



## FARM BLOCK DEVELOPMENT PROGRAM, FBDP.

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# Outline

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# COUNTRY PROFILE - Zambia

Parameter	Estimate
Area	752,614 km <sup>2</sup> (25% Congo and 75% Zambezi Basins)
Population	13.6 million (2010 Census)
Total labour force	4.39 million
Rural population	64%
Female labour force	45%
Administration	10 provinces, 106 districts
Literacy	74%
Climate	Tropical
Temperature	13°C - 34°C
Rainfall	600mm -1400mm
Woodlands	353,729 km <sup>2</sup> (47%)
Arable land	42 million hectares (58%)
Cultivated area	10.5 million ha (14%)

# Land & Agriculture

- » 42 million hectares (58% of Zambia land area) is arable land
- » 14% (6.02 million ha) of arable land is under cultivation
- » 11 % of Zambia population are small to medium scale farmers producing 100% of the maize crop for food security.
- » Irrigation potential is about 3 million hectares (8% of arable land ) out of which about 156,000 hectares is currently under irrigation.
- » Large Scale farmers produce 20% of total maize production (\* also produce most of the high value crops e.g wheat, soy beans etc)
- » Livestock rearing (cattle and small ruminants) is largely confined to Agro-ecological regions I & II

# AGRO-ECOLOGICAL REGIONS, (AER)

## ➤ AER I

Has **17.3 million Ha** of land-

Receives less than 800 mm of rainfall a year;

## ➤ AER II

Has **27.4 million Ha** of land-

Receives 800 – 1000 mm of rainfall a year;

## ➤ AER III

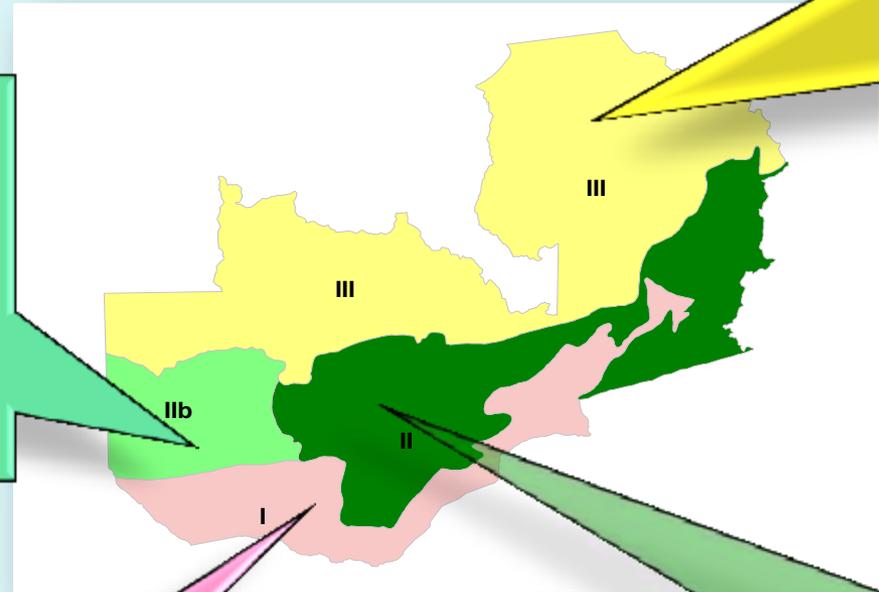
Has **30.6 million Ha** of land-

Receives above 1000 mm of rainfall a year;

Has very high agricultural potential

# Rainfall, Soil and Crop Suitability

Three agro ecological regions :



◆ **Region IIb:** Rainfall range 800 – 1,000 mm/annum  
◆ Loamy to sandy soils  
◆ Cassava, sorghum, millet, sesame, cashew nuts, livestock, fisheries

