

ADB

11 April 2025 | Fullerton Hotel, Singapore

Master of Ceremonies

Jost Wagner Lead Facilitator

Lead Facilitator
Managing Director, The Change Initiative & Chief
Navigator Asia-Pacific Futures Network



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Welcome Remarks

Leah Gutierrez

Director General Sectors Department 3 Asian Development Bank



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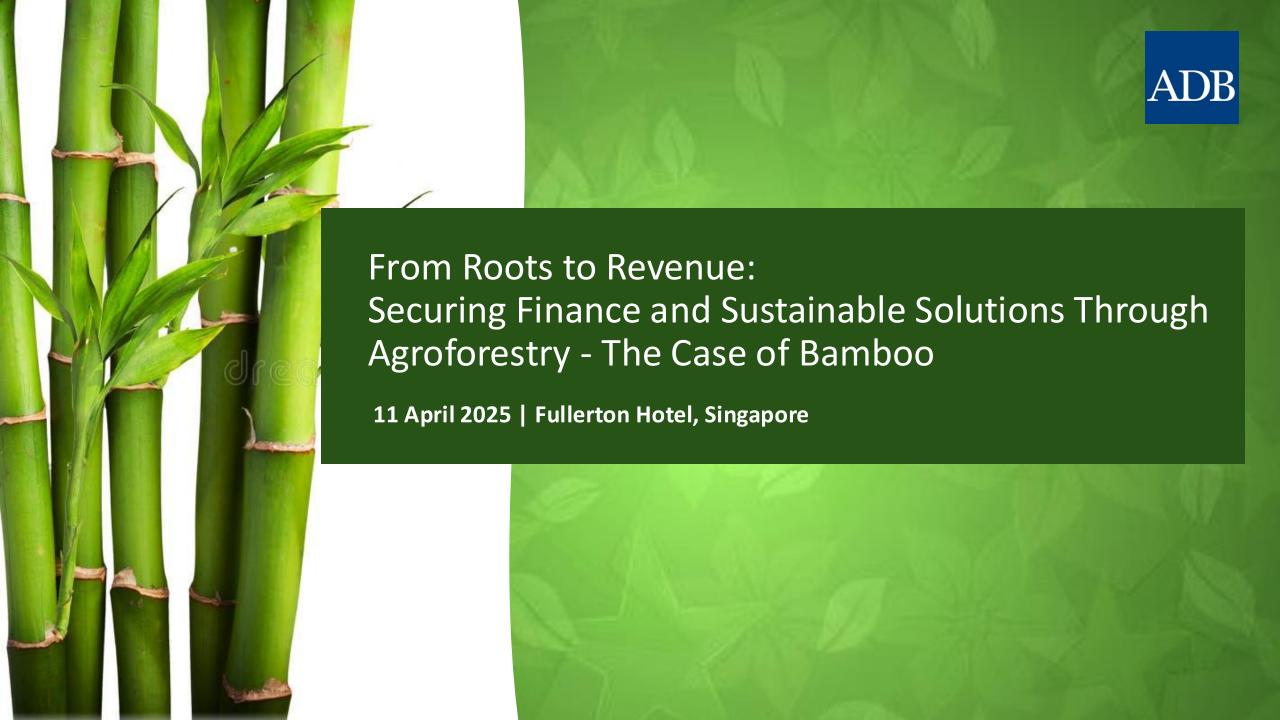
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Welcome Remarks

Christine Engstrom

Senior Director Finance Sector Office Asian Development Bank





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Opening Remarks

Cheryl Marie Natividad-Caballero

Undersecretary for High Value Crops
Department of Agriculture, Philippines





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Insights from Singapore: A Letter from Singapore

