
JATROPHA CULTIVATION INITIATIVES

NAMIBIAN EXPERIENCE

By

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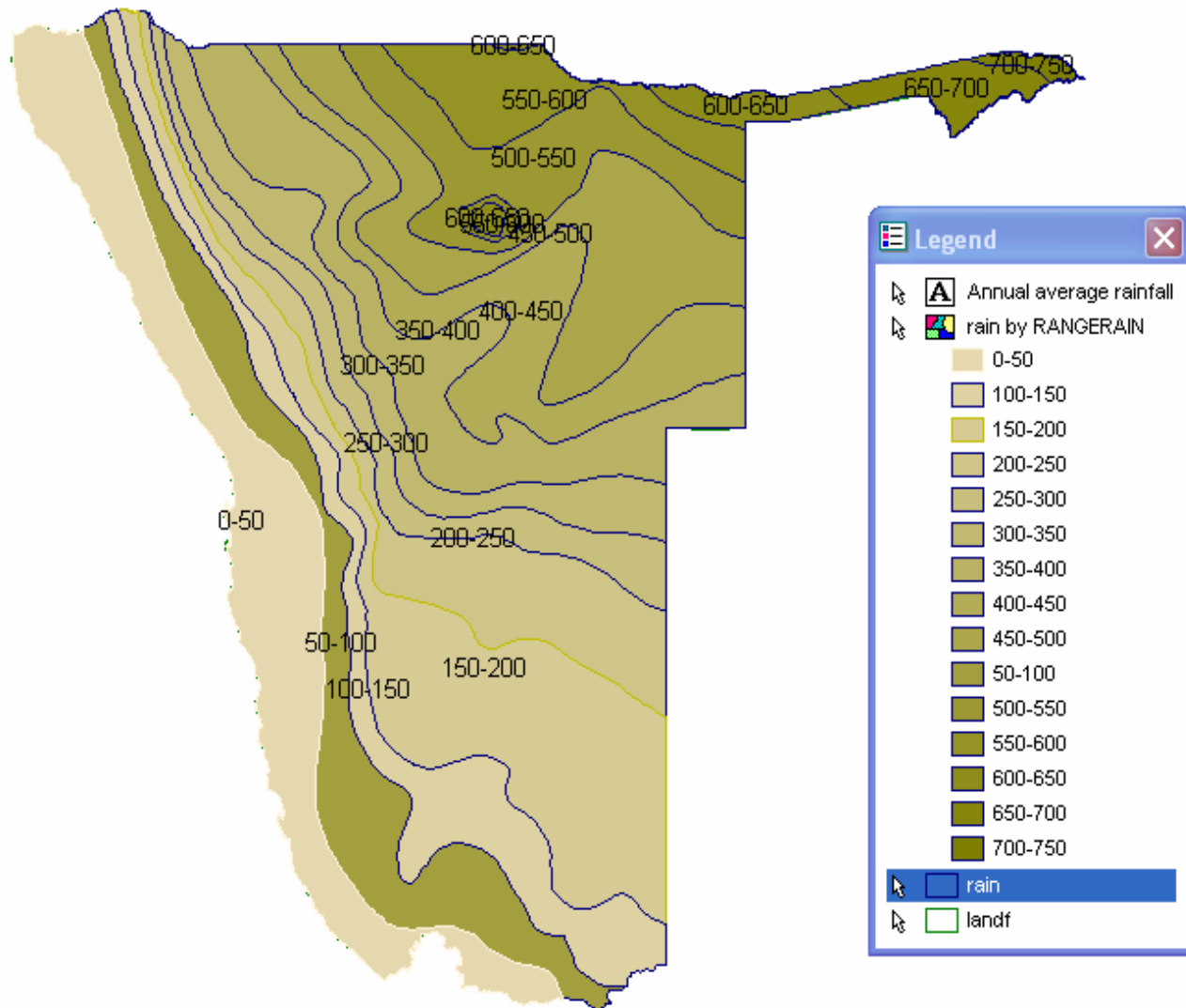
- **Some geographic facts on Namibia**
 - **Reaction to bio-diesel demand**
