





WORKS AND EXAMPLES OF THE TECHNOLOGY & INNOVATION LAB

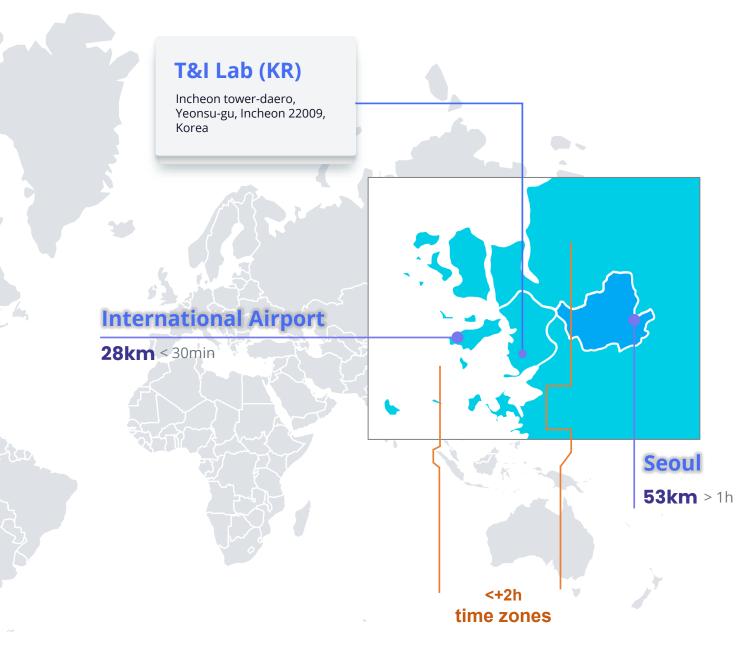
Yongdae Kim

IT Officer, Technology & Innovation Lab World Bank Group Korea Office



Why in Korea?





Location

Why in Korea?

T&I Lab (KR)

Incheon tower-daero, Yeonsu-gu, Incheon 22009, Korea

Agile in responding to the COVID-19 pandemic based on IT



Top the e-participation index of the UN e-government survey



Many Korean partners with rich development experience and resources

Leveraging Innovation and Technology for Development

About us

We help WBG staff to explore emerging technologies and fosters a

"learning by doing"

approach through collaboration with partners.





Prototyping & Feasibility Study

In-house prototyping by hands-on experimentation and feasibility studies for WB Projects



Technology Advisory

Support WB operations to explore and operationalize emerging technologies



Knowledge & Partnership

Serves as an internal knowledge hub of emerging technologies and share Korea's expertise

Technology & Innovation Lab

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01 Prototyping & Feasibility Study

02 Technology Advisory

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Korea Office T&I Lab

Use Case

Prototyping & Feasibility Study

CAN THO City urban development and Resilience (P152851, \$322M)

>

>





Flood Risk Management and Environmental Sanitation

Three Components

> Urban Corridor Development

Spatial Planning Platform and Financial and Social Protection Instruments

We helped the sub-components

Spatial Planning Platform

Disaster Responsive Social Assistance System Prototype

Spatial Planning Platform (SPP)

single platform for spatial data



Prototyping & Feasibility Study

Blockchain for Health Results Based Financing in Core d'Ivoire





 Healthcare financing verification: costly, timeconsuming (25% of project costs)

SOLUTION

- Explored blockchain's role in seamless healthcare records.
- Benefits for patients, providers, and financing program administrators.

Prototype

Health Result Based Financing (RBF)

The health Global Practice in cooperation with the ITS T&I Lab identified and developed two initiatives to use blockchain

Technology Stack

NodeJS, Angular, Twilio SMS Gateway, Hyperledger Fabric, HTML5

Goals & Achievement

Provide faster verification and payments, Reducing leakages in supply chain for pharmaceutical goods



Technology & Innovation Lab

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Korea Office T&I Lab

Technology Advisory Lists

Help clients make informed decisions, mitigate risks, and achieve their goals by leveraging



Blockchain, CBDC

CBDC for Central Bank of Morocco, IMF & FCI

Focused on programmability, cybersecurity, technology risks



Token, ERC20

Tokenization of Asset Based Supply Chains

Design transparency and traceability and tokenization of value chains



System, Machine Learning

Review ToR for Implementation

Provide technical feasibility and budget adequacy

Technology & Innovation Lab

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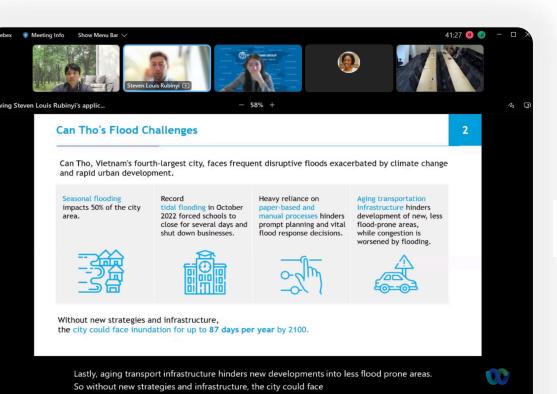
03 Knowledge & Partnership

Korea Office T&I Lab

Knowledge Sharing

Knowledge & Partnership

We have organized knowledge sharing sessions around emerging technologies with our Korean partners



Tuesday, 28 February 2023 10:00 AM – 11:00 AM KST 8:00 PM – 9:00 PM EST (Monday, 27 February)

Unlocking Innovation:

The Power of Geospatial Platforms for Cities



Technology











Korea Securities Depository Knowledge Sharing

Knowledge & Partnership



Published five emerging technologies curation series and CBDC report with FCI

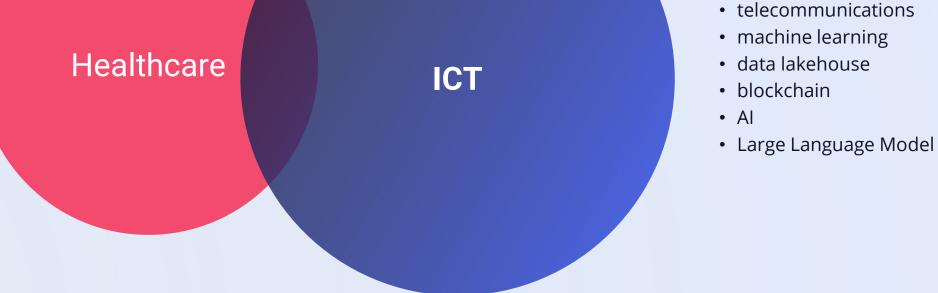
Korea T&I Lab

Healthcare & ICT

As ICT played a significant role in responding to Covid-19, it is also a critical area in other healthcare domains

Healthcare ICT

- improve health
- medical diagnosis
- treatment
- preventive measures
- telemedicine / telehealth



Contact Us

How to start an engagement?

Submit your engagement requests to work with our team

Email

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Phone

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Address

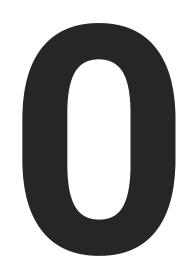
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negative feedbacks



offer pro bono

failure rate

