

Digital Transformation in MUFG

MICHISUKE YAMADA
GLOBAL INNOVATION TEAM, MUFG
NOV 12, 2020





Michisuke “Michi” YAMADA 山田 典佑

Head for Americas, Global Innovation Team, MUFG

[Carrier in MUFG]

2003 Joined The Bank of Tokyo Mitsubishi

- RM at Roppongi Branch, Aoyamadori Branch

2006 e-Business and IT Initiative Division (Tokyo)

- Retail consumer related product (Mobile app, Aggregation)
- Division Planning & Budget/Risk Control etc.

2012 Asian Transaction Banking Office (Singapore)

- VP, Cash Management Service Department (CMS, Pooling etc.)

2014 Digital Innovation Division (Tokyo)

- VP, SNS Marketing, Blockchain

2016 US-ATMC, Stanford University

- Visiting Scholar

2017 Global Innovation Team (US)

- Director, Open Innovation, Digital Transformation etc.

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Appendix

MUIP Investment Thesis
MUIP Portfolio

1. MUFG Overview

1. MUFG Overview

Mitsubishi UFJ Financial Group (MUFG)

MUFG is Japan's Largest Financial Institution and a Top 5 Global Corporate Bank¹

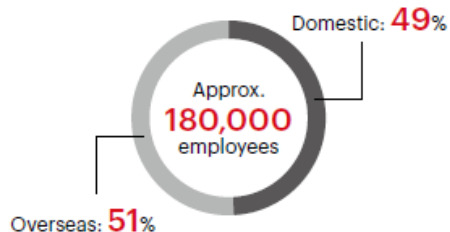


Number of domestic individual customers

Approx. **34** million

Number of domestic corporate clients

Approx. **1.2** million



Global Banks By Total Assets		
Rank	Bank	Assets (US\$ Thousands)
1	Industrial and Commercial Bank of China	\$3,886,741,098
2	Agricultural Bank of China	3,541,131,638
3	Bank of China	3,218,954,218
4	China Construction Bank Corporation	3,131,955,418
5	Mitsubishi UFJ Financial Group, Inc.	2,889,379,410
6	JP Morgan Chase & Co.	2,764,661,000
7	BNP Paribas	2,761,977,461
8	HSBC Holdings plc	2,728,347,000
9	Bank of America Corporation	2,426,330,000
10	Citigroup Inc.	2,014,802,000

Global Banks By Total Deposits		
Rank	Bank	Deposits (US\$ Thousands)
1	Industrial and Commercial Bank of China	\$3,030,576,693
2	Agricultural Bank of China	2,665,919,740
3	China Construction Bank Corporation	2,358,614,761
4	Bank of China	2,245,697,912
5	Mitsubishi UFJ Financial Group, Inc.	1,739,985,235
6	JP Morgan Chase & Co.	1,525,261,000
7	Bank of America Corporation	1,392,836,000
8	HSBC Holdings plc	1,373,741,000
9	Wells Fargo & Company	1,308,495,000
10	Mizuho Financial Group, Inc.	1,241,548,208

¹ S&P Global Market Intelligence as of April 6, 2018.



1. MUFG Overview

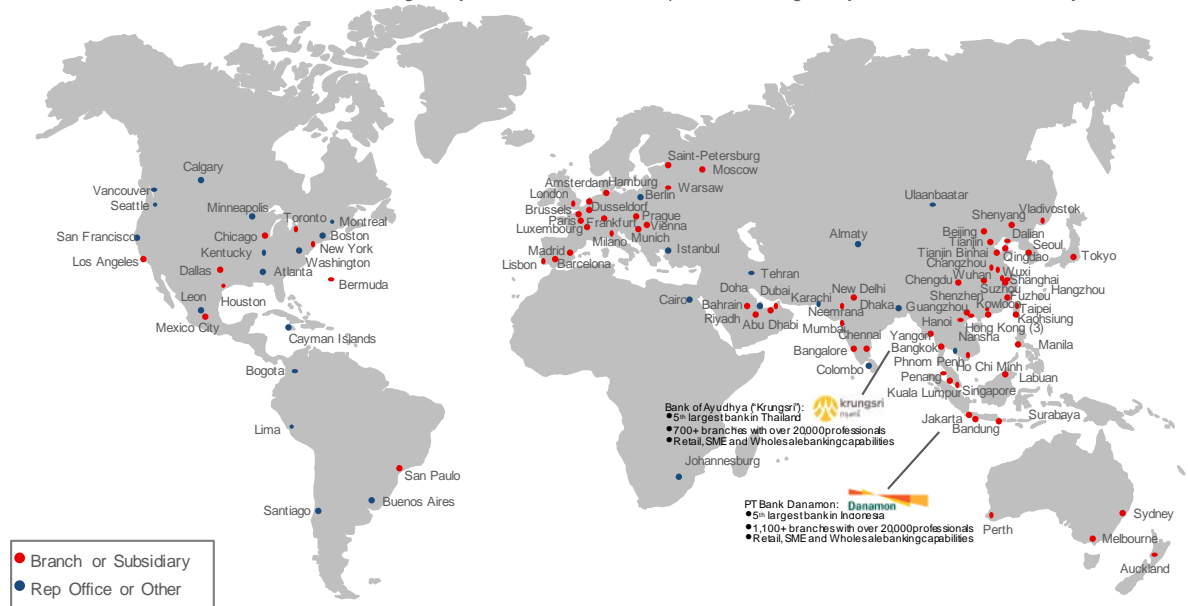
Extensive Global Network and History

50+
countries

2,700+
locations globally

180,000+
professionals globally

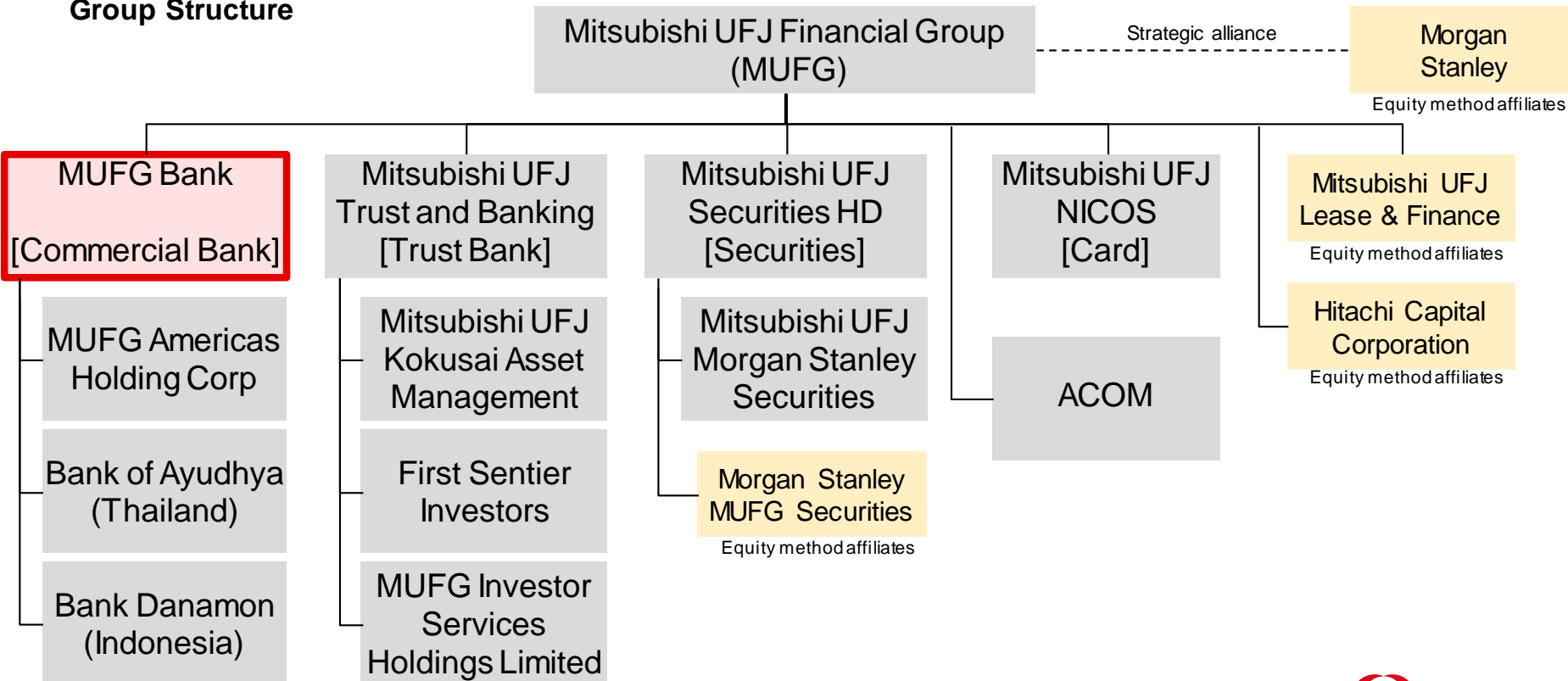
360+
years of history



As of March 2019, there are 370 Union Bank branches in the U.S., 700+ Bank of Ayudhya a (“Krungsri”) branches in Thailand, 1,100+ Danamon branches, and more than 700 branches in Japan.

