

# 10th BUSINESS OPPORTUNITIES FAIR 2019

ADB

## Digital Agenda 2030

*“Underline the critical role of the Digital Agenda to ADB’s digital transformation and implementation of Strategy 2030”*

Joint Statement by the Board (31 October 2018)

**Pierre Passin**

Director, Infrastructure and Technology Operations Division ([OIID](#))

OIST, ADB

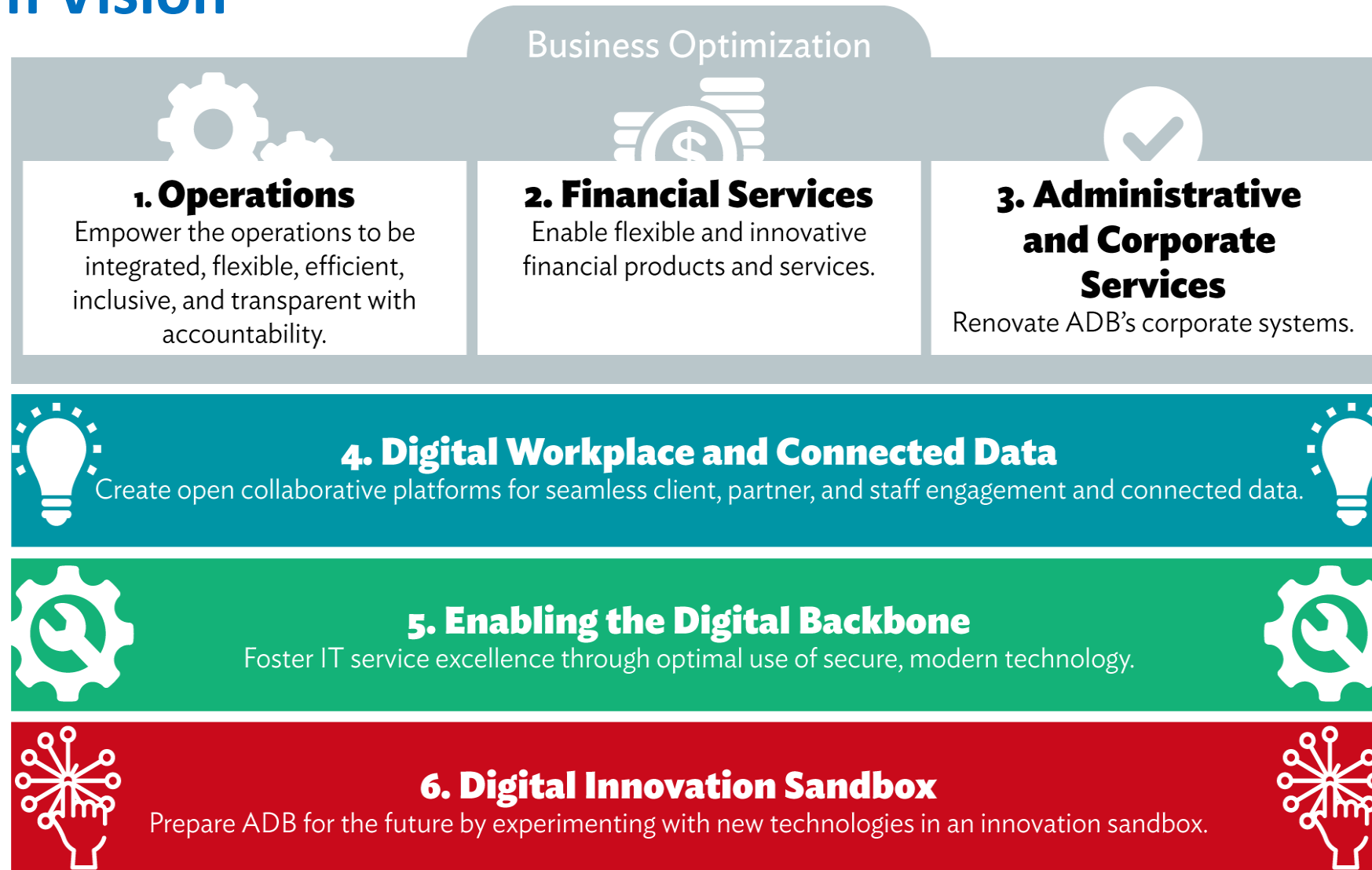
28 March 2019



# Digital Agenda 2030

## Long Term Vision

**DIGITAL  
AGENDA 2030**

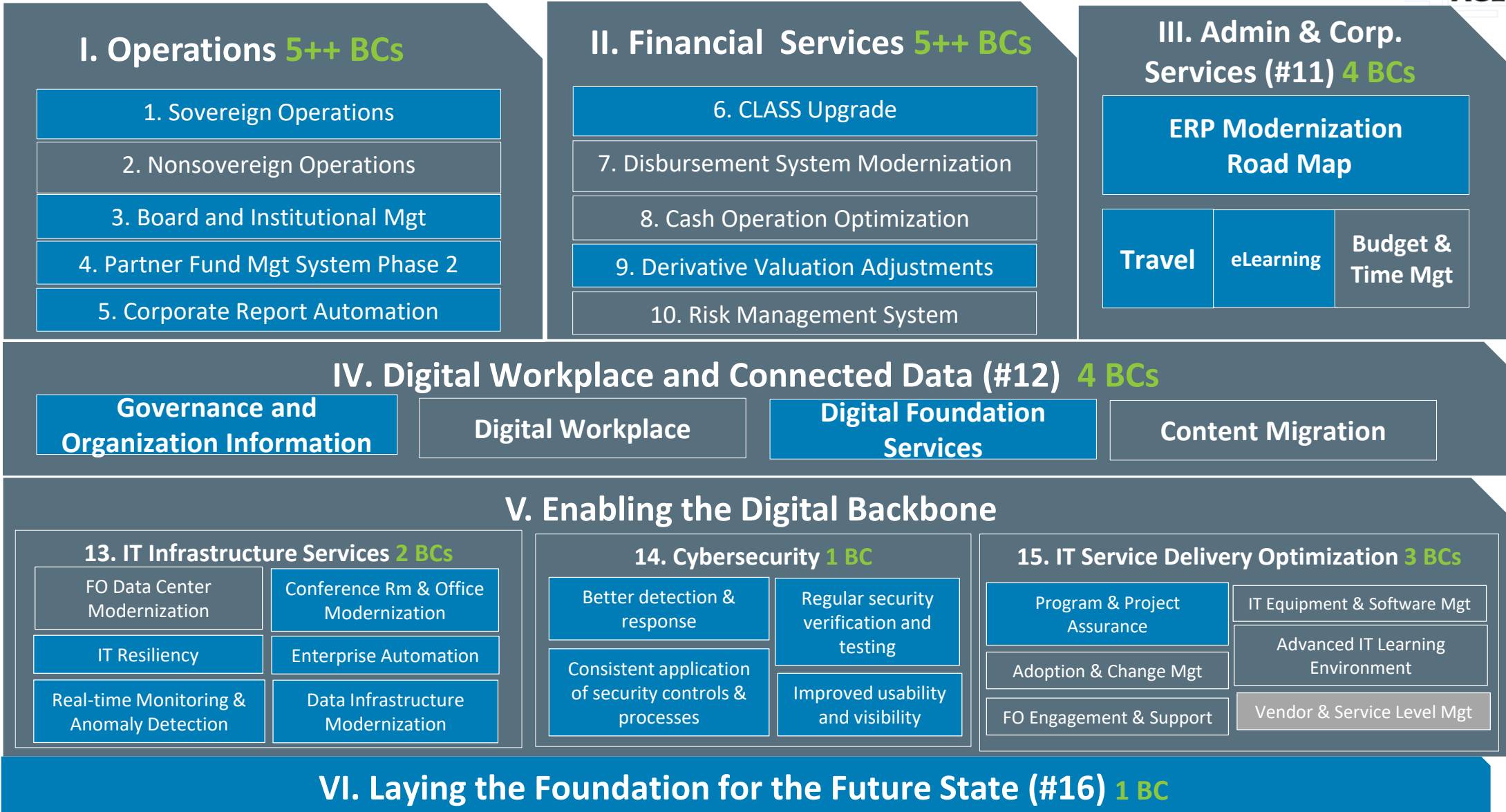


**EXTREME TEAM**

Office of Information Systems and Technology (OIST)

# Digital Agenda: 6 Programs, 16 Projects = 25++ Business Cases

DIGITAL  
AGENDA 2030



Legend: 2019 2020 2021

# 2019 Indicative Business Cases

## Q1

1. Digital Innovation Sandbox
2. Class Upgrade
3. Cybersecurity
4. IT Infrastructure Services Phase 1
5. Digital Workplace - Governance and Organization Information

## Q2

6. Travel
7. eLearning
8. Partner Fund Management System Phase 2
9. Digital Workplace –Digital Foundation Services
10. Board Management System

## Q3

11. ERP Modernization Review
12. Sovereign Operations
13. Corporate Report Automation
14. Derivative Valuation Adjustments
15. IT Services: Program and Project Assurance

# 10th BUSINESS OPPORTUNITIES FAIR 2019

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## Digital Agenda 2030: Infrastructure and Security





# Overview

- IT Infrastructure Projects
  - Procurement Needs
  - Timeline
- Cybersecurity Projects
  - Procurement Needs
  - Timeline



