FOURTH ANNUAL
KOREA GREEN
INNOVATION DAYS
2017

WORKING
TOGETHER
TO MAKE
GREEN
GROWTH
HAPPEN

APRIL 4–6, 2017
DAR ES SALAAM
TANZANIA

WORLD BANK
GROUP
KOREA GREEN
GROWTH TRUST
FUND
WELCOME TO THE 4TH ANNUAL KOREA GREEN INNOVATION DAYS 2017

APRIL 4-7, 2017
DAR ES SALAAM, TANZANIA
The Korea Green Growth Trust Fund (KGGTF) is a partnership between the World Bank Group (WBG) and the Republic of Korea (RoK), established in 2011 to support client countries as they shift to a green development path. Both partners share a common goal to reduce poverty and promote shared economic prosperity in an environmentally responsible and socially inclusive way.

The Trust Fund finances on-the-ground programs as well as knowledge exchange activities, and to date has approved 101 programs in the urban, transport, information and communication technology, energy, environment, water, and climate sectors. Based on strong performance, as well as increasing demand for collaborative development implementation programs, the fund was replenished at the end of 2015 and today has grown from US$40 million to a US$88 million WBG program through 2021.

...AND WHAT DOES GREEN GROWTH MEAN TO YOU?
WHAT IS KOREA GREEN INNOVATION DAYS?

Korea Green Innovation Days (KGID) is the World Bank Group’s flagship Green Growth knowledge sharing event organized and funded by the Korea Green Growth Trust Fund.

The purpose of KGID is for multiple global partners to share practical tangible examples, and holistic innovative approaches, to achieving sustainable development. The event features the WBG’s leading experts in climate change and economic development, as well as officials and green growth practitioners from the Republic of Korea, representatives from key government ministries, institutes, and private companies.

KGID showcases the progress and impact of KGGTF programs and operations around the globe. It embeds a Green Growth agenda into the Bank’s operational model, influencing thinking and investments in many of the client countries it reaches. For example, KGGTF knowledge programs led to new Bank financing of US$200 million respectively for Lebanon and Mexico, for a bus rapid transport system, and affordable housing renovation programs in inner cities.

KGID facilitates in-depth discussions on major issues surrounding green growth and long term climate smart development, and provides a platform for WBG staff, client countries and green growth experts to network and exchange technical and operational knowledge.

WHAT WE HOPE YOU WILL GAIN FROM KGID 2017

• Learn how Korea, the WBG and other countries are sharing Green Growth technical knowledge globally.

• Learn about climate smart and green technologies, policies, and methods from other countries that may support your country’s sustainable development growth plans and actions.

• Make new contacts that can help you better implement Green Growth and climate smart actions.

• Build a global community of experts engaging in dialogue on green innovation and implementation long after the event.
**DAY 1 TUESDAY, APRIL 4**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>8:00–9:00am</td>
<td>Registration</td>
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<tr>
<td>9:00–9:20am</td>
<td>OPENING CEREMONY</td>
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<td>Welcome to the World Bank Group Korea Green Growth Trust Fund</td>
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<td>4th Annual KGID 2017 Africa</td>
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<td>SPEAKERS:</td>
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<td>Tanzanian Government Official</td>
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<td>Song Eon-seog, 2nd Vice Minister of Strategy and Finance</td>
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<td></td>
<td>Bella Bird, Country Director for Tanzania, Burundi, Malawi &amp; Somalia</td>
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<td>WBG</td>
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<td>9:20–9:30am</td>
<td>Integrated and Multi-Sector Solutions:</td>
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<td>World Bank Group Korea Green Growth Trust Fund</td>
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<td>SPEAKER: Eun Joo Yi, KGGTF Program Manager, WBG</td>
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<tr>
<td>9:30–10:30am</td>
<td>OPENING PANEL SESSION</td>
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<td>Designing for Green Investment: Today for Tomorrow</td>
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<td>Green Growth investment is a powerful approach</td>
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<td>and can be an effective road map for making innovative, long-term</td>
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<td>investments. This session demonstrates how Green Growth is already</td>
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<td>being applied by African leaders and communities to influence thinking</td>
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<td>and investments. Panel discussion will highlight how the assessment</td>
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<td>of relevant environmental factors and conditions, and the integration</td>
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<td>of sectors can help decision makers to achieve long term green</td>
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<td>economic growth.</td>
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<td>SESSION LEAD: Jie-Ae Sohn, KGGTF, WBG</td>
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<td>KEYNOTE SPEAKER: Marianne Fay, WBG</td>
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<td>PANELISTS: Bella Bird, WBG</td>
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<td>Carter J. Brandon, WBG</td>
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<td>Boutheina Guermazi, WBG</td>
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<td>Aurelio Menisnizk, WBG</td>
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<td>10:30–10:40am</td>
<td>Coffee Break</td>
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<tr>
<td>10:40am–12:00pm</td>
<td>URBAN PLANNING AND MOBILITY: PART 1</td>
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<td>Urbanization as a Driver of Green Growth</td>
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<td>This is the first of two sessions on two inseparable areas that are</td>
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<td>critical to Green Growth: Urban Planning and City Mobility</td>
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<td>World Bank activities in East and West African cities demonstrate</td>
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<td>how instruments such as policy and regulation that link municipal and</td>
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<td>central level planning, can, together with institutional strengthening,</td>
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<td>lead to better planning outcomes. This session highlights World Bank</td>
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<td>engagement with countries to effect rapid, sustainable economic</td>
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<td>growth by developing inclusive plans that support secondary urban</td>
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<td>SESSION LEAD: Narae Choi, WBG</td>
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<td>PRESENTATIONS AND PANEL DISCUSSION:</td>
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<td></td>
<td>Rwanda Secondary Cities: Economic Viability in Secondary Cities</td>
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<td>Kenya Secondary Cities Program</td>
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<td>Nigeria: Ibadan Flood Management Project</td>
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<td>Jonadab William Metibaiye, Hydraulic Consultant</td>
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<td>Jaebin Lim, Land and Housing Institute (LHI)</td>
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1:10–2:20pm

**Getting to, and around Green Cities**

This is the second of two sessions on two inseparable areas that are critical to Green Growth: Urban Planning and City Mobility.

