



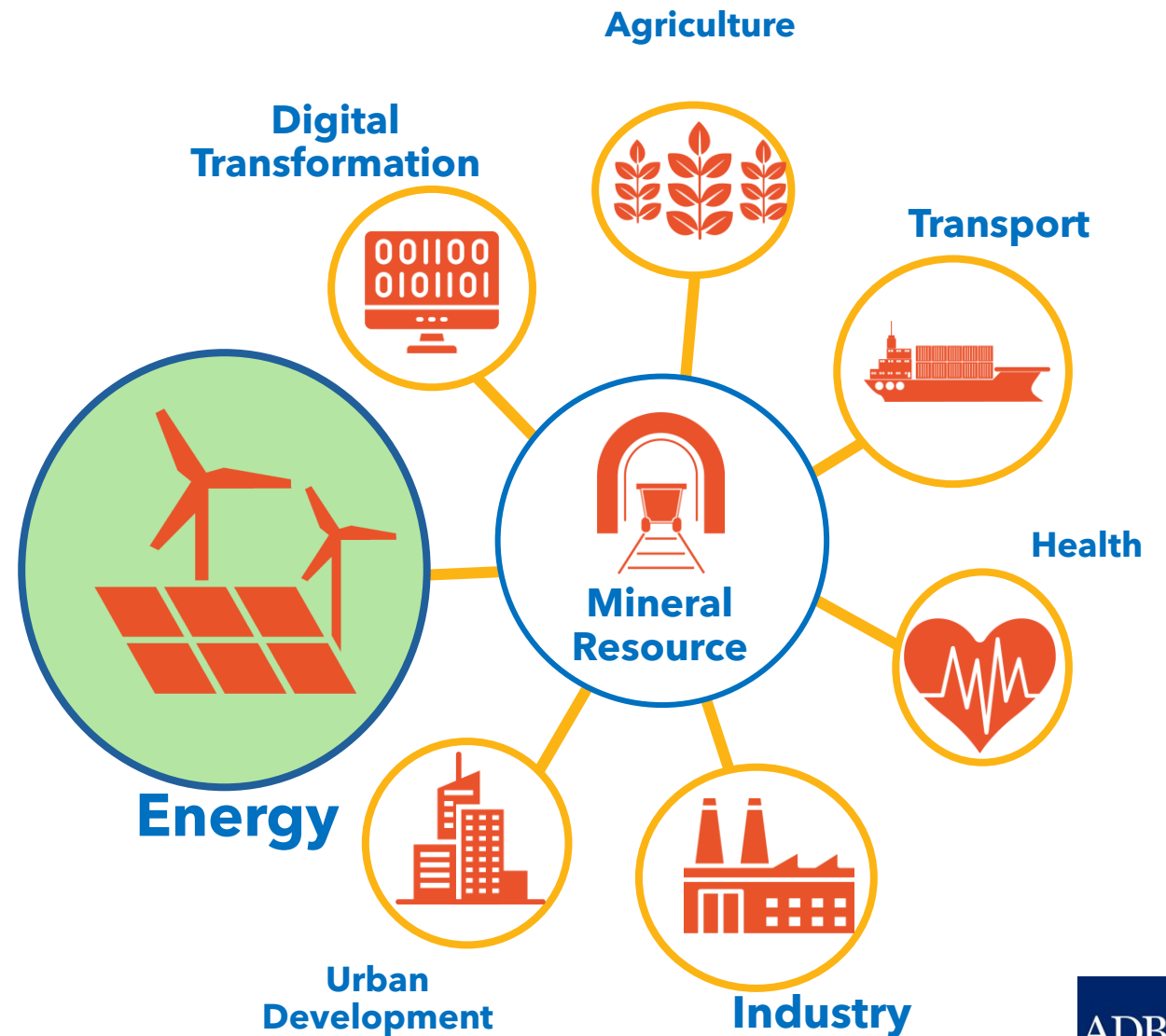
ADB's Proposed Board Direction on Critical Minerals- to-Manufacturing (CMM) Value Chains for Powering Progress, 2025-2029

*2025 Asia PPP Practitioners' Network (APN) Conference
Seoul, Republic of Korea | 23-25 September 2025*



The Critical Minerals Imperative

- Critical minerals are fundamental to the clean energy transition.
- They are key to technologies like solar panels, wind turbines, batteries, and electric vehicles.
- While Energy accounts for the largest share of demand, critical minerals also support development in Transport, Health, Agriculture, and Digital Transformation
- Asia and the Pacific have a crucial role to play.
- ADB is committed to supporting DMCs in harnessing this potential.





