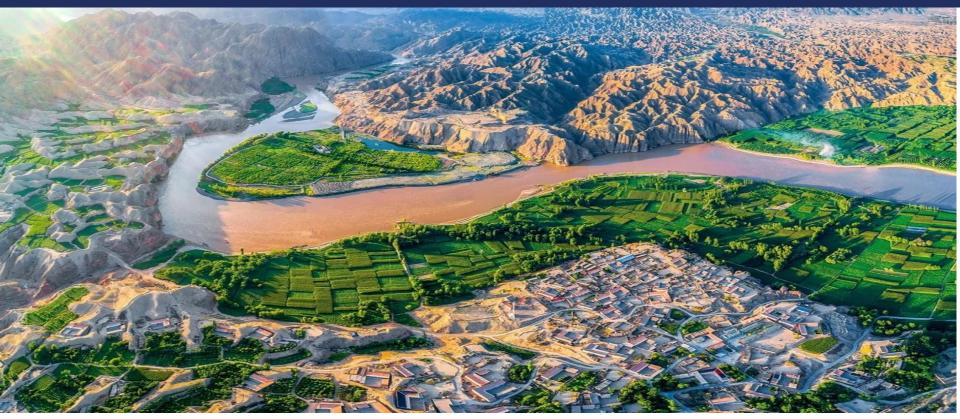
### Programmatic Management of Natural Capital from Source to Sea The Yellow River Ecological Corridor Program (ADB-YREC)



INBO Basin Segment Day: High Level Session on Better Integration of Ecological Security in Basin Level Approaches 10<sup>th</sup> World Water Forum, Nusa Dua, Indonesia, 22 May 2024

Tom Panella, PhD Chair of the Action Platform for Source to Sea Management (hosted by SIWI)



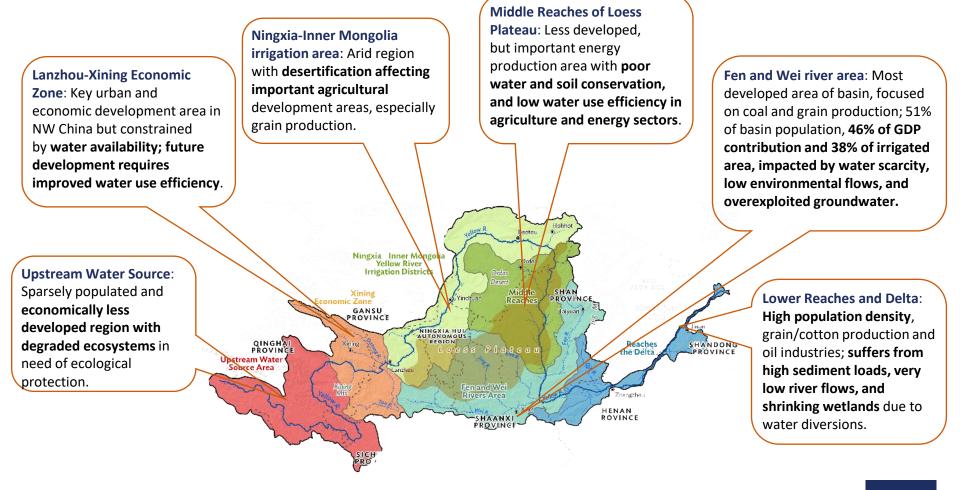
## **Ecological Corridor as Basis for Sustainable Development**

River basins if well-managed, are vital natural ecological corridors. Healthy ecological corridors generate positive impacts for the **environment**, **economic growth**, **social well being**, and **climate change goals**:

- maintain biodiversity
- watershed, river and wetland health to mitigate water related disasters and improve water quality
- provide economic and ecosystem services to benefit humans and aquatic and terrestrial environments and biota
- provide a healthy and safe environment where people can thrive
- create resilience to mitigate climate change impacts

An Ecological Corridor is a space that is governed and managed over the long-term to maintain or restore ecological connectivity and ecosystem integrity.