Urban economies depend on mobility and transportation systems for growth. In this session, panelists will share cases from a range of countries and discuss how Green Growth thinking and innovative approaches are influencing the design and implementation of urban services for improved city mobility.

**SESSION LEAD:**
Haileyesus Adamtei Mengesha, WBG

**PRESENTATIONS AND PANEL DISCUSSION:**
- Africa Sustainable Transport Forum Mobility Maps for Dar es Salaam
- Transport Systems Improvement Project Josphat O. Sasia, WBG
- Sangbum Kim, University of Seoul (SMG)

2:20–3:10pm

**Green Mobility: the Foundation for Green Cities**

Urban development and transport must go hand in hand. Urban transport development can be complex, involving a combination of factors such as economic growth, urban sprawl, road safety, energy consumption, climate change and many more. The challenge is finding sustainable solutions. How can new technology play a role in improving accessibility and effective city mobility? This session will discuss green growth and long term climate smart planning and investment for city mobility.

**SESSION LEAD:**
Yonie Eleskia Mchomvu, WBG

**PRESENTATIONS AND PANEL DISCUSSION:**
- Urban Mobility Issues, the Revised Master plan, and Other Ongoing Initiatives in Addis Ababa Kankata Metropolitan Transport Efficiency Improvement India Narayan Nigam, Kolkata transport and WBG
- Seunghwan Lew, Seoul Metropolitan Government (SMG)

3:10–4:10pm

**Technology and Governance as Catalysts for Green Growth**

Harnessing new technologies to support Green Growth solutions requires policy-enabled environments. In this session World Bank activities highlight the importance of policy and governance to facilitate the effective use of integrated technologies to generate opportunities, jobs, innovation and growth. Panelists will share first-hand experiences and achievements, demonstrating how Green Growth policy and ICT can work together to amplify the impact of innovative technologies, and achieve positive change.

**SESSION LEAD:**
Boutheina Guermazi, WBG

**PRESENTATIONS AND PANEL DISCUSSION:**
- West Africa Fishery Partnership for Competitiveness and Sustainability Saleku K. Sanich, West Africa Regional Fisheries Program in Sierra Leone
- Kane Demba Youm, Sub-Regional Fisheries Commission (SRFC)
- Taehi Ri, Fisheries Monitoring Center (FMC) Ministry of Oceans and Fisheries, Republic of Korea

4:10–4:20pm

**Coffee Break**

4:20–5:30pm

**Supporting Industrial and Economic Growth: Innovative Approaches**

Industrial sectors can extract long-term and sustainable benefits from implementing Green Growth solutions. This session sheds light on various innovative green solutions to boost production through improved efficiency and market development. Panelists will share perspectives from different industrial backgrounds, including fishery, logistics, and cadaster that can be used to mainstream green growth investment.

**SESSION LEAD:**
Anna Lerner, WBG

**PRESENTATIONS AND PANEL DISCUSSION:**
- Mauritania Sustainable Fisheries Work Sinem Demir, WBG
- Green Cement Industries Alexander Larionov, WBG
- Greening the Transport and Logistics Sector in Uganda: Policy and Strategy Initiatives Stephen Musika, WBG
- Youn Gil Song, Land and Housing Institute (LHI)

5:30–6:00pm

**Mali: Disaster Risk Management and Access to Green Growth Investment**

Facing challenges in relation to drought, food security, flooding and management of related disaster risks, Mali is taking an innovative approach by developing and implementing Green Growth activities. This session will introduce the country’s approach and share its case study.

**SESSION LEAD:**
Jean Baptiste Migraine, WBG

**PRESENTATIONS AND PANEL DISCUSSION:**
- Real Time Urban Flood Risk Management and Decision Support Tool for Bamako Greater Area Based upon Analysis of Attenuation of Cellular Phone Network Signals Cheick Fanta Mady Kane, the Mali GCF Funding Proposal
- Ismahila Koumaré, Mali-Météo
- Frédéric Casaravieja, French Institute for Research and Development
- Synergies Between Climate Innovations Supported by KGGTF and Climate Investments Financed by GCF

6:00–6:10pm

**KGID Day 1 Wrap-Up Reflections and Key Takeaways**

**SPEAKERS:**
Boutheina Guermazi, WBG

Closing Message

**Announcements**

7:00pm

**Opening Day Networking Dinner Reception**

Featuring Local Arts & Craft Gallery
AGENDA DAY 2

OPENING REMARKS:
Hassan Mshinda, Director General, COSTECH

KEYNOTE SPEAKER
Park Myoung Sik, Korea Land and Geospatial Informatix Corporation (LX)

FOCUS SESSION: TANZANIA

WORKING TOGETHER TO MAKE GREEN GROWTH HAPPEN IN TANZANIA: AN INTEGRATED APPROACH TO LONG-TERM SUCCESS

SESSION LEAD
Andre Bald, WBG

PRESENTATIONS AND PANEL DISCUSSION

BRT in Tanzania
Ronald Lwakatare, Dar Rapid Transit Agency
Yonas Eliesikia Mchomvu, WBG

