

TEEBAgriFood Thailand

Measuring what matters in sustainable rice production



















Sustainable Rice Platform

Sustainable Methods

- Good Agricultural Practices
- Organic rice practice
- Sustainable rice





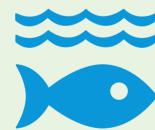










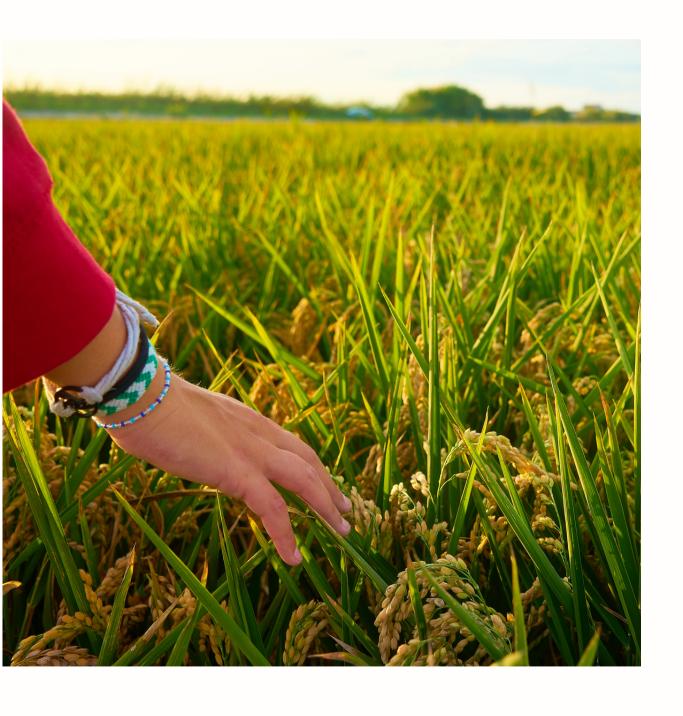


Sustainable Rice

- Health
- Ecosystem
- Environment
- Livelihood



Analysis of policy gaps and options for assessment



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assessment



To calculate overall impact of SRP standard for sustainable rice cultivation in Thailand in terms of impact on natural, human, social and produced capitals.

Incentives



Set of incentives in order to change to sustainable rice.

Indicators



To expand the focus from productivity, livelihood development, and growth, to integrate a balanced holistic of indicators on environmental sustainability and public health and wellbeing.



To calculate overall impact of adopting SRP standard for sustainable rice cultivation in Thailand



Produced capital



Human capital



Natural capital



Social capital

TEEBAgriFood assessment

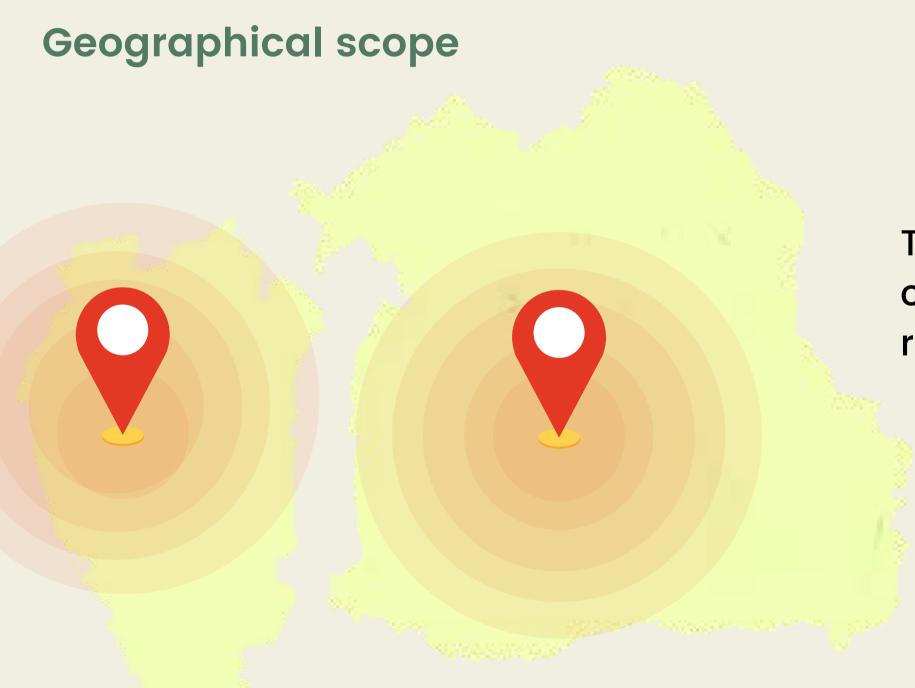
Policy Questions



- What would be the additional value and overall impact of adopting SRP standard for sustainable rice cultivation in Thailand in terms of impact on natural, human, social and produced capitals?
- What is the public sector return on investment (ROI) in pro-nature production?