 - **Jatropha cultivation initiatives**
 - **MTCT: Org and objectives**
 - **Current Activities**
 - **Challenges**
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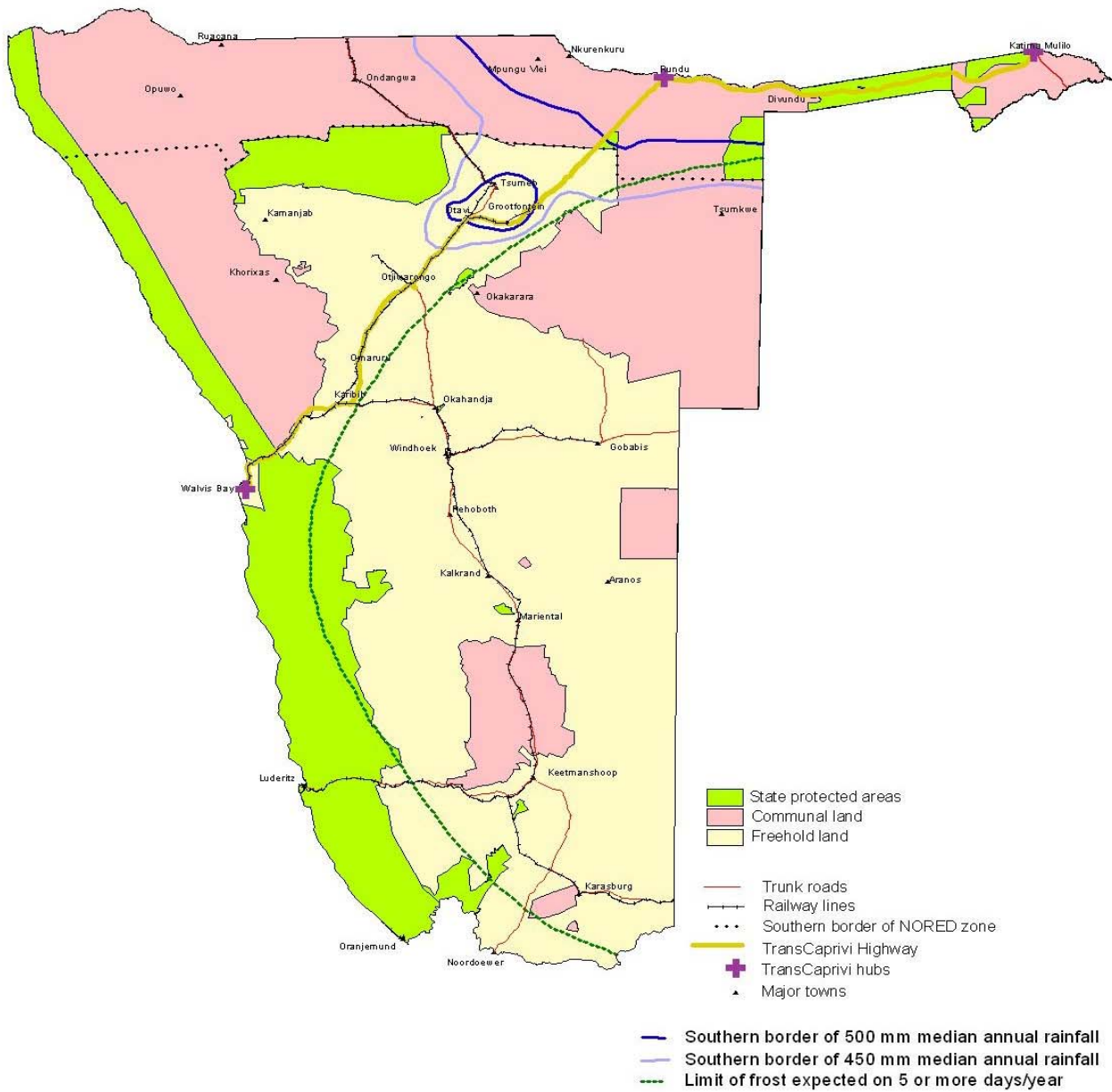
Geography of Namibia

