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# ADB'S DIGITAL TRANSFORMATION ACTION PLAN (DTAP)

Digital x ADB Week 19 September 2023 11:15 am to 12:00 p.m.

## AGENDA

- I. The Future of Work Our Digital Transformation Journey
  - Stephanie Hung, CIO and DG, ITD
- II. Digital Transformation in the Age of AI: Insights for ADB
  - Mr. Mike Yeh, Regional Vice President, Corporate External and Legal Affairs, Asia
- III. Panel Discussion on Digital Transformation with AI and Big Data
  - Dr. David Hardoon, CEO, ADI and Chief Data & Al Officer, Union Bank Philippines
  - Mr. Nicolas Miravalls, Co-Founder and CEO, ORIS
  - Moderated by Stephanie

# THE FUTURE OF WORK

Our Digital Transformation Journey

Stephanie KC Hung CIO and Director General, ITD Digital x ADB Week 19 September 2023

# **Insight Driven World**

Personal Data & Aggregate Data

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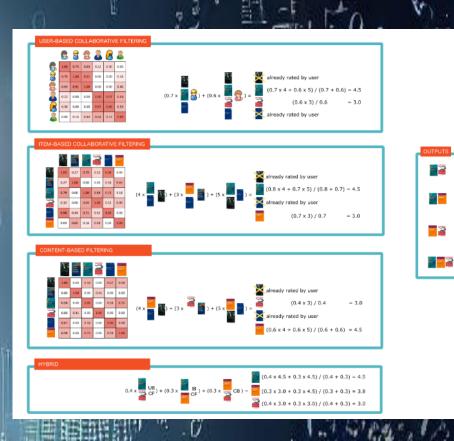
110

Algorithm Leading Companies

0

NETFLIX

amazon



Machine Learning

Our ADB's Digital Transformation Journey



In progress ..... (Special Capex)

WAVE 2: DIGITAL AGENDA STAGE 1 (DAS1) Mid-Term Review (Transition to 3YRC)

Digital capabilities uplifting & technological debt bridging \*\*\*\*

What's Next (3 YRC)

WAVE 3: DIGITAL TRANSFORMATION ACTION PLAN

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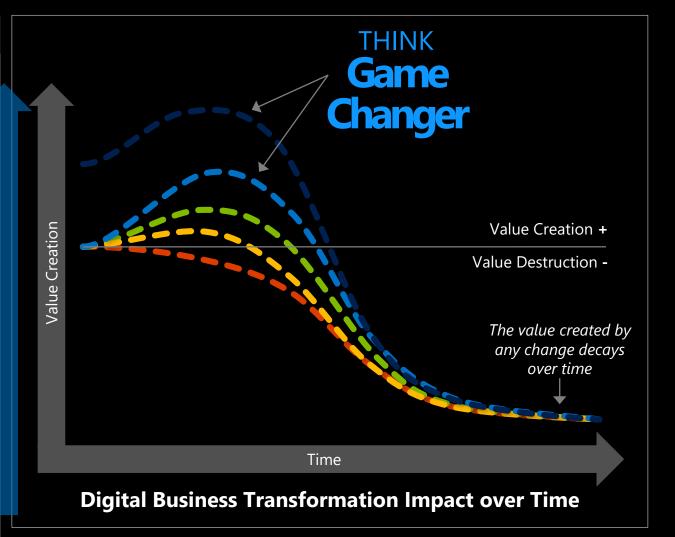
COMPLETED! (Special Capex)

WAVE 1: REAL-TIME ADB IT REFORMS Our ADB's Digital Transformation Journey

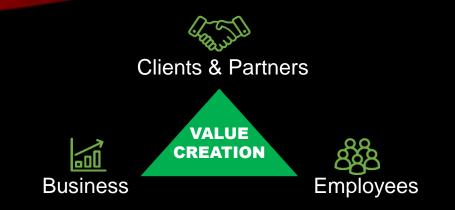
## Value Creation through continuous digital transformation

#### Value Creation through

Digital Transformation	New ways to create value with a digital business offering <b>new business model</b> and new revenue streams.				
Digitalization Effectiveness	<b>Redesign</b> and digitalize business processes to achieved more desired outcomes such as <b>optimizing process flows and</b> <b>removing frictions</b> .				
Digitalization Efficiencies	Digitize and automate existing processes to <b>reduce waste of time, effort and expense</b> .				
Digitization	Digitize paper workflow and physical office to digital workplace; and mitigate risks of low <b>employer attractiveness and</b> <b>employee engagement</b> .				
Doing the same	Value decreases over time as market forces and clients are changing. Potential risks of market irrelevancy and loss of client stickiness.				



