

The Rice Economy in Myanmar and Relevance for the Delta

Keynote Presentation by

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Roundtable Meeting on

Rice Sector in the Lower Delta: Creating a More Enabling Sustainable Environment

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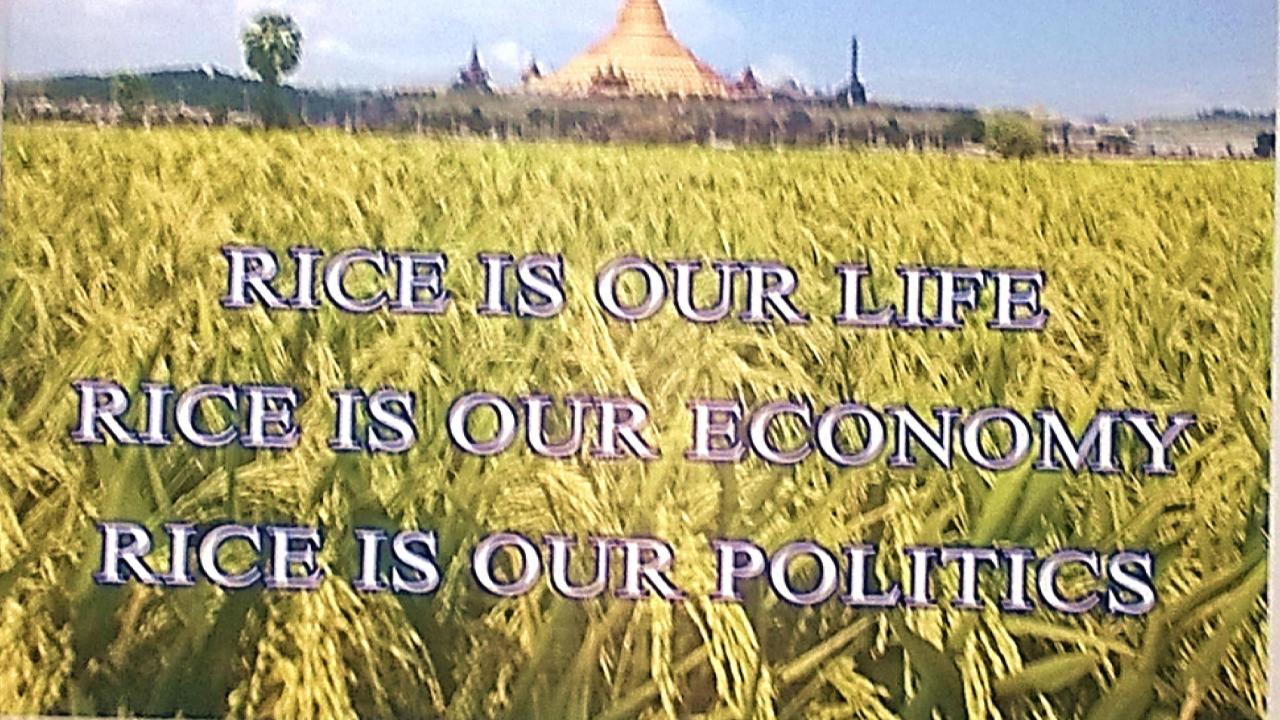