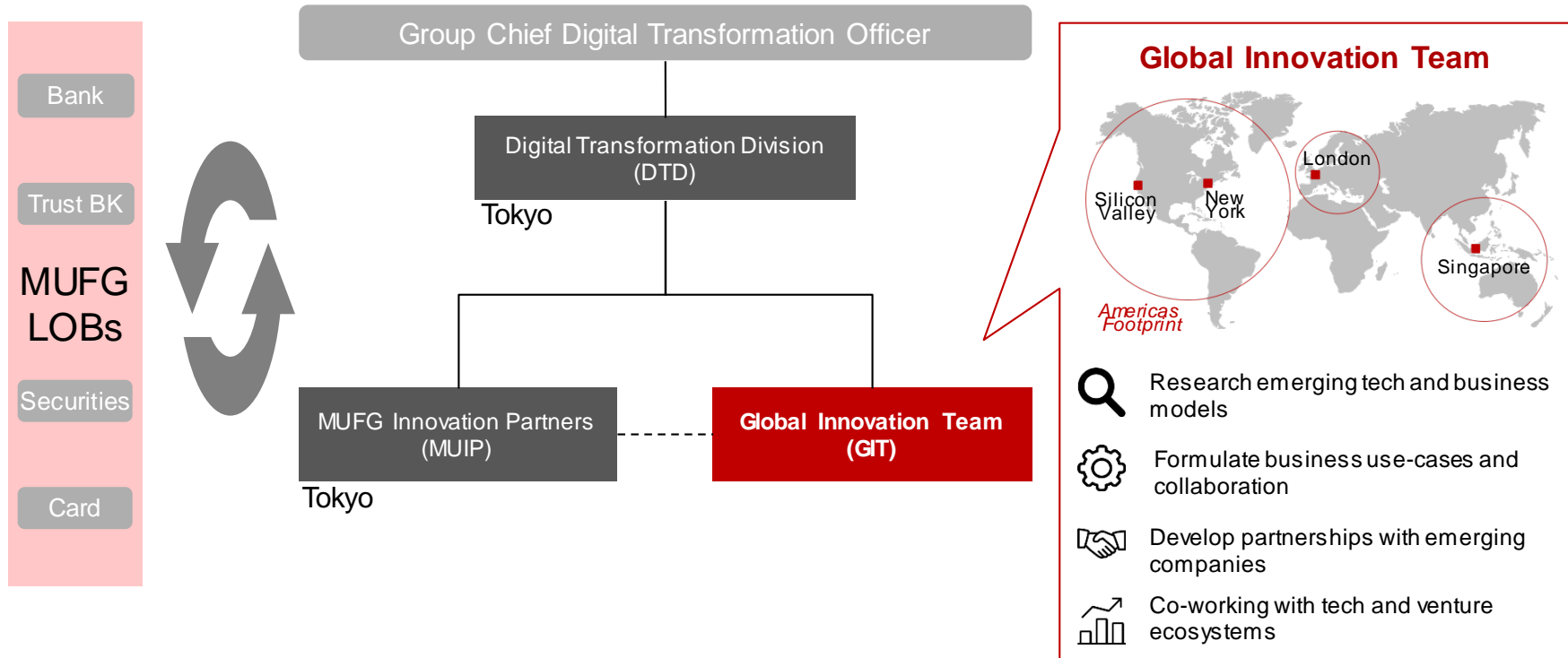
1. MUFG Overview

Group Structure



1. MUFG Overview

Digital Transformation Structure



2. Accelerating Digital Shift

2. Accelerating Digital Shift

Digital Shift Mega Trends

巣ごもり消費で
東南アEC加速

EC市場4倍予測も

2020.3.26 Nikkei Shimbun

米ウォルマート、宅配攻勢

EC74%増収へ
首位アマゾンに猛進

Delivery

2020.5.21 Nikkei Shimbun

ネット診療 世界で拡大

米荒は保険適用

Healthcare

2020.5.18 Nikkei Shimbun

Covid-19 has been changing the way of human interaction by accelerating digital shift in various area

安全性への懸念
ズームはね返す

SaaS

2020.6.4 Nikkei Shimbun

ITで解消官民連携

コロナ受け米教育格差

Education

2020.5.2 Nikkei Shimbun

現金は衛生上の懸念
電子商取引も急増

Cashless

2020.5.10 Nikkei Veritas

人気競技がeスポーツ

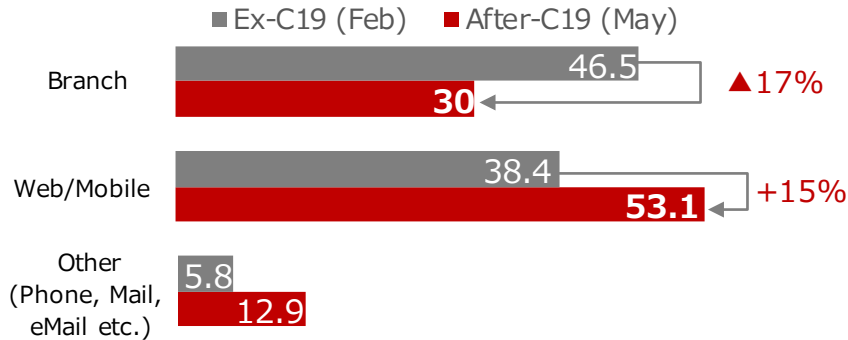
Game

2020.5.25 Nikkei MJ

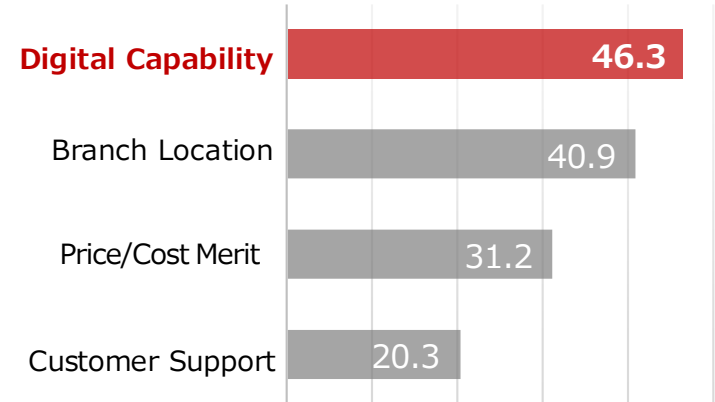
2. Accelerating Digital Shift

Consumer Survey for Banking Business (May 2020)

◆ Channel preference for banking



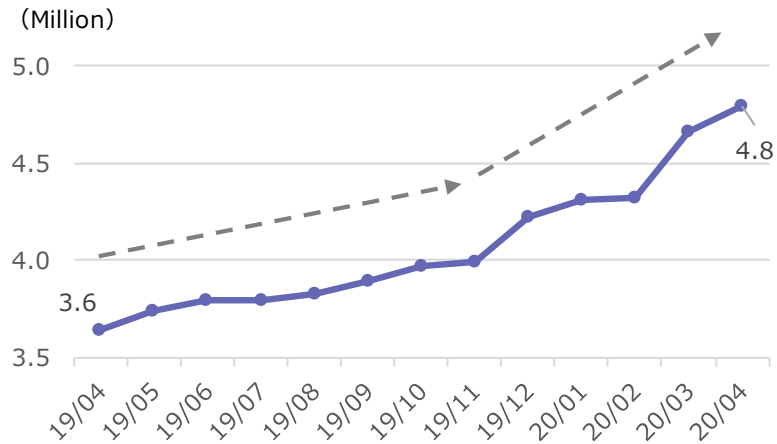
◆ Criteria for choosing/switching bank



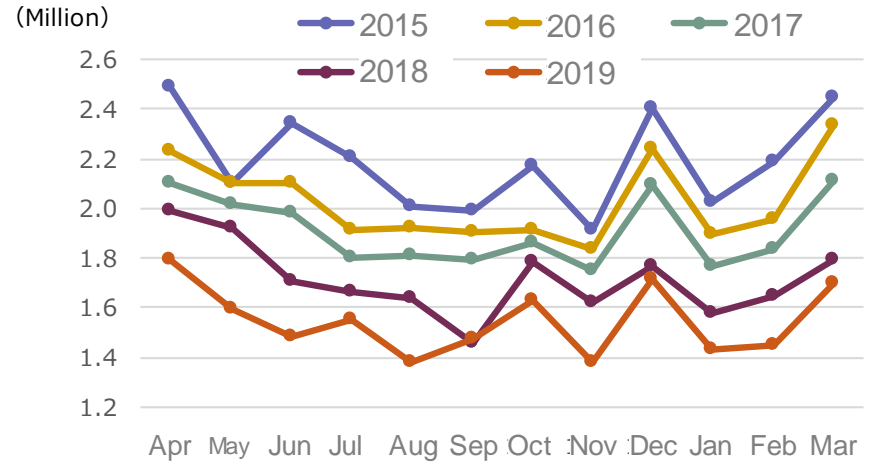
2. Accelerating Digital Shift

Customer behavior in MUFG Bank (1/2)

