



ASIAN INFRASTRUCTURE
INVESTMENT BANK

Accelerating Digitalization in the Transport Sector

An Overview of Recent Trends

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3rd ESCAP-GTI Seminar on
Transport Issues in North-East Asia

Who is AIIB and and What We Do

We are a multilateral development bank with a mission to finance the **Infrastructure for Tomorrow (i4t)**. We enable clients to build i4t—green infrastructure with sustainability, innovation and connectivity at its core. We do this by unlocking finance that brings this vision to fruition. As our clients succeed in building i4t, society shares in that success.



Triple-A-Rated by top rating agencies

How We Do It

We adapt and innovate constantly to deliver customized investment solutions that overcome the challenges our clients face. Clients count on our responsiveness and resilience to help them meet their objective even during the most difficult times.



Why We Do It

Prosperity and economic development for Asia is our goal. To realize this, we facilitate the i4t that empowers regions and their people with access to physical, digital and social services. This in turn contributes to local, regional and global sustainability.

**Global Shareholder Base:
105 Approved Members**

Agenda

- Recent trends in system optimization
- Recent changes in Supply Chains
- AIIB's Mandate: InfraTech
- How AIIB can further support digitalization of transport infrastructure

Recent trends in System Optimization = Higher demand for transport and connectivity services

Improving processes and systems through digitalization = more efficiency

- Digital Platforms
 - Innovative services or repackaging and improvement of existing services
- Automation of processes
 - Ports, autonomous driving, warehouse processes, solving the last mile problem, tracking and tracing
- Higher data and need for more connectivity
 - Infrastructure sensors + data analysis, predictive maintenance
- *Cool buzz words: IoT, 5G, ...*



Recent Changes in Supply Chain Management

- Digitalization of Information Flows
 - International Road Transport Union: eTIR
 - Desire to improve information exchange between neighboring country railways, logistics companies, customs authorities (implementation varies...)
 - Who owns the data? Can blockchain tech help with logistics?
 - Private vs. public sector roles: Who should push digitalization?
 - Can government help strengthen the logistics infra with tech?
- COVID: just-in-time to just-in-case
- *Cool Buzz Words: Blockchain, just-in-time, just-in-case*



AIB's Priority: Technology Enabled Infrastructure

1. AIB's 2030 Vision

INFRASTRUCTURE FOR TOMORROW (I4T)



AIB's MISSION is Financing Infrastructure for Tomorrow. By investing in sustainable infrastructure, AIB unlocks new capital, new technologies and new ways in which to address climate change and to connect Asia, and the world. Technology sits at the heart of Infrastructure for Tomorrow.

2. Thematic Priority

TECHNOLOGY-ENABLED INFRASTRUCTURE



As an institution established in the technological era, AIB plans to play a major role in supporting clients transform their infrastructure sectors, by digital means and through technological applications. Through technology applications, infrastructure will become better.

3. Sector Strategy

DIGITAL INFRASTRUCTURE



AIB will facilitate and finance both hard and soft digital infrastructure, which include both the connectivity and data storage, but also the adoptions of digital technologies to infrastructure sectors.

