

Practical Implementation of Industrial AI and DX

Mobile Innovation in Japan's NTT group

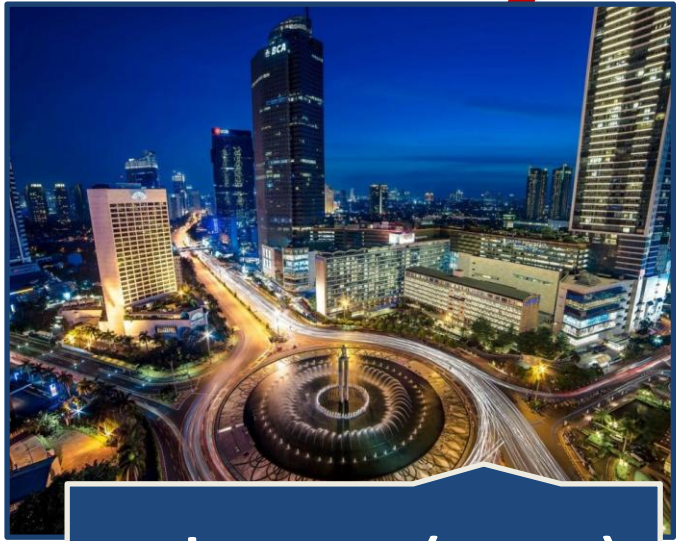


MOBILE i INNOVATION

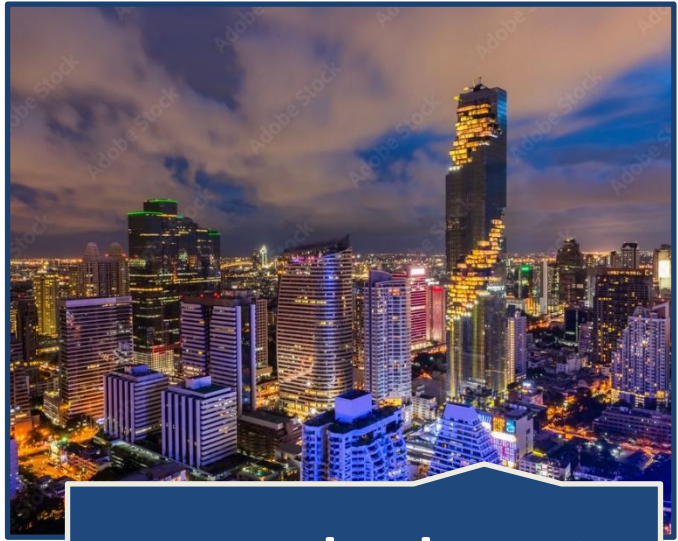
 **docomo Business**
73%

**Japanese-Thai Joint
Ventures company**
Established since 2004
3 Branches in Thailand and Indonesia

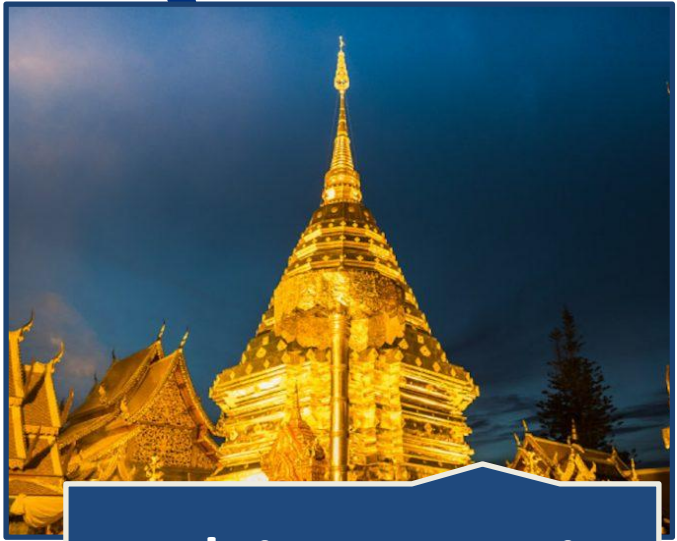

LOXLEY
27%



Jakarta (IDN)



Bangkok HQ



Chiangmai

Fleet
Management
System (FMS)