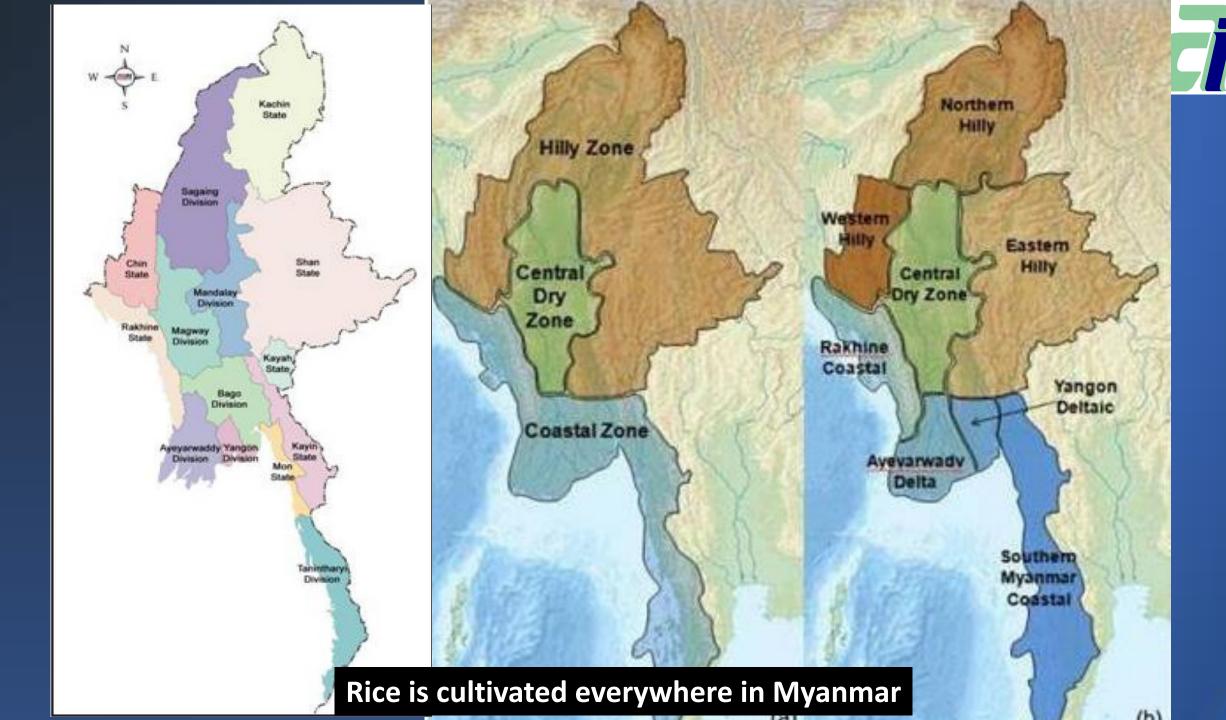
OUTLINE

- 1. Importance of Rice in Myanmar
- 2. Rice Centric Agriculture
- 3. Towards Rice Farming Systems and Rice Value Chain
- 4. Linking Regional and National Strategies
- 5. Implications for Ayeyarwaddy



1.IMPORTANCE OF RICE IN MYANIAR





Importance to the:	Item	Value
Economy	GDP rice (USD)	USD 7,000 million
	Percentage of GDP and AGDP (%)	13% of GDP and 43% of Agricultural GDP
	Exports	USD 600 million
Production	Percentage of Cultivated Area	45%
Food Security and Nutrition	Total daily dietary energy requirement	73% (urban) and 80 % (Rural)
	Food Budget	25% of the consumption of richer hh and 50% of the consumption of poorer hh

Backward and Forward Linkages from Rice Production



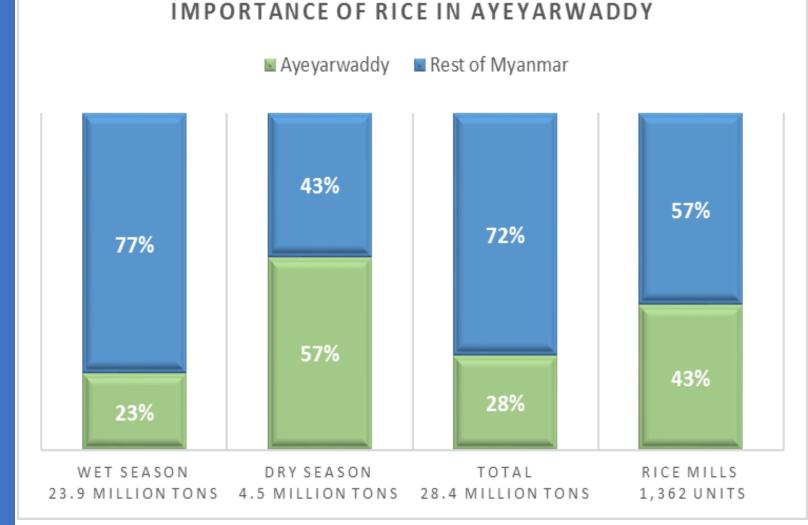
- Input Suppliers
- Equipment Traders
- Finance
- Maintenance
- Ag. Insurance
- Transportation
- Storage
- Packaging Industry
- Distribution