# Yellow River Basin's Diverse Challenges





INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

# ADB's YREC Program's Strategic Approach

- An integrated approach from source to sea through natural resources management, environment and ecological conservation, and climate change to support high-quality, green development, institutional and policy reforms, and leveraging knowledge and innovation.
- To protect and restore the Yellow River basin's diverse and fragile aquatic and terrestrial ecological zones and ecosystems and to enable more equitable and sustainable rural-urban economic development across the basins
- Expand on operational experience of a strategic programmatic approach from in the Yangtze River basin to maximize catalytic and systemic impacts through targeted project investments though lending and non-lending support for a significant economic and ecological region to support the environment, green growth and the generation of regional and global public goods.

Four YREC Thematic Areas for ADB Engagement: Aligned with ADB and PRC Priorities, Strategies and Policies



# Water and natural capital management, biodiversity conservation, and nature-based solutions

- Wetlands, grassland and forest restoration and conservation
- Supporting ecological protection and enhancing basin biodiversity
- Comprehensive water resources management to improve quality, quantity and allocation



### Sustainable and efficient agriculture and value chains

- Enhancing efficiency and productivity of agricultural water use
- Piloting circular, climate-smart and regenerative agricultural best practices
- Agricultural non-point source pollution control
- Application of ICT to enhance market connectivity



#### **Climate change mitigation and adaptation**



- Strengthening climate resilience and risk management frameworks and policy
- Integrated approaches for basin-level flood and disaster risk management
- Use of climate-smart agricultural and value chain practices
- Use a landscape approach to integrate natural, social and economic considerations to achieve climate change goals

#### Integrated urban-rural green development and circular economy

- Improved wastewater and solid waste management
- Rural vitalization and integrated economic development and pollution mitigation (air, water, soil, marine)
- Focus on the 3 Rs and transforming waste to a resource
- Improve social and economic development equity from upstream to the Bohai Sea



INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

## **River Basin Framework Approach – Three Principles**



Institutional Strengthening



Innovative Finance and Approaches



#### **Knowledge Management**

- Improved governance and institutions – integration vertically and horizontally
- Policy reforms and incentive mechanisms – Yellow River Basin Law
- Cooperation frameworks and enabling environments
  - supporting Yellow River
     Basin Conservancy
     Commission
- Provide a convening
   platform for all stakeholders

- Private sector solutions
- Eco-compensation and payment for eco-system services
- FIL for climate and nature objectives
- Land value capture for environmental finance
- Applied data and technology – decision support
- Project pilots
- Catalyze change at scale

- High-quality knowledge generation and dissemination
- YREC Seminar Series
- International PES and Ecocompensation Conference
- Capacity building as all levels
- Regional cooperation
- Multi-stakeholder platforms
- Strategic partnership



INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

Large Knowledge Program to Leverage Lending
1. Policy reforms and institutional strengthening
2. Innovative finance and integrated approaches
3. Knowledge, partnerships, and capacity building

ADB Non-lending \$4.8 million

15 TA subprojects in thematic areas of the YREC Program to innovate investments

December 2020 to November 2027

ADB Lending - \$1.1 billion – 6 projects to date Total investment over double this amount Knowledge, institutional and capacity development

Water sector assessment, Yellow river master plan, basin law and eco-compensation

Ecological restoration, biodiversity conservation plan, protected areas planning, sustainable grassland management

Climate change adaptation basin plan, valuation tools and ESG standards

> Cluster KSTA





# Thank You Tom Panella tpanella@gmail.com

For the latest information on the S2S Platform visit: https://siwi.org/source-to-sea-platform/

Subscribe to our newsletter and follow us on LinkedIn or X

Or contact us: <u>s2splatform@siwi.org</u> ; <u>ruth.mathews@siwi.org</u>