# IT Infrastructure Projects

## Sub-Projects

## Procurements

### Conference Room Modernization

- Board Room Modernization
- Meeting Rooms Modernization

- Physical Room Construction
- Furniture
- Adoption & Change Management

### Business and IT Resiliency

- Creation of IT offshore Hub
- Migration of Critical IT workloads to Cloud

- ICT Equipment & Furniture
- MPLS & Internet
- Study on move to Cloud & Subscriptions

### Enterprise Automation

- DevOps
- Robotics and Process Automation
- Infrastructure and Security Automation

- DevOps pipeline SW
- RPA software and implementation
- Ansible-like SW



# IT Infrastructure Projects



## Sub-Projects

## Procurements

### Real-Time Monitoring & Anomaly Detection

- AI for IT Ops
- Infrastructure Monitoring
- Application Performance Monitoring

- Datadog + Prometheus, AppDynamics, Moogsoft
- Professional/Implementation Services

### Data Infrastructure

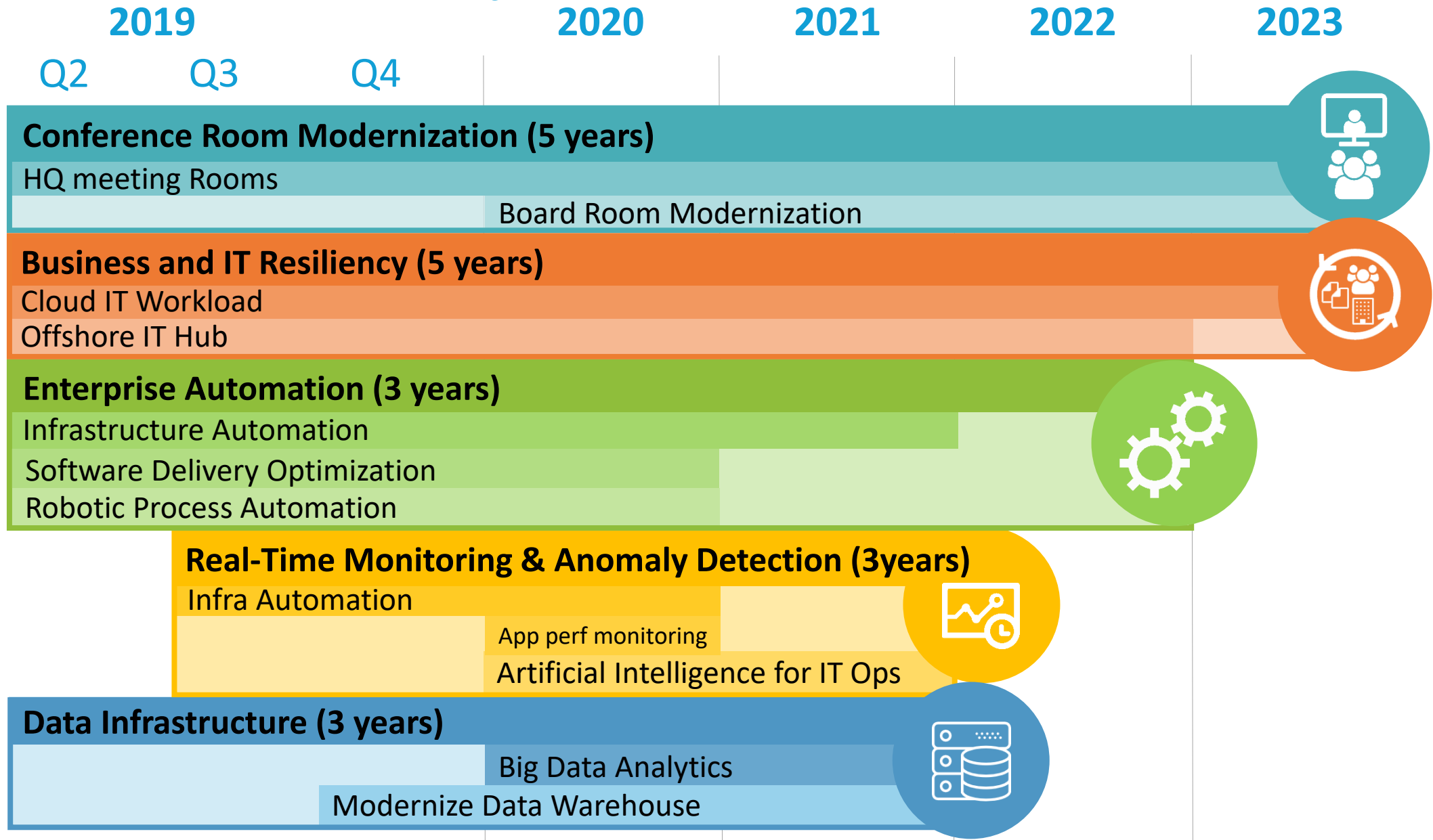
- Master Data Management
- Data Warehouse Modernization
- Big Data