Smart Mobility
LINKEETH

บริษัทโมบาย อินโนเวชั่นจำกัด

Connectivity
and
Digital
Innovation



Factory IoT
(MLA)



Fleet Expert
series



TRAC Cloud
Alc Checker

MOBILE
iNNOVATION

NTT docomo Business

Since
May 2004



AI solution
for CCTV
(BYON)

Mobile
Applications



SMS
Broadcasting



Buddycom



Time & Location
Sharing apps
(Wiatag)



Mobile SIM



Construction
DX

(CupixWorks, SpiderPlus,
PicoCela)

Profile of Speaker



Name: Yuji Kawasaki

Position: Chief Financial Officer, Director of Business Development
CPA of Washington, USA

Experience: 2012. Joined NTT DOCOMO,
JPN&SNG: Corporate Sales and Marketing
SNG: Strategy & Admin, Business Development
JPN: Pre-Sales of 5G IoT Product
2023. Joined Mobile Innovation

Hobbies & Interests

Travel, Self-Study

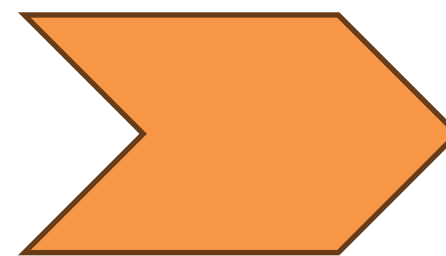
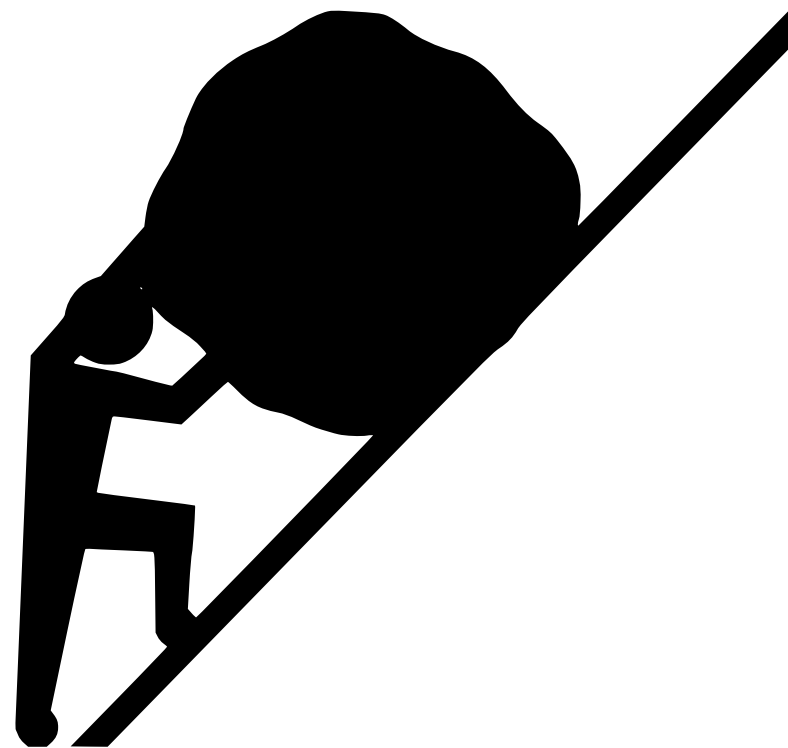
Q. What challenges your company need to overcome **implementing** the latest technologies??



One Possibility

Correct understanding of “As Is” and “To Be”

