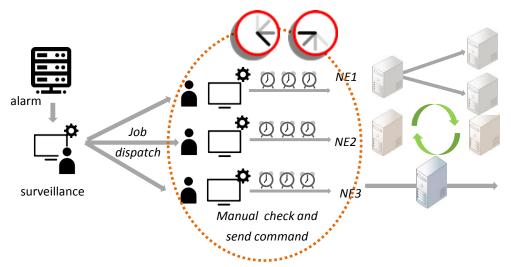
(know which App is the best for Roaming Promotion)

| TripAdvisor | Expedia | Booking | Agoda | AirAsia | |
|--------------|--|-----------|---------|----------|--|
| trip advisor | 3 | Booking | a | Air Asia | |
| 706,374 | 387,167 | 352,538 | 209,464 | 111,840 | |
| SkyScanner | AirBnB | Trveloka | Ctrip | Trivago | |
| Aprica mare | (included in the control of the cont | traveloka | Ctrip | trivago | |
| 56,179 | 37,714 | 23,032 | 21,651 | 18,062 | |

The outbound roaming country for 1st day travel visitors

| | | 1 | I _ I | | l | 1 | | | 1 |
|---|---------|----------|-----------|-------|---------|-------------|-------------|---------|-------------|
| | Japan | Hongkong | Singapore | China | Korea | Malaysia | France | Germany | United King |
| | 414 | 328 | 243 | 221 | 211 | 132 | 129 | 121 | 115 |
| | Myanmar | Taiwan | Italy | USA | India | Switzerland | Philippines | Nepal | |
| 2 | 110 | 109 | 97 | 92 | <u></u> | 73 | 66 | 33 | |



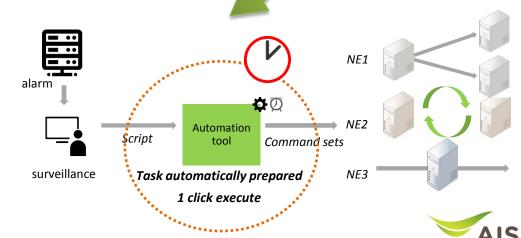


Boost Operation Efficiency

Boost Operation Efficiency by using Robotic Process Automation

Benefit

- 400% downtime reduction
- Minimize error during action
- Improve operation efficiency



CONCLUSION

- 5G Driven
- 5G Spectrum Allocation
- Turn NOC to NSOC for Service Excellence



NETWORK SELECTION







Pratthana Leelapanang

Act. Chief Consumer Business Officer

AIS Annual Investor Day 2017

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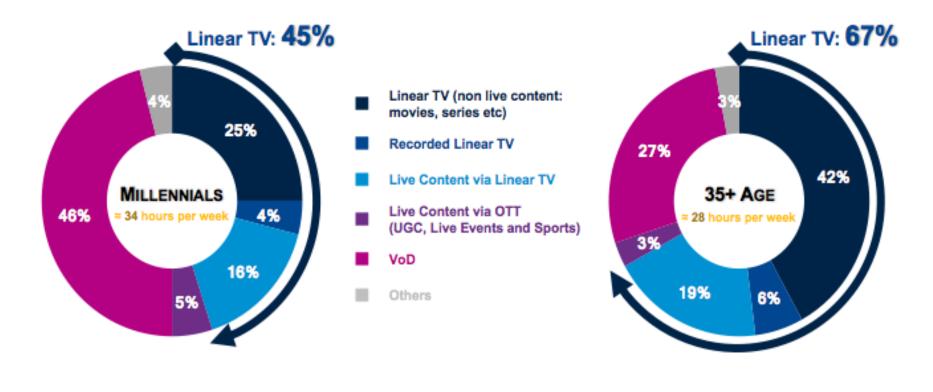
Next Generation

