



Practical Approaches to Sustainable Intensification

Socio-economic Intensification

- Creating enabling environments
- Markets
- Building social capital
- Building human capital
- Creating sustainable livelihoods

Ecological Intensification

- Intercropping
- Integrated Pest Management
- Conservation farming
- Organic farming

Genetic Intensification

- Higher yields
- Improving nutrition
- Resilience to pests and diseases
- Resilience to climate change
- Creating sustainable livelihoods



Program for Sustainable Intensification

Inputs

INDIRECT:

- Financial capital
- Knowledge
- Infrastructure
- Technology
- Markets

DIRECT:

- Labour
- Water
- Inorganic chemicals and/or organic matter
- Biodiversity

SUSTAINABILITY MEASURES

- Same or less land and water
- Efficient, prudent use of inputs
- Minimised GHG emissions
- Increased natural capital
- Strengthened resilience
- Reduced environmental impact



INTENSIFICATION PROCESS

- Ecological
- Genetic
- Socio-economic

Outputs

**Production Income Nutrition
Ecosystem Services**



- Integrate research outputs, policy and nutrition
- Focus multiple interventions within target regions
- Diversify crop & livestock systems
- Evaluate and disseminate improved soil and water management practices

Example Projects:

- Integrated Pest Management Innovation Lab
- Africa RISING
- Cereal Systems Initiative for South Asia
- Sustainable Intensification Innovation Lab
- Innovation Lab for Small-scale Irrigation



Roundtable discussion themes:

1. Leveraging multiple Innovation Labs for systems scaling ----
Utilizing existing innovation platforms, research networks, participating communities, farmer organizations, scaling efforts
2. Using ILs collectively to obtain more and better nutrition-relevant information—minimum data sets?
3. Reducing adoption risks for small holder typologies.
4. Use of modeling tools (e.g., SWAT) across ILs to more consistently address NRM, nutrient, and risk issues across ILs
5. Developing a minimum data set of SI indicators



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The U.S. Government's Global Hunger and Food Security Initiative