- Warehouses
- Transportation
- Trade
- Services
- Export Services
- Port Infrastructure
- Road construction
- Packaging Industry
- Finance
- Milling Industry
- Food Processing (noddle...)



Importance of Rice in Ayeyarwaddy





2. RICE CENTRIC AGRICULTURE



Rice is at the center of most efforts done in agriculture

1

Most of the Investment

2

Most of the Extension

3

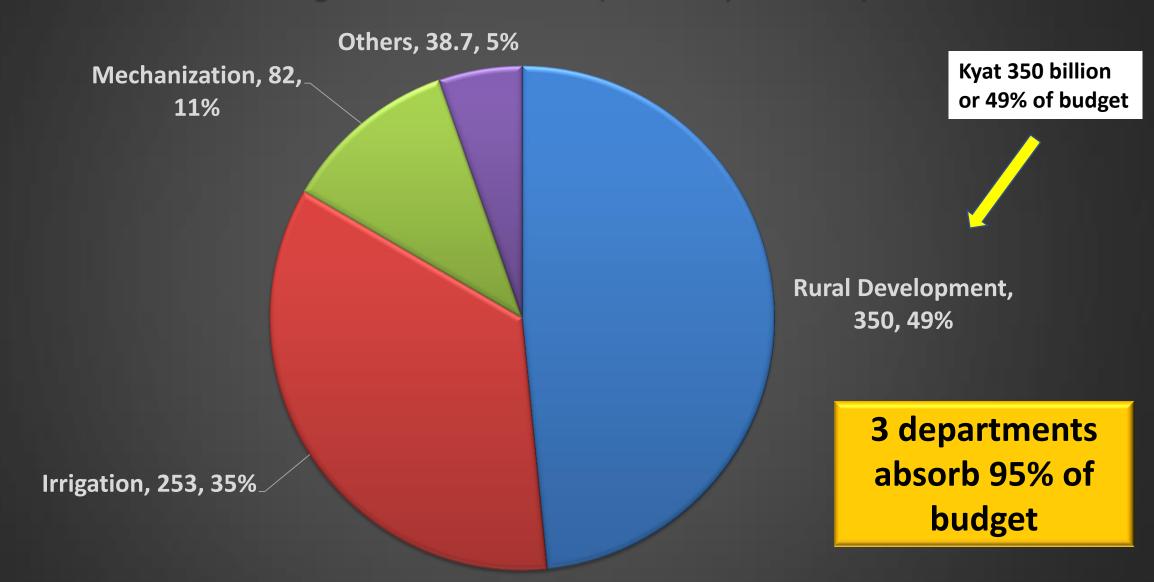
Most of the Research

4

Most of the Credit

Existing Investment Budget

Budget MOALI 2016-17 (Billion Kyat and %)





Agricultural Credit

• MADB provides about Kyat 1,000 billion to farmers for rice cultivation (currently Kyat 150,000/acre).

• This could basically finance most of the cost of production (inputs and hired labor) of the entire rice production.

 In comparison MFI provide about 200 billion of credit overall (not just to farmers)

Micronutrient Deficiencies

• Even in the food and nutrition security debate, most of the emphasis is on rice.

 When micronutrient deficiencies are identified, one preferred solution is through "rice" fortification, rather than promoting non-rice foods (animal products – livestock and fisheries) or fruits and vegetables, nuts and oilseeds.