- MDM, Data Quality
- Cloud Services/Subscriptions
- Professional/Implementation Services





# IT Infrastructure Projects





# Cybersecurity Projects



## Sub-Projects

## Procurements

### Better Detection & Response

- Advance Threat Detection
- SIEM Extension and Refresh
- Data Leakage Protection
- Process Automation & Machine Learning

- Equipment
- Software
- Subscriptions
- Professional Services

### Consistent Application of Controls

- RTA extension
- Cybersecurity exercise
- ISO 27001 and process uplift
- Key Controls Across Critical Systems

- GRC Software
- Consulting Services



# Cybersecurity Projects



## Sub-Projects

## Procurements

### Regular Testing

- Establish a program for regular cybersecurity testing of critical applications

- Consulting Services

### Improved Usability & Visibility

- Simplified security controls and interaction

- Licenses
- Professional Services



# Cybersecurity Projects

2019

2020

2021

## Better Detection and Response (3 years)

Advance Threat Detection

SIEM Extension

DLP and Discovery

Automation and Machine Learning



## Consistent Application of Controls (3 years)

RTA Extension

ISO and process uplift

Cybersecurity exercise

Key Controls



## Regular Testing (1 year)

Regular Security Testing



## Improved Usability & Visibility (1 year)

Simplified Security Controls



# 10th BUSINESS OPPORTUNITIES FAIR 2019

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## Digital Agenda 2030: Business Optimization and Digital Workplace and Connected Data

**Naoto Yamamoto**

Director, Solution Delivery Division (OISD)

OIST, ADB

28 March 2019



# Business Optimization (Operations)

## Components

## Procurements

### Sovereign Operations

- Digital Projects
- Operation Planning & Monitoring
- Corporate Oversight

- Software License/Subscription
- Design Thinking
- System Integrators
- Business Intelligence

### Non Sovereign Operations

- Client Engagement
- Origination
- Portfolio Management

- Software License/Subscription
- System Integrators (IDD, CRM)
- Business Intelligence

### Board and Institutional Management

- Modern Board Management System
- Mobile Dashboard for Approval and Documents

- Software License/Subscription
  - Board Management
- Design Thinking
- System Integrators



# Business Optimization (Operations)



## Components

## Procurements

### Partner Fund Management

- Agreement Management
- Partner Portal
- Partner Matching
- Partner Fund Lifecycle

- Software License/Subscription
  - Contract Management
- System Integrators
- Business Intelligence

### Corporate Report Automation

- Data Warehouse
- Reporting Interface Modernization

- Data Architecture
- Business Intelligence



# Business Optimization (Finance + Corporate Services)



## Projects

## Procurements

### Finance

- Disbursement System
- Derivative Valuation Adjustments
- Cash Operations Optimization
- Risk Management System

- Software License/Subscription
- System Integrators
- Business Intelligence

### Administration and Corporate Services

- Modernized Corporate Platform
- Travel System Modernization
- Learning System Modernization
- Budget System Modernization

- BPR Consulting
- Design thinking
- Software License/Subscription
- System Integrator





# Business Optimization (Digital Work Place )



## Components

## Procurements

### Connected Data

- Data Governance
- Modern Data Platform
- Insights and Analytics

- Data Governance Consultant
- Data Architecture Consultant
- Information Security Consultant
- Business Intelligence