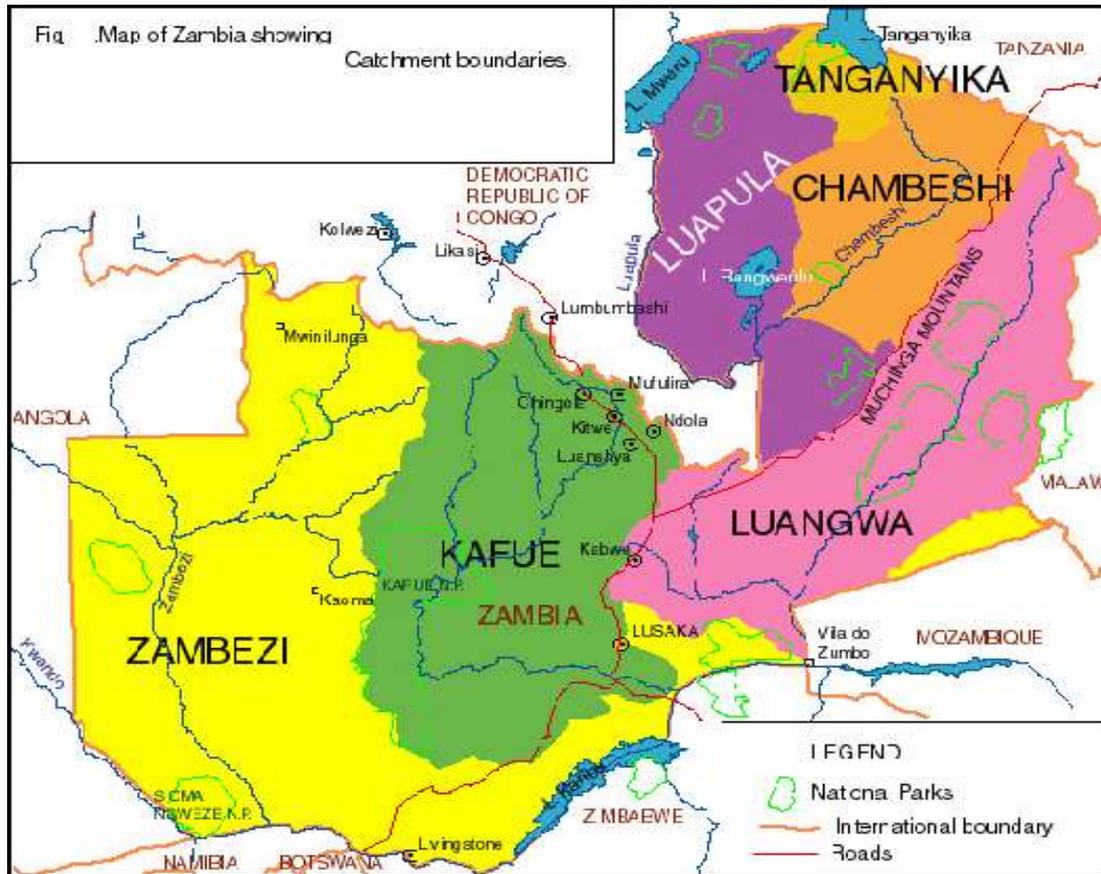
◆ **Region I:** Rainfall Less than 800mm/annum  
◆ Loamy to clay soils  
◆ Cotton, sorghum millet, sesame, cashew nuts, livestock, fisheries

**Region II:**  
◆ Rainfall range - 800 to 1,000mm/annum  
◆ Inherent fertile plateau soils.  
◆ Maize, cotton, tobacco, sunflower, soybeans, irrigated wheat, groundnuts, flowers, paprika, vegetables, cassava, millet, horticulture, livestock.

**Region III:**  
◆ More than 1,000mm of rainfall/ annum  
◆ Very deep soils, sandy clay loam.  
◆ Cassava, millet, sorghum, beans, groundnuts, rice, coffee, tea, pineapples, fish farming, livestock.