## Value Creation for ADB through continuous Digital Transformation Action Plan



VALUE CREATION FOR CLIENTS AND PARTNERS THROUGH DIGITALLY ENABLED BUSINESS AND EMPOWERED EMPLOYEES

DIFFERENTIATING ADB'S UNIQUE STRENGTH		ENABLING ONE ADB			EMPOWERING NEW WAY OF WORKING			
Outcome: The ADB differentiator			Outcome: Ability to see ADB as a whole		Outcome: Productivity. Process efficiency. Risk and Capital			
Climate + Private Sector Development	Economic Research	Safeguard, Financial Mgt, Procurement	Sector/Themes Knowledge Insight Al	Financial Reform / ESG	Governance ERP/Resource	Operations Automation	Collaboration/ Copilot Platform	HR Reform/ New Culture

Client-centric Digital Solution powered by Data Analytics and AI Augmentation

Extended Partnership Ecosystem

Technology Operations Excellence

## ADB's game changers and areas of collaboration

### **Insight-Driven**

Dashboards for Performance Monitoring and Realtime Corrections



#### **Digital Twins**

Building Information Modeling (BIM) with AI for infrastructure comparative analysis for costs, carbon footprint, circularity, resilience and duality, and safety





One ADB – Enable digital shift of ADB's NOM shifts, and empower new ways of working and equip the digital capabilities.



Cybersecurity against digital disruptions – Strengthening cyber security and information protection against cyber threats

#### Knowledge Insights – Al:ly

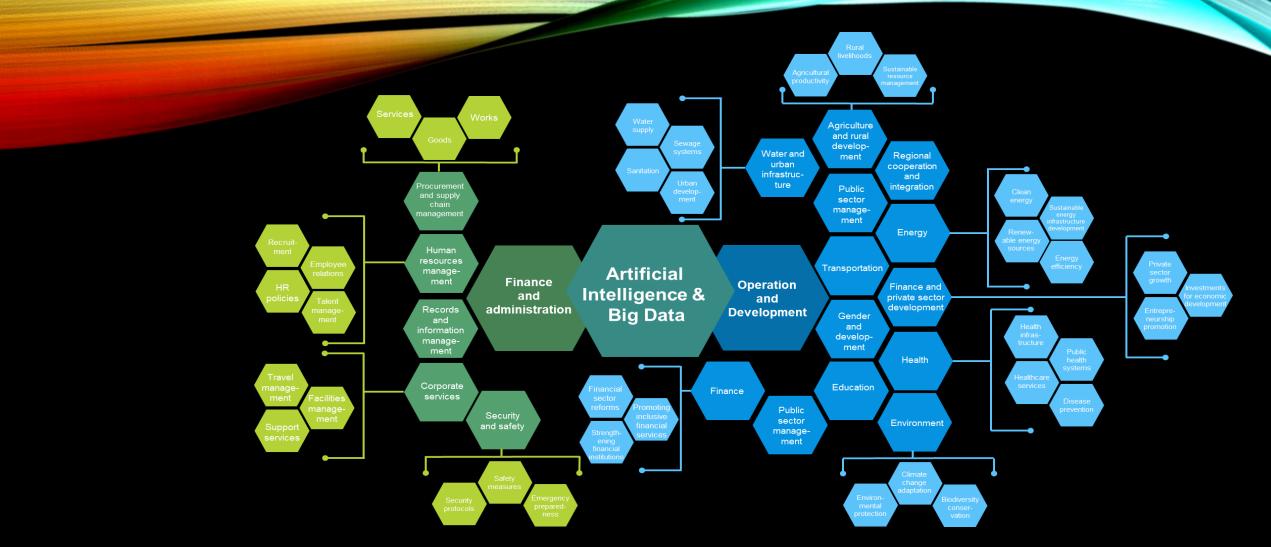
Augment advisors with Generative AI knowledge insights on projects evaluation and recommendations in different thematic groups and sectors



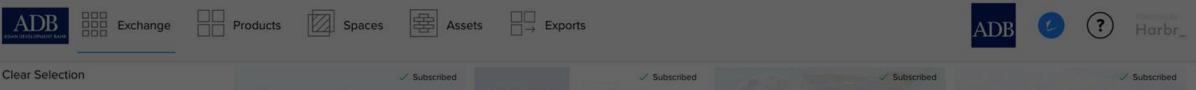


#### **Predictive Analytics**

Building AI models with data collected, alternative and synthetic data to predict impact scenarios.



Al and big data has the potential to bring about transformative changes and opportunities in ADB's development operations, sectors and thematic groups, and insight driven institution.