Economy



Digital Entertainment

Share of Content Consumption by Type and Age Group

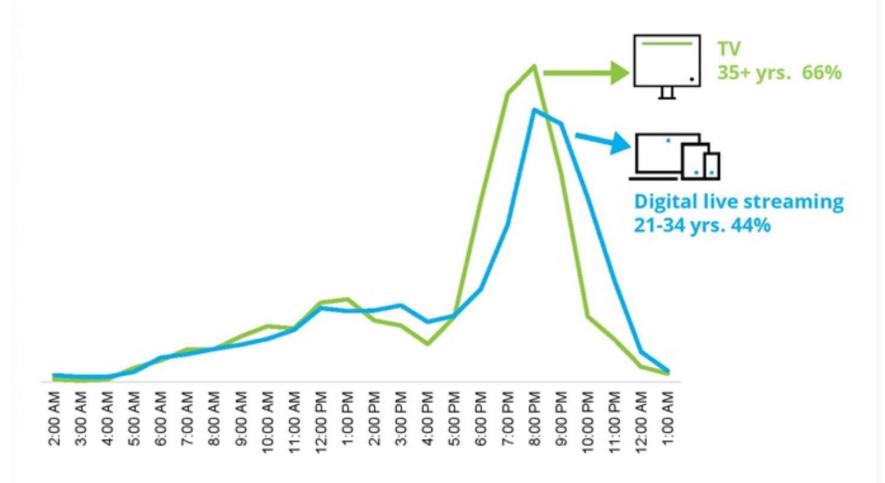


APOS 2017

LIVE STREAMING PEAKS ON DIGITAL SCREENS

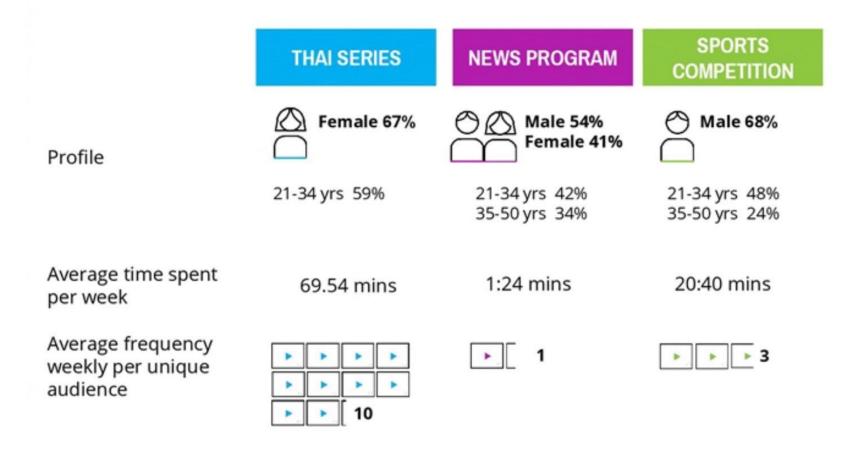


7PM TO 10PM

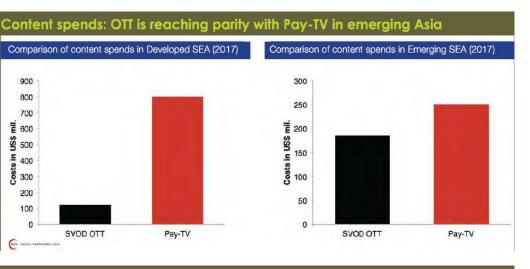




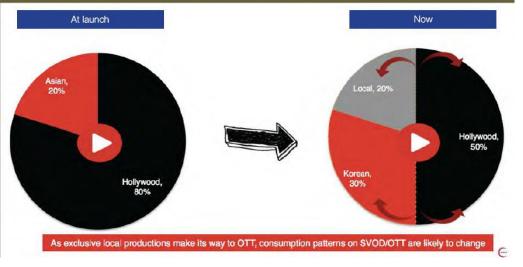
EACH PROGRAM CATEGORY CAPTURES A DIFFERENT TARGET AUDIENCE



Source: Nielsen Digital Content Ratings Report, Feb - May 2017





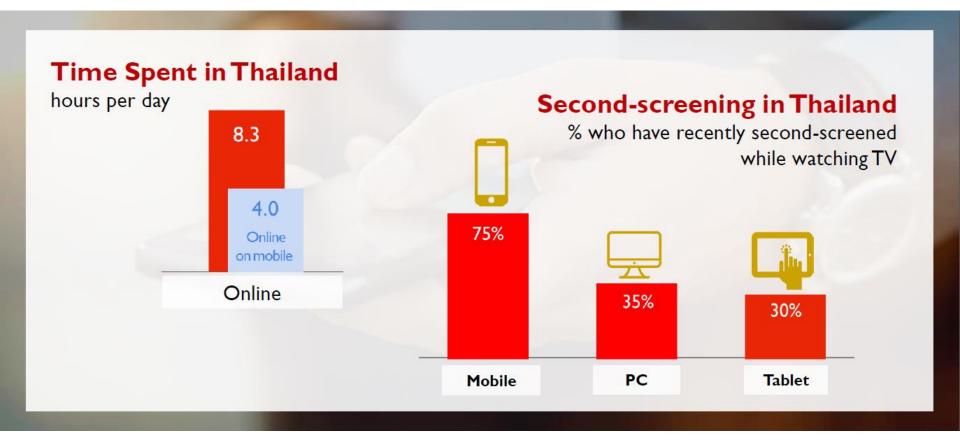


OTT/ Streaming content spend is soaring,
Asian premium IP is on the up, and OTT
aggregators are likely to emerge as the new
centre of the subscription universe, says
Media Partners Asia (MPA)

"Already, typical consumption on online video platforms in Southeast Asia has shifted

from 80% Hollywood/ 20% Asian to 50% Hollywood/ 20% Local / 30% Korean"