Digital Data, Smart Water Tanzania
Dar Water Company
Edward Charles Anderson, WBG

IMPACT AND EFFECTIVENESS OF URBAN PLANNING ON SPATIAL DEVELOPMENT OF TANZANIA SECONDARY CITIES
MaryGrace Weber, WBG

KOREA’S DEVELOPMENT USING CADASTER
Beckhee Cho, Korea Land and Geospatial Informatix Corporation (LX)

KOREA’S INTEGRATED WATER RESOURCE MANAGEMENT
Ju Hean Kim, Korea Water Resources Corporation (K-Water)

COFFEE BREAK

ADDIS ABABA: LONG-TERM CAPACITY BUILDING INITIATIVE FOR GREEN GROWTH CITIES

SESSION LEAD:
Abebaw Alemayehu, WBG

PRESENTATION AND DISCUSSION:
ASPIRATIONS FOR ADDIS ABBABA IN THE COMING DECADES—VISION, DEVELOPMENT STRATEGIES AND IMPLEMENTATION ARRANGEMENTS FOR THE REVISED MASTER PLAN
Mathewos Asfaw, Commissioner, Addis Ababa City Government in partnership with the Seoul Metropolitan Government.

LUNCH
AGENDA DAY 2

1:10–2:40pm

Does Green Growth Need Laws?
Focus: Solid Waste Management

This is the first of two sessions that focus on how laws, regulations, and policies at national level are critical to implementing a green growth approach. Municipal level public investments such as solid waste management (SWM) need national policy and institutional support. This can have long-term economic advantages for the city as well as a positive impact on the economic growth of the nation. Panelists will share and discuss specific challenges and green approaches to SWM policy-making from a number of countries.

SESSION LEAD:
Harinath Sesa Appalarajugari, WBG

PRESENTATIONS AND PANEL DISCUSSION:
Solid Waste Management Policies and Technologies
Farooq Banna, WBG
Ibrahim Dagne, Ministry of Local Governance, Senegal
Solid Waste Management Strategy of the Country
Birhanu Teshome, Ministry of Urban Development and Housing, Ethiopia
Outline the Ministry of Urban Development and Housing Strategy
Amalou Adamu Ayle, Ministry of Urban Development and Housing, Ethiopia
Korea’s Green Solid Waste Management Story
Gyeok Ju Kang, Korea Environment Corporation (KECO)
Hee-dong Kwon, SLC Sudokwon Landfill Site Management Corp (SLC)

2:40–3:40pm

Does the Law Drive Transport and Growth?
Focus: Transportation

This is the second of two sessions that focus on how laws, regulations, and policies at national level are critical to implementing a green growth approach. This session will showcase Africa’s policy initiatives to operationalize green growth in the transport sector. Discussion will focus on how national policy, law and regulation are critical for the successful development and implementation of core transport infrastructure for social and economic growth.

SESSION LEAD:
Aurelio Menendez, WBG

PRESENTATIONS AND PANEL DISCUSSION:
Managing Motorization in Developing Countries: East African Case Studies
Roger Gorham, WBG
World Bank Financed Road Projects in East Africa
Haileyesus Adami, Ministry of Local Governance, Ethiopia
Kang Gyu Kang & Hong Sang Yeon, Korea Expressway Corporation (EX)

3:40–4:00pm

Coffee Break

4:00–4:40pm

The Institutional Role in Achieving Green Growth: Moving Air, Water and Earth!

SESSION LEAD:
Carter J Brandon, WBG

PRESENTATION AND PANEL DISCUSSION:
Seong-il Yoon, Korea Environmental Industry and Technology Institute (KEITI)
Minji Kim, Ministry of Environment (MoE), Republic of Korea
Harinath Sesa Appalarajugari, WBG

4:40–5:40pm

A Different Way of Powering Africa

Africa suffers from a severe power shortage. To address this issue, there is an urgent need for smart energy solutions and innovative financing. Based on regional resources, African countries can deploy new technologies to develop self-sustaining energy sources and store renewable energy through regional collaboration. Panelists will share experiences and discuss innovative approaches to utilizing wind, water, solar, and ICT to overcome vulnerabilities and create climate resilient energy programs that provide jobs to drive green growth.

SESSION LEAD:
Eun Joo Yi, KGGTF, WBG

PRESENTATIONS:
The Negawatt Challenge for Energy Efficiency
Anna Lerner, WBG
National Energy Efficiency
Hussein Soo, Korea Energy Agency (KEA)

5:40–6:10pm

KGID 2017 Africa Closing Ceremony

SPEAKERS:
Marianne Fay, WBG
Aurelio Menendez, WBG
Clients
Beckhee Cho, Korea Land and Geospatial Informatix Corporation (LG)
On Day 3, two sets of three concurrent sessions will be held over the morning (9:00-11:30) and the afternoon (1:00-3:30). One session is composed of roughly 1 hour of presentation, 1 hour of discussion, and 30 minutes of networking time.

**9:00–11:30am**
- **Capacity building: An investment worth making**
  - **BRT, ITS & data analytics**
  - **Smart Energy**

**1:00–3:30pm**
- **Land Digitization in Tanzania**
- **Environment SWM**
- **How to speak Green Growth**

**DAY 3 THURSDAY, APRIL 6**

**Capacity Building: An Investment Worth Making**

Building long-term sustainable infrastructure, and establishing new industries to facilitate economic growth is a daunting task. The case for hiring external experts for speed and efficiency is compelling, but continual outsourcing of operations is a missed opportunity for job creation and up-skilling a country’s workforce. Examine the elements needed for successful capacity building and discuss how connecting with international partner institutions, developing technical training, and establishing internal expertise creates jobs, builds skill sets and promotes inclusive economic growth.