◆ MAU in Online Banking Channel



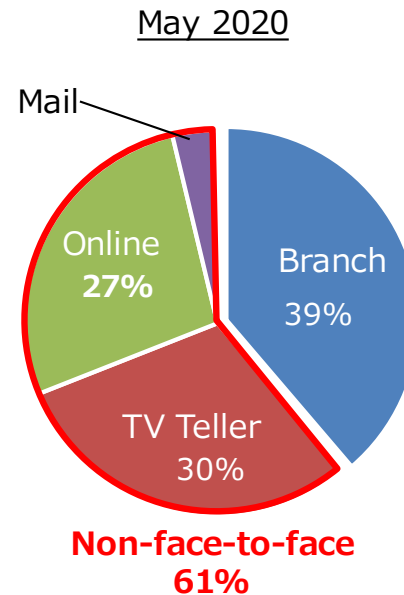
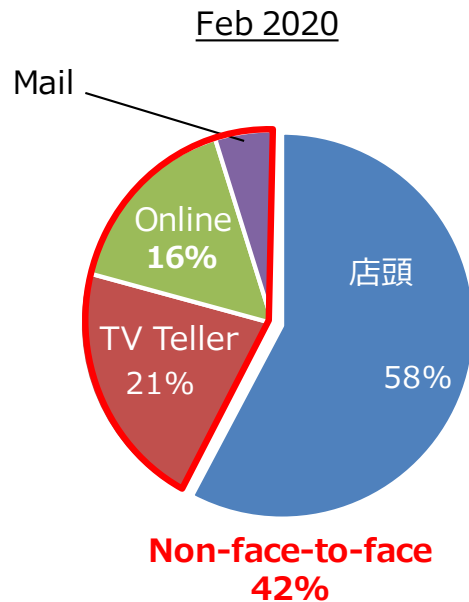
◆ Number of Branch Visitors



2. Accelerating Digital Shift

Customer behavior in MUFG Bank (2/2)

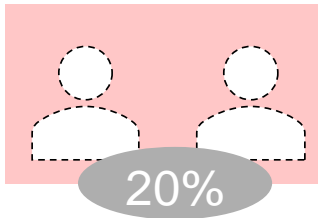
◆ Channel Shift in Account Opening before/after Covid-19



2. Accelerating Digital Shift

- Before FY2023, MUFG's headcount will be reduced by 20%
- A third of branch will be maintained as a full-service whereas others will be closed or re-designed

Bank Headcount (Japan)



Branch Network (Japan)

Full-Service Branch



33%

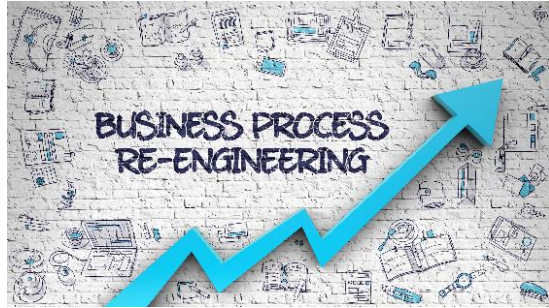


40%

3. Digital Transformation (DX) Initiatives

3. Digital Transformation (DX) Initiatives

Core Digital Transformation Areas in MUFG



Reforming operational processes



Acceleration of the mobile shift



Collaboration with digital platformers



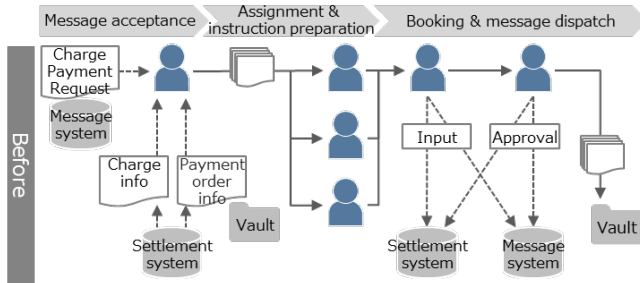
Data-driven financial services

3-1. Reforming Operational Process

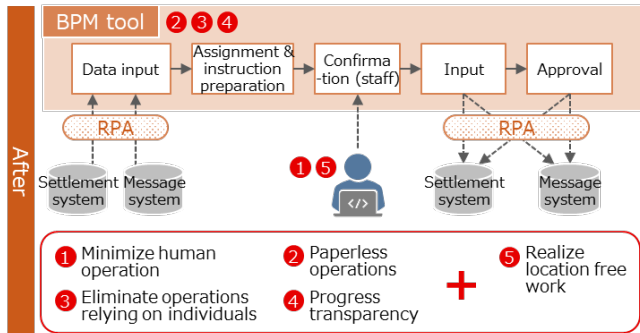
3-1. Reforming Operational Process

- MUFG adopted Robotics Process Automation (RPA) in 2015. At that time, no other banks used RPA in Japan
- Since then, wide variety of use cases has been added globally

RPA workflow Image



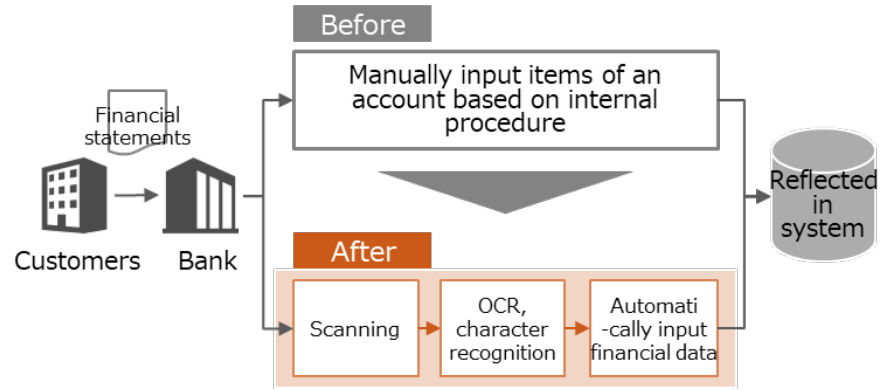
Business Process Restructuring



Sample Use Case

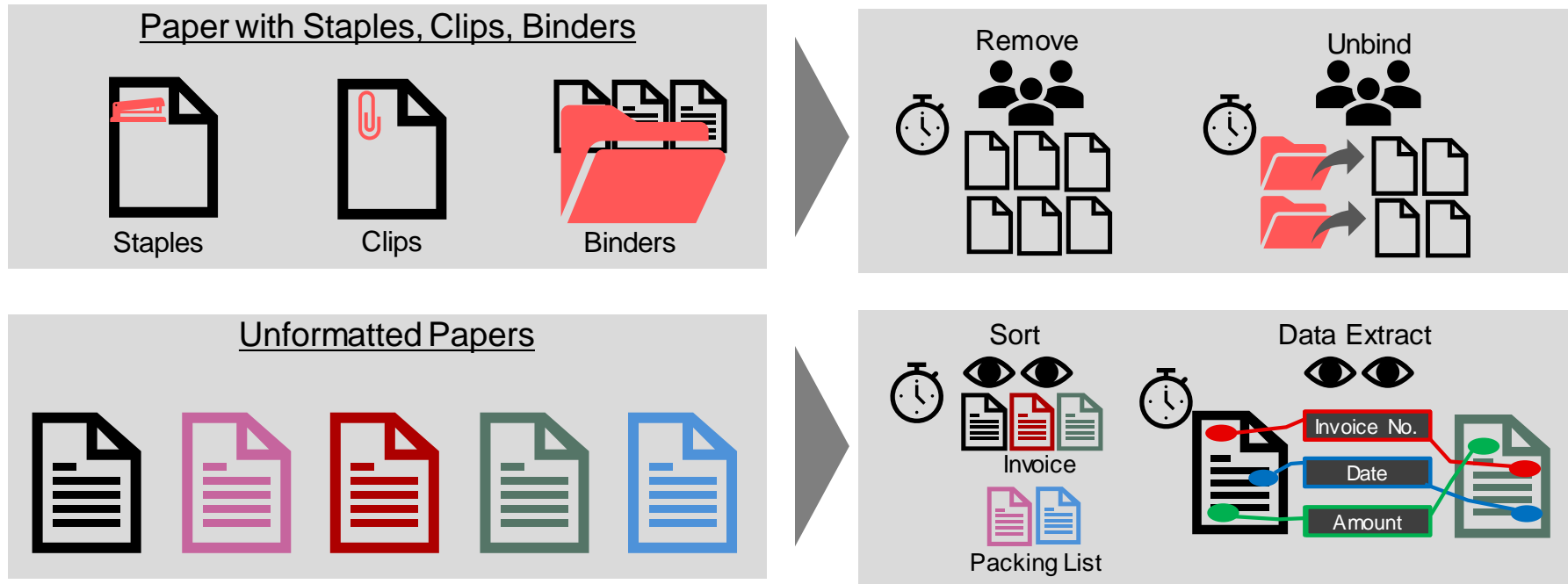
Register financial statements in database

- Annually accept more than 100,000 financial statements from customers
- Utilize RPA to automatically register 70% of its work



3-1. Reforming Operational Process

- However RPA is not always good at anything. Paper is a major barrier to implement RPA in some use case
- Many burdensome manual handling procedures are remaining. Therefore, MUFG made a collaboration with a startup



3-1. Case Example: Ripcord

Ripcord overview

Ripcord is the world's leading **robotics digitization** company, **combining hardware and software** robotics to process and digitize documents and records via an Integrated SaaS offering. Its platform focused on smart robotics **digitization**, smart **content management** with AI and helping better enable RPA and other business process automation.