Research scope



The Central and Northeast region covers more than 80 percent of the rice cultivation area in Thailand.





Research scope

Management practice scope



NUTRIENT MANAGEMENT



PEST MANAGEMENT



RICE STRAW MANAGMENT



DIVERSIFICATION



- Water footprint
- GHG emission
- GHG emissions
- Cost of cultivation
 Cost of cultivation
- Rice yield

- Biodiversity
- Human health
- GHG emissions
- Air pollution
- Human health
- GHG emissions
- Bioviversity
- Rice yield
- Cost of cultivation

TEEBAgriFood framework



Produced capital

- Cost/income
- Profit



Natural capital

- Biodiversity
- GHG emissions
- Water footprint



Human capital

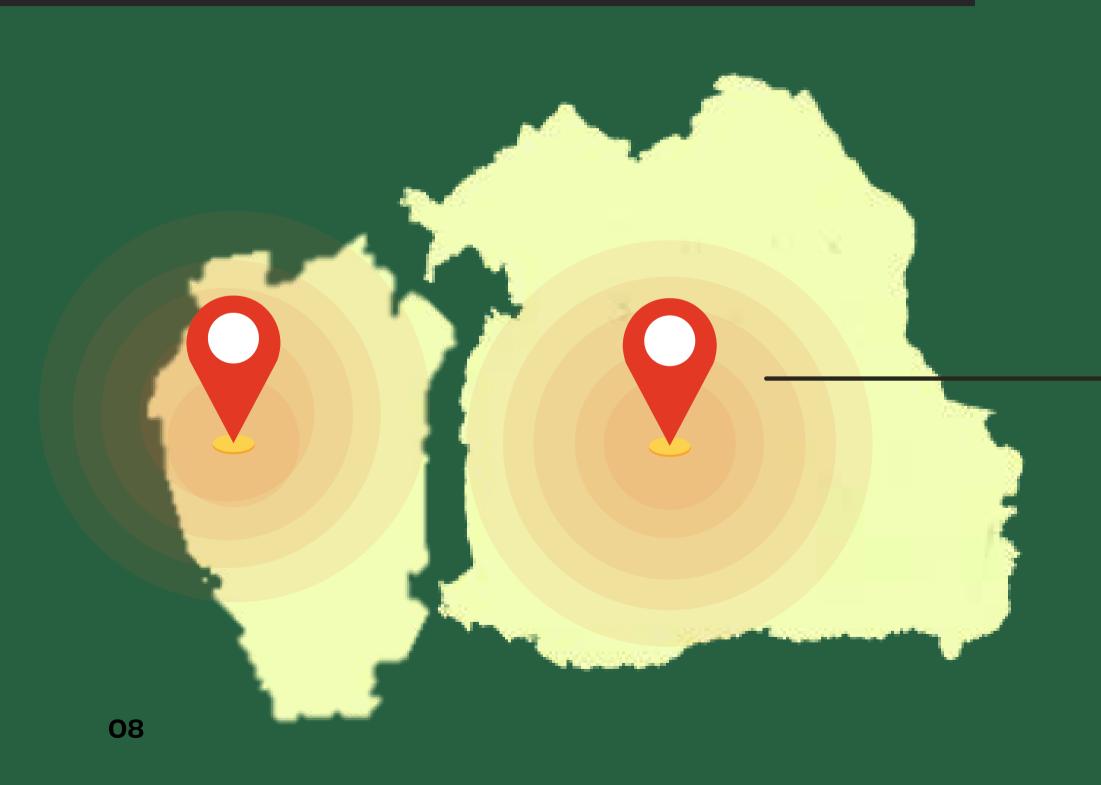
- Health
 - Pesticide
 - Air pollution
- Knowledge



Social capital

- Trust
- Group cooperation

Scenario Development



Scenario analysis land platform
 change to sustainable rice in
 Northeastern and Central Thailand.

Scenario Development

Based on current policies and farmers' decision

- Thailand's 20-Year National Strategy (2018-2037) goals
- Bio- Circular and Green Economy (BCG) national agenda
- Mechanism to lead farmers' decision to SRP adoption





To reorient and identify incentives that could encourage farmers to adopt sustainable rice practice



Policy Questions



- What would be the systemic impacts of a change or reorientation of agricultural subsidies towards direct support of nature-positive production methods in the rice sector?
- How do small holders benefit from adoption of practices promoted by SRP/GAP++? How do other stakeholders benefit? Where could incentives be most equitably directed to encourage good practices?
- What would be the additional value and overall impact of other specific policy incentives or investments?