# Water Resources, major river basins

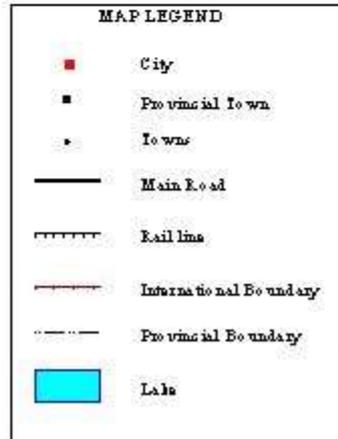
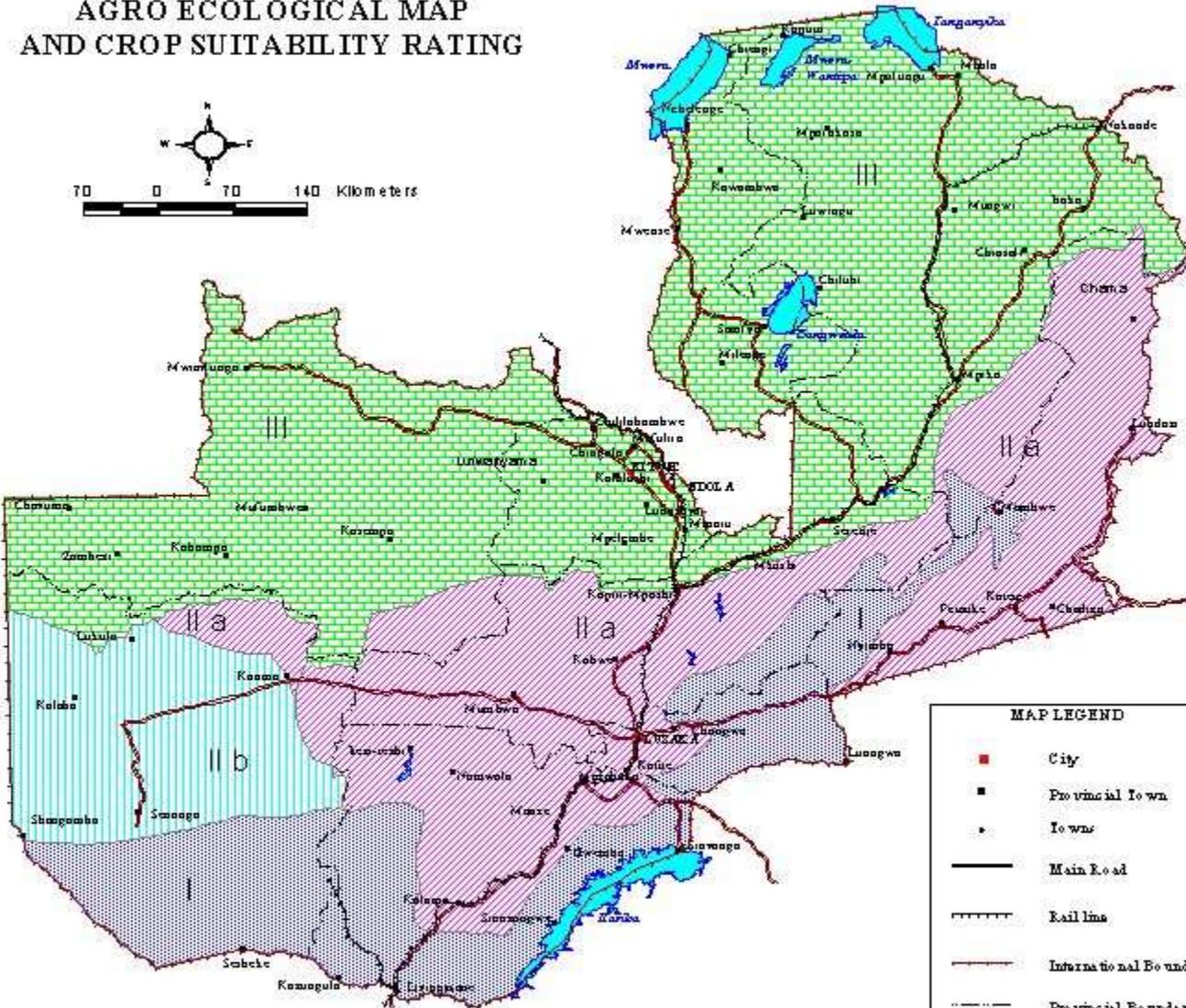
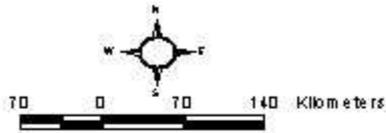