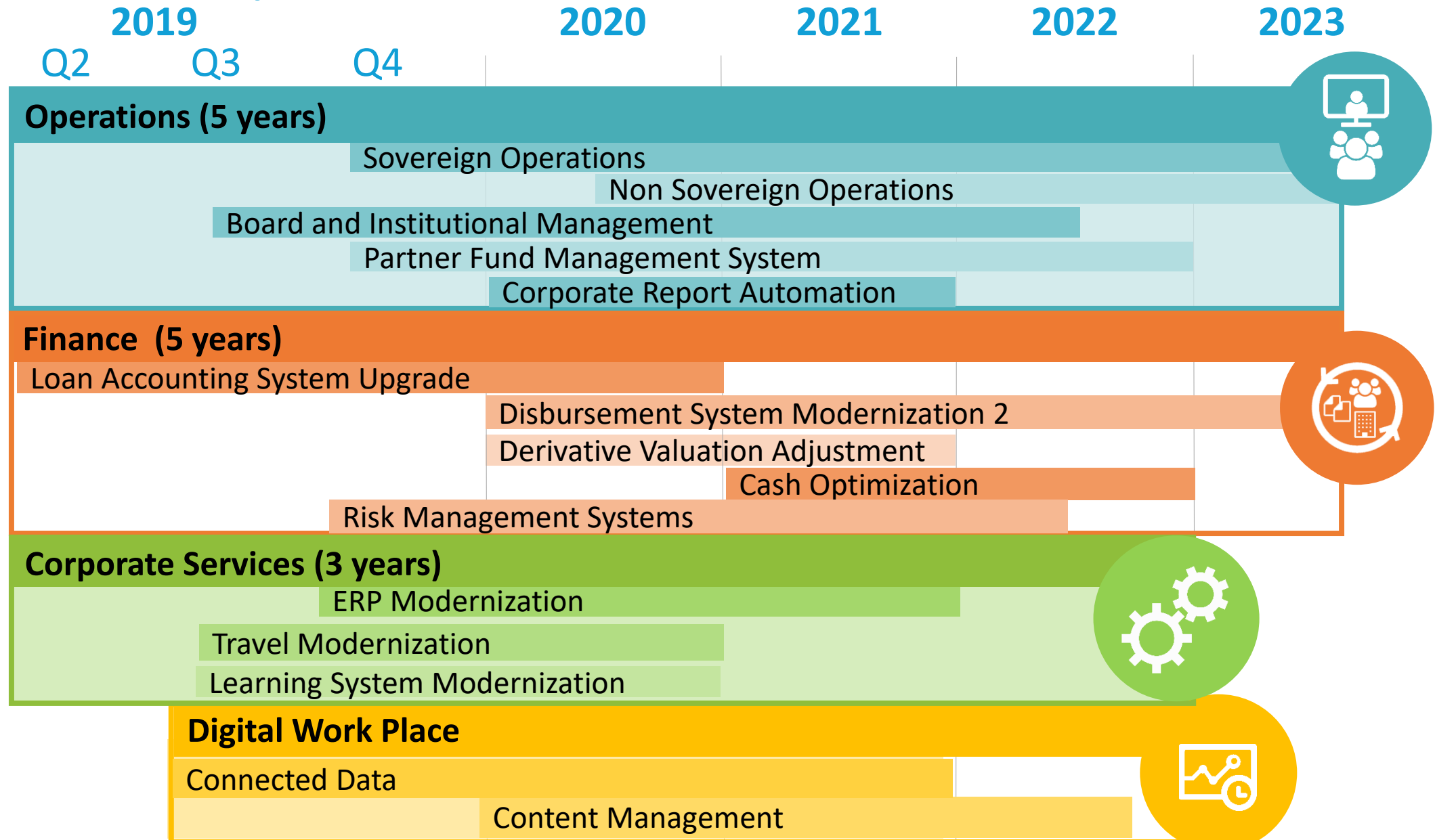
### Search & Content Management

- Digital Workplace & App Store
- Search Enhancement
- Historical Content Migration

- Record Management Consultant
- Search Engineer
- Application Development
- Data Migration Service



# Business Optimization and Connected data Timeline



# 10th BUSINESS OPPORTUNITIES FAIR 2019

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## Digital Agenda 2030:

# Digital Innovation Sandbox – Future Proofing ADB

Adopting Emerging Technologies to Support Strategy 2030 Implementation in Asia and the Pacific

