Agricultural and Natural Resources Development and Management Strategy

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Nepal Vision 2040

(At the par of a developed nation)

Challenges

Poverty, Negative Balance of Trade, **Outstanding Public Debt, Foreign Aid** Dependency, **Implementation** Failures, Massive **Outmigration for Foreign Employment, GDP Growth Rate**, **Natural Disasters**, **Environmental** Degradation, **Energy**

Assets

Asta-Ja

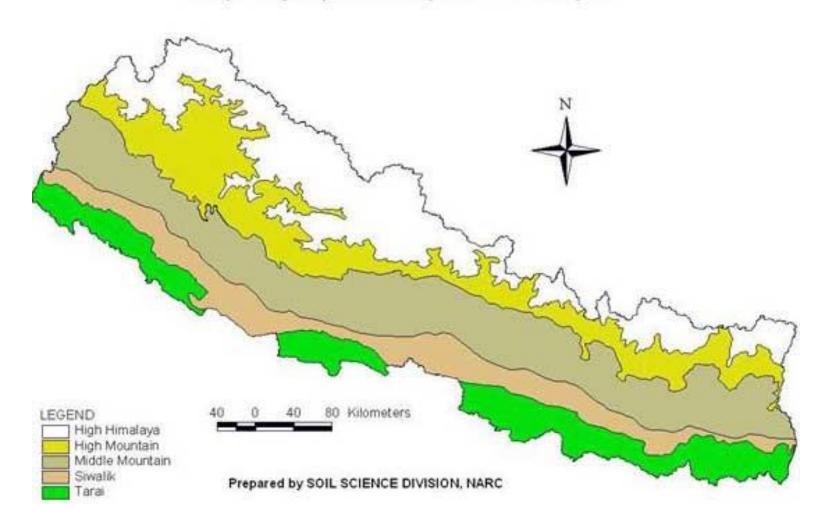
(Jal, Jamin, Jungle, Jadibuti, Janashakti, Janawar, Jarajuri, Jalabayu)

Vision

- 1. Food self-sufficiency,
- 2. Reliance on renewable resource energy,
- 3. Thirty million tourists annually,
- 4. Export of organic foods, medicinal and aromatic plants, and other products;
- 5. Corruption control,
- 6. Infrastructural development,
- 7. Community resiliency,
- 8. Social services;
- 9. Asta-Ja resource conservation, utilization and development

(Poudel, D.D. 2018. Restructuring National Planning Commission Focusing on Asta-Ja and Nepal Vision 2040, *Asian Profile*, Vol. 46, No. 2., 151-167)

