



Inclusive Sustainable Rice Landscapes

Securing multiple environmental benefits and improved farmer welfare



Food and Agriculture
Organization of the
United Nations



wbcasd



Implemented by
giz
Technische Dienstleistungen
für internationale
Zusammenarbeit (GIZ) GmbH



Why Rice?

- Daily **staple** for >3.5 billion people
- **19%** of global **calorie** supply
- **Livelihoods** for >1 billion people
- Produced on **160 million hectares**
- **15%** of world's **wetlands**
- Uses **40%** of world's **irrigation** water
- 10% of global **methane emissions**

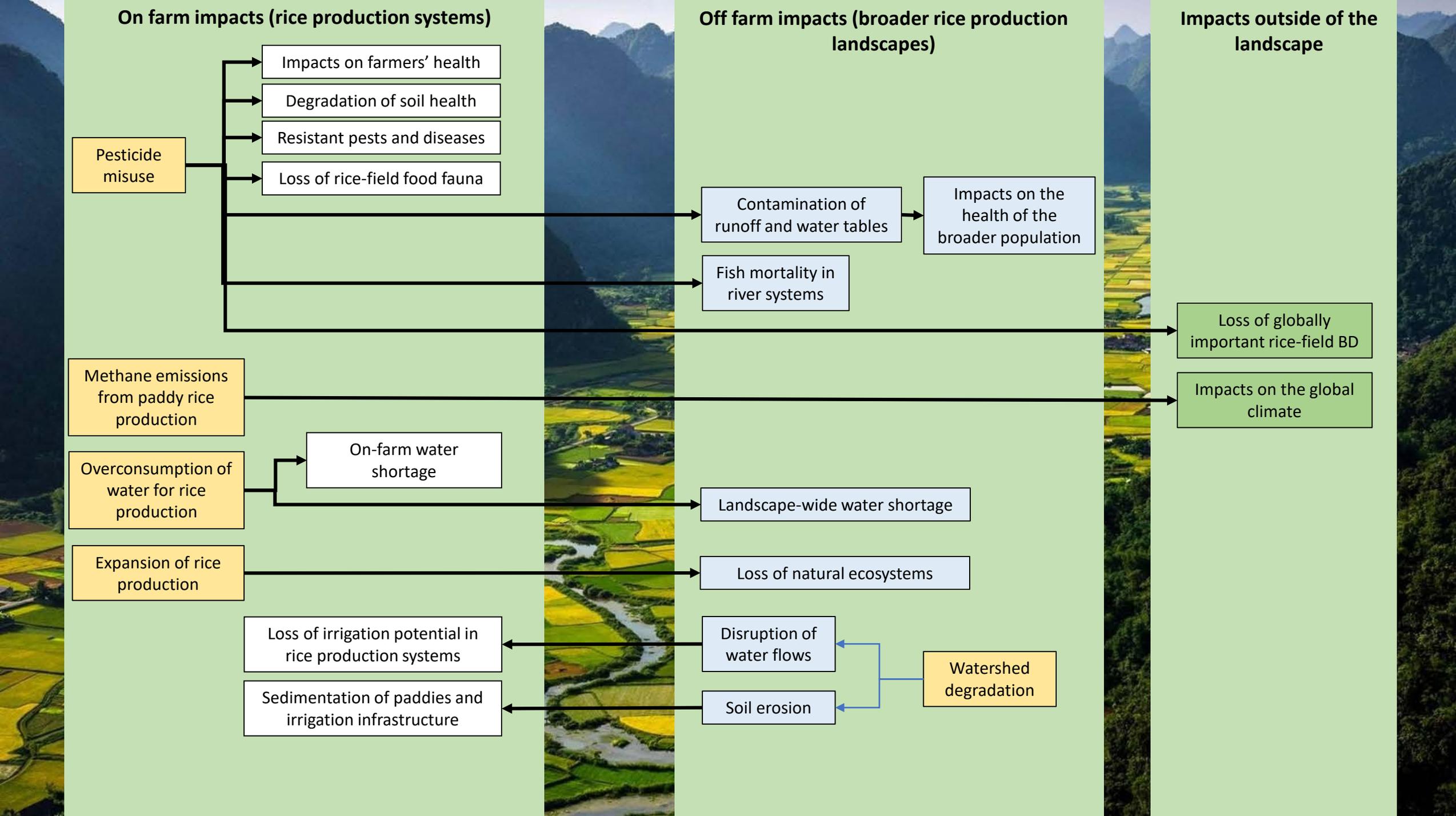


Why Rice?

By 2050:

- **Production** needs to **increase** by **25%** to meet demand
- 15-20 million hectares may suffer **water scarcity**







Food Systems, Land Use and Restoration
Global Impact Programme

- Promoting **sustainable food systems** to meet growing global demand
- Promoting **deforestation-free agricultural commodity supply chains** to slow loss of tropical forests
- Promoting **restoration of degraded landscapes** for sustainable production and to maintain ecosystem services

Inclusive Sustainable Rice Landscapes
County Programmes

- **Sustainable management practices** in rice-based production systems
- **Market-based instruments** supporting sustainable production
- **Landscape management** for ecosystem services

A vertical stack of logos for partner organizations. From top to bottom: UN environment (United Nations logo), FAO (Food and Agriculture Organization logo with 'FIAT PANIS'), wbcSD (World Business Council for Sustainable Development logo), SRP Sustainable Rice Platform (Sustainable Rice Platform logo), IRRI (International Rice Research Institute logo), and giz (German Research Aerospace Establishment logo).



Value of a landscape approach

- Recognition that the **root causes** of problems may **not** be **site-specific**
- **A combination of natural resource management** with environmental and livelihood considerations
- Consistent with a **systems view** of environmental management
- Encourage early assessment of **trade-offs** and **innovation** in applying solutions

Inclusive Sustainable Rice Landscapes Approach

Value chains

- Commodity platforms
- CSR
- Marketing and value adding
- Improving farmer linkages
- Certification systems

Water accounting

- Markets**
- Sector sustainability standards
 - Public awareness/brand building
 - Green value chains

Green infrastructure

Restoration

Farmer-based approaches

- Direct investments
- Financial instruments
- Land use planning
- Governance
- Technical capacities

Landscapes:
Protected and restored landscapes providing ecosystem services

- Crop management**
- Alternate wetting/drying
 - Fertilizer management
 - Improved seed (including traditional)
 - Sustainable diversification
 - Traditional production systems

- Extension services
- Farmer capacities
- Farmer field schools
- Seed supply
- Seed fairs

Land use planning

Agro-pollutant management

Inclusive Sustainable Rice Landscapes = Environmental and Social Benefits

Healthy watersheds,
biodiversity protection

Agricultural
biodiversity

Diverse,
sustainable
livelihoods

Water use efficiency

Resilience

Reduced
agrochemical
pollution

GHG reductions



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Country Programmes Under Development

India



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Thank you