**Ozzeir Khan**

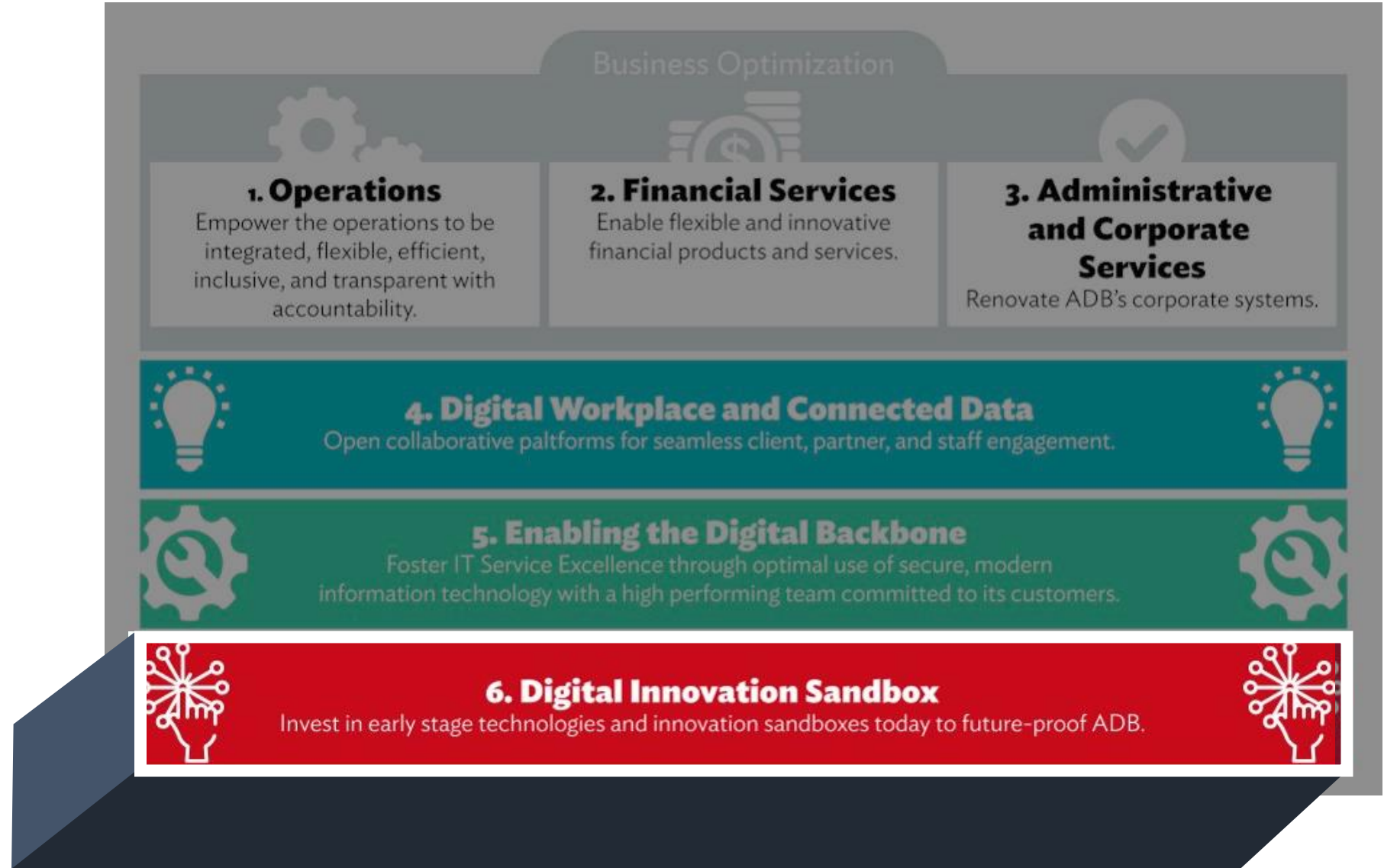
Director, Business Relationships and IT Strategy Division (OIRS)

OIST, ADB

28 March 2019



# Digital Agenda Program 6



# Digital Innovation Sandbox Program Components

## 01 | Digital Platforms

- A. Sandbox Infrastructure
- B. Sandbox Projects
- C. Experiments, Proofs of Concept, and Pilots