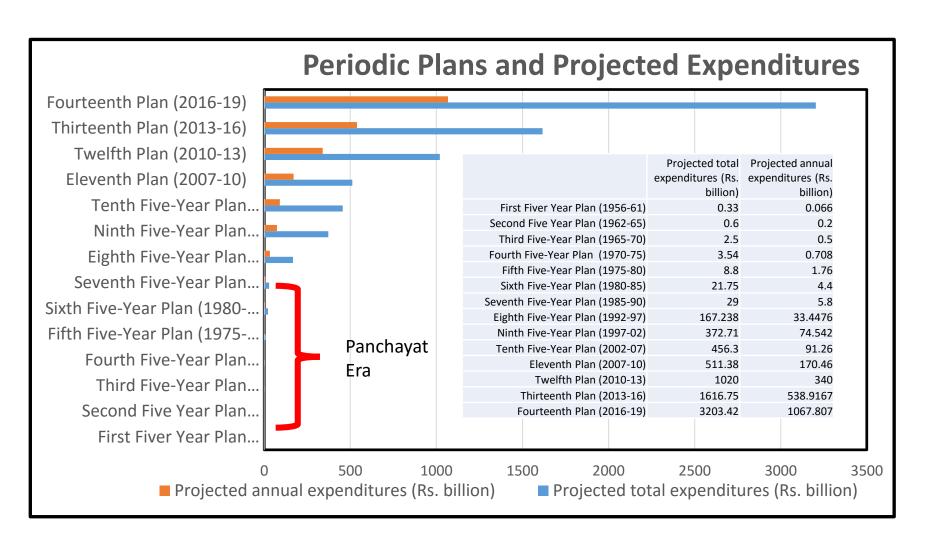
Physiographic Regions of Nepal

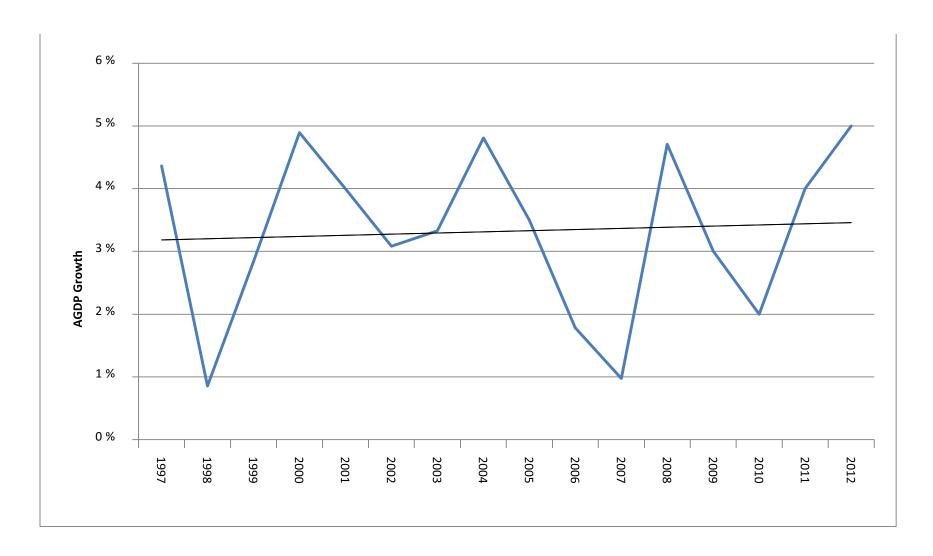


https://www.expeditionsnepal.com/wp-content/uploads/2016/11/physiographic-map-of-nepal.jpg

HISTORICAL PERSPECTIVE

- Establishment of Krishi Adda, 1921
- Department of Agriculture, 1952
- Five Year Plans, 1956
- Ministry of Agriculture and Irrigation, 1974
- Government decision to strengthen Cooperatives, 1991
- Ministry of Agriculture and Cooperative, 1999
- Ministry of Agriculture, Land Management and Cooperatives, 2018
- APP, ADS
- Multilateral and bilateral agencies, INGOs, NGOs