Lotte Schou Zibell
CEO
Impact Financial Advisory







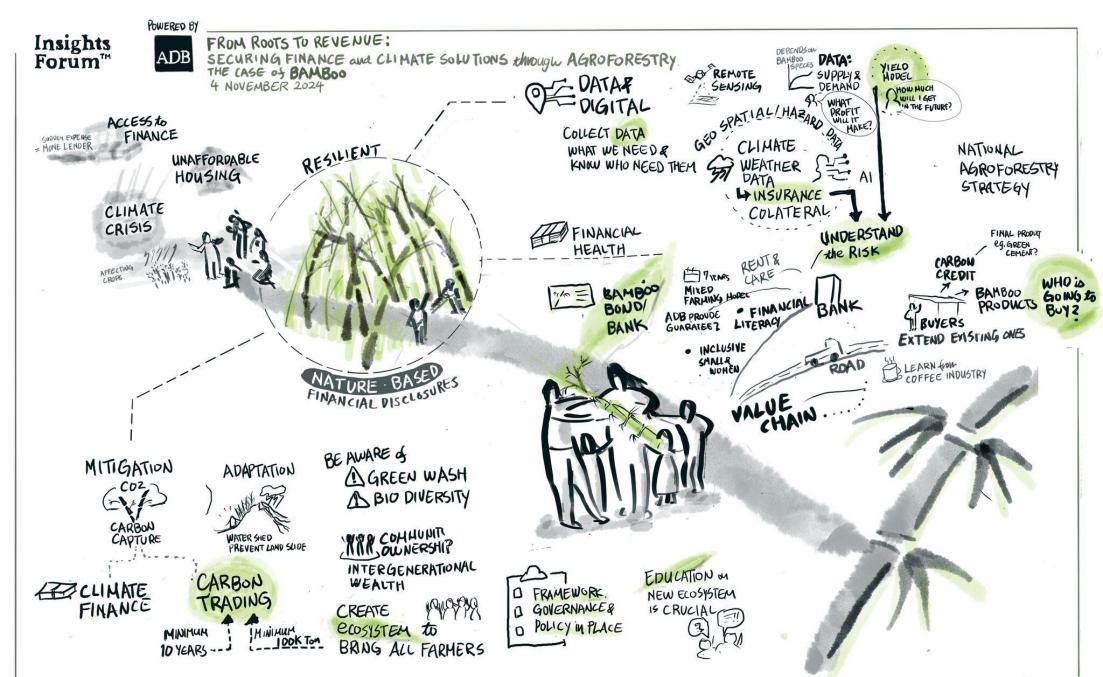
Insights from Singapore

Summary of key findings from the design thinking workshop "From Roots to Revenue: Securing Finance and Climate Solutions Through Agroforestry – The Case of Bamboo"

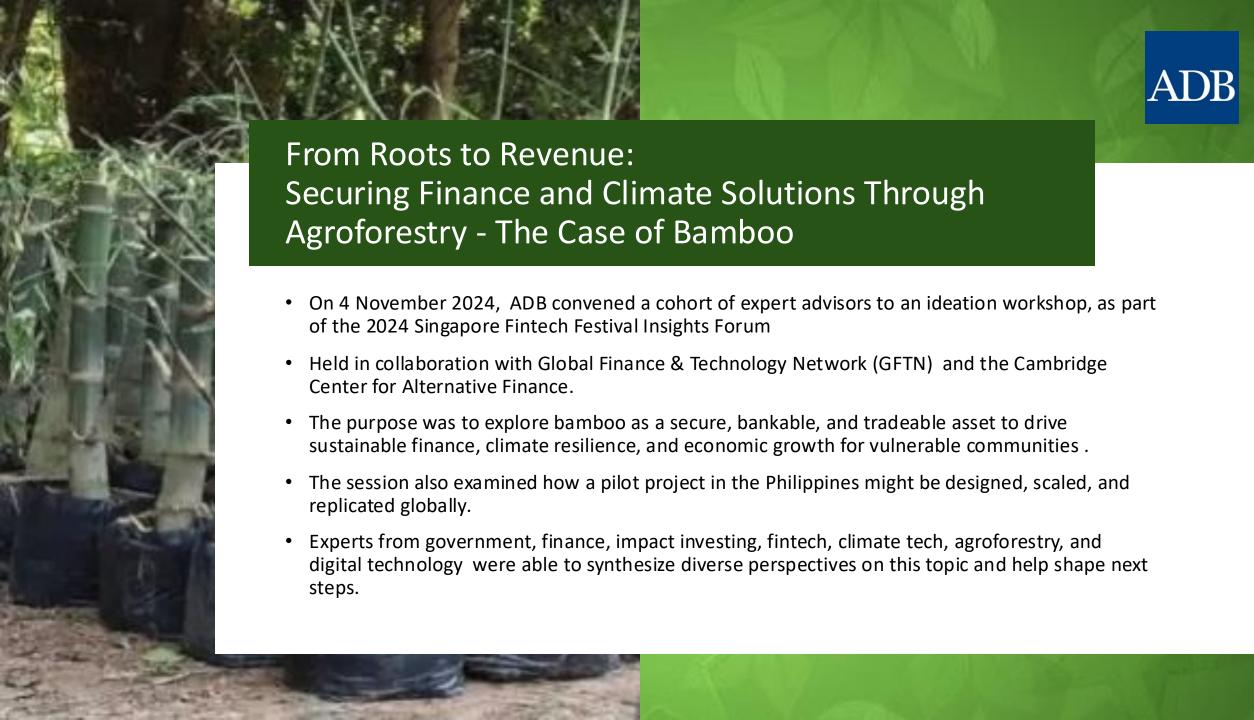
Insight Forum, Singapore Fintech Festival 4 November 2024