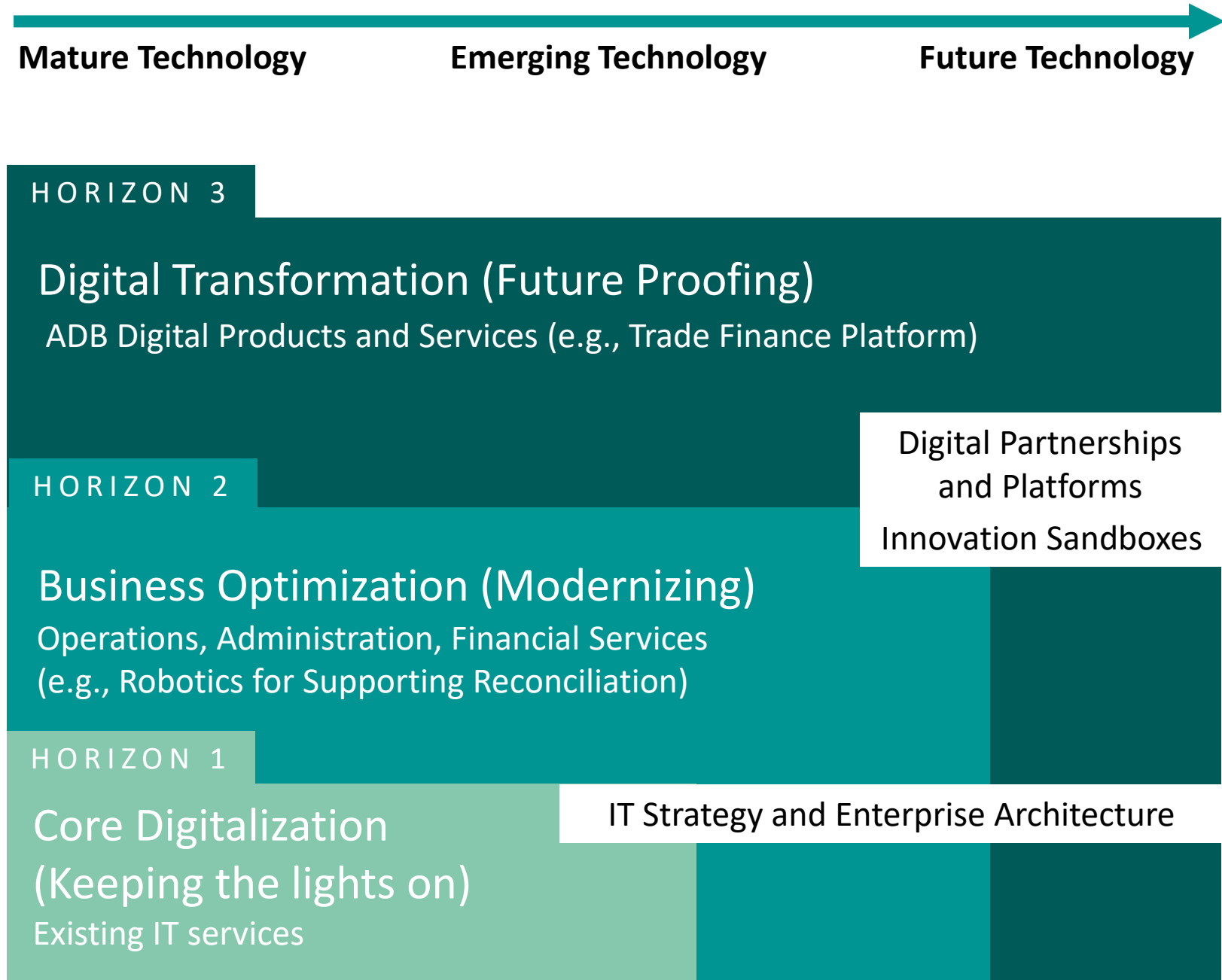
## 02 | Digital Readiness

- A. Outreach
- B. Inreach

# Digital Platforms



# Digital Innovation Sandbox Program Positioning



# Sandbox Innovation Process



**Digital Sandbox Program**

Partners (Internal Depts/External Partners/OIST Divisions)



# Key Demand and Business Owner Snapshot

	Artificial Intelligence	Robotics	Big data	Fintech	Others
<b>Administration</b>	Comprehensive audit (OAG)	Recruitment bot (BPMSD)		ADB pay digital wallet (OAS)	
<b>Financial</b>	Cash management predictive analytics (TD)	Automatic bank reconciliation (CTL) Treasury chatbot (TD)	Predictive analysis of errors and fraud (CTL)	Financial payment engine (TD)	
<b>Knowledge Management</b>	Cognitive search (IED)	Automatic capturing of tacit knowledge (SERD)	Predictive analysis (ERCD)	Digital ID (SDCC) eKYC (PSOD) API** platform for clients (OIST/SDCC)	Predictive future platform (ERCD)
<b>Operations</b>	Digital twins* for projects (all regional departments) Auto generation of parts of project concept paper (EARD)	Robo advisor for information discovery and communication (all regional departments)	Enhancing impact assessments for projects (all regional departments)	Market place for trade finance (PSOD) Real time tracking and monitoring of loan project implementation (EARD)	Miniature models/ recreating development impact of proposed loan using virtual reality solutions (EARD)
HORIZON 2   Modernizing			HORIZON 3   Future proofing		

\* A digital replica of an actual infrastructure project before it is built.  
 \*\*APIs are a set of functions and procedures that help build applications to access the features or data of a particular system. An API platform helps expose and manage these APIs.

# Build-Operate-Transfer (BOT) Model for Sandbox

## Build

Experiments and Co-Creation  
with Partners  
Agile Innovation Development

- Work with a specialist team
- Define architecture and policies for compliance and scale
- Build work load for the technology
- Minimum viable product and proof of concept
- Test and go-live

## Operate

Pilot Operations

- Streamline workload, policies, and governance
- Build and monitor metrics
- Create SOPs and dashboards
- Audit, resolve, and mitigate risks
- Automate deployments, backups, disaster resilience and more

## Transfer

Knowledge and Operations  
Handover to OIST Teams or  
Partners

- Create operations manual
- Provide knowledge transfer
- Sign off

The background of the slide is a black and white abstract image featuring a series of overlapping, curved, and layered geometric shapes that create a sense of depth and movement, resembling a modern architectural facade or a digital data visualization. A white rectangular box is positioned in the center-left of the image, containing the text 'Digital Readiness' in a teal-colored sans-serif font.