As Is

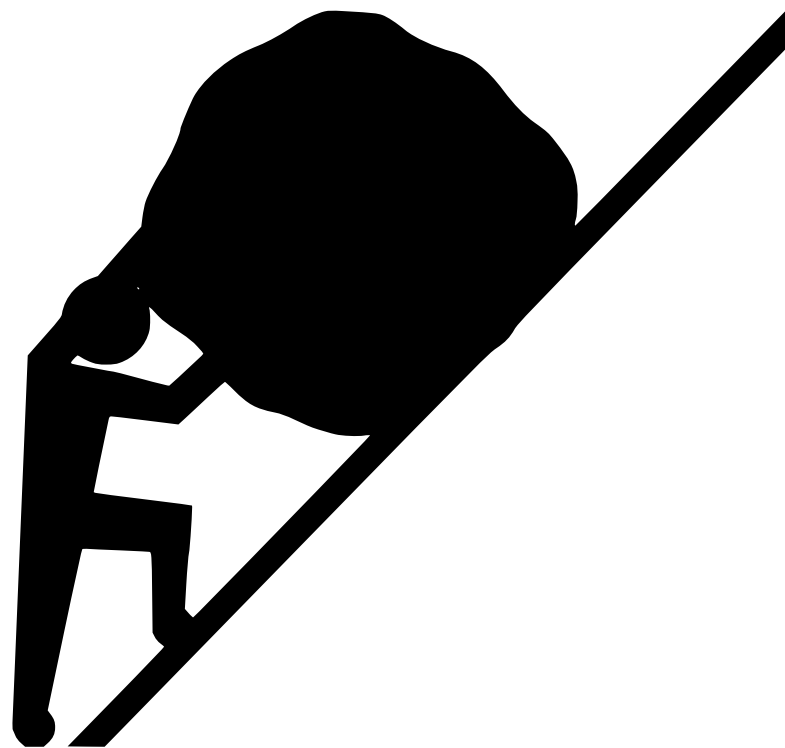


To Be



Q. How to understand what is happening in your company ??

As Is



Most of company start to implement CCTV in your workplace



Challenges in Manufacturing Industry

CCTV Operation

1. CCTV Installation (CAPEX)

2. CCTV Monitoring Cost as (OPEX)
Impossible to monitor 24/7



&



Challenge 2 in Manufacturing Industry

Action required for follow up

Monitoring itself is visualizing AsIs, you need action, “communication” with your team members



AsIs and ToBe

AsIs



ToBe

BYON

AI Detection and Dashboard



buddycom

Auto Notification with Sound, Snapshot, Chat



BYON

AI Detection and Dashboard



buddycom

Auto Notification with Sound, Snapshot, Chat



Key Features

1. Need AI-CCTV??

Current CCTV



LICENSE PLATE RECOGNITION : VIDEO SHOWCASE



License Plate	Plate Image	Car Image	Car Model	Car Type	Color	Province	Date Time	Camera
5กขXXX			nissan_sentra	sedan-standard	silver-gray	กรุงเทพมหานคร	2021-04-30 00:06:06.952	Gate A Entry
กข23XX			nissan_patrol	tractor-trailer	silver-gray	ร้อยเอ็ด	2021-04-30 00:00:35.247	Gate B Entry
5กขXXX			mitsubishi_outlander	suv-standard	silver-gray	กรุงเทพมหานคร	2021-04-30 08:00:22.477	Gate A Exit
กข23XX			nissan_patrol	tractor-trailer	silver-gray	ร้อยเอ็ด	2021-04-30 09:00:35.247	Gate B Exit