Says MPA executive director Vivek Couto





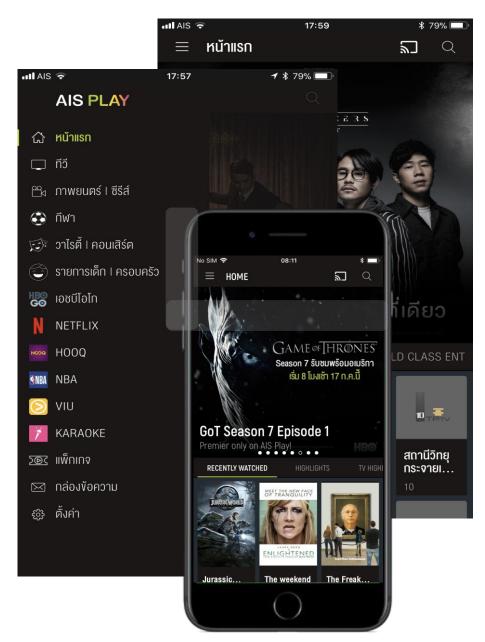






The New Experience

- > 100 Live channels
- 4000+ Video on Demands
- Windows to the Premium Content
- Concerts, Karaoke, and more





The Content Portfolios for wide variety of Audience





ICT & Digital Enterprise

The Country Telecom Market Overview

Mobile

243Bn 5.3% YoY (or \$6.78n)

- 3-players market
- 132% penetration
- Growing mobile data but declining voice
- Aggressive price competition (one of the lowest data price/MB in the world) and heavy device subsidy leading by TRUE
- Expecting industry to grow
 4-5% for the next 5 year

Broadband*

47Bn ▲ 10-15% YoY (or \$1.38n)

- 7M+ subscribers
- Connections expect to grow 10% per annum
- In the period of changing technology from copper technology to fiber
- Leading by TRUE and 3BB

ICT Solution*

40Bn 10% YoY (or \$1.18n)

- Multiple players vary from mobile operators, fixed and solution providers
- Market expects to grow in cloud and managed services

Digital Enterprise

Adjacent Industries may grow strongly due to digital transformation

- E-commerce & Banking
- Video & Entertainment

- Transportation
- Logistic





international bandwidth

- Domestic/International Data Circuit
 PoPs at Singapore, Hong Kong, Malaysia, UK and US (with connecting to Microsoft, Facebook, Google, SingTel, NTT etc.) and Gateway to all neighbor countries
- Hybrid Fixed-Mobile MPLS
- Corporate Internet
- Microsoft Edge Node on AIS
 Network Partnership for Microsoft Cloud Services

Enterprise Data Network Customer References

> 18,000

Local & Global links



























































































PEPSICO

























27 years

in providing **solutions** to strengthen business for Thais

> 1,200,000 Business Connectivity

Mobile | Network | Cloud | IoT

500+ cloud customers, > 20,000 licenses





Complete to Compete

For Digital Enterprise & Business in Thailand













Managed Cloud Services

End-to-End Services from Consultancy, Setup, Migration, & Managed Services

Software as a Service

Digitally Transform Your Business Communication & Collaboration

Security Service

International Cloud Service Certified with more Network Security Services

Infrastructure / Platform as a Service

Enhanced Infrastructure of Multiple Cloud Platforms for Your Business Efficiency

Data Centers

More Regional Data Centers with Trusted Global Security Certification

Networks of Businesses

Largest Nationwide Network with Flexibility to Scale up for Your Cloud Usage



Networks of Businesses

Extensive Capacity

Flexibility to Upgrade Cloud Scalability

- Owned Network Infrastructure
- 100Gbps Backbone Capacity
- Full Redundant Core Network Topology
- 150K+ km. Fiber Optics Nationwide





Networks of Businesses

Bandwidth on Demand

First Self-Service Bandwidth Upgrade in Thailand

- Network Scalability for Domestic and Internet VPNs
- On-Demand Bandwidth Flexibility up to 150 Mbps
- Ease of 4-Step Self-Service Ordering Portal
- Choices One Time or Monthly Recurring Schedule





Data Centers

Data Centers

Secured Cloud Infrastructure for Business

Tier-4 by Design

First Data Center is Almost Fully Occupied within a Year





Data Centers

Regional Data Center

Kaennakhon

Tier-4 Data Center 1,788 Sq.m. GFA in 10 Rais Khon Kean





Data Centers

Regional Data Center

Singkhon

Tier-4 Data Center 6,680 Sq.m. GFA in 8 Rais Hat Yai





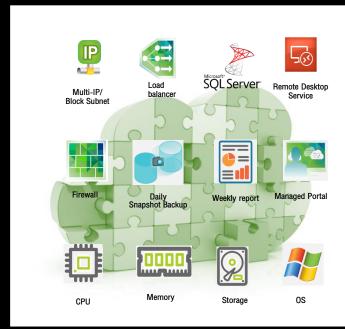
Infrastructure / Platform as a Service

Enterprise Cloud

Powered by

The FIRST in Thailand Secured Buildin Network Virtualization

Serve 50+ of Thailand's leading enterprises, loT service providers, and MNCs.