	$m^3/s$
<b>Zambezi</b>	<b>1,900</b>
<b>Kafue</b>	<b>350</b>
<b>Luangwa</b>	<b>500</b>
<b>Luapula</b>	<b>690</b>
<b>Chambeshi</b>	<b>230</b>
<b>Tanganyika</b>	<b>330</b>

# Water Resources

- » Zambia is endowed with 40 % of the water resources in the SADC region.
- » Four major rivers transect Zambia
  - Zambezi river originates in northwestern Zambia,
  - Kafue River supports 40% of Zambia's population and also produces the majority of Zambia's hydropower
  - Luangwa River drains most of the central parts of the country and empties into the Zambezi River upstream of Caborra Bassa Dam
  - The Luapula River is associated with lakes Mweru and Mweru-Wantipa and drains its water into the Congo River system.
- » Wetlands, including the *dambos*, cover about 3.6 million hectares or 5% of the total land area, and are an important source of livelihood for small-scale farmers.

REPUBLIC OF ZAMBIA  
**AGRO ECOLOGICAL MAP  
 AND CROP SUITABILITY RATING**



Suitability Legend

PRODUCT/CROP	AGRO ECOLOGICAL REGIONS & SUITABILITY RATINGS			
	I	II a	II b	III
Bananas	1	1	3	1
Beans	3	1	3	1
Groundnuts	3	1	3	1
Soybeans	3	1	3	1
Rice	3	1	3	1
Coffee	3	1	3	1
Tea	3	1	3	1
Millet	2	1	3	1
Lentils	1	1	3	1
Sunflower	3	2	3	2
Paprika	1	2	3	2
Babycom	2	1	3	1
Honey	1	1	3	1
Bee wax	1	1	3	1
Hides and Skins	1	1	3	1
Maize	3	1	3	2
Cashewnut	3	2	1	2
Cotton	3	1	3	2
Tobacco	3	1	3	1
Wheat	3	1	3	2