Website	https://www.ripcord.com/
Location	Hayward, CA (founded 2015)
Area	AI & Automation (Electronic Content Mgmt.)
Funding	Recent: \$105M Series B-2 (Feb 2020) Total: \$120M (\$360M Valuation)
Key Investors	KPCB, Google Ventures, SVB, CDK Global
Customers/Partners	MUFG, Capital One, Conoco Phillips, CDK Global, Coca Cola, Hartford Group

NIKKEI Asia

by Location - Business - Markets - Tech - Politics - Economy - Features - Opinion - Life & Arts - Asia

TECHNOLOGY

MUFG taps US robot startup to scan centuries-worth of documents

Ripcord will help Japanese bank move away from paper and hanko stamps

Menu Q Search Bloomberg

Technology

Japan's Largest Bank Plans to Digitize Millions of 'Hanko' Documents

By [Tajima Urakawa](#) and [Yuki Harawara](#)
July 21, 2020, 11:09 PM PDT

Japan's largest bank is installing giant robot scanners to digitize millions of documents, as it seeks to break from the long tradition of using paper records to verify its customers' identities.

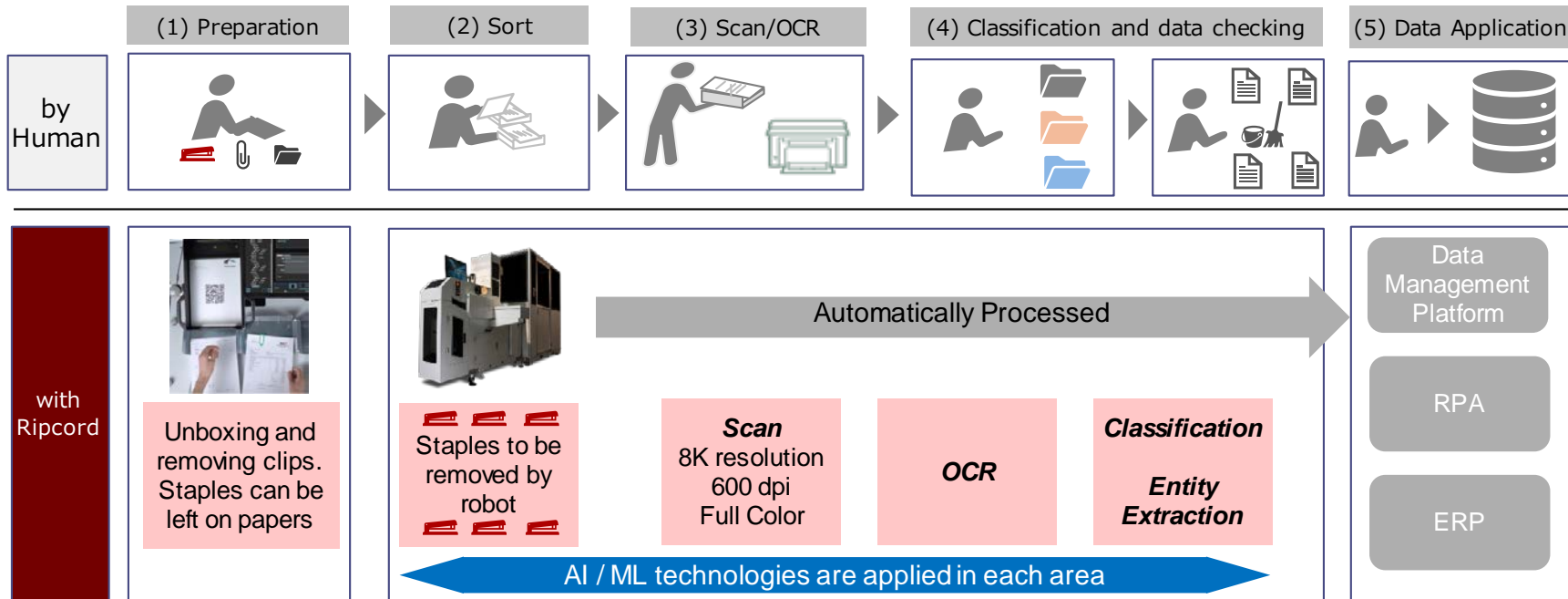
Mitsubishi UFJ Financial Group Inc. will use the machines of Ripcord Inc. to scan 300 million pages of files that record clients' personal seals known as hanko, the Tokyo-based lender said Wednesday. The U.S. startup said last

100 years, Mitsubishi UFJ Financial Group, Japan's adbye to the hanko, the carved personal stamps that lie of signing bank documents since the 1800s.

via banks have millions of paper documents stacked away

3-1. Case Example: Ripcord

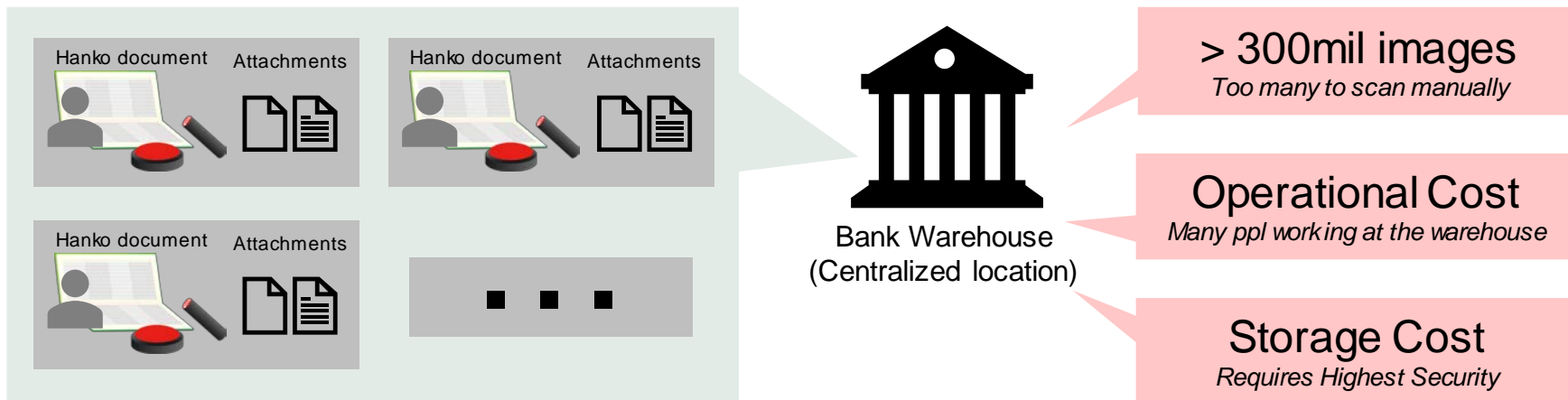
How Ripcord Solution works



3-1. Case Example: Ripcord

First Use Case: Digitizing All The Stored Hanko Documents

- In the past, a hanko (seal) image must be registered to bank when an individual opens a bank account
- Maintain these images with ready for reference requests from branches costs a lot for bank



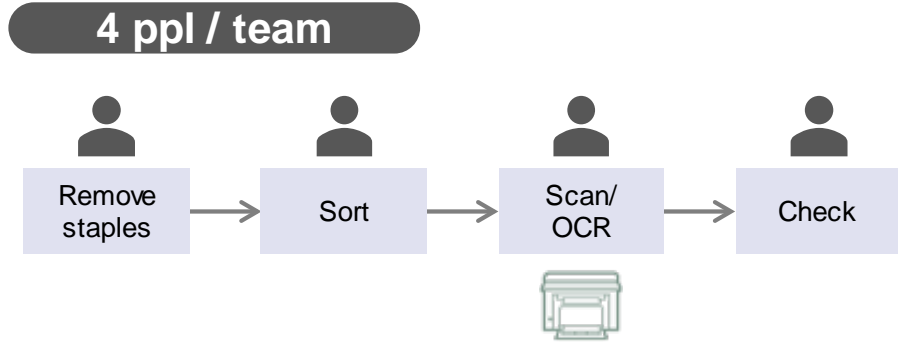
MUFG decided to make all the documents scanned by collaborating with Ripcord