Infrastructure / Platform as a Service

Backup on Cloud

Fully & Flexible Backup Solutions

- Supports Off-Site Backup
- From Customer Data Center To AIS Cloud Data Centers

Powered by VEEAIM

• Charged by the number of backup and storage usages





Managed Cloud Services

DR as a Service

Turn-key Solution of Managed Disaster Recovery Service

- AIS as an End-to-End DR Service Provider
- Reduced up-front capital expenditure with safe and secure solutions
- Ensure that your system & service can continue delivery at all times
- Rapid response, well-prepared system and processes

Visit DR booth for initial consultancy





Infrastructure / Platform as a Service

DataBase Platform as a Service Powered by as a Service

Effective DataBase Management System Cloud Platform

- Compatibility with other DataBase Systems
- Scalability & Security on AIS Enterprise Cloud Service
- Cost Reduction in Long Term
- Full Major Functions for Organization





Infrastructure / Platform as a Service

Microsoft Azure

Global, Trusted, and Hybrid Microsoft

- Truly consistent hybrid cloud platform
- Achieve global scale, in 40 local regions
- Comply with industry and regional requirements
- Advanced workloads: IoT, Intelligence & Analytics



Microsoft Azure

Global, Trusted, and Hybrid

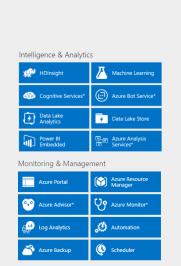
Azure preview services





SQL Data Warehouse

Databases & Storage





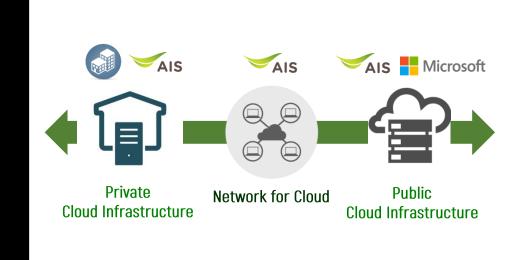


Infrastructure / Platform as a Service

Hybrid Cloud

Seamlessly Connected Cloud Infrastructure

- Enable your Hybrid cloud model
- Monitor and analyze the availability and performance of different resources including physical and virtual machines.
- Minimal cost and complexity of deployment **Ability to Scale Your Transformation**





Infrastructure/Platform as a Service

Enhanced Infrastructure of Multiple Cloud Platforms for Your Business Efficiency

- Enterprise Cloud
- Backup on Cloud
- DR as a Service
- DataBase Platform as a Service
- Microsoft Azure
- Hybrid Cloud





Experiences of > 13,000 licenses

Mobile Security deployed

> 300 ports of Enterprise Network Service have **Firewall implemented**











Trusted Cloud Security

Global Standard: Cloud Security Certified

- ISO 27001 for Data Center: 4 AIS Data Centers
 - Infrastructure, Network Infrastructure, Rack Management, Network Monitoring for Co-location
- ISO 27001 for Cloud Services: AIS Enterprise Cloud
- CSA STAR Certification (100% conformity within the first audit)





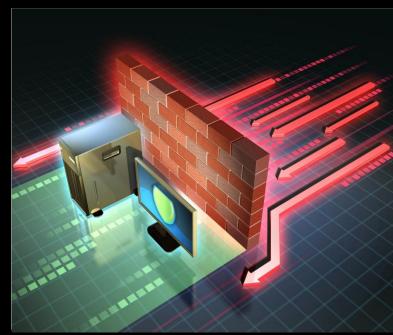


Centralized Firewall

Complete Visibility into and Precise Control over their Network Traffic



- Protect all your branches with a single subscription of our service
- Improve & Simplify Security Management
- Carrier Grade Redundancy
- Flexible & Scalable
- Rapid response, well-prepared system and processes





DDoS Protection

Mitigate the impact of **DDoS** attacks from the Internet

- Protection Based on Corporate Internet Bandwidth
- Clean Traffic & Attack Report
- Proactive Monitoring





International Cloud Service Certified with more Network Security Services

- ISO 27001 Certification
- CSA STAR Certification
- Centralized Firewall
- DDoS Protection





MS Office 365

Your One-Stop-Service on the best network The fastest growing Microsoft Cloud Solution Provider in Thailand





Cloud Direct Connect

To Microsoft Data Centers



- Direct connect to 2 Microsoft Data Centers in Singapore and Hong Kong
- Delivering highest 99.9% Services availability
- Support all Microsoft Cloud products Office 365, Azure, Dynamic 365, EMS





Unified Communication (UC)

Cost Saving with Operational Excellence

Powered by broadsoft

- All-in-one collaboration tool (IM, Conference, Desktop Sharing)
- Full range of Cloud PBX features
- Business mobilization from FMC (Fixed & Mobile Convergence)





mForm

Mobilize Workforce Any Time Anywhere

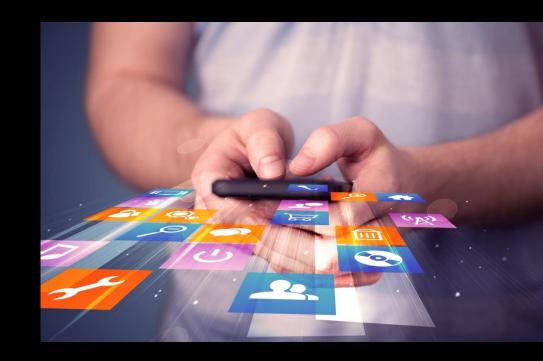
- Create your mobile form in a minute with no coding required
- Work online or offline and do even more than paper forms
- Online process flow and real time approval





Digitally Transform Your Business Communication & Collaboration

- Microsoft Office 365
- Unified Communication (UC)
- mForm







Complete to Compete



Managed Services

Partnership of E2E Cloud Service Invention



Software as a Service

OPEX Model of Various Business SaaSs



Security Service

International Cloud Security Certified



Infrastructure / Platform

Owned Infra / Platform for Cloud Ecosystem



Data Centers

Owned Carrier-Graded Secured Data Center



Networks of Businesses

Owned Wireless, IoT, & Fixed Network Infra



AIS Ecosystem

AIS as Your Digital Service Provider

- Faster Time to Market
- Lower Cost of Ownership
- Better Security
- Open Ecosystem for Partner

Enable Business to Focus on Value Creation





Manage Cloud Service We manage the cloud-based systems, including service delivery.