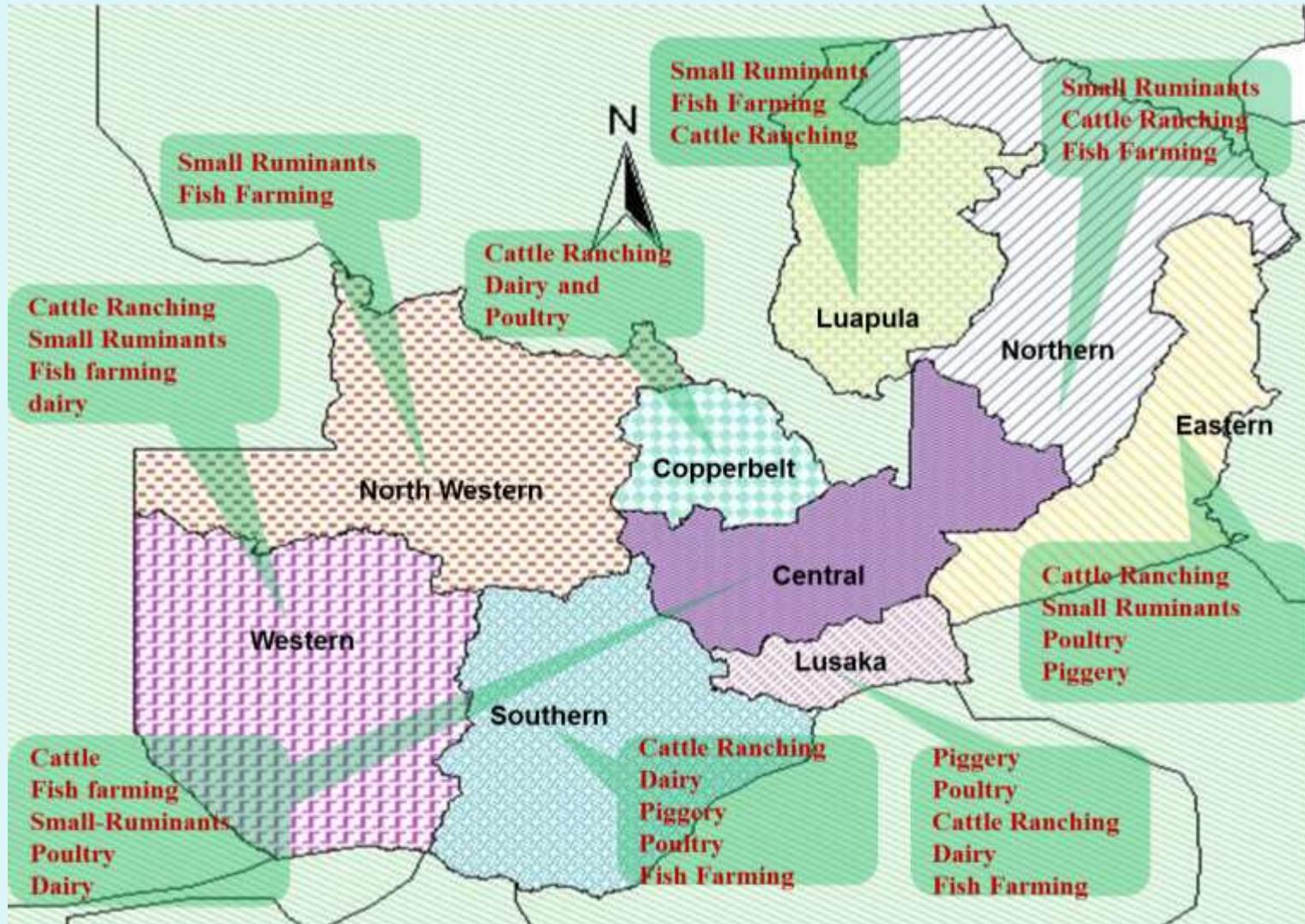
Key to Suitability Rating

Rating	Rating Description
1	Suitable
2	Moderately suitable
3	Marginally suitable

Key to Map

Agro-Ecological Region	Annual Rainfall	Soils
I	Less than 700 mm	Clayey
II a	800 to 1000 mm	Clayey
II b	800 to 1000 mm	Sandy
III	1000 to 1500 mm	Clayey

# LIVESTOCK & FISHERIES – Suitability (by Province)



# AGRICULTURE SECTOR INVESTMENT INCENTIVES

- 15% tax on income from farming
- Provision for wear and tear of 50% per yr for the first 2 yrs on machinery used for farming
- Capital expenditure allowance of 20% per yr for the first 5yrs on farm improvements
- 10% development allowance per year up to first year of production on capital expenditure incurred when growing coffee, tea, bananas, citrus fruits
- 100% farm work allowance for expenditure on farm land such as stumping, land clearing, boreholes, water conservation etc
- customs duty exempted on most machinery and equipment for agriculture
- Value added tax chargeable at 16% for production of cash and food crops, but zero rated when exported while maize is exempt

# Farm Blocks Development Programme, (FBDP)

## **Background**

- » GRZ embarked on development and commercialization of Farm Blocks by availing land for Large Scale agribusiness investment to the private sector
- » One Farm Block was targeted for development in each Province
- » Approximate area, not less than 100,000ha per FarmBlock

# FBDP Programme Objectives

1. To commercialize agricultural land and exploit its full potential in order to attain economic diversification & growth
2. To enhance food security through production of adequate food
3. To open under developed rural areas, reduce poverty and minimize rural to urban migration
4. To add value to agricultural products by processing them into products ready for the market