3. TOWARDS RICE FARMING SYSTEMS AND RICE VALUE CHAIN

Rice Farm Budgets in Different Eco-Regions of AYEYARWADDY

		Wet Season			
	Wet Season	Brackish	Wet Season	Wet Season	Dry Season
RICE BUDGET	Salt Water	Water	Fresh Water	Ayeyarwaddy	Salt Water
REVENUE (MMK)	201,425	252,926	207,950	220,889	315,118
Inputs	41,570	46,446	35,713	41,241	83,581
Hired labor	47,855	55,089	52,977	52,000	37,560
Services	64,993	36,191	38,019	46,283	55,826
GROSS MARGINS (MMK/acre)	43,671	112,225	78,504	78,351	134,328
Family Labor	60,297	42,955	39,090	47,366	24,597
NET MARGINS (MMK/acre)	(16,626)	69,270	39,144	30,895	109,731
Yield (kg/acre)	846	1,266	1,112	1,076	1,476
REVENUE PER FARM (MMK)	(76,480)	311,715	262,265	167,367	888,821
Return to Labor (MMK/day)	1,753	3,214	2,435	2,472	8,279

Other Crops Farm Budgets in AYEYARWADDY



	Black Gram	Black Gram	Green Gram	All Grams	Maize
OTHER CROPS	Brackish	Fresh water	Brackish	Ayeyarwaddy	(4 provinces)
REVENUE (MMK)	210,087	180,094	387,006	206,874	474,010
Inputs	37,382	25,086	47,619	32,093	54,619
Hired labor	39,538	28,102	47,277	34,505	33,784
Services	21,046	10,346	26,581	16,228	36,218
GROSS MARGINS (MMK/acre)	110,005	115,131	269,034	122,621	346,585
Family Labor	14,514	8,455	20,037	11,938	46,203
NET MARGINS (MMK/acre)	95,491	106,676	248,997	110,683	300,383
Yield (kg/acre)	286	451	562	383	668.794
REVENUE PER FARM (MMK)	102,175	81,074	219,117	99,435	210,268
Return to Labor (MMK/day)	6,409	10,130	12,604	8,602	15,009



Two conclusions from the analysis of farm budgets in Ayeyarwaddy

01

Income of smallholder farmers from rice is low

02

Productivity in terms of land, labor, and yield is low

From Rice Farming

To

Rice Farming Systems

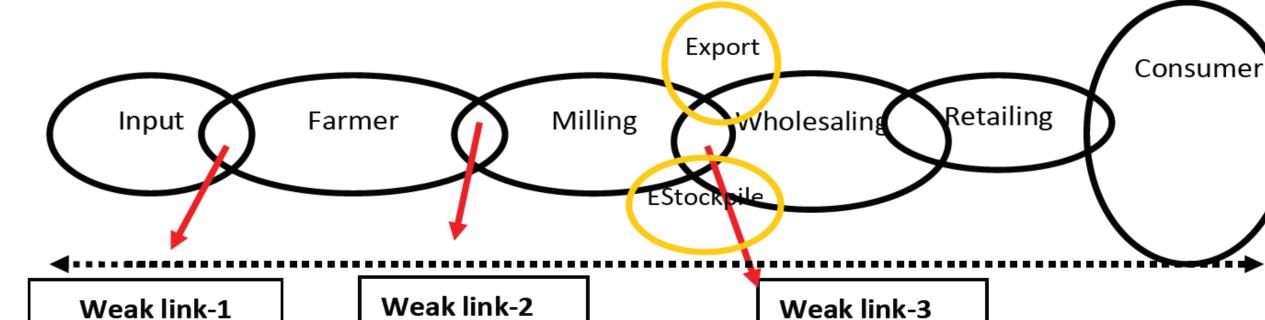
- 1. Substantial increase in productivity of rice is possible.
- 2. However, even a substantial increase of the current rice productivity of land would not be enough to create a sustainable livelihood for smallholder farmers.
- 3. For sustainability of smallholder famers, the increase in rice productivity should be combined with other income generating activities.