Operate & Maintain We maintain the cloud environment operation.

Migrate

We migrate workloads to the cloud environment

Setup

We setup a secure cloud environment based on workload requirements

Consultancy, Assess and Plan We define cloud strategies and create a cloud migration plan.



Emerging Sharing Economy





Start-up Economy



What is needed to be a CREATOR?

2 Community

Mentorship

Partnership

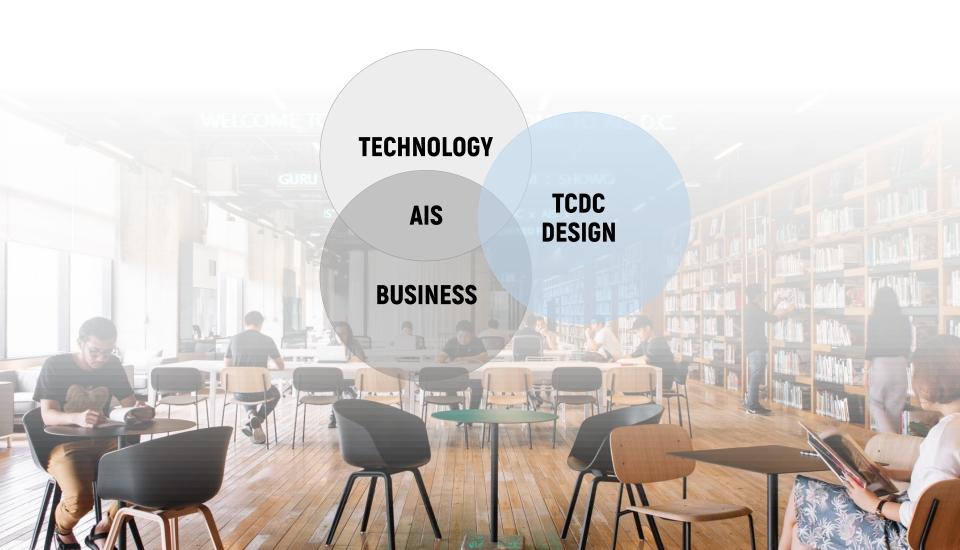


Business Model

Knowledge



Partnership to Create Community



The Community





COPY ROOM







Professional production studio rental services





EXTENDED COURSE!



10+ APIS TO PLAY!





Bussaya Satirapipatkul

EVP-Customer Service Management

AIS Annual Investor Day 2017

17th November 2017





Next Generation

Aperience



Next Generation of Customer Service with Digital Experience

Promote SERVICE EXCELLENCE by equipped all touch points with the better customer insights, generated though the powerful big data analytic tools.

Promote self-service touch points and enhance digital experience 2017 Improve service efficiency through Embedded digital tools to Move from service shop to increase efficiency digital touch points and chatbot digital experienced Shops Empowered customer service excellence using analytic tools to gain customer insights 2018 & beyond **Online Insight Customer Value Management Service operation Center (SOC)** Customized & segmented offerings Early detect network and service issues Customers' insights Personalization **Revenue Generation** Insightful **Costs Efficiency**

Extraordinary Digital Service Experience



2017

Promote Self-service Touch Points & Enhance Digital Experience



Enhance Digital Experience by Self-service Touch Points

My AIS



IVR



Digital & Social Media Channels





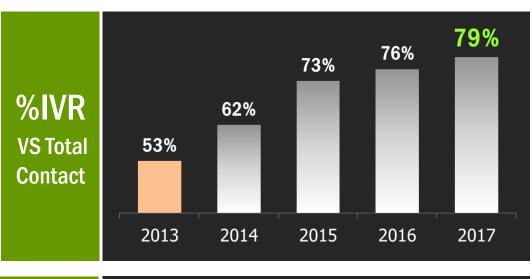


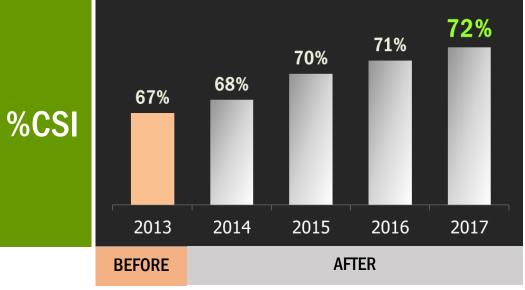












- Continuously simplify call flow to match needs & reduce time in IVR
- Personalized greetings & menus
- Speech recognition, go straight to topics using voice command within 15 secs.
- Agents focus on sales & providing digital service consultations