# Farm Block Concept

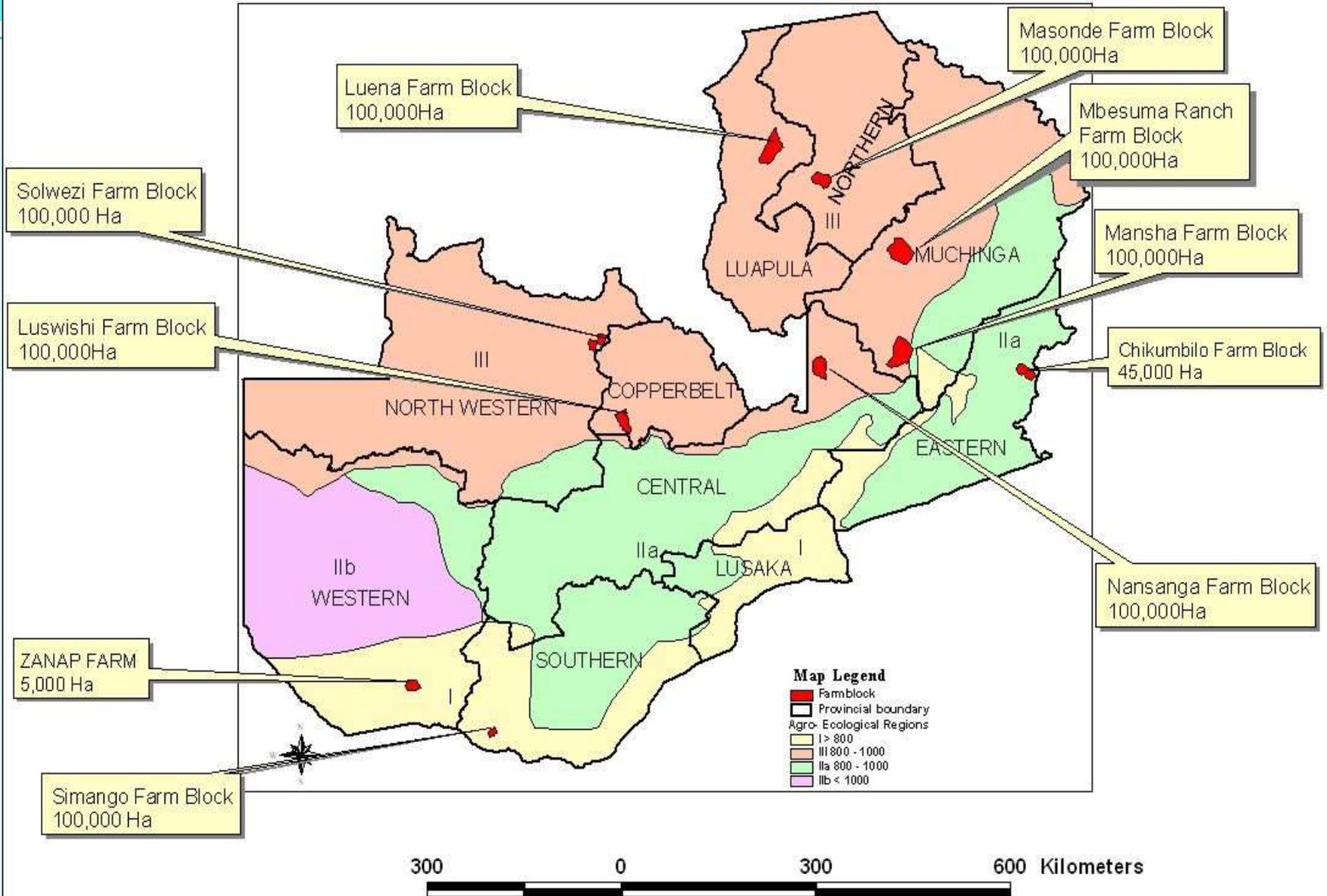
A large area where basic infrastructure for agriculture and agro-processing is to be provided.