Many ways to Increase Productivity of Rice Farming Systems

For Discussion during the working Groups

Sustainability of Rice does not Stop at the Farm

In addition to Farm Productivity we need to increase Competitiveness



- low quality fertilizers
- Insufficient amount of fertilizer application
- Use of grain as seed
- Shortage of labor
- Limited credit
- Weak extension services

- Poor quality grain
- Mixing different types of paddy varieties
- Improper drying
- Insufficient and poor quality storage facilities
- Limited investment in modern milling and processing facilities

- Lower standard and poor quality of rice make lower competition
- Lack of demand-led approach (poor marketing research)
- High transaction cost at both export and domestic marketing level
- Insufficient port facilities

Many Ways to Increase Competitiveness of Rice Farming Systems

For Discussion during the working Groups



4. LINKING REGIONALAND NATIONAL STRATEGIES

A number of initiatives to guide the development of the Rice Economy

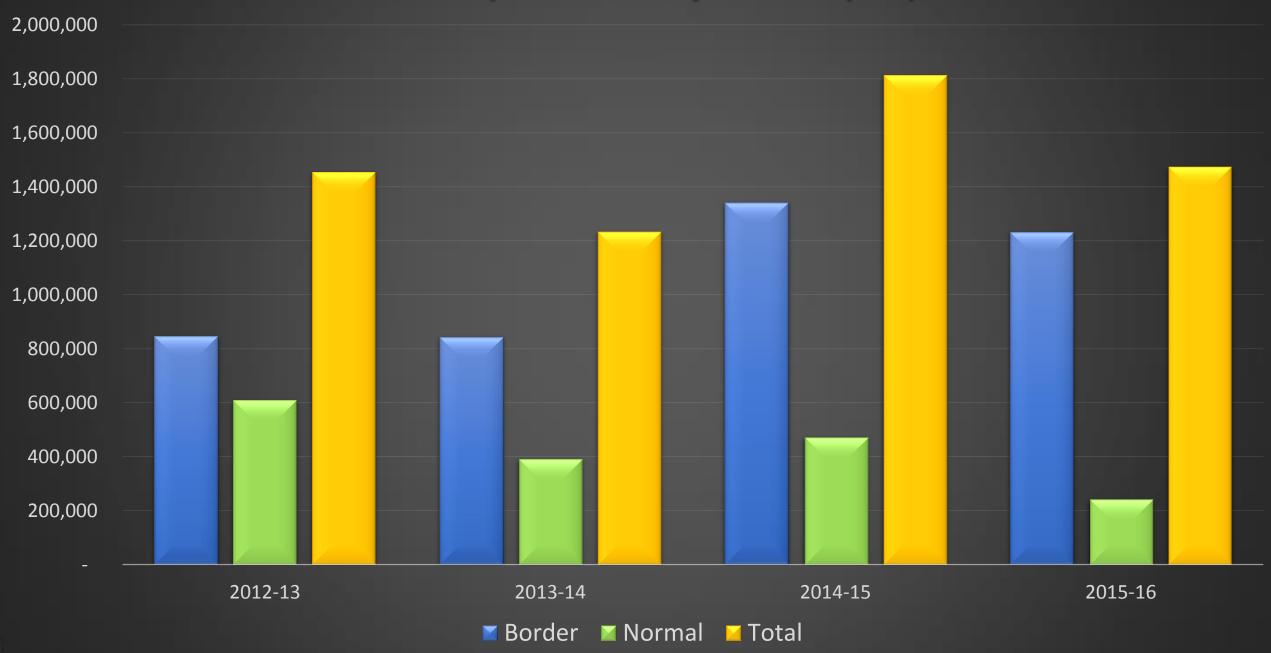
- 1. The Myanmar New Export Strategy by MOC in 2015
- 2. The Myanmar Rice Sector Development Strategy (MRSDS) by IRRI in 2015
- 3. The Agricultural Development Strategy (ADS) by MOALI in 2017
- 4. The MRF initiatives
- 5. ...