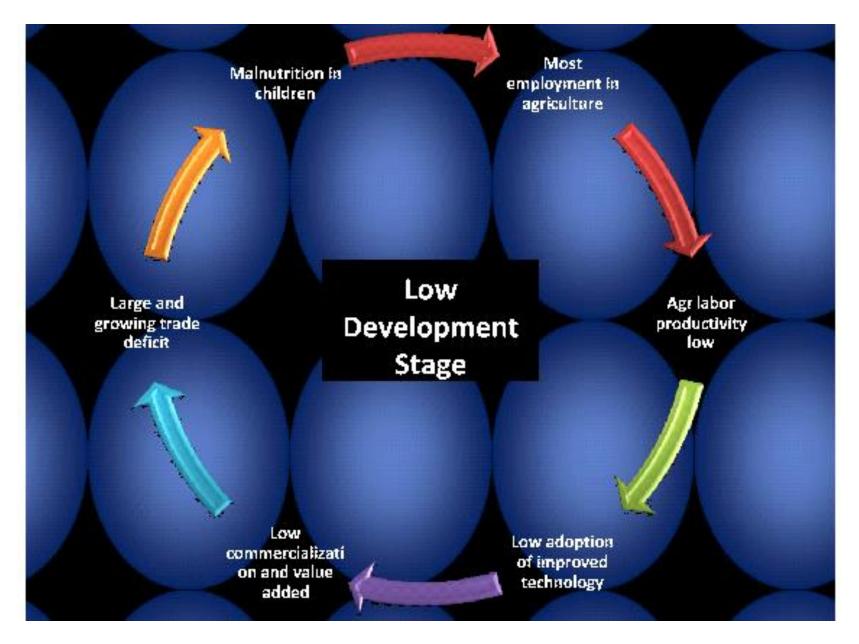




Growth of Agricultural GDP

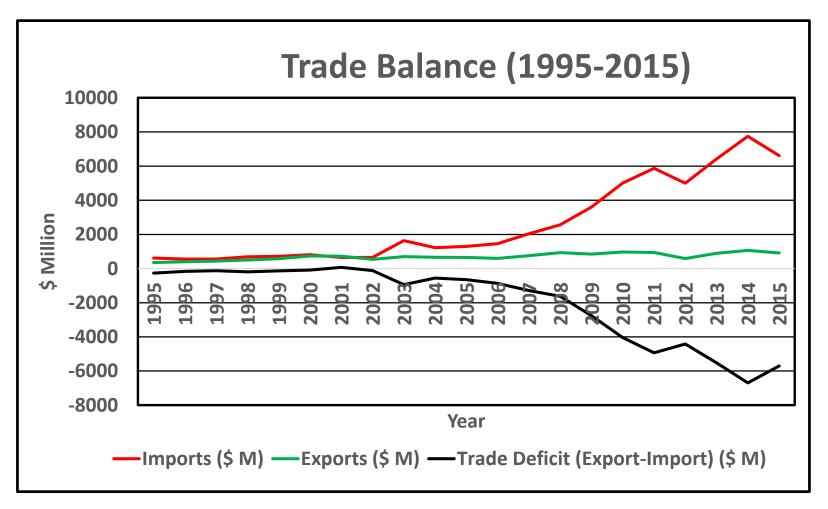
Source: MOF National Accounts Estimate 2012 (at constant prices)

(MoAD, 2014)



Low Development Stage of Nepalese Agriculture

(MoAD, 2014)



Data source: atlas.media.mit.edu/en/profile/country/npl.

DEPENDENT ON INDIA FOR AGRICULTURAL IMPORTS

- O A negative trade balance of Rs. 622,374.56 million (Rs.774,684.20 million import and Rs. 85,319.10 million export) for the fiscal year 2014/2015, of which 63.22% was with India, 14.21% with China, and 22.57% with other countries.
- The top two imports in 2014/2015 included agricultural products (Rs 137.12 billion) followed by petroleum products (Rs. 112.16 billion).

Major agricultural commodities imported in 2014/2015:

Cereals Rs. 35.12 billion

Fat and edible oil Rs 22.51 billion

Vegetables Rs 15.93 billion

Fruits and nuts Rs 10.54 billion

Animal fodder Rs. 10.02 billion

Oil seeds Rs. 9.11 billion

Coffee, tea and spices Rs. 4.27 billion

Sugar and confectionary Rs. 3.49 billion

Beverages Rs. 2.92 billion

Tobacco Rs. 2.55 billion

Llive animal Rs. 2.42 billion

Dairy products Rs.2.15 billion

Fish Rs. 1.15 billion (CBS, 2016)

SOCIO-ECONOMIC STATUS

- ≥ 25% population is below the poverty line
- ➤ 41% children suffering from stunting and chronic malnutrition
- ➤ Total outstanding public debt of Rs. 627.8 billion in 2015/16
- ➤ Outstanding per capita debt Rs. 22,159 in 2015/16
- Outmigration of almost 5 million youths for foreign employment

AGRICULTURE DEVELOPMENT STRATEGY (ADS) 2015-2035



Vision: "A self-reliant, competitive, and inclusive agriculture sector that drives economic growth and contributes to improved livelihoods and food and nutrition security leading to food sovereignty."

FLAGSHIP, CORE AND OTHER PROGRAMS

FLAGSHIP PROGRAMS

- Food and Nutrition Security Program
- Decentralized
 Science, Technology,
 and Education
 Program
- Value Chain Development Program
- Innovation and Agroentrepreneurship
 Program

CORE PROGRAMS

Governance: policies, coordination and implementation, integrated planning, monitoring and evaluation, capacity-building. Productivity: agricultural education, irrigation, inputs, improved breeds, sustainable farming.

Profitable

commercialization:

investment climate, contract agriculture, tax policy, agricultural finance, roads, markets, power.