Each farm Block is designed to have

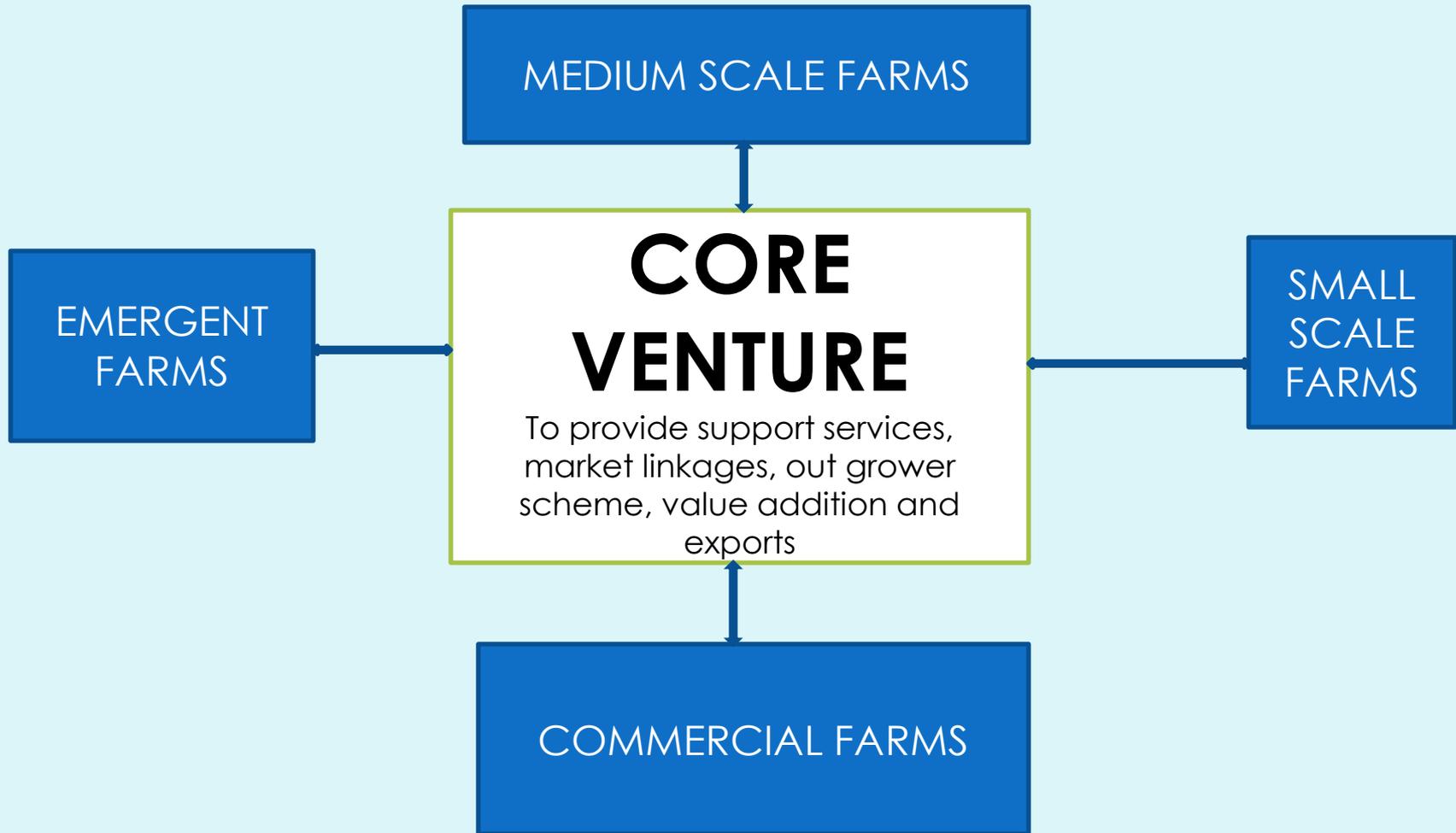
1 Core venture	10,000 ha
1-3 Commercial farmers	1,000 – 5,000 ha
Medium scale farmers	100 – 1000 ha
Emergent farmers	50 – 100 ha
Small scale farmers	25 – 50 ha

Farms to be arranged in an out grower cluster arrangement where core venture coordinates production and provides market thrust.