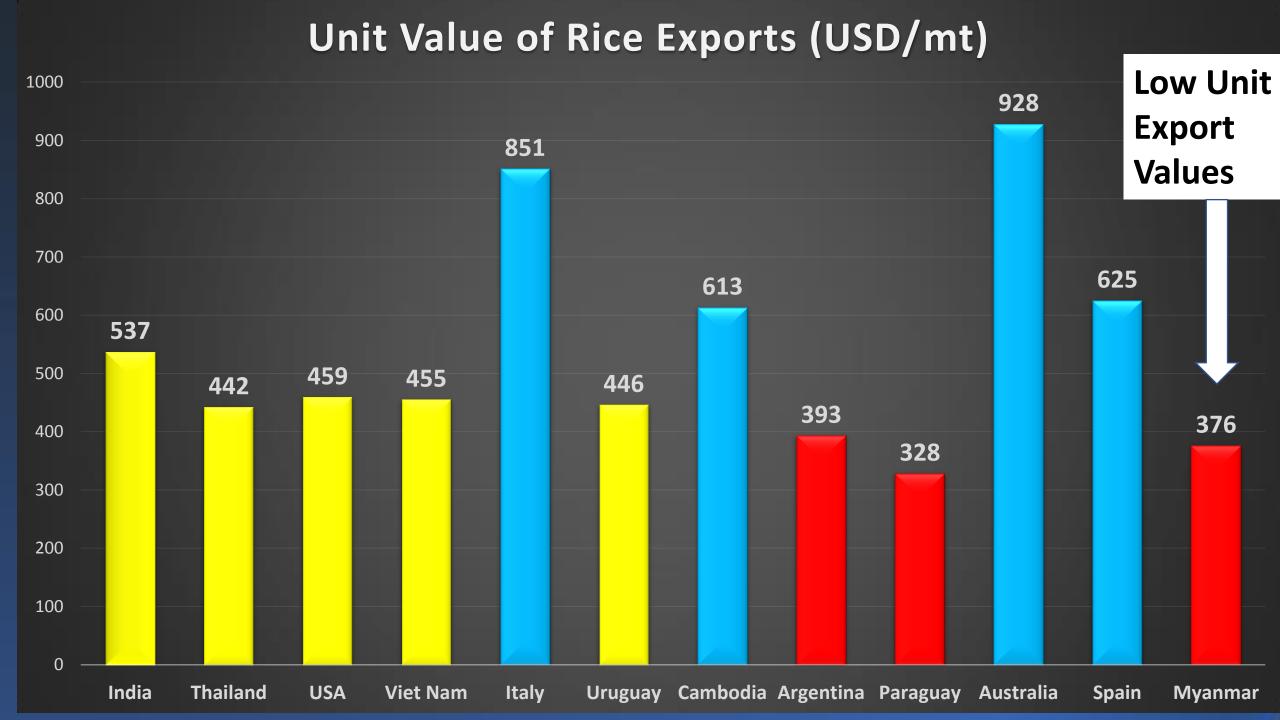
Ambitious Rice Export Targets

• 4 million tons by 2019

• 6 million tons by 2030

Rice Exports of Myanmar (mt)





Rice exports are feasible, but not necessarily the most attractive option.

An increase in competitiveness, based on higher quality and higher productivity, will make rice exports more attractive

In addition to Rice other agrifood exports are important

• Rice: USD 600 million

• Pulses: USD 1,000 million

• Fisheries: USD 500 million

Fruits and vegetables

Livestock

• ...

Two main strategies related to rice

- 1. The Myanmar Rice Sector Development Strategy ("Rice Strategy")
- 2. The Agricultural Development Strategy ("ADS")
- → ADS builds upon the Rice Strategy
- The ADS supports rice farming systems and value chains

Rice Strategy Vision

and

Agricultural Development Strategy Vision

MRSDS Vision

Food-secure farmers and consumers enjoying the economic benefits provided by a transformed, dynamic, environmentally sustainable and internationally competitive rice sector.

ADS Vision

An inclusive, competitive, food and nutrition secure and sustainable agricultural system contributing to the socio-economic well-being of farmers and rural people and further development of the national economy.