<u>Competitiveness:</u> market infrastructure, exports, food quality and safety

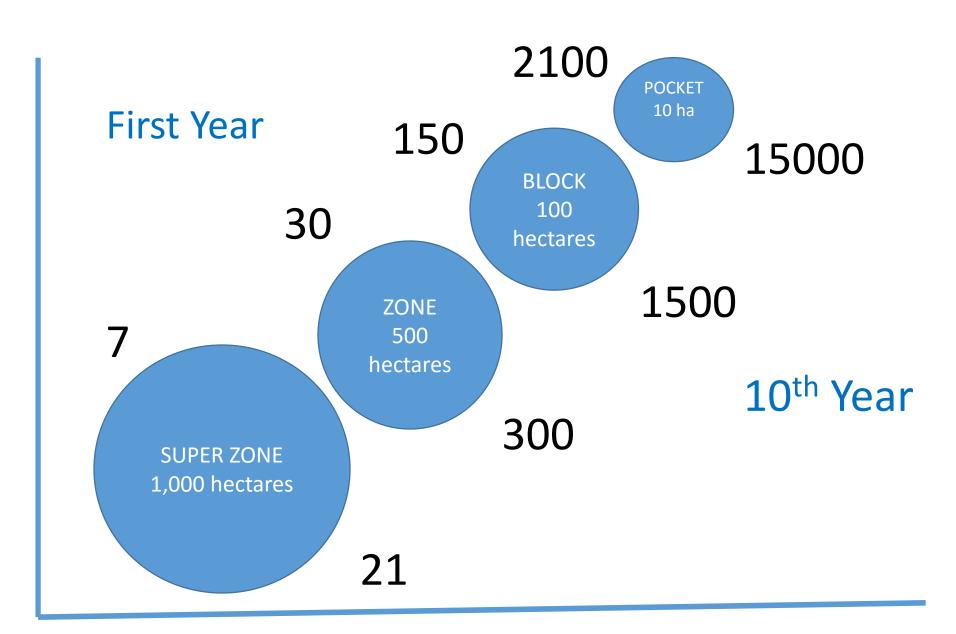
OTHER PROGRAMS

Apple development program, Pomegranate, Mango, Flower, Orange, Cardamom, Tea and Coffee, Onion, Orange, Mushroom, Industrial crop, Oilseed, Soil testing, Animal health service, Livestock market, Agribusiness, Plant protection, etc.

CURRENT AGRICULTURAL DEVELOPMENT PROGRAMS

- Prime Minister Agriculture Modernization Project (PM-AMP), (2016-2025)
- Zero Hunger Challenge National Action Plan (2016-2025)
- Multi-sector Nutrition Plan (MSNP) (2013-2017 (2023)
- Fourteenth Three Year Plan (2016-2019)

PM-AMP (2016-2025)



MULTILATERAL, BILATERAL, AND OTHER PROGRAMS

- Project for Agriculture Commercialization and Trade (PACT),
 2009-2018, World Bank.
- Raising Incomes of Small and Medium Farmers Project (RISMFP), Asian Development Bank
- Knowledge-Based Integrated Sustainable Agriculture in Nepal (KISAN) project, USAID.
- High Mountain Agribusiness and Livelihood Improvement (HIMALI) Project, Asian Development Bank.
- Inclusive Growth Program in Nepal (UNNATI), DANIDA.
- Samarth-Nepal Market Development Program (Samarth-NMDP), DFID.
- Sahaj- Nepal Agricultural Market Development Program (Sahaj-NAMDP), SDC.

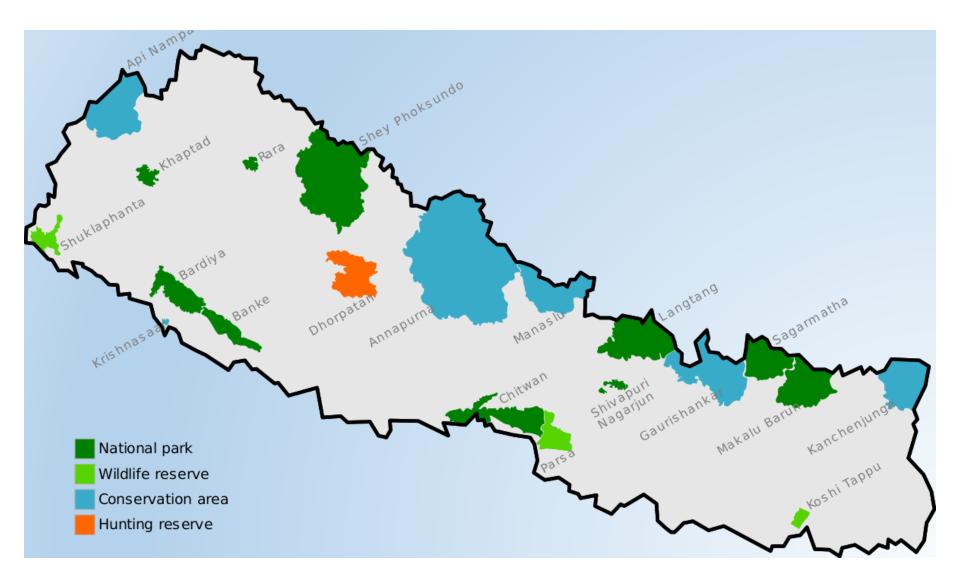
IRRIGATION

- ➤ Irrigation Projects of National Significance

 The Sikta, Babai, Ranijamara Kulariya, and

 the Bheri -Babi Diversion projects
- Total irrigable land of Nepal is estimated as 2,178,000 ha of which 1,091,000 ha receive irrigation water from surface and ground water and from farmers' managed irrigation,
- > Only an estimated 418,000 ha is with year-round irrigation.