*visualize time of load in/out, staying hours

PPE Detection



BYON

AI Detection and Dashboard



buddycom

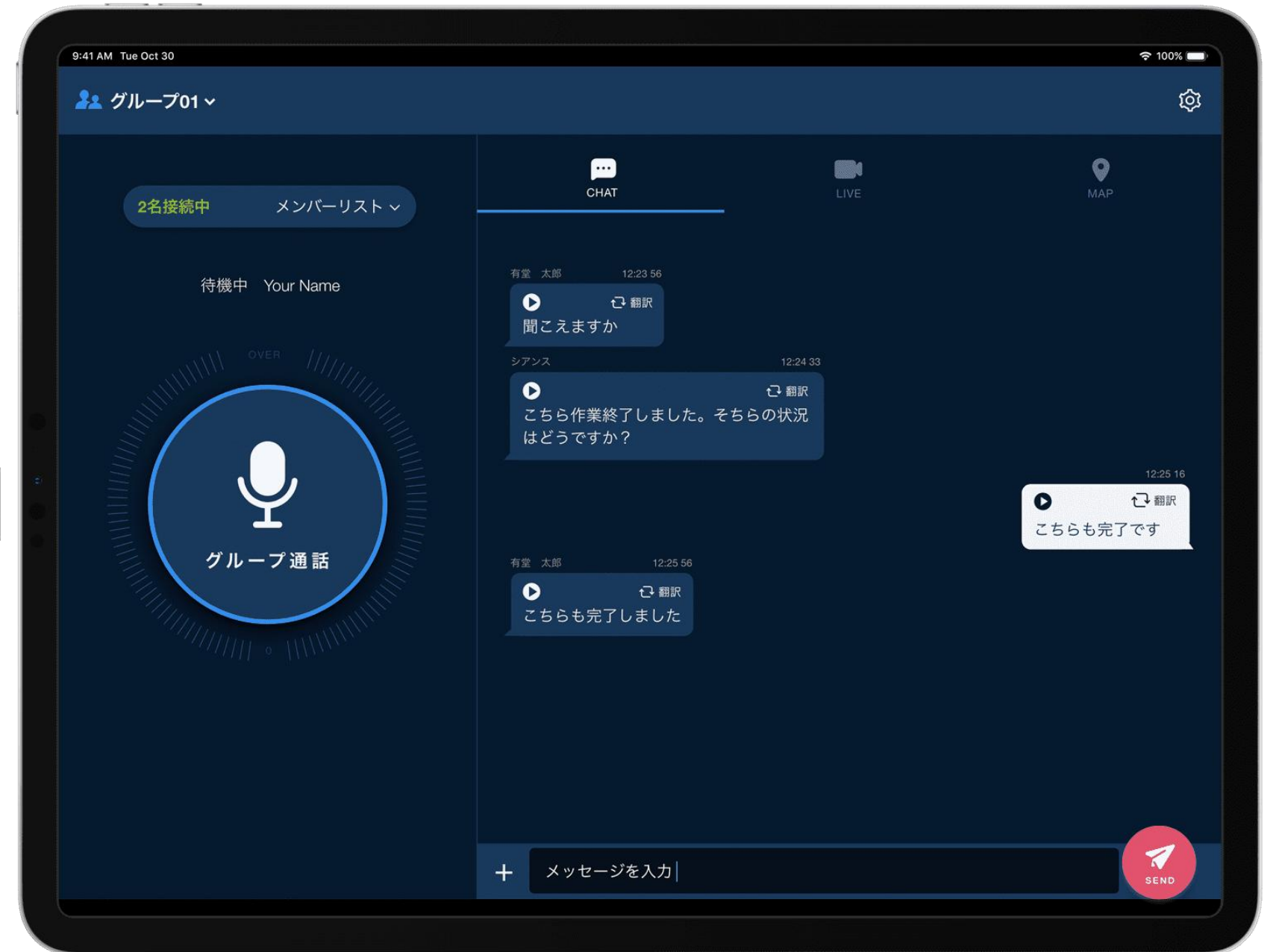
Auto Notification with Sound, Snapshot, Chat



What is

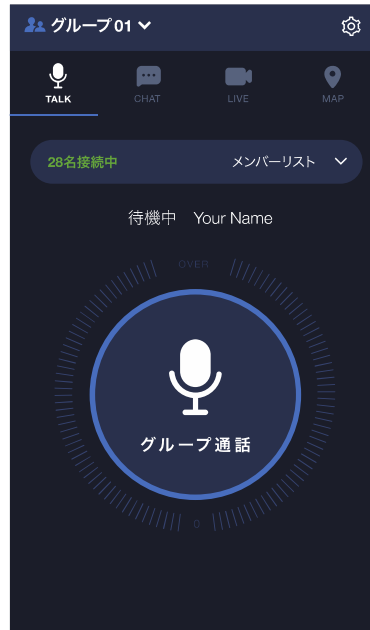


- Mobile App running on iOS, Android
- Originally Born in Japan by Science Arts Inc.
- Equipped with Push-to-Talk, Speech-to-Text, Translation, Livecast and Map call functions.
- Usage fee in subscription model.



Key Features

Digital Transceiver



●Function

All you have to do is “press the call button” to make a voice distribution to the group members. Concurrent calls to 2,000 users per group have been verified. When making a call, you can talk in both directions like taking on a transceiver.

●Benefits

Since there are few steps to speak, you can share information with the whole person as if you are right next to them.