**PRESENTATION, DISCUSSION AND NETWORKING**

**SESSION CO-LEADS**
- Haileyesus Adamtei Mengesha, WBG
- Sun Ki Kwon, Seoul Metropolitan Government

**BRT, ITS & Data Analytics**

Transportation and the ability for people to efficiently maneuver around cities have a direct impact on economic activity. Transportation also provides an opportunity, and often a benchmark, for governments to demonstrate effectiveness. Learn about the integration of Bus Rapid Transport (BRT) and data analytics, and how deployed together they can help citizens to experience their government as dynamic, technologically sophisticated and positively impacting their lives.

**PRESENTATION, DISCUSSION AND NETWORKING**

**SESSION CO-LEADS**
- Yonas Eliesikia Mchomvu, WBG
- Raman Krishnan, WBG

**Smart Energy**

Energy shortages and instability across power supplies have knock-on effects that stifle economic growth. A reliable electricity supply at an accessible cost is essential to increase productivity, create jobs and generate higher GDP. Smart energy sources, such as Energy Storage Systems (ESS), allow renewable energy to be accessible and reliable. Assessing how ESS and micro grid technologies can stabilize renewable energy in Sub-Saharan Africa is an important step towards building long-term, integrated energy infrastructure across the region. Explore the importance of smart energy technologies in Africa to realize a greener, more resilient and accessible energy system.

**PRESENTATION, DISCUSSION AND NETWORKING**

**SESSION CO-LEADS**
- Anna Lerner, WBG
- KEA

*This information is correct at time of going to print but is subject to change prior to and during the event.*
**DAY 3 THURSDAY, APRIL 6**

11:30am–1:00pm Lunch

1:00–3:30pm

**Land Digitization in Tanzania**

Recent technological advances in high-resolution cameras, light-weight drones and sophisticated software now provide the opportunity for urban leaders to support city development by establishing city districts and commercial centers, deciding on appropriate transport routes, and integrating ICT for advanced warning and evacuation for natural disasters. View a demonstration and explore how inexpensive technology can be creatively applied to support green economic development and quality of life.

**PRESENTATION, DISCUSSION AND NETWORKING**

**SESSION CO-LEADS**

Edward Charles Anderson, WBG
Jonghyun Yoon, LX

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**Environment Solid Waste Management**

Explore recent SWM projects across Africa and gain insights about the potential impact of technical and environmental factors when considering SWM policy decisions, investments and implementation methods. Examine the potential for cross-sector partnerships and integrated investments, and consider potential synergies and concerns when building capacity and investing in long-term SWM and green growth.

**PRESENTATION, DISCUSSION AND NETWORKING**

**SESSION CO-LEADS**

Faruuk Bar, WBG
SLC

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**Communicating Green Growth**

How should we talk about Green Growth? How can we communicate and engage stakeholders with the concept and principles of Green Growth? The World Bank External Communications & Relationship Team will share concrete examples of Green Growth in Action and discuss ideas and strategies for communicating Green Growth to a broad range of stakeholders.

**PRESENTATION, DISCUSSION AND NETWORKING**

**SESSION CO-LEADS**

Jie-Ae Sohn, KGGTF, WBG
A’Melody Lee, Africa Communications and Partnerships, WBG

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**DAY 4 FRIDAY, APRIL 7**

10:00am–3:00pm Optional Site Visits

**Outdoor Drone Demo**

(in Continuation of Land Digitization in Tanzania)

**KOREA CASE**

Korea Land Mapping Case Study
Jonghyun Yoon, LX
Case Study, Disaster Risk Management as Part of Green Growth
NaYoung Lee & JuHwan Kim, K-Water

**ETHIOPIA CASE**

Sharing Solid Waste Management Progress in Africa
Abibe Abaynehu, WBG

**INDIA CASE**

Harinath Setha Appalanakari, WBG

**TANZANIA CASE**

Land Digitization in Tanzania
Edward Charles Anderson, WBG

**KOREA CASE**

Gyeoseo Jang, KECO
Sang-Hyung Park, KEITI

**TANZANIA CASE**

Land Digitization in Tanzania
Edward Charles Anderson, WBG

**KOREA CASE**

Korea Land Mapping Case Study
Jonghyun Yoon, LX
Case Study, Disaster Risk Management as Part of Green Growth
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**ETHIOPIA CASE**

Sharing Solid Waste Management Progress in Africa
Abibe Abaynehu, WBG

**INDIA CASE**

Harinath Setha Appalanakari, WBG

**TANZANIA CASE**

Land Digitization in Tanzania
Edward Charles Anderson, WBG
KGGTF FEATURE STORIES

- GREEN LOGISTICS AND STRATEGY IN UGANDA
- TECHNOLOGY-DRIVEN CLIMATE CHANGE RESILIENCE IN TANZANIA
- INNOVATIVE AND GREEN GROWTH FOR RURAL KOSOVO: INVESTING AND SCOPING
- WEST AFRICA FISHERY PARTNERSHIP FOR COMPETITIVENESS AND SUSTAINABILITY
- ENERGY STORAGE SYSTEMS AND GRID STABILITY IN WEST AFRICA

PHOTO: DOMINIC SANSONI / WORLD BANK

ACTION
TECHNOLOGY-DRIVEN CLIMATE CHANGE RESILIENCE IN TANZANIA

CONTEXT
By 2025, Tanzanian officials, under the Tanzania Development Vision, aim to see the majority of the country’s citizens earning middle incomes, with access to education, sustainable economic opportunity, security, and peace. In order to achieve this, the Tanzanian government is seeking to leverage digital technologies and applications to accelerate its economic transformation.