IVR Speech Recognition: Intelligent and conversational







Ask Aunjai Virtual Agent: Chatbot

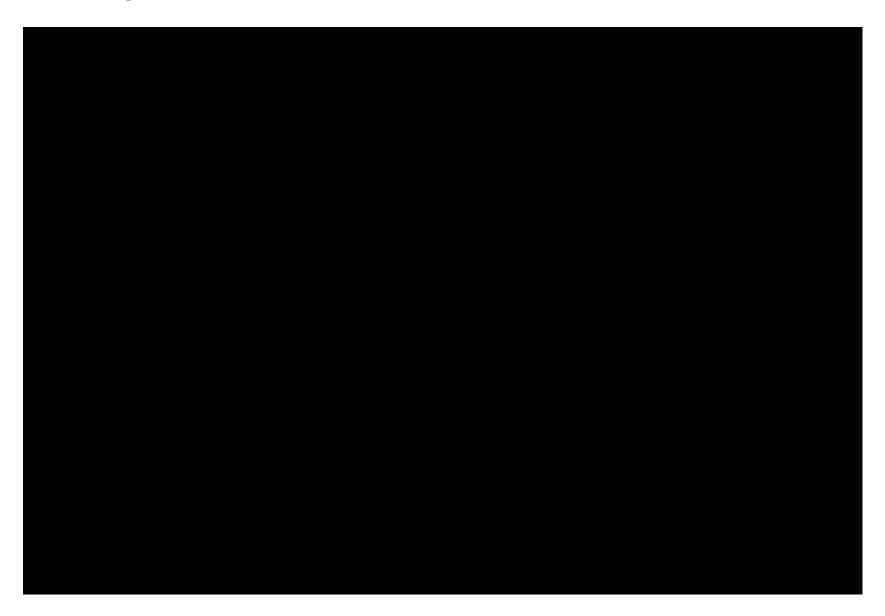
Natural Dialogue and Emotional Response by Aunjai's Stickers







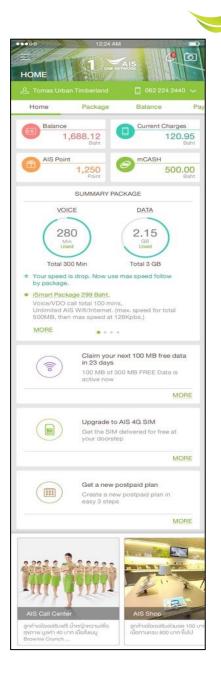
ASK Aunjai



My AIS

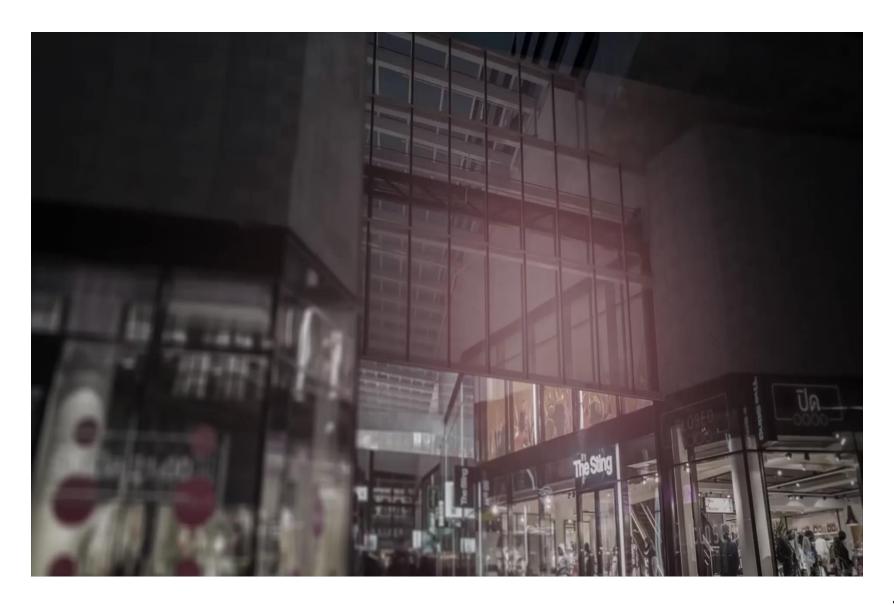
- Boost 'My AIS' as 'AIS Shop' with new features delivering delightful digital experiences
- Promote 'MY AIS' both online and offline channels eg. Call Center, AIS Shop, Social Media, etc.













AIS Shop: Digital & Experience Shop

- Redesign shop visibility & service interact to deliver digital service experiences
- Deploy OMNI-Channel in product purchase across AIS Shops,
 Call Center & Online Store



142 Shops nationwide

Bangkok 58 | Upcountry 84

0.7M contacts / month

87%

served within 15 mins.