Incentives matter

 Incentives to reduce risk, especially during the transition period, are important.

 Forms of incentives are also important.





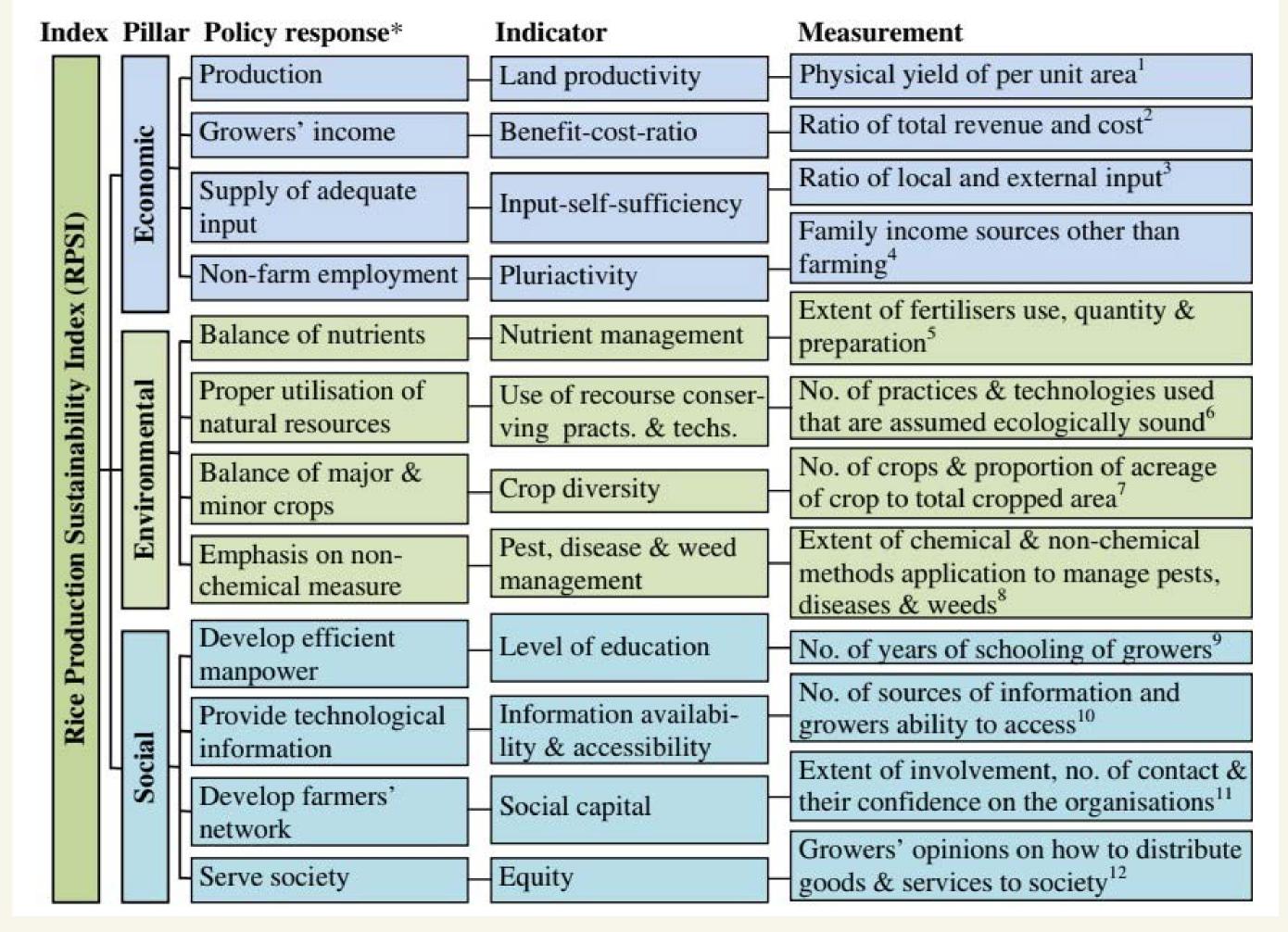
To identify policy achievement in a balanced holistic set of indicators that focus not only on productivity, livelihood development, and growth, but also on environmental sustainability and public health and wellbeing.





Policy Questions

- Which are critical sustainability indicators at national level for successful agrifood policy achievement in the next 20 years?
- Which natural and human capital costs and benefits need to prioritized to support the transformational shift to sustainability by 2030?





















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