CHALLENGES & OPPORTUNITIES FOR GREEN ECONOMIC GROWTH
The Tanzanian government sees opportunities in leveraging digital technologies for citizen engagement, low cost mapping and surveying, risk assessment, smart mobility and smart delivery. In particular, the government is looking at a number of emerging technology fields such as development of electric unmanned aerial vehicles (UAVs), expected to be used both for sensing and delivery, and as facilitating citizen engagement with improved data, interface standards and mobile access. The government is also seeking to develop shared business models in transportation which are expected to reduce congestions and fuel consumptions as well as emissions and support new livelihoods.

KGGTF IN ACTION
This KGGTF activity will support digital development solutions that aid in stakeholder engagement, low-cost mapping and surveying, risk assessment, and service delivery in several economic sectors. Transportation systems as well as urban, water, environment, land, and health systems will get a green growth boost, as will Tanzania’s climate-informed development efforts. In particular, Tanzania’s partnership with the KGGTF and the Korea Land and Geospatial Informatix Corporation will advance mapping, surveying, flood response, environmental management, and risk assessment with the use of UAVs. It will also make citizen engagement more available and attractive with improved data and interface standards and mobile access. Lastly, through a transport infrastructure and mitigation assessment of Dar es Salaam, the activity will assist the government in evaluating new transportation business models.

GREEN GROWTH SCALE & IMPACT
This KGGTF program would help bring World Bank-funded climate technology innovation projects and green growth in Tanzania to scale, while addressing rapid urbanization and youth employment challenges. Overall, data and technology-driven solutions are expected to improve efficiency, resilience, competitiveness, and land management, helping Tanzania include underserved communities in decision-making, foster an innovative spirit, and attract sustainable and smart business.

The government is looking at a number of emerging technology fields such as development of electric unmanned aerial vehicles (UAVs).
Providing stable and reliable electricity supply at a cost that is accessible to all is a major challenge for many developing countries. The Economic Community of West African States (ECOWAS) is seeking to utilize green growth strategies based on innovative technologies to collectively address these issues for the citizens of the ECOWAS member states.

CHALLENGES & OPPORTUNITIES FOR GREEN ECONOMIC GROWTH

The Economic Community of West African States (ECOWAS) is a union of West African countries established to foster collective self-sufficiency for its member states.

Fourteen of the 15 members of ECOWAS, Benin, Cote d’Ivoire, Burkina Faso, Ghana, Gambia, Guinea, Guinea Bissau, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone and Togo have formed the West Africa Power Pool (WAPP).

The main vision of the WAPP is to integrate the operations of the individual national power systems into a unified regional electricity market. But these efforts are hampered by the imbalance in supply and demand between countries and the lack of visibility and policy for these inter-regional connections. In addition, WAPP faces the challenge of meeting the ECOWAS target to increase the share of renewable energy in the overall electricity mix to 35% in 2020 and 48% in 2030 (including large hydro), which will require not only the strengthening of their grid, but also developing a framework and master plan for a more sustainable and reliable way of delivering electricity.

KGGTF IN ACTION

In support of these efforts, the WBG KGGTF program is funding WAPP countries to conduct feasibility studies assessing the energy storage in the region’s power systems. These studies are expected to provide strategies in the efficient operation of the WAPP power system and identify areas that need reinforcement. Financial assessment is also expected to be conducted on energy storage technology applications in the WAPP countries. Energy storage technologies such as the use of battery-operated Energy Storage Systems (ESS) will be studied to understand how they can be beneficial for upscaling solar electricity generation, and to enable inter-regional electricity trading while maintaining system reliability.

Program funding will also support a study exchange for ECOWAS utilities operators to increase awareness through best practices in other countries.

GREEN GROWTH SCALE & IMPACT

Energy grid storage systems as an option for flexibility is expected to allow WAPP nations to incorporate long-term planning of the energy sector. This facilitates the region’s efforts at integration and provides better access to more renewable sources. Such access to more reliable and affordable electricity is expected to promote sustainable growth in this region.
The West African marine fisheries provide direct and indirect employment to over 3 million people and have a wholesale value of more than $3 billion a year. Fish is an important export commodity; for example, it represents over 30% of the export revenues in Mauritania and Senegal. Fish also provide over 50% of the animal protein for the region’s inhabitants. Currently, the capacity to realize the full economic value of fishery resources is severely constrained due to factors such as weak governance arrangements, limited management capacity, and rampant illegal, unreported, and unregulated (IUU) fishing in the region. The recent World Bank estimates suggest that, while African marine fisheries generated a loss of $200 million in 2012, it has the potential to generate over $10 billion each year in perpetuity.

CHALLENGES AND OPPORTUNITIES FOR GREEN ECONOMIC GROWTH

To help reverse this trend, in 2009, the World Bank established a nine-country, multi-phase West Africa Regional Fisheries Program (WARFP) in close collaboration with the West African Sub-Regional Fisheries Commission (SRFC). The first phase focused on governance reforms while the second phase is expected to target improving value chains and strengthening regional coordination. IUU reduction is a WARFP program component that is considered essential for enhancing West African marine economies and the livelihoods they provide. While the program has already initiated active steps in this respect, further efforts are needed to utilize technology innovations to overcome the prohibitive costs of conventional IUU surveillance and enforcement.