The Challenge: Unlocking the Full Potential

DMCs face significant challenges that hinder development of thriving critical minerals to manufacturing value chains - limiting their ability to achieve diversified, resilient, and inclusive economies across all sectors.

- Limited Value Addition and Industrialization
- Weak Value Chain Linkages
- Supply Chain Vulnerabilities
- Unsustainable Practices
- Capacity and Investment Gaps



The Opportunity: A New Growth Engine



- Critical minerals can be the foundation for new industries, new jobs, and new regional value chains.
- If managed sustainably, they can power broad-based economic growth – not just for mining countries, but for manufacturing, technology, and innovation sectors across Asia and the Pacific.
- Getting it right means unlocking a powerful driver of sustainable and inclusive development for decades to come.



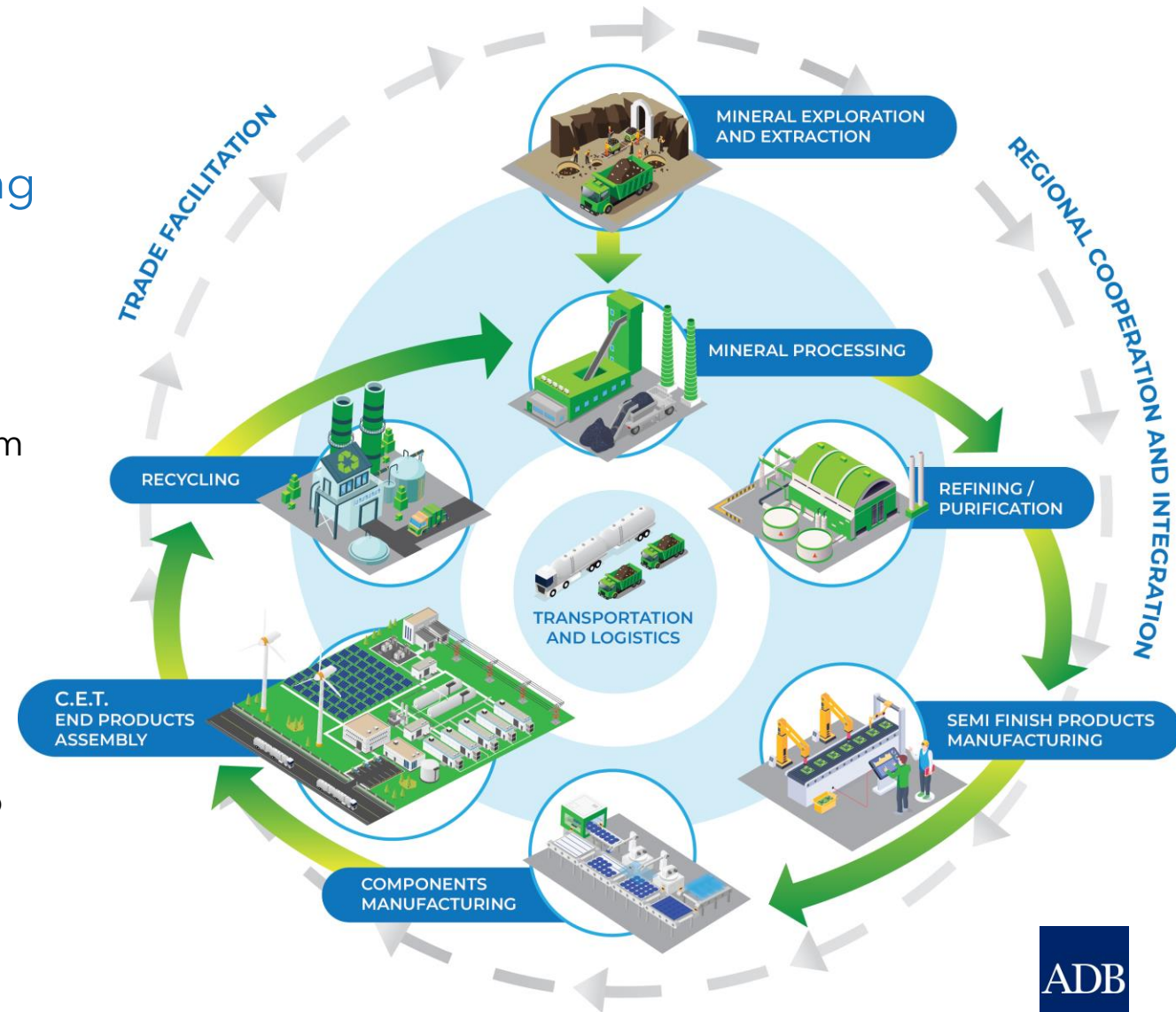


ADB's Strategic Direction

ADB's Vision: Integrated and Sustainable Value Chains

To support DMCs in building diversified, resilient, and inclusive economies by fostering development of thriving critical minerals to manufacturing value chains