## Beware Al could be biased; Don't automate biases.



Figure 1: A sample of the first four images generated for the occupations of "computer programmer" and "housekeeper" using the DALL-E v2 and Stable Diffusion models. Notably, one gender (as perceived by human annotators) is conspicuously absent across a distribution of 500 generated images.

Source: Microsoft Frontiers of multimodal learning: A responsible AI approach, Sept 2023 https://www.microsoft.com/en-us/research/blog/frontiers-of-multimodal-learning-a-responsible-ai-approach/

## Discern what you read and hear; **Alternative Fact-check is required**

#### Bloomberg

Green Economics Industries Tech Politics Equality

Markets The Big Take

#### **Deepfake Imposter Scams Are Driving** a New Wave of Fraud

Al could turbocharge the cybertheft economy. The world's banking industry is scrambling to contain the risk.





US Edition

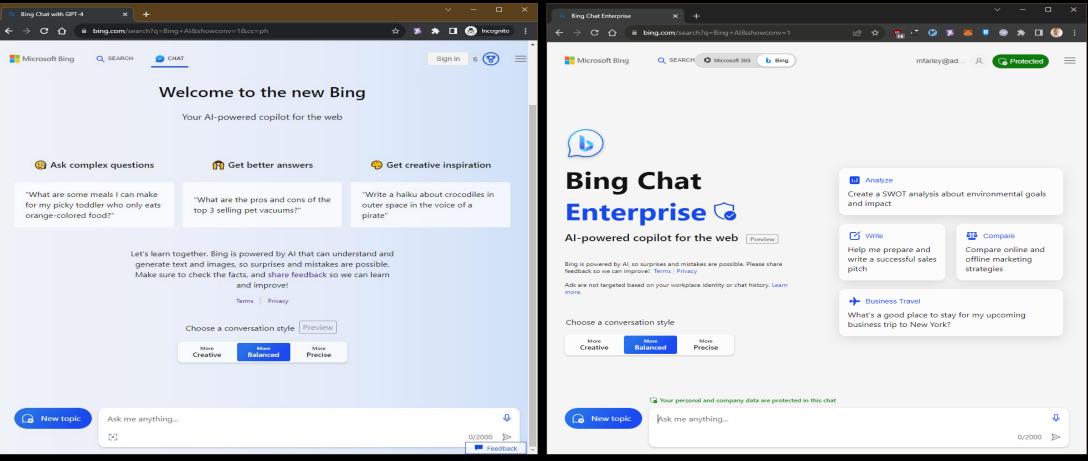
@BloombergFeed

Large Explosion near The Pentagon Complex in Washington D.C. /Initial Report



Source: Deepfake Obama Video

## **Bing Chat and Bing Chat Enterprise**



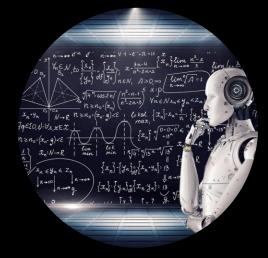
#### Non-ADB Account

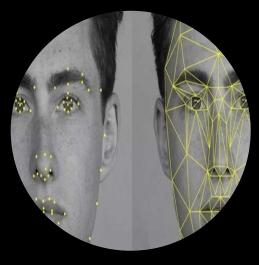
No guarantee of data privacy

#### "Your personal and company data are protected in this chat"

**ADB** Account

## **Challenges and considerations**









- Ethical Implications and Responsible AI Use
- IP, Copyrights, and Misuse (Misinformation)
- Deepfake (Disinformation)
- Data Protection and Security
- Skill Gap and Jobs Displacement; New Jobs Creation

# Automate and Elevate, some jobs displaced and more jobs created in the history of automobile





↓ Coachmen

- $\downarrow$  Stable hands and farriers
- ↓ Horse breeders and trainers

Car engineers ↑ Sales managers Car mechanics ↑ Rental agents Car electricians ↑ Auto instructors Tire technicians ↑ Vehicle inspectors

- Robot programing and maintenance engineers
- Automation engineers
- ↑ Auto designers and QA
- Data Scientists



## Digital Skills



Digital is not just a capability but a mindset shift;

## **ARE YOU READY ?**



### Open Mindset

# DIGITAL TRANSFORMATION IN THE AGE OF AI: INSIGHTS FOR ADB

Our Digital Transformation Journey

Mike Yeh Regional Vice President Corporate External and Legal Affairs, Asia Microsoft

## PANEL SPEAKERS



Dr. David Hardoon CEO, ADI and Chief Data & Al Officer, Union Bank Philippines Mr. Nicolas Miravalls, Co-Founder and CEO, ORIS

## PANEL DISCUSSION: DIGITAL TRANSFORMATION WITH AI AND BIG DATA