Asian Development Bank in collaboration with Global Finance & Technology Network (GFTN) and the Cambridge Center for Alternative Finance





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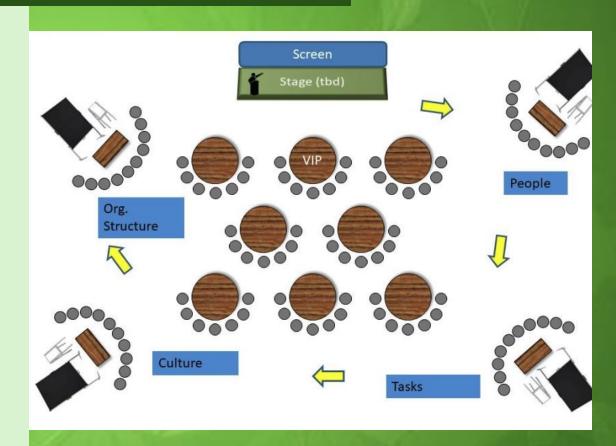
Experts were randomly divided into three groups, which then rotated through three stations, each with a specific focus and two overarching guiding questions

- Station 1: Improving Financial Health
- Station 2: Better Data
- Station 3: Climate Resilience

Participants acted as an advisory group for the project, tasked with giving their best advice and practical recommendations for the station theme.

Each group's answers were recorded and shared using post-it notes on a whiteboard and through audio recordings, which were subsequently transcribed and anonymized.

The key findings for each station are summarized in the following slides.





Overall

Bamboo is a versatile material indigenous to many parts of Asia and the Pacific that has the potential to empower indigenous and grassroots communities to reduce poverty, and at the same time contribute to carbon capture, climate change mitigation, and adaptation.

The strategic use of technology is key to harnessing the transformative potential of bamboo agroforestry, notably the geocoding of bamboo plants, geospatial technology to map areas of bamboo cultivation, and artificial intelligence to support precise asset valuation and predict risks to future yields.

Station 1: Improving Financial Health

To build a sustainable bamboo value chain, farmers need clear land rights, education on crop and financial management, annual cash flow, and reliable data about the market for bamboo and its processed products.

Pre-determined off-take arrangements are crucial to giving farmers the certainty that they need to invest time and money in bamboo agroforestry

Pressure to demonstrate environmental and social impact along the value chain can help stimulate demand for bamboo as a sustainable product.

The enabling environment for this encompasses financial systems, aggregation of harvests and supportive policies.





Station 2: Climate Resilience

- Climate finance can enable bamboo to support climate change mitigation and adaptation building resilient communities at scale
- Affordable, disaster-resilient housing is a good starting point, where bamboo could reduce carbon emissions by up to 80% compared to conventional materials.
- The financial benefit of bamboo's role in creating carbon credits is a much more long-term goal and communities will need to band together to reap multigenerational gains from carbon credits.
- Bamboo-specific instruments such as green bonds, and even bamboo-specialist banks, could emerge.
- Both commercial banks and real estate developers play a crucial role in realizing the potential of bamboo, catalyzed by early-stage support from ADB, and supported by government-level incentives.
- Monitoring investments in planting projects in remote areas is crucial; technology can help, for example, via geotagging of bamboo roots, and remote sensing.









Station 3: Better Data

Data is key to realizing the value of bamboo as a secure, bankable, tradable asset, and data collection has to be carefully thought out to ensure that what is created is of value to farmers, financing entities and other stakeholders.

Geospatial technologies and artificial intelligence tools will play an important role.

Yield models are key, for farmers to know what they can make and for bankers and insurers to calculate risk; they can be adapted from models for other crops.

Supply and demand data are needed to measure, verify, and standardize the financial value of bamboo.

Ten years' worth of land use data is also key for farmers to claim carbon credits.