3-1. Case Example: Ripcord

Workflow image for scanning Hanko document

Time to completion

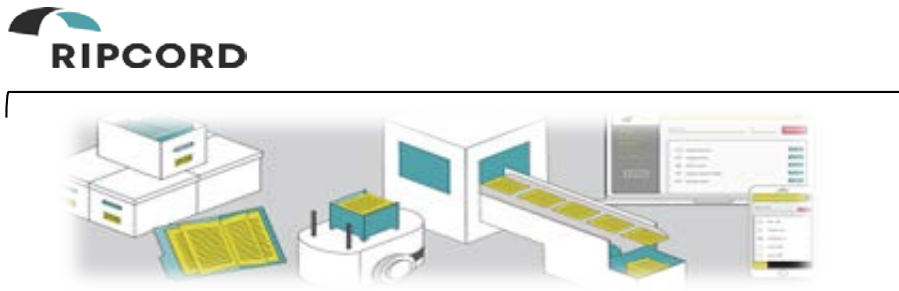
by
Manual





1team (4ppl) **510yrs**


510team (2,040ppl) **1yr**

with
Ripcord



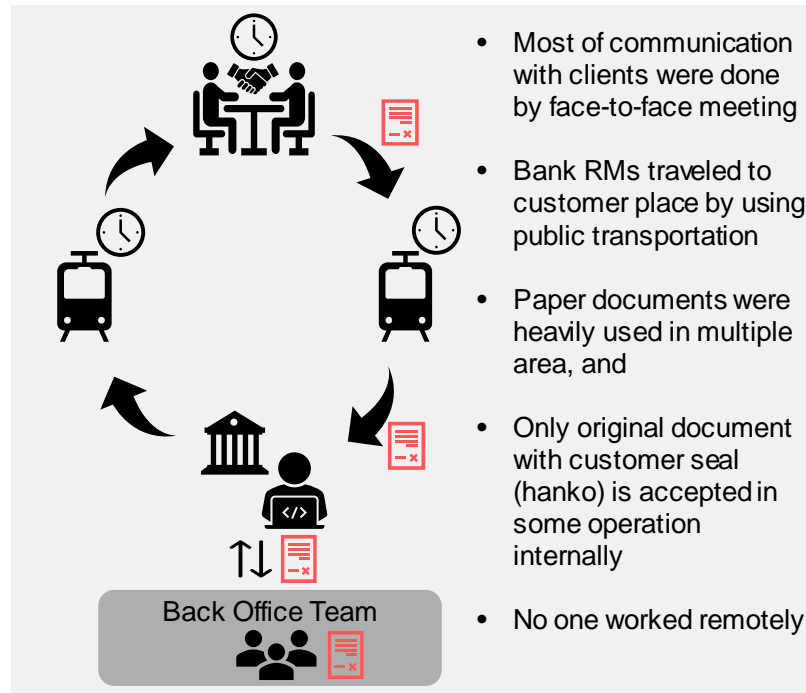

1team (30ppl) **5yrs**

3-2. Acceleration of the online channel shift

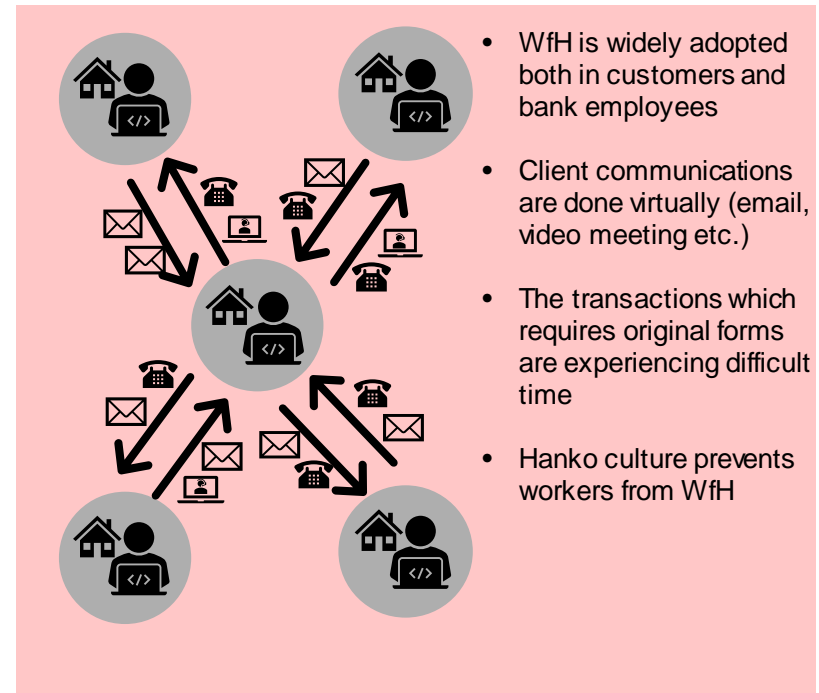
3-2. Acceleration of the online channel shift

Background: The way of business communication

Before Covid-19



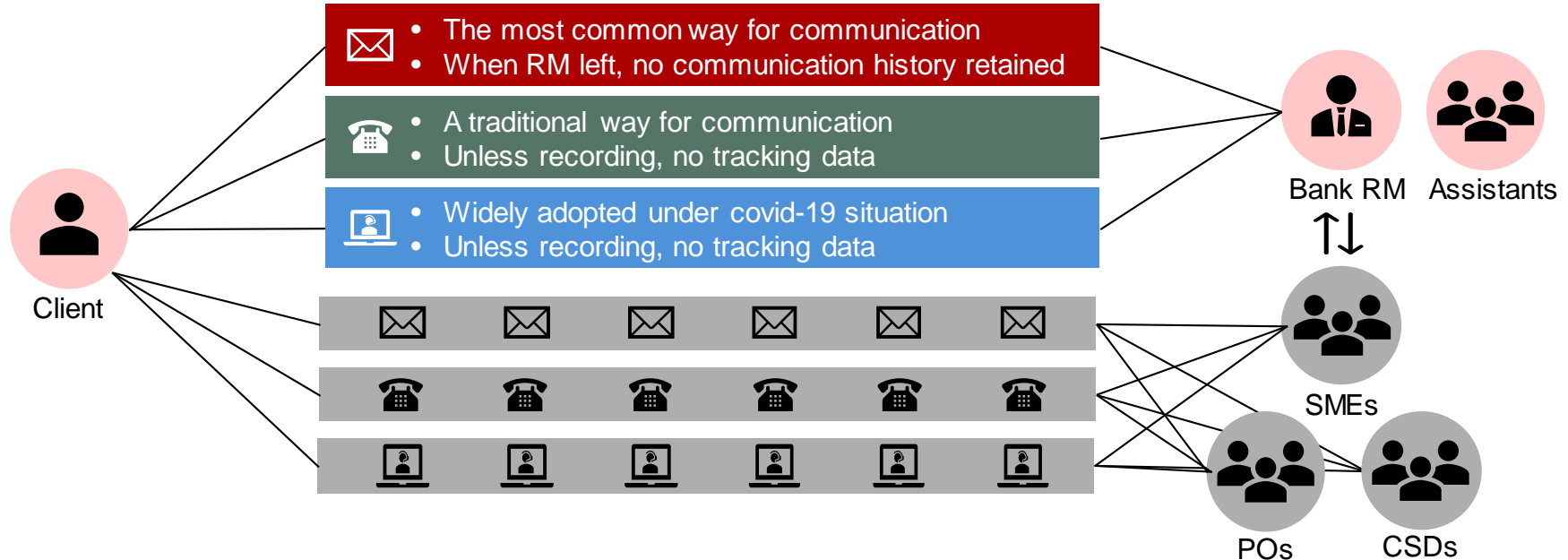
After Covid-19



3-2. Acceleration of the online channel shift

Background: Siloed Communication Channel

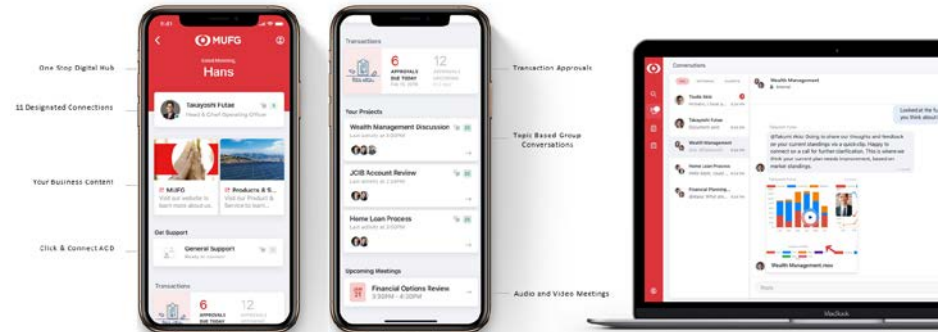
- Email, Call and Web Meeting are the main communication way with clients
- However, in terms of platform, everything is siloed. Limited capability for communication history retention
- Maintain consistent communication with clients becomes challenging. Therefore, we looked for the solution.