PROTECTED AREAS OF NEPAL



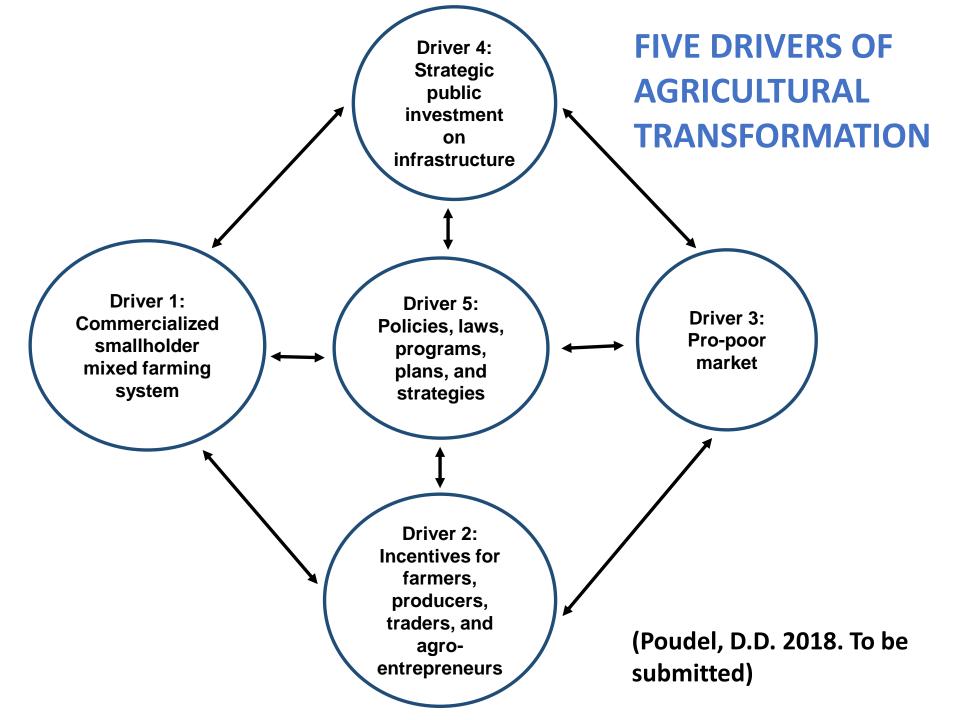
Source: https://en.wikipedia.org/wiki/Protected_areas_of_Nepal

NATURAL RESOURCES MANAGEMENT PROGRAMS

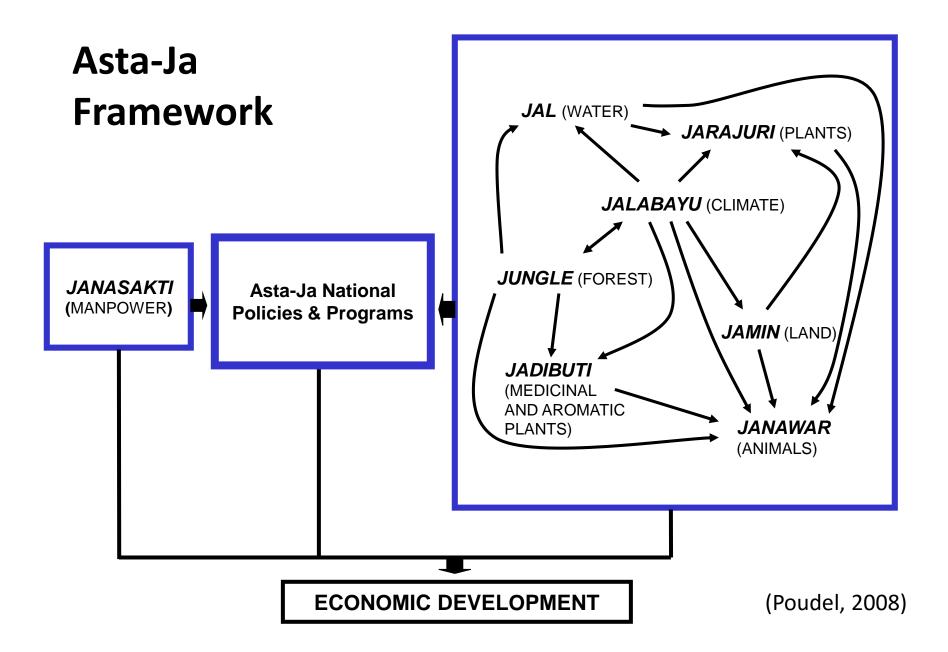
- > Chure Conservation Program,
- Wildlife Management Project,
- ➤ Adaptation for Smallholder in Hilly Areas project,
- ➤ REDD++ Implementation Programs,
- > Agroforestry and Community Forestry,
- Climate Resilience of Watersheds,
- Watershed Management projects
- > Soil and Water Conservation,
- ➤ Kailash Sacred Landscape Conservation Initiative (KSLCI),
- ➤ Building Resilience to Climate Related Hazards (BRCH),
- ➤ Community Based Flood and Glacial Lake Outburst Risk Reduction Project (CFGORRP)