## Digital Readiness

# Making ADB Digitally Ready

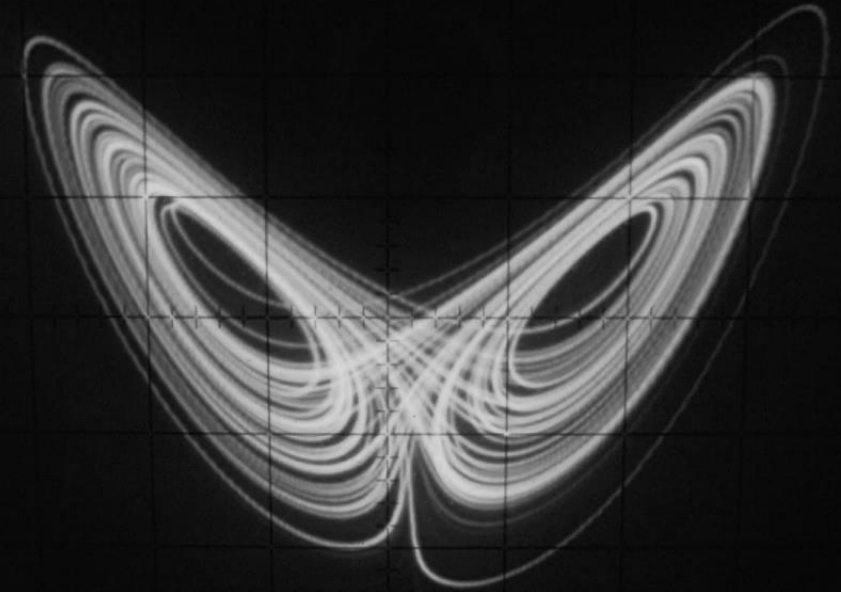
## What is digital readiness?

### Organizational ability to

- Identify digital opportunities
- Create and offer digital products and services for clients, partners, and staff
- Manage innovation risk

### Staff ability to

- Comfortably work in a fully digital environment
- Not simply copy innovation—but instead innovate themselves and navigate the ever emerging digital world



## Butterfly effect theory

small technology experiments can have a transformative impact in our complex digital world.

A black and white photograph of two men sitting at a desk. The man on the left is wearing glasses and looking towards the right. The man on the right is looking upwards and to the left, holding a pen over a piece of paper. There are laptops, a smartphone, and other office supplies on the desk.

## Outreach

Builds innovation partnerships with academia, start-ups, private sector, and influencers

- Innovation platforms (co-creation and start-ups)
- Connect with networks
- Work with influencers to discuss possibilities of where to go
- External hackathons
- Focus on academia, startups, financial and technology partners, MDBs, agencies, nonprofit organizations
- Executive briefings
- Events (online and physical)
- Thought leadership activities

**“To discover, we have to reach outside the walls.”**



## Inreach

Fosters a digital culture shift and promotes innovation as continuous improvement to support the Digital Agenda 2030

- Internal hackathons (ideas for change, solutions)
- Immersive, individual-focused sessions (e.g., experiential workshops for learning)
- Departmental digital future possibilities roadmap
- Events (online and physical)
- Thought leadership activities
- Digital fitness
- Futures gallery



# Digital Fitness: Do it!



Banking is digital so  
let's get digitally fit

“Don't just talk about it!”

- Diagnostic platform uses dynamic content and a fitness algorithm
- Digital personal trainer to coach staff
- Continuous learning approach: X minutes, X times a week
- Mandatory: partner with HR and make part of performance evaluation
- “Deep digital dives” with AIM and others for “pro skills”

# Futures Gallery

- Technology evolution
- Asia: agriculture, environment, energy, water, education (sectors)
- People (aging, work, lifestyle)
- Scenarios (BAU, some actions, ideal)
- Audience: clients, staff, partners
- OIST and SDCC partnership



Gamification

Online and physical spaces

Thought-provoking featured and permanent exhibits

**“To learn from the future.”**



# 2019 Proposed Roadmap

← SOFT LAUNCH

OFFICIAL LAUNCH OF PROGRAM →

Q1 2019	Q2 2019	Q3 2019	Q4 2019
Build the Sandbox Foundation	Develop the Platforms	Launch the Program	Adjust and Stabilize
<div>Sandbox Technology Foundation</div> <div>Sandbox Process Development</div>	<div>AI</div> <div>ROBOTICS</div> <div>BIG DATA</div> <div>FINTECH</div>	<div>Start of 3 Experiments</div> <div>Digital Fitness Program</div> <div>3 Executive Briefings</div> <div>3 Outreach Events</div>	<div>Start of 6 Experiments</div>

Organizational adoption and readiness management

# 2020 Proposed Roadmap

Q1 2020	Q2 2020	Q3 2020	Q4 2020
Sandbox Operations			
Mixed Reality Sandbox			
15 Experiments			
	3 Pilots		
		Transfer	
Digital Fitness Program			
	3 Executive Briefings		
	3 Outreach Events		

Organizational adoption and readiness management

# Outputs and Outcomes



## Outcomes

- A culture more conducive to technology innovation and informed risk-taking
- Foundation laid and defined for Stage 2 of the Digital Agenda
- Robotics project established
- AI foundation laid
- Big data processing capacity established
- Digital fitness platform operational
- Initial fintech products launched



We look forward to doing business  
with you!

Thank you!