KGGTF IN ACTION

This KGGTF-funded Green Growth activity is about to create efficient and effective, regionally connected monitoring and surveillance systems that will help coastal communities grow green economies and improve the health of fish stocks while improving safety at sea, which is an increasing concern due to the higher frequency of storms. The program is currently testing an affordable and effective tracking system appropriate for small scale boats, and includes knowledge sharing with partners in Korea, Europe, and Northern America. More specifically, this program includes developing an integrated sub-regional monitoring, surveillance and control ICT strategy and implementation plan; strengthening the countries’ joint vessel traffic monitoring and information systems and interoperability capabilities for identifying and managing infringation vessels; identifying and testing cost-effective new ICT systems for IUU monitoring, surveillance and control; and strengthening knowledge exchange on IUU surveillance.

GREEN GROWTH SCALE & IMPACT

West African countries are expanding capacity and learning to support the fishing economy and safeguard its survival, which will allow current and future generations to maintain local food production. Additionally, the increased competitiveness is expected to arrest and reverse the unsustainable IUU levels in the region. Establishing a comprehensive and sustainable fishery management system will allow the region to strengthen local fish stock and ensure food security in a time of increasing climate volatility.

West African countries are expanding capacity and learning to support the fishing economy and safeguard its survival, which will allow current and future generations to maintain local food production.

PHOTO: ARNE HOEL / WORLD BANK
Transportation infrastructure and fleet improvements have been instrumental in successful climate-resilient development and green growth strategies around the globe, but those successes can be amplified by complementary transportation logistics efforts that lower costs and minimize environmental footprints. Such a plan is in the works in Uganda, where major transportation corridors and logistics face climate risks and over-use.

CHALLENGES & OPPORTUNITIES FOR GREEN ECONOMIC GROWTH

For Uganda, a landlocked country in Sub-Saharan Africa that lies nearly 800 km from the Indian Ocean, the challenge is to enhance the competitiveness of the logistics sector, while encouraging the adoption of green technologies. Providing regional connectivity within Uganda, and between Uganda and the rest of the region, is critical to its development, especially for the oil, agriculture, fishing and tourism sectors. The rise in intra-regional trade in the East African Community (EAC) could allow it to leverage its central location and position as a major transit country connecting to South Sudan, Rwanda, Burundi and Eastern Democratic Republic of Congo, to serve as a hub for logistics in general and distribution in particular.

KGGTF IN ACTION

Building on a 2014 KGGTF grant that facilitated a knowledge exchange between Uganda and Korea, this new KGGTF funding aims to support Uganda to develop a logistics sector and program that will spur green transportation growth, incentivize the use of green technologies, and improve the quality and efficacy of the country’s transportation system. The new logistics strategy will lower greenhouse gas (GHG) emissions, minimize the sector’s environmental footprint, and save the country and its citizens money, all while creating jobs and economic stability. Areas that will be ironed out or improved upon with the refreshed KGGTF funding include: identifying how government can support sector growth domestically and internationally; supporting logistics and shipping companies and industry growth through regulatory reform and tax incentives; supporting education, research, and development; developing an emissions-reduction scheme; and prioritizing short-term investments. The policy will utilize successful experiences from many countries and will be built on principles such as: incrementalism, the use of technological advances; continuous up-skilling of an efficient labor force; evidence based policy based on robust data and solid analysis; and appropriate institutional arrangements at the highest level to provide vision and course correction as needed.

SCALE & IMPACT OF GREEN GROWTH

Ultimately, this partnership is expected to result in a pilot project that can serve as a framework for other World Bank programs in Africa and South Asia seeking to assess and reduce GHG emissions and promote green growth. This Green Growth strategy dovetails with other World Bank lending efforts in Uganda, including the sustainability of Lake Victoria project and the Uganda oil infrastructure project. Both projects aim to reduce environmental footprints and protect resources into the future, while contributing to economic growth.
INNOVATIVE AND GREEN GROWTH FOR RURAL KOSOVO: INVESTING AND SCOPING

CONTEXT
Developing economies face hurdles supporting green growth across their rural areas. In Kosovo, this issue is particularly exacerbated due to patchy telecommunications infrastructure, resulting in underdeveloped broadband internet coverage affecting as many as 30% of households, mainly in rural and remote areas. Another issue affecting economic growth in the country is low labor force participation and high unemployment among women, especially rural inhabitants. Only 1 out of every 8 women is formally employed, compared to 2 out of every 5 men. Thus, providing more, better and inclusive economic opportunities in rural areas presents another challenge for the Government.

CHALLENGES & OPPORTUNITIES FOR GREEN ECONOMIC GROWTH
The Government of Kosovo recognizes broadband connectivity as one of the enabling infrastructures for green growth and proposes a rural broadband program modeled on a public-private partnership to improve broadband coverage in all of the country. While doing so, it seeks to create significant economic, environmental and social benefits, including for un-/underemployed female rural inhabitants.

KGGTF IN ACTION
The KGGTF’s two-year activity aimed to improve access to high-speed and affordable broadband Internet services in the underserved rural areas of Kosovo as a platform for enabling innovative and green growth in the country. It did so by producing design of an inclusive and high-impact rural broadband program and by piloting a green jobs intervention to showcase importance of broadband internet for inclusive job creation. The intervention included an innovative IT training pilot program called Women in Online Work (WoW) which supported 150 women residing across five rural and urban municipalities to engage in green, ICT-enabled jobs offered through a global online work marketplace.