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Keynote Speech: Bamboo's Role in Sustainability and Climate Solutions

Susanne Lucas

Executive Director World Bamboo Organization (WBO)





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Keynote Speech: Global Bamboo Development

Jayaraman Durai

Director Global Programmes
International Bamboo and Rattan Organization (INBAR)





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Knowledge-Sharing: Overview of Geospatial Technology & Its Use-Cases

Thibaud Vantalon

Deep learning specialist Alliance Bioversity-CIAT





Syams Nashrrullah

Team Leader Asian Institute of Technology



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Coffee Break



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Lightning Talks Stories from Field

David Sands

Founder and Chief Production Officer Rizome Philippines



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Lightning Talks Stories from Field

Camille Rebelo

Co-Founder EcoPlanet Corporation



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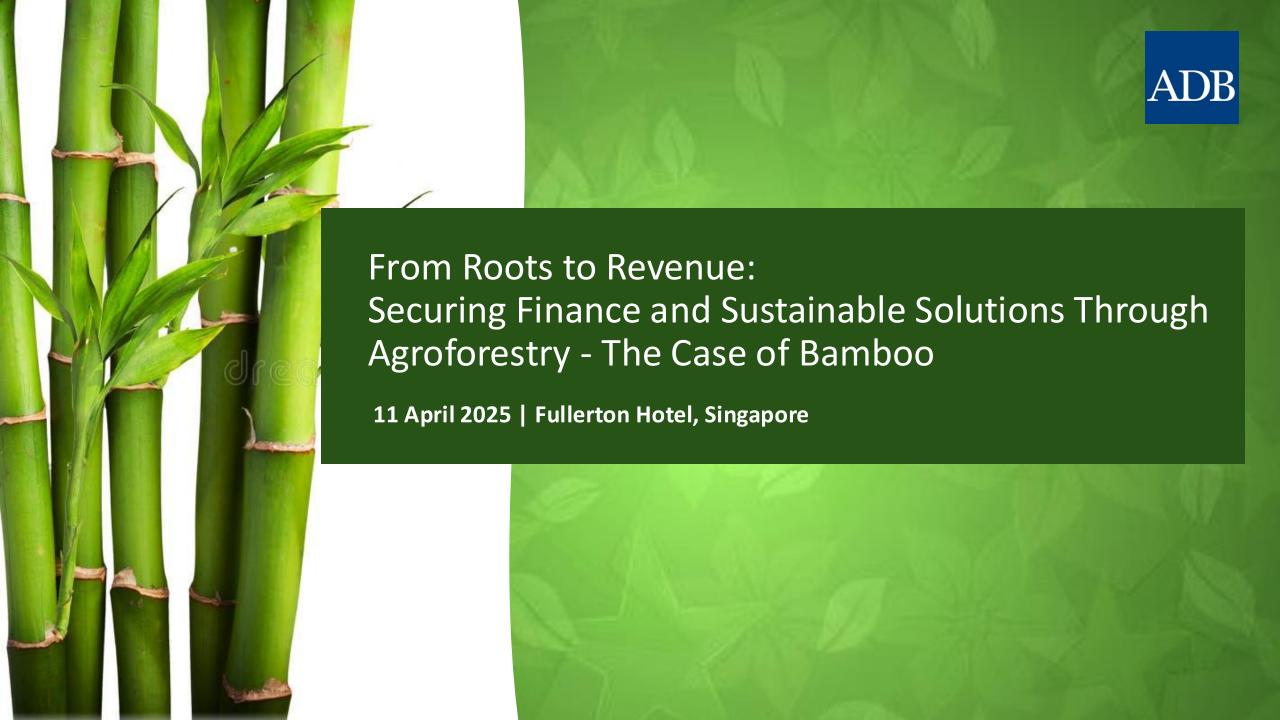
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Lightning Talks Stories from Field

Pablo Jorillo

General Manager Base Bahay







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Lunch Break







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From Pilot to Prototyping: Group Formation

Group 1: Financing Roadmap

Addressing Planting, Transformation, and Offtake

<u>Facilitator:</u> Arvind <u>Resource Persons:</u> Jen and Peter

Group 2: Data Roadmap

Transparency for a secure asset, accurate valuation for a bankable asset, market price discovery for tradeable asset

Facilitator: Tamara
Resource Persons: Lotte,
Paolo, Amit

Group 3: Philippine Roadmap

Focusing on Affordable,
Disaster-resilient, and
Sustainable Housing, or
on Pulp for Sanitary
Products and Cellulosic
Bioethanol