3-2. Case Example: Moxtra (Pilot)

Moxtra overview

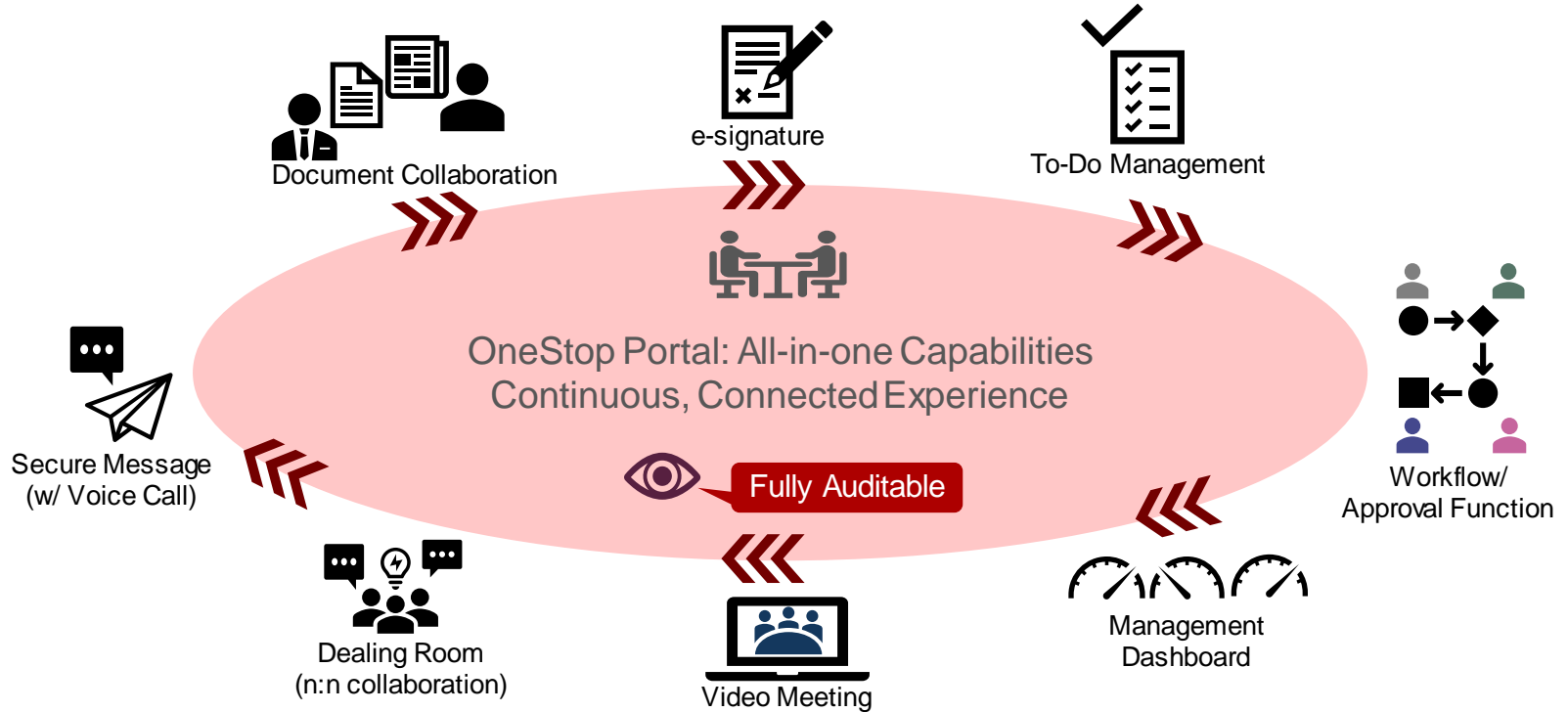
Moxtra powers OneStop client interaction apps where your organization and your clients stay in continuous connection to complete business. Moxtra has a heritage in collaboration tracing back to WebEx Communications. Moxtra's co-founder and CEO, Subrah Iyar, was the co-founder and CEO of WebEx. CTO, Stanley Huang was a senior director of engineering at both WebEx and Cisco.



Website	https://moxtra.com/
Location	Cupertino, CA (founded 2012)
Area	Communication Software
Funding	Total: \$37.0M
Key Investors	Subrah Iyar (CEO, Co-founder)
Customers/Partners	Citibank, Standard Chartered Bank, OCBC, Verizon, Raiffeisen Bank etc.

3-2. Case Example: Moxtra (Pilot)

Moxtra OneStop Portal Overview



3-2. Case Example: Moxtra (Pilot)

The OneStop MUFG Client Portal

- Moxtra got second prize at MUFG Digital Accelerator in 2019
- Currently, a pilot project is being conducted in Japan



Client Communication

Video/Voice Meeting

Messaging

Document Collaboration

- Retains entire communication history
- Consistent communication with customers

Transaction/Operation

e-Signature

Transaction Approvals

Task Management

- Operational improvement by reducing physical documents
- Streamlines transaction workflow



Connect with banking system for STP purpose



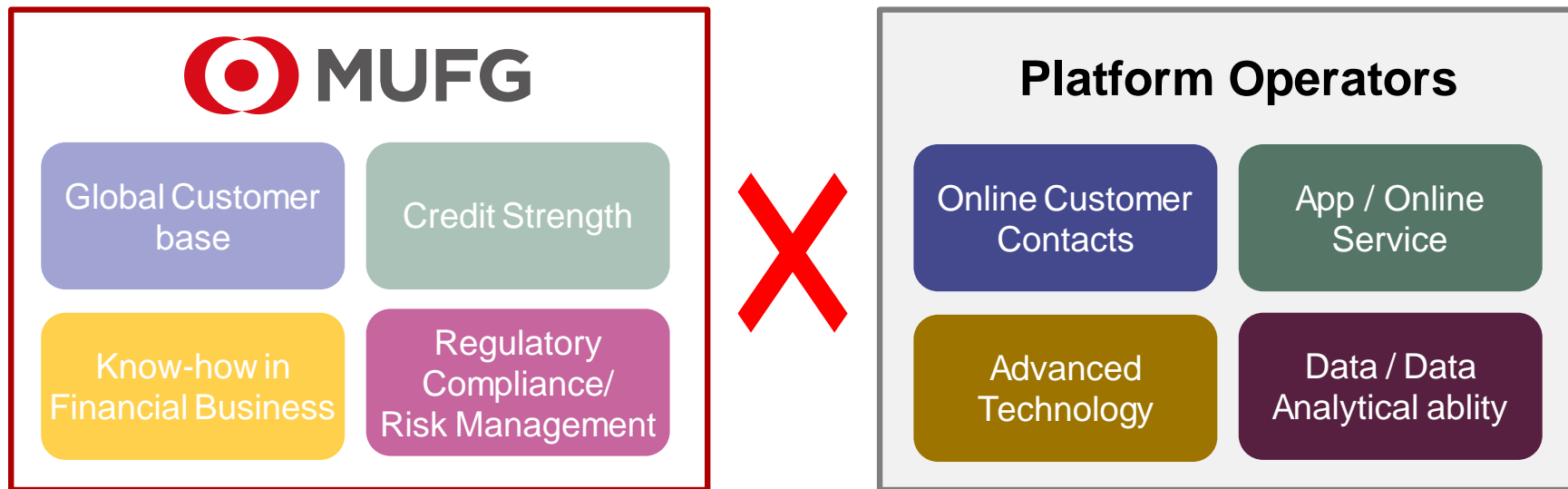
Connect with RPA system to streamline back office process

3-3. Collaboration with Digital Platformers

3-3. Collaboration with Digital Platformers

Aim to develop new services by taking advantage of each other's strength

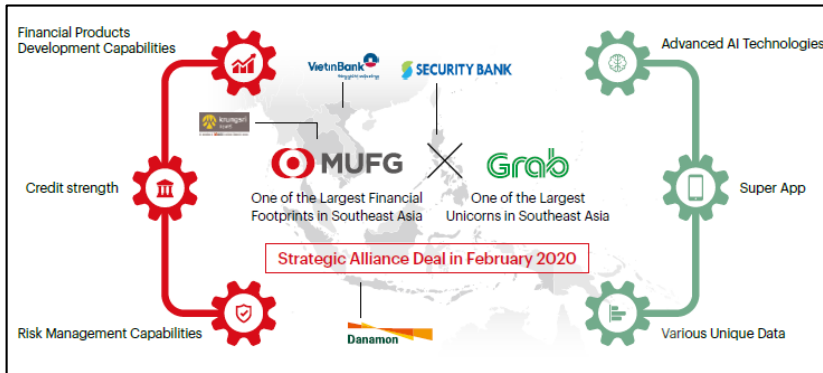
- Develop new services by combining platformers' advanced technologies with MUFG's financial know-how
- Deliver new value and services to the markets by accessing customer's digital daily activities



3-3. Collaboration with Digital Platformers

Business Alliance with Grab

- In February 2020, MUFG entered into a capital and business alliance with Grab Holdings, the leading super app in South East Asia.
- This alliance is intended to further enhance MUFG's commercial banking platform encompassing the ASEAN region through digitalization.



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Deals

Japan's Largest Bank Invests Over \$700 Million in Grab

By [Taiga Uranaka](#)
February 19, 2020, 1:44 AM PST Updated on February 19, 2020, 2:13 AM PST

- ▶ MUFG gains access to millions of users in Southeast Asia
- ▶ Grab is trying to build a regional super-app like WeChat

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Watch Live TV >
Listen to Live Radio >

LISTEN TO ARTICLE
▶ 2:03

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Japan's Mitsubishi UFJ Financial Group Inc. is investing more than \$700 million in Grab