The Rice Strategy Recognizes Strengths of Rice **Economy in** Myanmar

- 1. Rich natural resources, particularly land areas suitable for rice cultivation
- 2. A rich diversity of traditional rice varieties with high branding and marketing potential
- 3. A fast-growing private sector actively engaged in the rice value chain
- 4. Strong potential for increasing rice yield and producing quality rice
- 5. Strong interest and presence of development and funding institutions
- 6. Increasing demand for rice in the international market
- 7. An excellent **geographic location** for serving the Asian and global rice markets
- 8. Willingness to create a positive policy environment

The Rice
Strategy
Identifies
10 Key
Challenges

For Discussion during the working Groups

The Rice Strategy Approach

- 1. Disseminate Good Agricultural Practices (GAP)
- 2. Adoption of good-quality high-yielding varieties (including hybrids) in favorable ecosystems
- 3. Transformation of conventional farming into mechanized production system
- **4. Conversion** of rainfed farms into irrigated lands to intensify rice farming
- 5. Achieve higher production by promoting labor productivity, water productivity, and input-use efficiency
- 6. Encourage local and foreign private sector participation in developing a sustainable rice seed system in Myanmar
- 7. Value Chain Development



ADS builds upon the Rice Strategy

It emphasizes rice farming systems and value chains

đ

ADS pursues a Systematic Approach

- 1. Twelve Principles
- 2. Vision
- 3. Pillars
- 4. Each Pillar has a number of Outputs (42 total)
- 5. Each Output has a number of Activities (263 total)
- 6. Each Activity is Costed into a balanced Investment Plan
- 7. An implementation Plan is defined
- 8. Participatory process is embedded into ADS