# FARMBLOCK LOCATION MAP OF ZAMBIA



# Farm Block Operational Model



# Farm Block Operational Model

- Government will develop back bone infrastructure i.e roads, electrification, irrigation dams and bulk water supply to small scale farmers
- Government will provide lease hold certificate of title – 99 years renewable
- The core venture investor will provide a market and processing facilities to Small and Medium scale farmers
- Small and Medium scale farmers will be organized an out-grower arrangement similar to Nakambala sugar

# Enterprise Diversification

- Crops to be grown in the core venture will be predominantly for export so as to support accelerated growth. However enterprise diversification will be emphasised and shall receive strong support.
- Promotion of other crops other than Maize, processing and value addition will also be encouraged
- Promotion of High Value crops – legumes, horticultural crops, citrus fruits,
- Promotion of the livestock and livestock industry - Large and small ruminants
- Promotion of Poultry rearing and processing
- Promotion of Aquaculture Fisheries

# Status – Nansanga Farm Block

- 10,000 Ha core venture farm, 3 big commercial farms (1,000 to 5000 Ha), 357 small & medium scale farms and service centres demarcated, cadastral surveyed and titled
- 80% of Back borne infrastructure developed
- Electrification of the entire farm block done (103km of 33kV overhead line and 66km of 11 kV distribution line)
- 151km of trunk road network and 3 bridges supported by 173km access roads
- Three (3) Irrigation dams constructed for the small scale farmers (outgrower)

## Status cont'd.

### **Luena – Luapula province**

- Feasibility studies completed
- 10,000 Ha core venture farm, 2 (5000 Ha each) commercial farms 681 small and medium scale farms demarcated; cadastral survey underway
- 180 km construction of trunk road network under construction (40 km all weather and 140 km bituminous)
- One dam constructed, a second is under construction.

# Status – cont'd.

Luswishi – Copperbelt	<ul style="list-style-type: none"><li>• 100,000ha identified</li><li>• Feasibility studies conducted</li><li>• Strategic Environmental Assessment done</li></ul>
Solwezi North-western province	<ul style="list-style-type: none"><li>• 100,000 ha identified</li><li>• Feasibility studies conducted</li></ul>
Manshya – Muchinga province	<ul style="list-style-type: none"><li>• 147,000ha identified</li><li>• Feasibility studies undertaken</li><li>• 350 small, emergent and medium scale farms demarcated and cadastral surveyed.</li></ul>
Chikumbiro – Eastern province	<ul style="list-style-type: none"><li>• About 38,000 ha land secured and soil</li><li>• Feasibility studies done</li><li>• Negotiations for a further 62,000 ha is under way</li><li>• Environmental impact assessment conducted</li></ul>

# Status – cont'd.

Simango Southern province	<ul style="list-style-type: none"><li>• 36,000 ha identified,</li><li>• 75,000 ha under soil fertility and social investigations.</li></ul>
Masonde Northern province	<ul style="list-style-type: none"><li>• Approximately 50,000 ha land identified</li></ul>

# NANSANGA FARM BLOCK

## Electrification



## Roads and Bridges



# NANSANGA FARM BLOCK

## Feeder Roads



## Bridges



# Investment areas and Opportunities

- Tea production and processing
- Cashew nut production and processing
- Cassava processing
- Cotton production and processing
- Pineapple processing
- Production and processing of Flori and Horticultural products
- Palm oil production
- Wheat production
- Production and processing of oil seed crops

# Investment areas and Opportunities

- **Sugar production and processing.** Investment in ethanol for blending with petrol.
- **Fisheries:** aquaculture and cage culturing
- **Livestock:** production ,processing of hides and skins, leather and leather products; poultry and poultry products, meat processing and dairy; production of veterinary drugs and vaccines.
- **Agricultural inputs, Machinery and Equipment:** Investment in the manufacture, supply and distribution of various agric. inputs, equipment and machinery (as regional hub).

# Summary

- Zambia provides a rich natural resources base for agricultural investment in form of land and quality fresh water.
- The land is highly suitable for both crop and livestock production.
- Government is providing a conducive investor environment through proactive policies and various tax exemptions



I thank you