AIIB's Investment Thesis and sector focuses

1. Green infrastructure.
2. Private capital mobilization.
3. Connectivity and regional cooperation.

4. Technology-enabled infrastructure.

applications into

AIIB invests in 6 core infrastructure plus other relevant productive sectors



Energy



Transportation



Sustainable Cities



Water



Digital Infrastructure



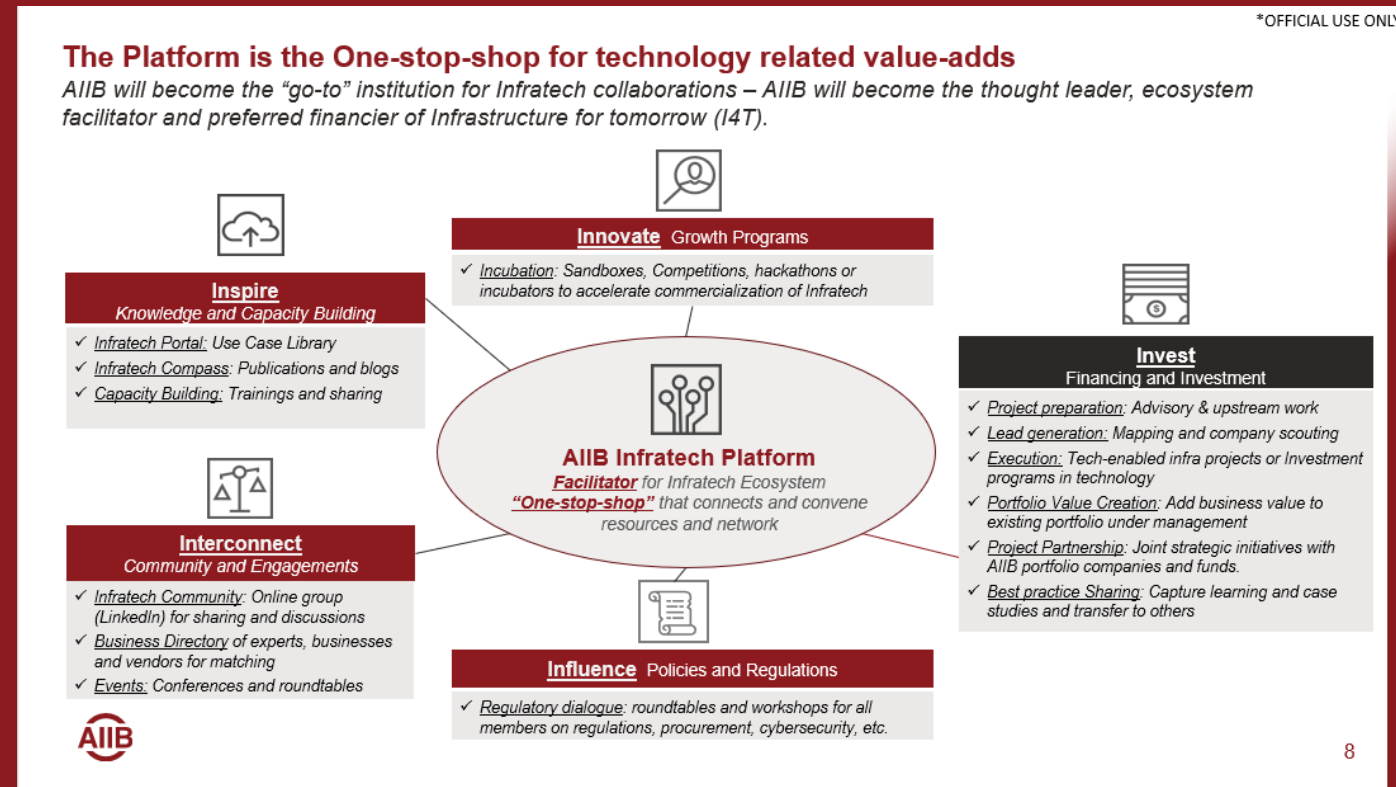
Social Infrastructure



Other Productive Sectors

AIIB Infratech Platform

1. Our goal is to facilitate Infratech adoptions/development to develop I4T and deliver impact.
2. AIIB Infratech Platform (“The Platform”) is the strategic response to the Tech-Enabled Thematic Priority.
3. The Platform consists of 5 modules including knowledge, community building, investments, innovations, and regulations.
4. The Platform is a bank-wide resource and can become one of the value adds to both sovereign and private sector clients.