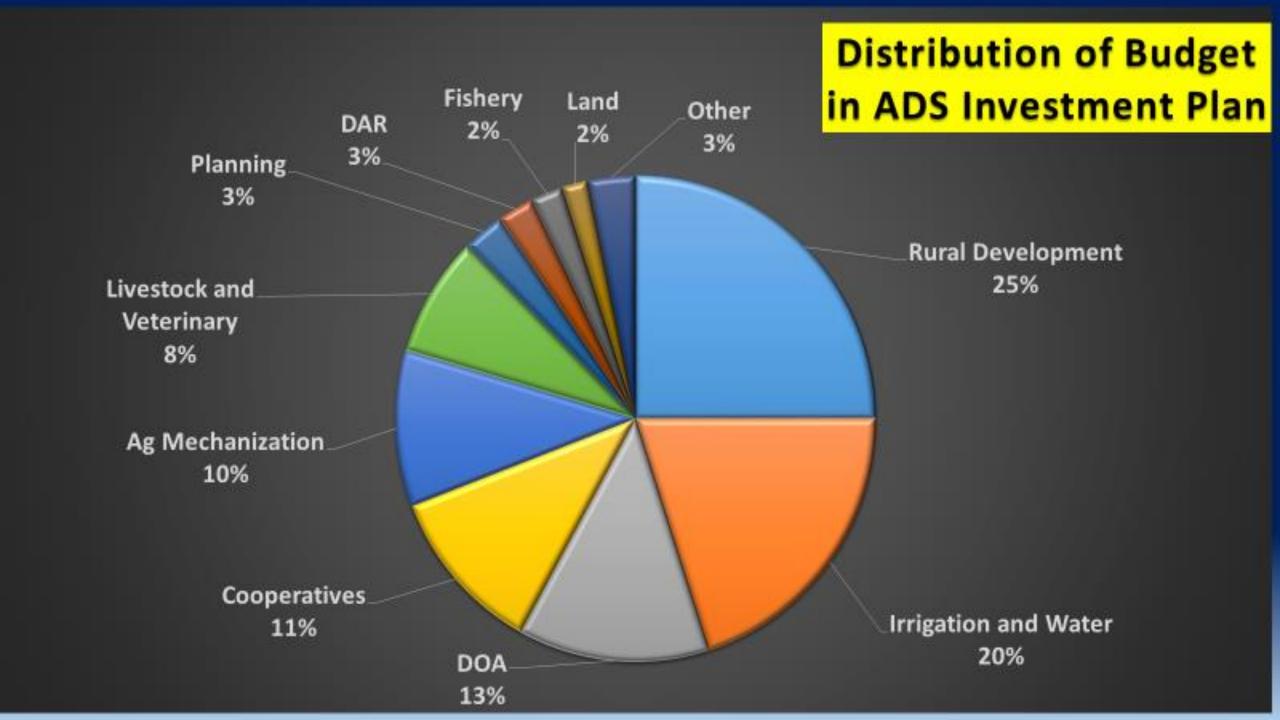
ADS VISION

An inclusive, competitive, food and nutrition secure and sustainable agricultural system contributing to the socioeconomic well-being of farmers and rural people and further development of the national economy.

PILLAR 1
PILLAR 2
PILLAR 3

Governance
Productivity
Competitiveness

FOUNDATION: Building collaborative relationships among farmers, businesses, and Government.



Key Results under Pillar 1 on Governance

Effective integrated planning based on participatory processes both at the union and at the state/region level.

Key Results under Pillar 2 on Key Results under Pillar 3 on Competitiveness

Improved research system for crop, livestock, and fisheries in 7 prioritized value chains

Transformed agricultural

extension system delivering

improved (crop, livestock,

fisheries) products and technology for adoption and adaptation

Strengthened farmers' land Irrigation and water use - More efficient and sustainable irrigation rule of institutions involved in and water use systems intagricultural land.

Timely and Effective

processes

Monitoring and Evaluation

rural road network integrated with national transport plants

Enhanced food quality and

safety



5. IMPLICATIONS FOR AYEYARWADDY

KEY MESSAGES



- 1. Adopt the Rice Farming Approach. Focus not only on yields, but also on farm income. Farm income includes different activities, including non-rice crops, livestock, and fisheries.
- 2. Integrate smallholder farmers with the value chain. Ensure that farmers, enterprises, and service providers work collaboratively to translate comparative advantage at the farm level into competitive advantage.
- 3. Ensure that Regional Planning is linked to the ADS preparation and implementation.
- 4. Increase the effectiveness of investments. There is no point in investing billions in an irrigation system, if the economic return is low or negative; similarly, there is no point in investing in rural roads if they are washed out after one year of construction because of poor design, construction, or lack of O&M.
- 5. Ensure that development of human resources and institutional capacity are key parts of the solutions you identify.

Sr	States / Regions	Consultation
1	Nay Pyi Taw Council	11.5.17
2	Kachin State	15.5.17
3	Chin State	15.5.17
4	Shan State (South)	15.5.17
5	Rakhine State	17.5.17
6	Tanintharyi Region	17.5.17
7	Kayah State	22.5.17
8	Shan State (North)	22.5.17
9	Magway Region 22.5.17	
10	Ayeyarwady Region	22.5.17
11	Shan Sate (East)	22.5.17
12		
TZ	Kayin State	25.5.17
13	Kayin State Mandalay Region	25.5.17 25.5.17
13	,	
13 14	Mandalay Region	25.5.17

Consultations

for ADS





THANK YOU!



PRINCIPLES OF THE ADS

1	Roles	Clearly define roles of private and public sector.
2	Rights	Promote smallholder farmers' rights and voice.
3	Small	Emphasize smallholder farmers and SMEs.
4	F&N Security	Contribute to food and nutrition security through direct and indirect channels
5	Inclusion	Include marginal farmers, landless, women, and disadvantaged regions.
6	Transparency	Pursue transparency, participation, and accountability.

7	Sustainability	Assure environmental and economic sustainability.
8	Linkages	Systematically link agriculture, livestock, fisheries, and the agrifood sector.
9	Coordination	Coordinate within and outside MOALI
10	Restructuring	Evolve towards new institutional structure, capacities, and responsibilities.
11	M&E	Monitor and evaluate policy implementation
12	Subnational	Regions and States more actively involved in planning and implementation

DISTRIBUTION OF INCOME FOR FARMS GROWING RICE AND PULSES IN AYEYARWADDY