GREEN GROWTH SCALE & IMPACT
Upon completion, and based on the promising results from the WOW pilot, the Government of Kosovo recognized its impact and expanded the activity through additional donor funding. The Government also listed rural broadband program implementation as one of its key forthcoming investment projects. Currently, the World Bank is working with the Government on the preparation of the Kosovo Digital Economy (KODE) initiative, which envisages support to rural broadband deployment, digital skills development, and digital businesses. Furthermore, Kosovo’s Deputy Minister for Economic Development has conducted visits to neighboring Albania and Montenegro to rally support from peer line ministries for the scaling up of WoW on a regional level. The interest of Albanian and Montenegrin counterparts led to discussions that could lead to the regional scaling-up of WoW in the Western Balkans.
KOLKATA METROPOLITAN TRANSPORT EFFICIENCY IMPROVEMENT

CONTEXT
The existence of numerous and congested traffic systems inhibits the growth of cities. Not only does heavy congestion hinder efficient economic activities, it produces pollution and unpleasant living conditions for city inhabitants. Kolkata has taken the initiative to reverse this trend utilizing state-of-the-art transport modules.

CHALLENGES & OPPORTUNITIES FOR GREEN ECONOMIC GROWTH
Kolkata is a culturally rich and economically vibrant city, with a history that supports a prominent future for the city, but it has seen an explosion in the population in the Kolkata Metropolitan Area (KMA). In 1947 there were just 0.6 million residents, compared to a projected 21 million by 2025, and the city continues to struggle to recover from and manage this extreme growth. Over this period, KMA, unlike other mega cities in India, has established a large number of public transport modes, from rickshaws and buses to trams and ferries. This has resulted in a transportation network which is ill equipped to serve its rapidly increasing population living in a modern age and facing a high-tech future.

KGGTF IN ACTION
The KGGTF action focused on the integration of these transport systems to aid the decongestion of the KMA. Funding supported the development of low-carbon solutions through a combination of smart urban planning, technology use, bus reform, pricing policies, and open space and land use planning. The driving principle was that bringing these factors together would improve service, facilitate economic activity, make the city more livable, and support its growth in a sustainable way. It also allowed for the transfer of knowledge on effective and ineffective approaches in relation to design, phasing, and implementation of green development initiatives, including policy reforms, investments, and private sector engagement.

The program tapped into the experiences of cities which faced similar challenges and overcame them by building state-of-the-art transportation modules utilizing ICT technology. It used examples of modern cities that accumulate and facilitate data collection, and nurture an open data system that allows local industry and entrepreneurship to utilize that data for the public good.

GREEN GROWTH SCALE & IMPACT
A major outcome from the program has been the development of three apps that will be used at various levels of the transport eco-system in KMA. The app were developed to support a major route rationalization targeting the bus routes which carry more than 70% of the population. Better utilization of bus resources through service and frequency improvement, route adjustments, etc is expected to reduce the number of bus trips along already busy corridors, and hence provide some relief to traffic congestion. Improving service delivery through data collection and using analytics (big data) to understand travel behavior and trends led to the development of smart apps that are changing how commuters make travel decisions. Besides more common features like ETA, the apps can tell the commuter the level of crowdedness in a bus, allows commuter to communicate hazards or unsafe incidents, and will soon make possible end to end trips with greater ease. In addition, a route creation app will allow any city to create or validate public transport the city.

With such developments, Kolkata is initiating the transformation of its transport system and inspiring other cities facing similar challenges.
ALEXANDER LARIONOV

Alexander Larionov joined the IFC in 2006 to work on Sustainable Energy Finance solutions in Europe and Central Asia (ECA). Since 2012, he has worked with the Energy and Water Advisory team in Sub-Saharan Africa, based in Johannesburg. Alexander’s expertise includes finance, private equity and development of clean energy solutions in various sectors, including agribusiness, manufacturing and construction materials, with focus on economic and financial modeling. Prior to joining IFC, Alexander worked for a private equity fund in Russia. He holds a Master’s in International Economics from the Ural Federal University (Russia) and the University of Ghent (Belgium).

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Harinath is a Senior Environmental Specialist with the Environmental and Natural Resources Global Practice of the World Bank. Based in the New Delhi office, he manages pollution management projects and provides environmental safeguards support to urban and infrastructure projects in South Asia Region. Some notable projects that he is currently supporting include ‘Ganga River Basin Project’ and ‘Contaminated Sites Clean Up Project’ in India and ‘Clean Air and Sustainable Environment’ Project in Bangladesh. During his 20 year career in environmental engineering, Mr. Harinath lead development and implementation of urban environmental management and municipal solid waste management programs in number of cities in India, and industrial pollution management initiatives in Tannery, Textile, Bulk Drug and Pulp & Paper sector. Mr. Harinath is a Civil Engineer with a Master’s degree in Environmental Planning and a PG Diploma in Environmental Economics.

BECKHEE CHO


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Boutheina Guermazi is a Practice Manager for Information and Communication Technologies (ICT) in the Transport and ICT Global Practice of the World Bank, based in Washington DC. Her unit designs and implements activities and programs aimed at supporting developing countries unleash digital opportunities for inclusive development. These include policies and programs relating to broadband infrastructure, mobile networks, digital government, ICT skills and industry development. Prior to joining the ICT unit, Boutheina was a Lead Operations Officer in the Regional Integration Unit, supporting regional projects in Africa. She has written and published a number of articles and book chapters on trade law, telecommunications policy and regulatory reform.

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Carter Brandon is the World Bank’s Global Lead Economist for the Environment and Natural Resources Global Practice. His primary interests are in the linkages among the environment, welfare and growth. Over his 20 years at the World Bank, he has held lead positions in both headquarters (Latin America and South Asia regions) and in the field (Beijing and Buenos Aires). Prior to joining the World Bank he ran the Development Economics Group, an economics consulting firm specializing in trade and sector policy analysis. Early in his career, he also made a documentary film on political unrest in Chiapas, Mexico, and played in the Paris Symphony. He graduated from Harvard University (BA) and Oxford University (MS and DPhil, ABD, Agricultural Economics), where he was a Rhodes Scholar.