85%

CSI

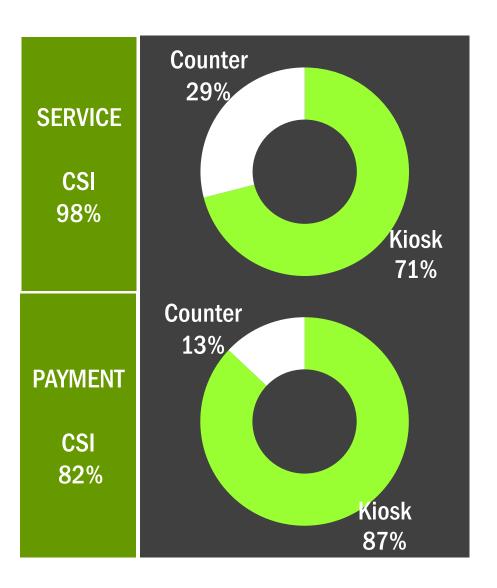


AIS Flagship Store @ Central World





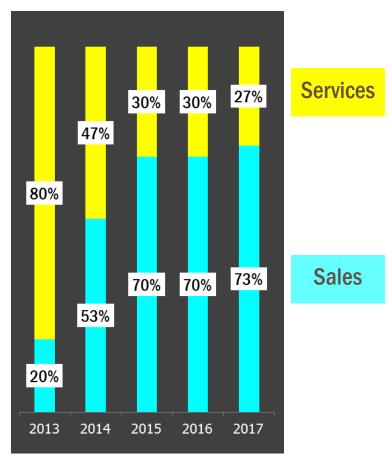
Service & Payment Kiosks



Frontline Staffs

Staffs seek customer insights to deliver more

- Sales opportunities
- Digital solution consultations
- Engage customers





Before 2000 2004 2010 2015

Customer Care Service Consultant Device Guru Digital Life Guru

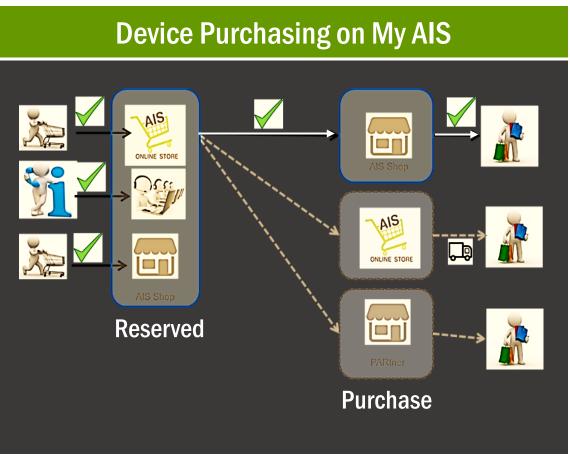




OMNI Channel

Insightful & Consistent Online to Offline & Offline to Online







2018 & beyond

Empowered Customer Service Excellence using Analytic Tools to Gain Customer Insights









Customer Value Management (CVM)

Holistic view of integrated offering in every stage of customer lifecycle

DIGITAL BRAIN

Online behaviors analytics

from NOC to SOC

Capture network quality & guarantee Best CE in real time

Intelligent Knowledge Base (iKM)

Products & Services
Portfolio

GATHERING A DEEP CONTEXTUAL INSIGHT by AI

Provide to all interaction platforms & service channels



CHATBOTS

Embed into all self-service channels for enquiries (My AIS, Conversational IVR, Ask Aunjai, LINE, etc.)



IM SCREEN

Total solutions service screen



MY CHANNEL APPS

Handy apps for mobility services

OMNI CHANNELS

Seamless flow of enquiries



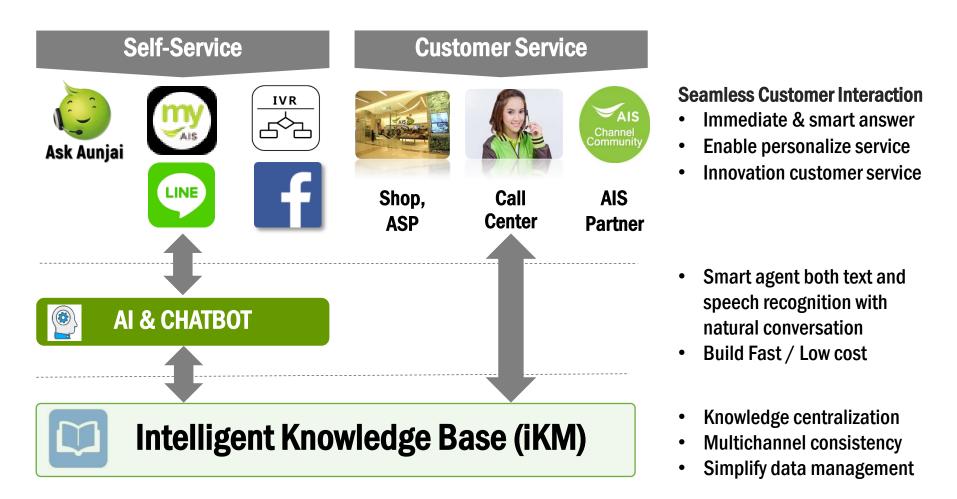
Seamlessly serve customers ...predictably ...accuracy ..faster...personalized