Facilitator: Jost
Resource Persons: Emil
and Hans



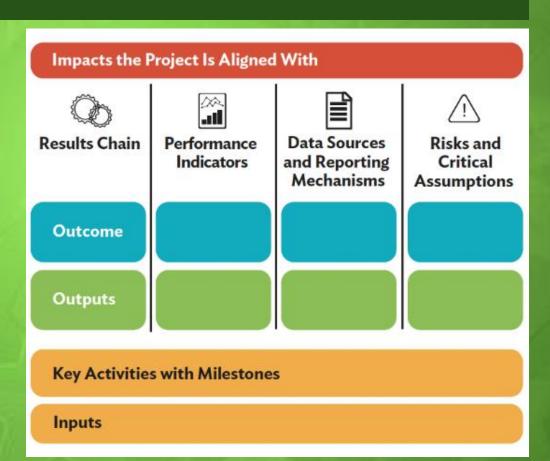
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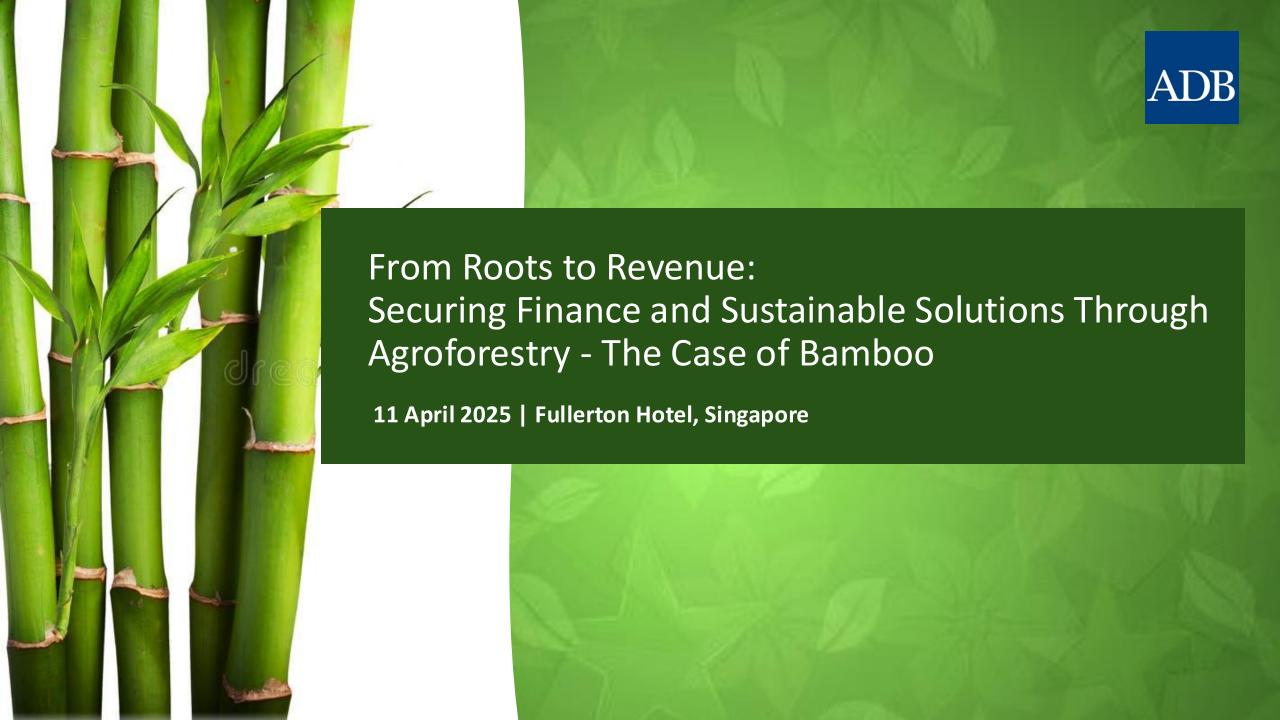
From Pilot to Prototyping: Guiding Questions

Empathize and Define Ideate

Test and Iterate

Prototype





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Closing Remarks

Jackie Surtani

Regional Director ADB Singapore Office





SAVE THE DATE

23-25 September 2025

5th Asia Finance Forum Positioning for the Future

ADB Headquarters, Manila, Philippines