IMPLEMENTATION CHALLENGES

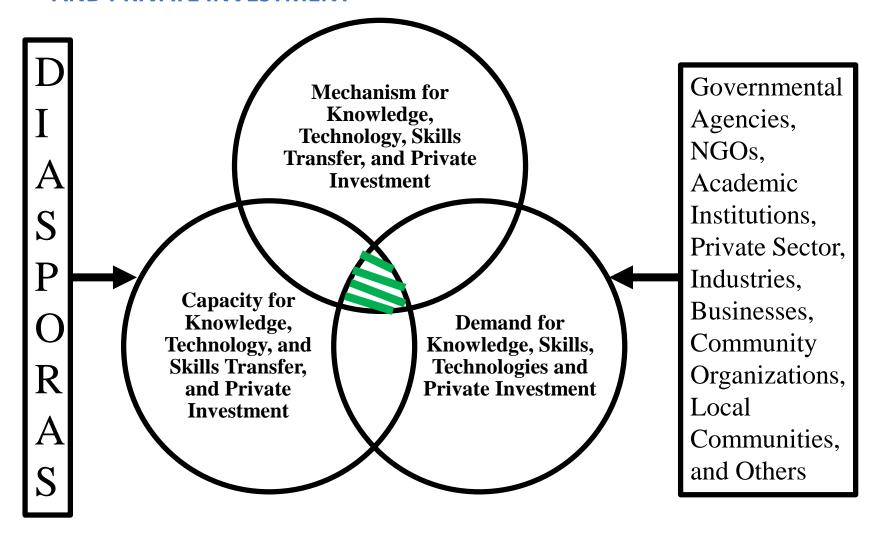
- ➤ Lack of supporting legislations, policies, and resources for program implementation
- Lack of necessary manpower
- Low level of engagement of private sector in agricultural investment
- Weak coordination among implementing agencies
- Wide-spread corruption and fragmented policies and programs
- Overlapping programs and weak monitoring and evaluation
- Weak connection between producers and government agencies



FOOD SYSTEMS AND NATURAL RESOURCES



VENN DIAGRAM FOR KNOWLEDGE, TECHNOLOGY AND SKILLS TRANSFER AND PRIVATE INVESTMENT



(Poudel, D.D. 2018. To be submitted)

THEMATIC AREAS FOR KNOWLEDGE, TECHNOLOGY, AND SKILLS TRANSFER AND PRIVATE INVESTMENT

Theme 1. Planning, policies, and programs, implementation, and monitoring and evaluation

Theme II. Capacity-building

Theme III. Private investment

Theme IV. Community development and services

Theme V. Trade and tourism promotion

Conclusions

- Program coordination and implementation challenge.
- Five drivers of Inclusive Agricultural Development (IAD):
 - Commercialization of smallholder farming system; incentivized individual farmers, traders, and agroentrepreneurs; pro-poor market; strategic public investment on infrastructure; and policies, plans, strategies, regulations, and agreements;
- Knowledge, technology and skills transfer thematic areas: Planning and design; capacity-building; private investment; community development; and trade and tourism.
- ➤ Development of an integrated Agricultural and Natural resources Development and Management Strategy (ANRDMS) is suggested.

Thank You!