CHEICK FANTA MADI KONE

Lieutenant Colonel Cheick Fanta Mady Kone holds a PhD in General Medicine and a Capacity in medicine in emergency and disaster situations. He is a national expert in disaster risk management and has been the National Focal Point for disaster risk reduction in Mali since 2012. In this capacity, he coordinated the Disaster Risk Reduction and Adaptation to Climate Change project (2012-2015) and is now coordinating the preparation of the ‘Hydromet and Early Warning’ project funded by the Green Climate Fund (in pipeline). He participated in the development of the Mali National Strategy for Disaster Risk Reduction, the National Emergency Plan (ORSEC) and in the update of the

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DINKNEH TEFERA
Dinkneh Tefera joined the World Bank in 2011 as a short-term consultant and started working in the Urban and Water Unit Africa Region. He is currently working on the Second Urban Local Government Development Program (ULGDP II), a US $380 million IDA Program for Results, which is under implementation in 44 cities and nine regions of Ethiopia. He had provided implementation support for the first phase of ULGDP (US $300 million), which was successfully closed on December 31, 2014. He also worked on a number of initiatives, activities, and studies such as the Ethiopia Local Government revenue study, energy efficiency, disaster management and City Strength. He also participated in the Ethiopian Urbanization Review. Dinkneh has extensive experience in Urban Development, working at different organizations for over 15 years. Before joining the World Bank, he worked on an Urban Governance and Decentralization Program that was financed by German International Cooperation (GIZ). He has a BA in Economics and a Post-Graduate Diploma in Urban Development studies.

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Marianne Fay is currently the Chief Economist of the Sustainable Development Vice-Presidentcy at the World Bank. She previously served as the Chief Economist for Climate Change. She contributed to a number of World Development Reports, notably the World Development Report 2010 on Development and Climate Change which she co-directed, and led a number of recent World Bank reports, such as Inclusive Green Growth: the Pathway to Sustainable Development and Decarbonizing Development: Three Steps to a Zero-Carbon Future. She has held positions in different regions of the World Bank (Eastern Europe and Central Asia, Latin America and the Caribbean, Africa), working on infrastructure, urbanization, and climate change. She is the author of a number of articles and books on these topics. Marianne Fay is a founding member of the Green Growth Knowledge Platform, Marianne Fay holds a PhD in Economics from Columbia University.

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Munseok Lee is CEO of Hojung Solutions Co., Ltd, a private organization with expertise in continuous integration of UAV technology, Information technology (IT), remote sensing (RS), GIS Databases and various Applications. He has a broad engineering background as well as teaching experience in social science studies. He has successfully launched a number of UAV applications into the Korean market and his company is one of the biggest UAV service providers in Korea. He studied at the University of Cincinnati School of Planning and has worked as the CEO and Founder of Hojung Solutions Co., Ltd for 6 years.
NEW INTEGRATION, NEW COMMUNITY:
Planning for City Leaders, Korea version,' which is an indispensable
citizens' lives and the sustainability of the world. He collaborated
Urbanization are highly utilized in building the capacity of
Land Supply and Development, Economic Development and
Urbanization are highly utilized in building the capacity of
cities. The conventional approach to planning is insufficient,
stream restoration, Smart and Sustainable City, Metro-governance,
understanding, and cooperation with international organizations including Multilateral
Development Banks. He studied business administration and

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In the last seven years, Dr. Sankoh has worked in the Ministry of Fisheries and Marine Resources in support for Fisheries Management in Sierra Leone, and as Regional Fisheries Consultant to the FAO, World Fish Centre, European Union, Stirling Aquaculture, Sierra Rutile Mining Company, the Environment Protection Agency in Sierra Leone, the UNDP’s Climate Change Project, and the Catholic Agency for Overseas Development. Currently, Dr. Sankoh is the National Project Coordinator for the World Bank-funded West Africa Regional Fisheries Programme in Sierra Leone and still undertakes his responsibilities as Research Fellow and Lecturer at the University of Sierra Leone.

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Kim teaches urban solutions at the University of Seoul. Before joining the university, he worked at Seoul City Government for 30 years and retired as Vice Mayor. He also was president of Seoul Institute think-tank of urban solutions for Seoul. His specialist area is transportation and regional industry development. He was involved in most of projects that transformed Seoul into its current shape. Major contributions included financing the subway construction of line 5 to line 8, bus reform, and the DMC project, a high-tech media industrial park developed during 2000 and 2012. Furthermore, ten years of effort replacing diesel bus engines with gas engines greatly contributed to reducing the air pollution level in Seoul. Since retirement, he has been actively involved in sharing his experiences with many foreign cities' employees through lecturing and forums. He also participates in many activities being carried out by UOS, CITYNET and Seoul Training Institution. He always emphasizes the important role of city employees to encourage city center economic prosperity and innovation.

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Sun Ki Kwon is Director of the Global Urban Partnership Division at Seoul Metropolitan Government. She takes charge of the city’s policy-sharing projects, Seoul’s urban policies promotion to the global society, and the mission to attract more international organizations to Seoul. Since beginning her public career in 1990, she has held important posts for the city in the areas of human resource capacity building, audit and social welfare. She majored in taxation from the University of Seoul for her Bachelor degree and holds a Master’s in public administration from the University of Kentucky. Her key interests include urban diplomacy, sustainable urban development, and urban policy knowledge sharing.

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KGGTF is committed to sharing technical knowledge and first-hand experience of implementing integrated green growth solutions that contribute to sustainable development and shared economic prosperity. To learn more about us, visit www.wbgkgtgf.org