MUFG Mitsubishi UFJ Financial Group

About MUFG News Investor Relations Sustainability Careers

MUFG Bank Enters into Capital and Business Alliance with Grab

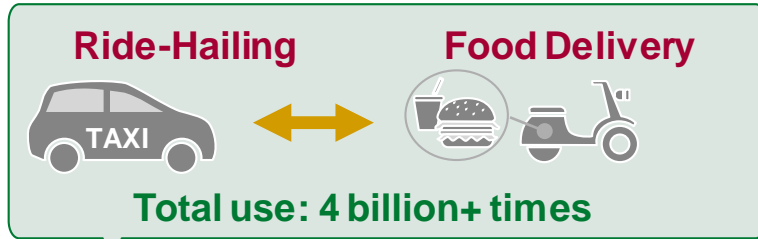
LEARN MORE

MUFG

3-3. Collaboration with Digital Platformers

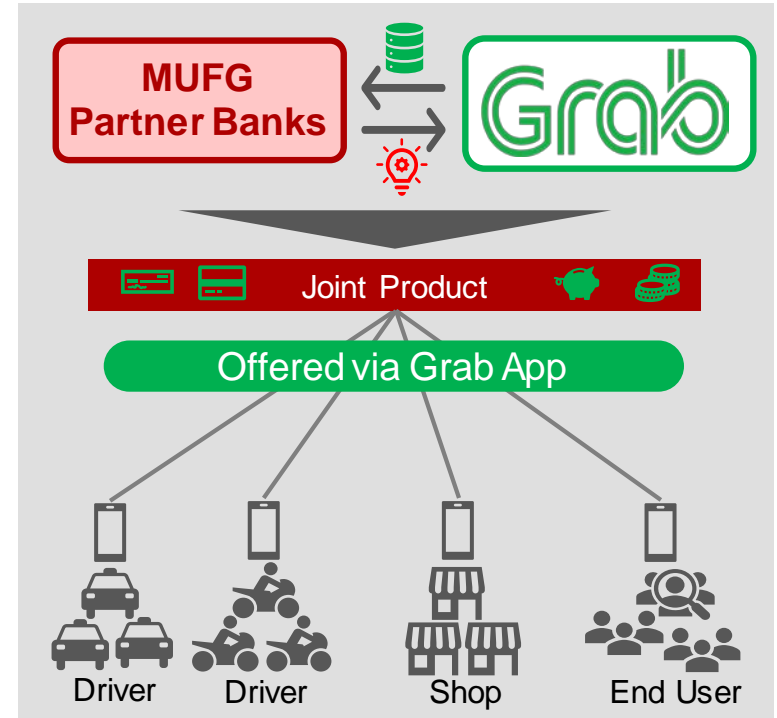
Business Alliance with Grab

Grab is leading super app in Southeast Asia



Enters Financial Services Business
9 million+ drivers and merchants
200 million+ downloads

Services launched to date		
PB	2020	Details
krungsri	May	COVID-19 relief lending for restaurants
	Sep	Data-based Loan to drivers
Danamon	July	Deposit products for app users
	July	Credit cards for app users
VietinBank	March	Account opening for drivers
	June	Micro-loans for drivers

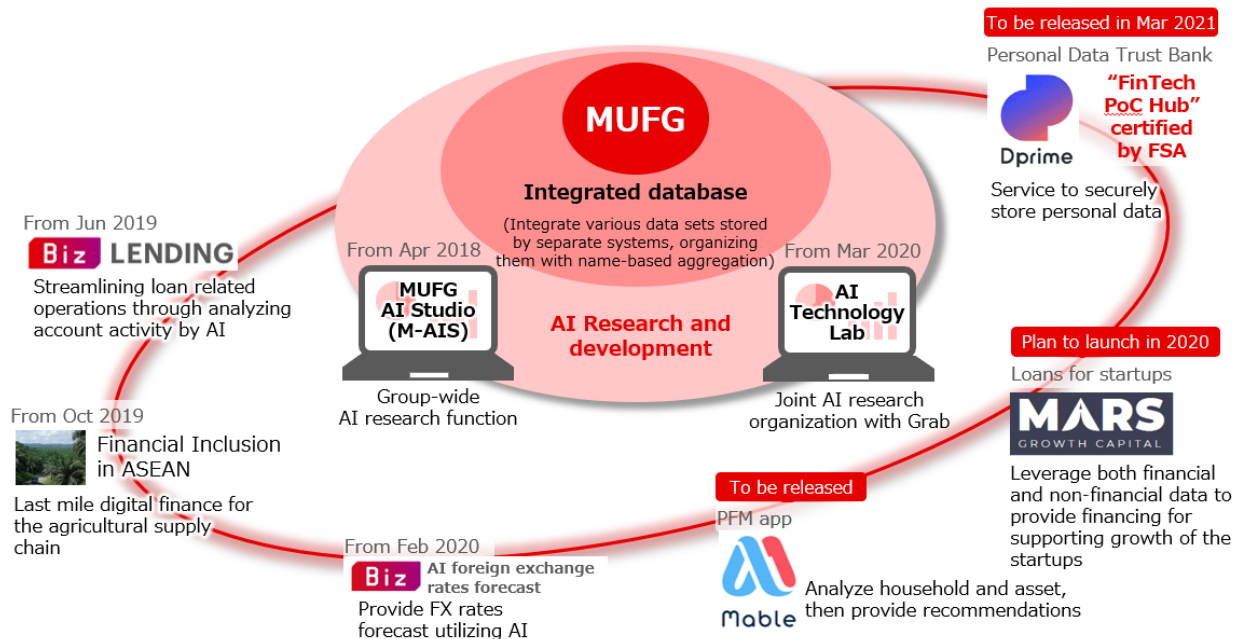


3-4. Data-Driven Financial Services

3-4. Data-Driven Financial Services

Overview of data-driven financial services

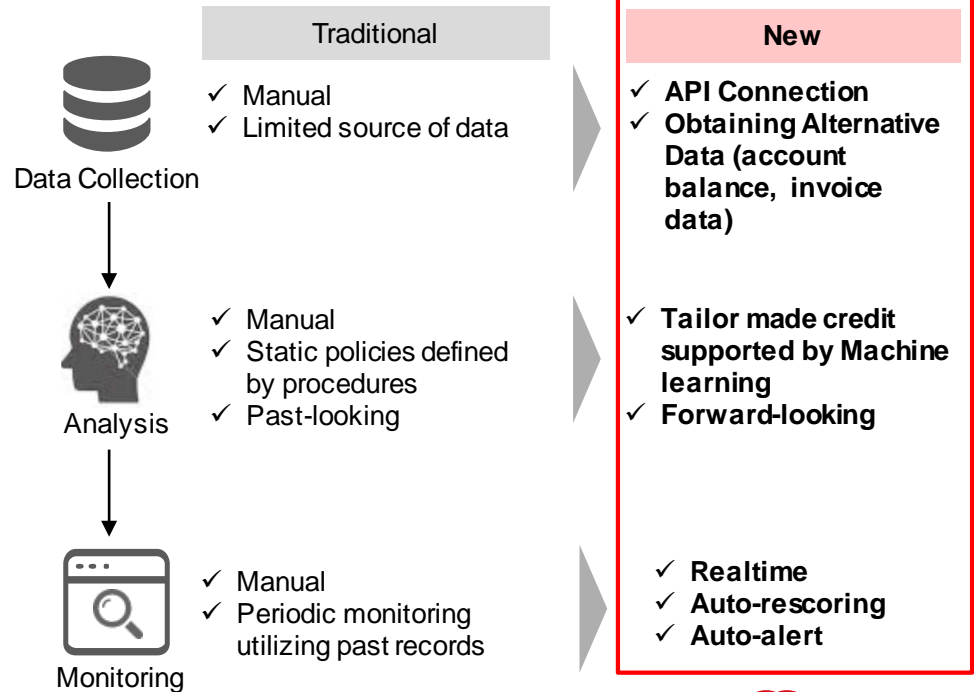
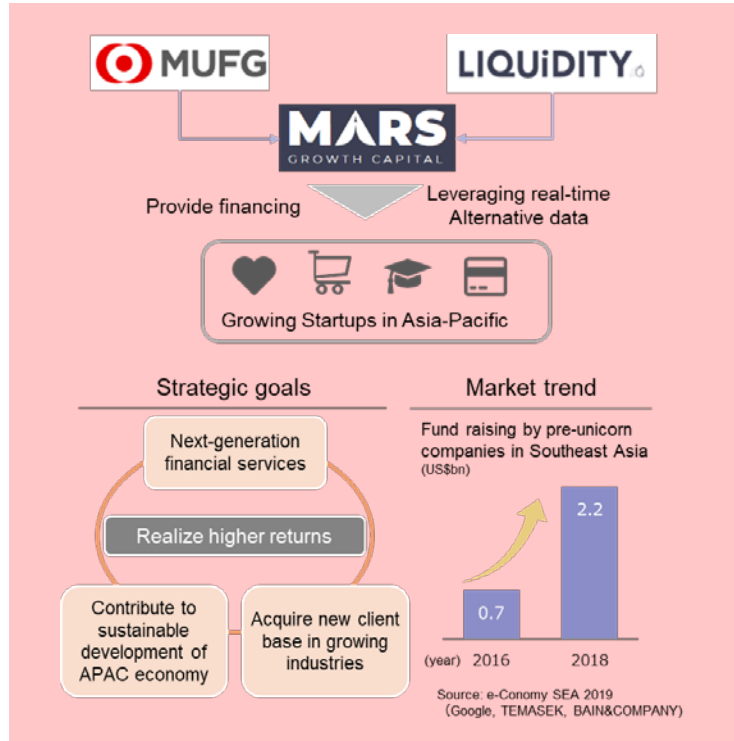
- Enhance operations through dynamic management and forecasting using alternative data and AI.
- Adding more use cases for data utilization by mixing MUFG's data with external information provided by partner companies, and aiming for developing new services



3-4. Data-Driven Financial Services

Building New Credit Model with Tech-startup

- Financing for growing startups by leveraging digital technologies (Machine learning, API)