Livecast



●Function

You can talk while sharing the video with livecasting. Conversation during livecasting also transcribed and translated as well.

●Benefits

Even if information is difficult to convey by voice or text alone, Buddycom can share accurate information by talking while showing livecast images.

Text/Chat/Translation



●Function

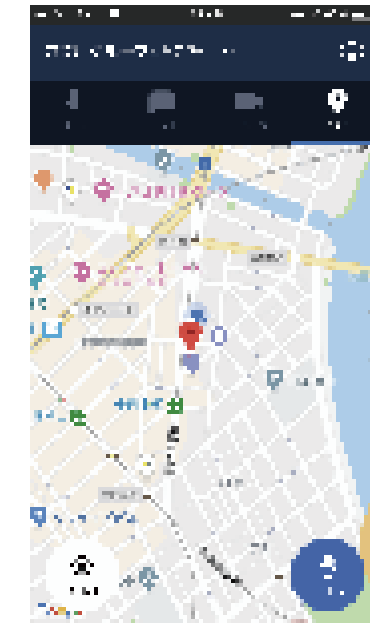
Communicate with sound and text in almost real-time manner. Speech and text can also be translated and read-out in your preset language automatically.

●Benefits

You can check communication log later what you missed in realtime.

Buddycom enables smooth communication in multinational worksite.

Map Call



●Function

You can view a user's location and talk to users within a specified range on the MAP. Additionally, the admin can check historical location of user while using app on console dashboard.

●Benefits

This function enable you to have the area selecting for emergency information sharing with appropriate members.

Usecase

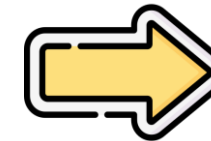


Solution 1: “Objective Detection AI” + “Auto Alert Function”

AI: Detect Object in the line



No Action

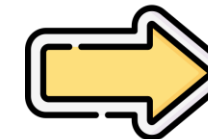


Normal
(no item)

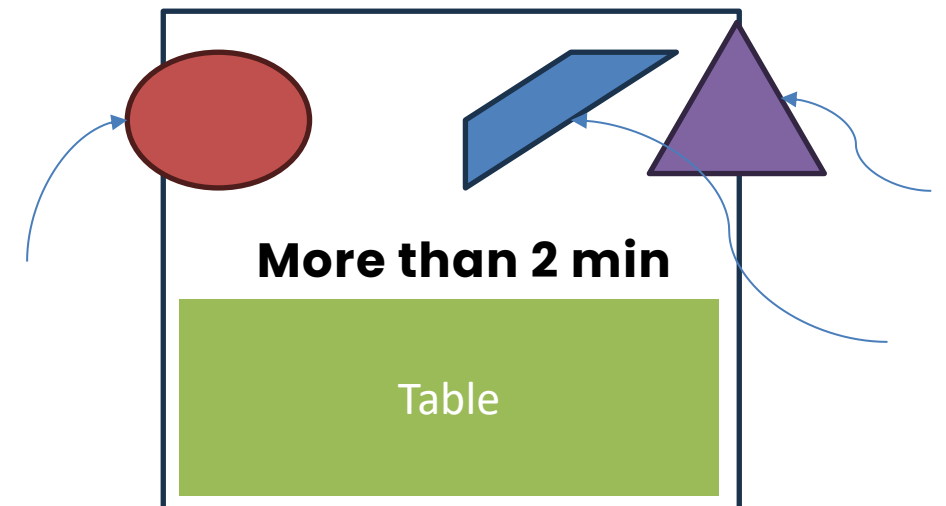
(No Object)

Table

Action



Detect
(All the object entered the angle)



Solution 2: "Human Detection AI" + Rule Setting "Auto Alert Function"

AI: Detect Object in the line



Logic: No more than 60min, send alert



Notification Sound by AI



please return to the worksite now and resume operations immediately.

Wrap-up



1

Your CCTV become AI-CCTV

- ✓ Best-fit AI could be adopted

2

Auto Notification with Multi-Language through buddycom

- ✓ No need for your manager to make instruction, buddycom will monitor 24/7

3

Huge cost reduction and work efficiency

- ✓ 24/7 monitoring and notification by AI
- ✓ Enhance your work efficiency and product quality