- Creating strong and sustainable linkages - upstream (mining) and downstream (manufacturing)
- Promoting domestic and regional processing and manufacturing
- Ensuring environmental and social sustainability throughout the value chain
- Enhancing regional cooperation and integration to build resilient and diversified supply chains



Strategic Focus Areas

Strengthen regional cooperation and integration.

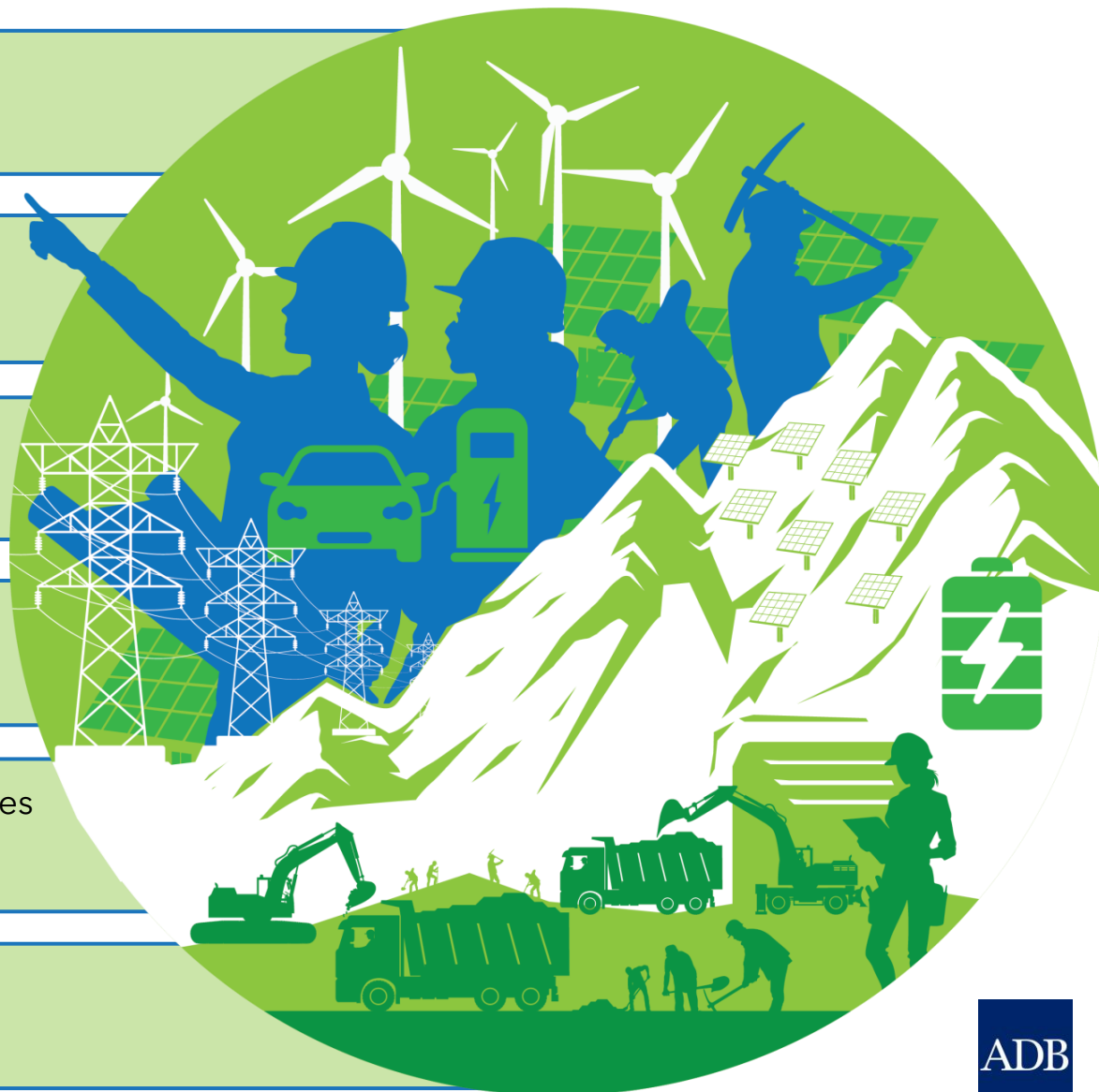
Equip governments with the policies, capacity, tools and resources to manage responsible and sustainable CMM value chain development.