Case 1: Using Infratech in Guangxi Road Project

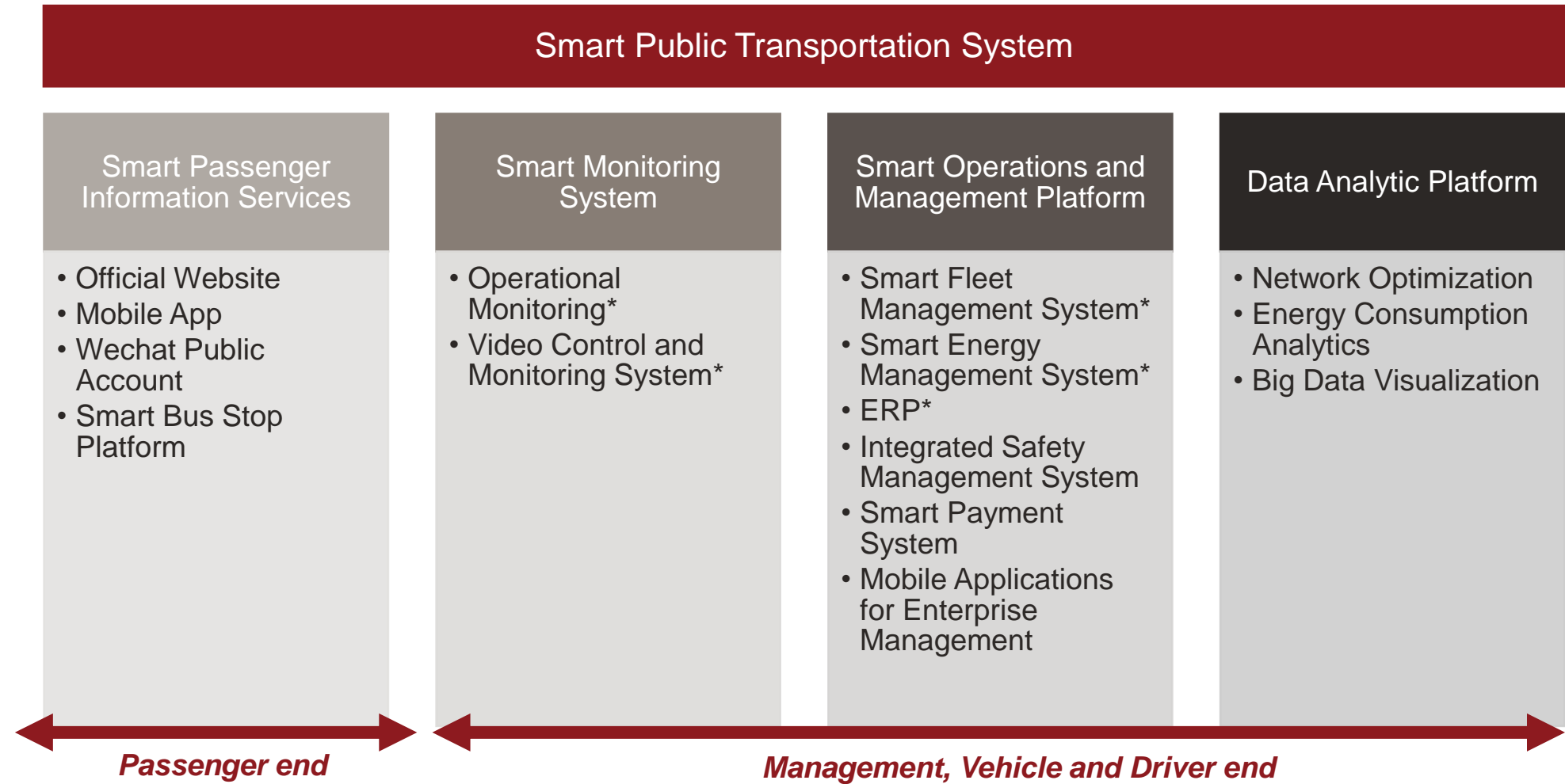
AIIB is involved in the early design and discussion of the application of technologies. AIIB helped the client:

- ✓ to acquire more knowledge and engaged with an internationally renowned technology expert
- ✓ to explore the MTP structure which gives equal footing for the technology provider, ensuring independency, quality and replicability
- ✓ to demonstrate the adoptions later on and share best practice to other projects and members



1. This project will apply **Geospatial information system (GIS), Building information modelling (BIM) and Internet of things (IoT)**, which allow **whole project lifecycle** to be **standardized, digitalized and visualized**.
2. Consequently, all stakeholders can digitally collaborate and monitor the project seamlessly, achieving better **efficiency, quality and safety**.
3. **AIIB has worked closely** with the client in sharing knowledge, developing the appropriate scope, procurement, financing structure. AIIB has engaged with a technology expert to support the client.
4. **“Master Technology Partner (‘MTP’)”** will be engaged who would have an equal footing and status as all the other main project partners. This can facilitate more transparent and independent management; and fit-for-purpose technology solutions will be applied.
5. This project can **showcase benefits** of Infratech and provide **demonstrations of adoptions**, such as how to overcome difficulties, providing insights, better project conceptualization, how to facilitate collaboration with technologies.
6. Such **best practice sharing** will be key inputs to **create a fertile ecosystem and conducive platform for Infratech** that will **benefit other AIIB projects and members** in the long term.

Case 2: Liaoning Smart Public Transportation System



*Existing systems to be used



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**Thank you
for your kind attention!**

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