FOUR-I SERVICE EXCELLENCE

REVOLUTION OF PROCESS STARTING FROM **BRAIN** TO **HEART**



Digital Service Experience by "enabling AI & Chatbot"





EXCELLENT HYBRID AGENT

THE BEST INTEGRATION OF ALAND IA



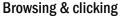
| Contextual analytics & prediction | PROCESSING | Accuracy & insightful offering from Al |
|--------------------------------------|-------------|---|
| Holistic views for customer needs | PERSPECTIVE | Emotion detection & Sales motivation |
| Basic enquiries | COMPLEXITY | Mixed products & Complicated issues |
| Offload a number of repetitive calls | VALUE | Free up for high value customers |
| Avoid human errors | SKILL | Develop skills for new products |

Seamless Experience from Online-to-Offline Purchasing

Help customers make decision on their interested products with seamless experience

Shop Online









Put into shopping cart





Did not complete purchase



Call to Call Center for Other Services





Agent serves & Ask about interested products



Buy items as desired Or satisfied with consultation given

Proactive conversation:

- "We notice that you have Samsung Note 8 pending in your Shopping Cart"
- "Are you still interested? Would you like me to help you with more info?"
 - Inform special deals
 - Give consultation for decision making
 - Assist with purchasing or reserving if needed

USE CASE 1

SOLUTION

Online-to-Offline Integration

"Omni Channel"

Launch: Jul 2017

Informing Network Incident on IVR (based on profile)

Notify customers of network incident and solution time based on customer's problem area





Cannot Use the Internet



1175



Call the **Center Number** intending to ask what happens







Send SMS to inform once the network is back to normal

SOLUTION

SOC Solution

(Service **Operation** Center)

Proactive alert:

"There is network problem in Rama II area at the moment due to broken cables. We are fixing it asap and expected to be finished in 2 hours by 4 p.m. Sorry for the inconvenience."

Launch: 2018

VIP Usage Monitoring – Expanded Scope

Ensure quality network experience for VIP customers with expanded scope of usages





Both domestic and international usages



Experience Usage Difficulties e.g., cannot use Internet while abroad



Alert Engineer Team to quickly investigate and fix the problem



Received SMS informing solution

Proactive conversation:

"We notice that you have just experienced difficulties using Internet while roaming. We have already fixed the configuration for you, and now you can use the Internet normally."

USE CASE 3

SOLUTION

SOC Solution

(Service Operation Center)

Launch: 2018

Pre-Roaming Alert at Suvarnabhumi Airport

Reduce customer's pain point of High data roaming charges unknowingly

Passing Passport Control



Send locationbased SMS to AIS customers, only after the passport control

Waiting for Flight



Customers normally play with phone, increasing chance to read SMS and thereby take preferred action

Home: Checking Out Bill



Peace of mind. No surprise

- **▶** Increase AIS integrity
- ▶ Reduce Waive Requests
- ► Generate Revenue from IR Package Subscription

SOLUTION

USE

CASE

SMS Notification customized by location & profile

right place, right offer, right time

Launch: Dec 2015

SMS Message:

"Using smartphones abroad may cause Internet roaming charges unintentionally. Subscribe Internet roaming packages before leaving by calling 1175. (If you do not wish to use Internet roaming, turn-off Internet by pressing *129*1#)."

Contextual Privilege Notification at the Airport

Travelling customer's awareness to enjoy privilege and get delightful experiences at the airports







Using Mobile While Waiting at the Airport

Trigger the network by customer usage or location update



Received SMS Notification

The system checks customer profile and send SMS accordingly





Redeem and enjoy themselves while waiting for flight



SMS Message:

"Enjoy AIS Privileges while waiting at the airport. Check out privilege especially for you, dial *545*xx#. To check out participating shops at Suvarnabhumi Airport, visit www.ais.co.th/airportprivileges"

SMS Features:

- Inform privilege by segment
- Real-time checking for remaining privilege quotas
- List of shops and restaurants with privilege offers specifically at this airport
- Visual Zone Map to easily locate specific shops & restaurants

USE CASE 5

SOLUTION

SMS Notification customized by location & profile

right place, right offer, right time

Launch: 2018

Customer Insight for Right Offering: Customer's Complaints

Finding unspoken dissatisfaction & solve or offer solution before customer's complaints or churn



Customer Usage Continue to Decline

300 THB ▶ 200 THB 800 THB ▶ 260 THB 3000 THB ▶ 50 THB biggest drop



Focus on the group with the biggest drop

| Details | Scenario 1 | Scenario 2 | |
|------------|--|--|--|
| Scope | Most subs use XYZ package | Most subs reside as cluster in XYZ district | |
| Findings | Package does not match with customers usage behavior | Engineers finds weak signal in that area | |
| Assumption | Customers are not satisfied, seeking to try the competitor's | | |
| Action | Offer best fitted package Personalized offer based on usage pattern using data analytic tools | Quickly fine tune and boost up network quality in the area | |

USE CASE 6

SOLUTION

Customer Value Management (CVM) Solution

Utilizing data analytics and predictive modelling

Launch:

Scenario 1 - 2018 Scenario 2 - Q4 2017



Q&A