Promote good international ESG practices and support low-carbon development of CMM value chains.

De-risk and catalyse private sector investments for developing CMM value chains adopting a whole-of-bank approach.

Promoting the use of advanced and innovative technologies and digital solutions that support the development of responsible and sustainable CMM value chains.

Enable a significant shift to greater recycling and circularity.





PHASE 1

Nonsovereign

- **Long-tenor debt for land-based industrial scale mining;** working with other multilateral development banks and experienced international financial institutions
- **Debt and equity investments in CET and advanced technology manufacturing and recycling;** associated infrastructure solutions (low carbon-power, water supply, green industrial parks, multi-nodal transport and logistics solutions)
- **Catalytic solutions,** including Partial Risk Guarantee, Partial Credit Guarantee, Risk Participation, and Trade and Supply Chain Finance Program
- **Transaction Advisory Services** and **Technical Assistance** through AP3F

Regional Financing Facility for technical assistance and catalytic financing solutions

Sovereign

Through country programming include **CMM support:**

- **Project loans for infrastructure investments by sovereigns**
- **Policy-based Loans, Sector Development Program**--policy framework for CMM sectors
- **Project Readiness Facility** for geological surveying and project packaging
- **Technical Assistance** for capacity building, institutional development, and strategic studies
- **Regional Cooperation and Integration**--trade facilitation; economic corridor development, and policy dialogue

AP3F = Asia Pacific Project Preparation Facility; CET = Clean Energy Technology; CMM = Critical Minerals to Manufacturing; ESG = Environment, Social and Governance;

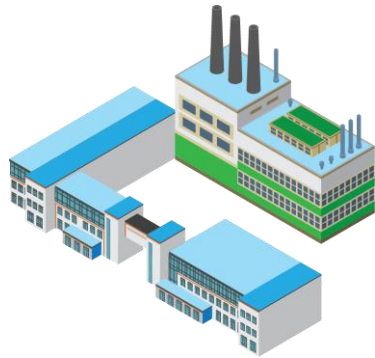


Operationalizing the Strategic Direction



Resourcing the Approach – Building Strategic Partnerships

Industry and Trade Associations



- Mining majors
- Mining Management and Rehabilitation Institutions
- Industry Bodies
- Technology Providers

Knowledge Institutions



- Geological surveys
- International Energy Agency
- Critical Mineral Associations
- International research institutions

International Organizations



- United Nations
- Extractives Industry Transparency Initiative
- International Labor Organization

Investors and Financial Institutions



- MDBs / DFIs
- EX-IM banks
- Commercial Financial Institutions
- Strategic investors

Potential Partners

- **Source existing solutions**
- **Co-create new and tailored solutions**

- **Crowd-in and de-risk investments**
- **Bridge current capacity gaps**

DFIs = Development Finance Institutions; EX-IM banks = export-import banks; MDBs = multilateral development banks



Thank you.

Designated Focal Persons:

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Annex





ADB CMM Support - What has been done to date



ADB CMM Support - What has been done to date

ADB knowledge support:

- 2023/24: RCIT Innovation Webinar Series
- 2023: Renewable Energy Manufacturing: Opportunities for Southeast Asia
- 2023: Mongolia: TA Climate-Smart Mining for a New Climate Economy
- 2023. India: Mine to market: critical minerals supply chain for domestic value addition in lithium-ion battery manufacturing
- 2024. Regional TA Advance Sustainable Clean Energy Network for Development (ASCEND)
- 2025 Policy Brief: Advancing Resilient and Sustainable Development of Critical Minerals in Asia and the Pacific
- 2025: Ramping up Local Manufacturing for Wind Turbines in India Report

ADB lending support:

- 2023: Indonesia: Competitiveness, Industrial Modernization, and Trade Acceleration Program, Subprogram 2
- 2022: Philippines: Wyntron Electric Vehicle Charger Production Expansion Project.
- 2023: Viet Nam: VinFast Electric Mobility Green Loan Project.