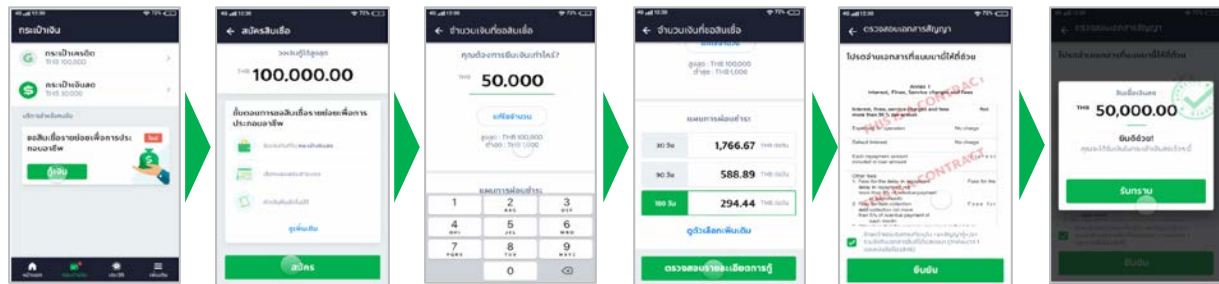
3-4. Data-Driven Financial Services

Collaboration between Krungsri and Grab



Bank of Ayudhya (Krungsri) announced plans to offer loans to Grab drivers and merchants on Grab's platform in Thailand of up to 100,000 baht with a maximum interest rate of 33%, part of a long-term partnership with Grab Thailand.

- Key Features**
- i. Leveraging big data including dynamic data (Driver salary, driving time keeps, Merchant revenue) to structure scoring model
 - ii. Offer loans based on the "white list" created by pre-screening
 - iii. Fully leverage AI to improve scoring model
 - iv. Collection integrated to Grab app that leads to better collection rate



Loan application

Credit limit reference

Loan amount form

Loan conditions form

Contract reference

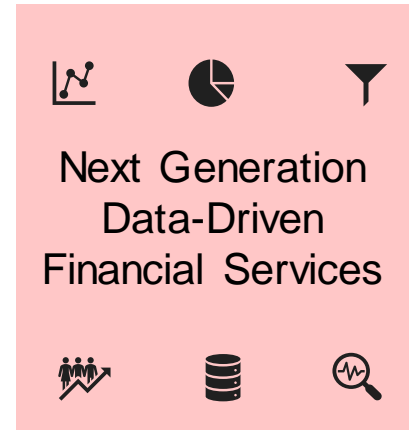
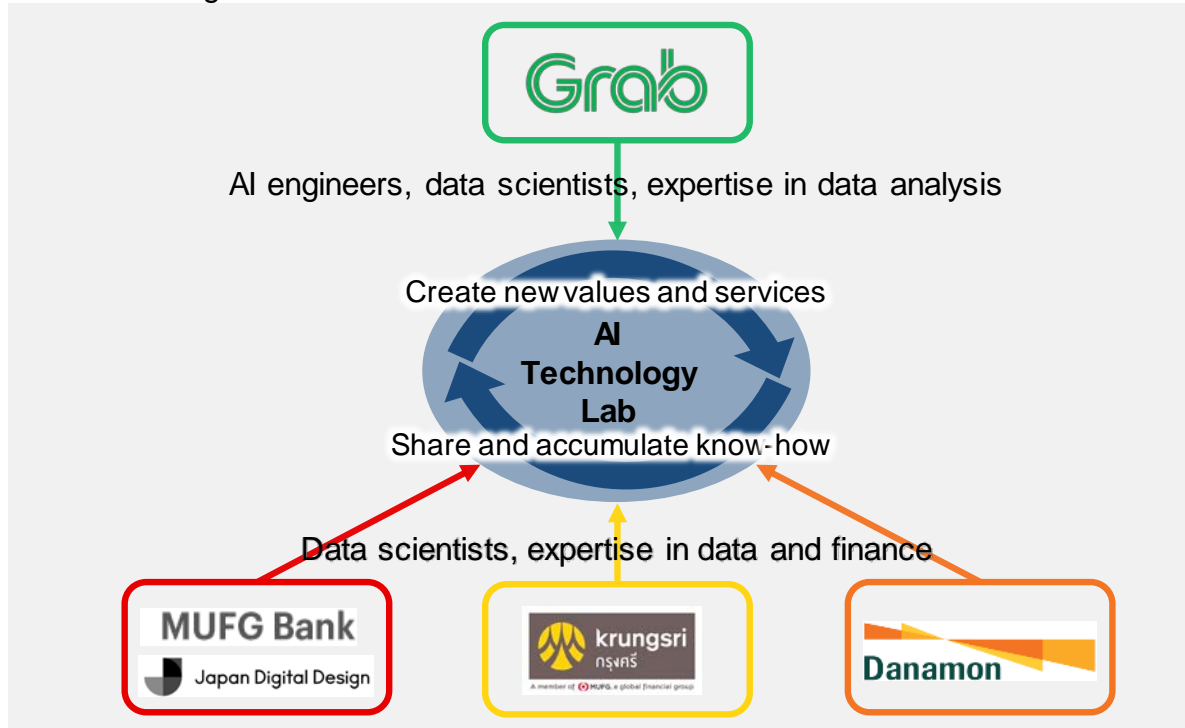
Loan Execution



3-4. Data-Driven Financial Services

AI Technology Lab with Grab

- Promote organic collaboration and create new value and services from the Lab



Appendix

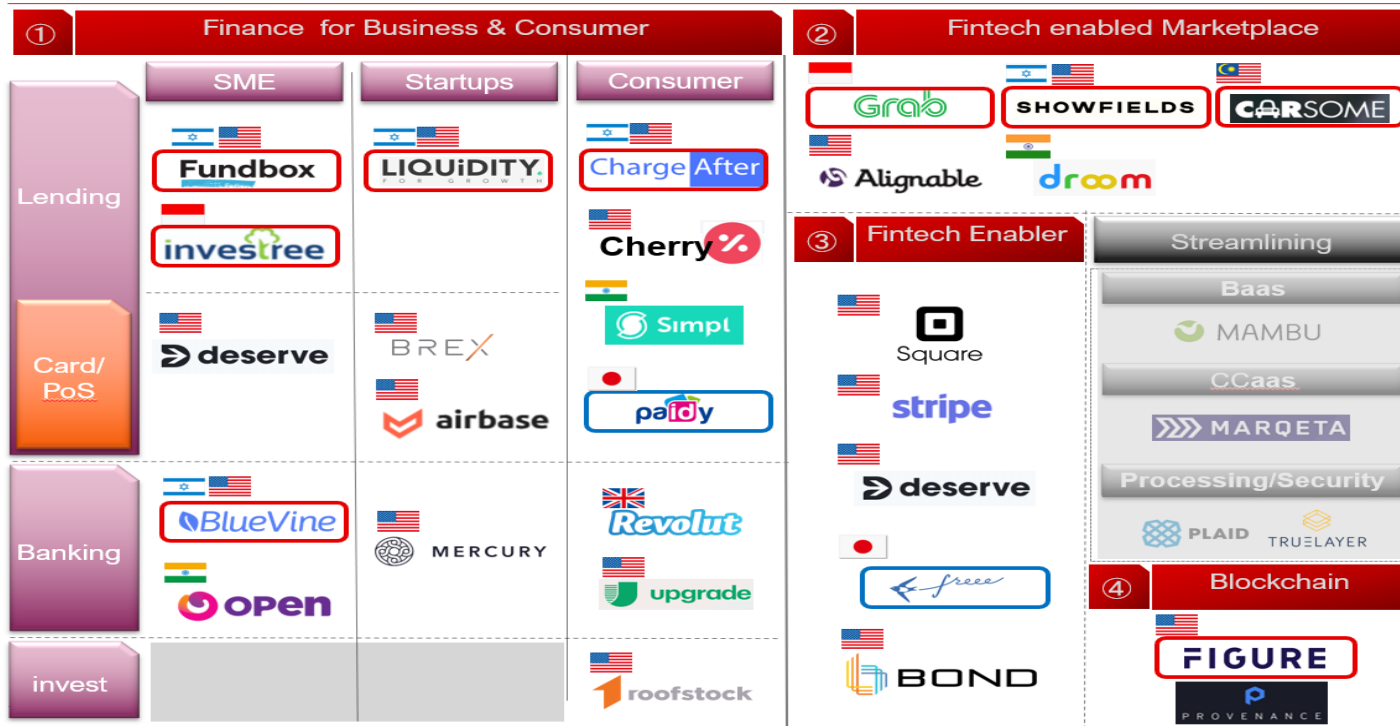
MUIP Investment Thesis

①	Finance for Business & Consumer	Lending, Banking & Investment solutions for SME, Startups & Consumer.
②	Fintech Enabled Marketplace	Marketplace that already provide or has a potential to provide Finance to business & consumers
③	Fintech Enabler	Technology / API companies that enables banks and companies to provide finance to businesses / consumers
④	Blockchain	Blockchain that can have real financial services applications

MUIP Investment Thesis

Investment Thesis

 MUIP
 MUFG



MUIP Portfolio



FIGURE



SHOWFIELDS

CARSOME



ABCash
Technologies



iAPPS
APPolutely yours

Charge After



LIQUIDITY

Fundbox



Q&A