SATELLITE IMAGE SHOWING LAND COVER



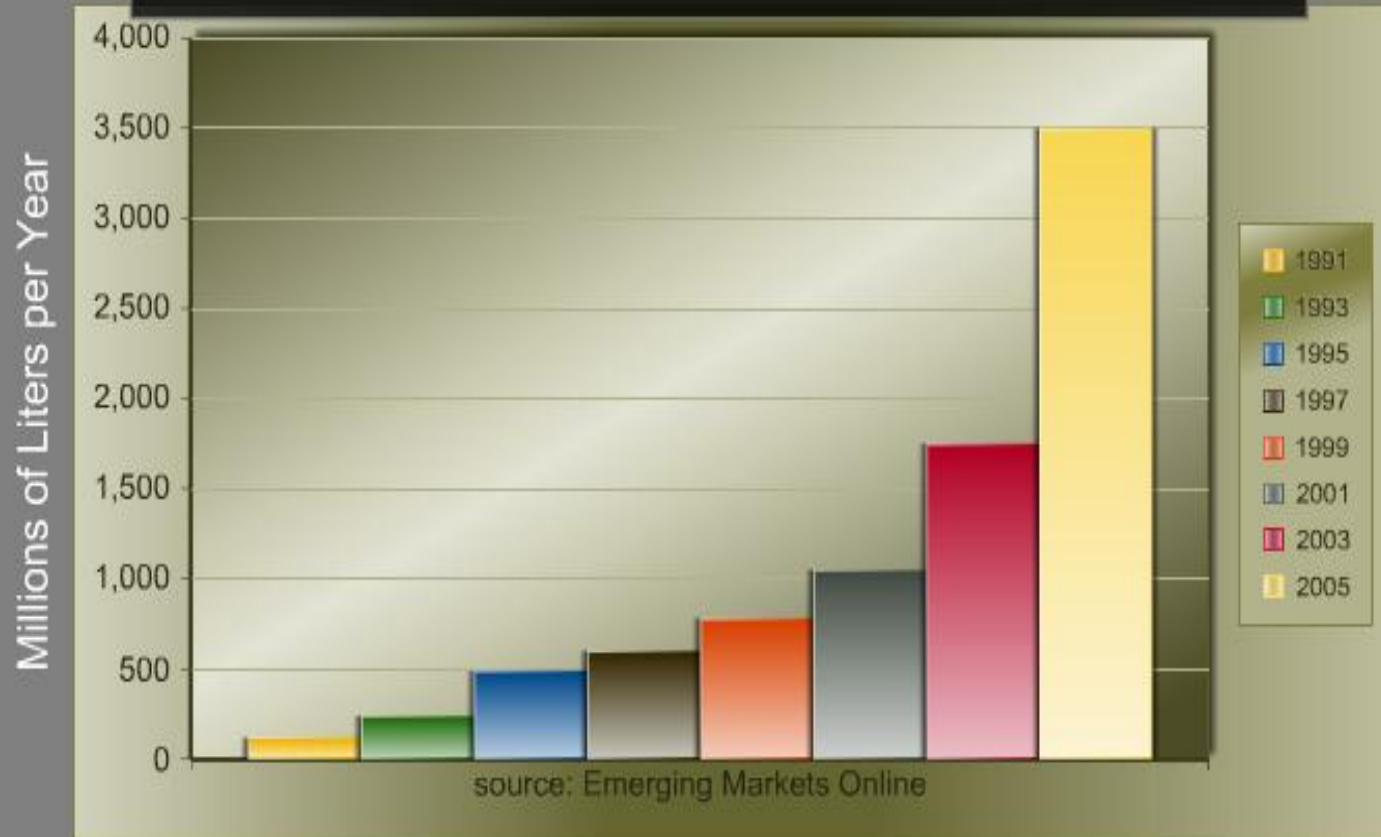
Average annual rainfall





BIO DIESEL PRODUCTION

World Biodiesel Production 1991-2005



Annual Growth

REACTIONS TO MEET DEMAND FOR FEEDSTOCK

- Convert more food crops to energy
 - Selling food crops for energy
 - Creates imbalance in food supply
 - Results in high food prices
 - Affects the poor most

- Switch from growing food crops to energy crops
 - Replacing food production with energy crops like Jatropha
 - Causes food insecurity
 - Leads to high food prices

REACTIONS TO MEET DEMAND FOR FEEDSTOCK

- Clear more land for energy crops
 - Causes deforestation
 - Loss of bio-diversity
 - Possibility of land degradation and eventual desertification
 - Utilize waste or abandoned land for energy crops
 - Increases farm income
 - Meets demand for feedstock
 - Prevents land degradation
 - Improves soil conservation
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WHY JATROPHA IN NAMIBIA?

WHY JATROPHA IN NAMIBIA?

- **VISION 2030: Namibia's development vision**
- **BIOFUEL ROADMAP 2006**
- **MILLENNIUM DEVELOPMENT GOALS**
- **LOOMING ENERGY CRISIS**
- **HARSH AGRO ENVIRONMENT**
- **PLANT EXISTS IN THE COUNTRY**







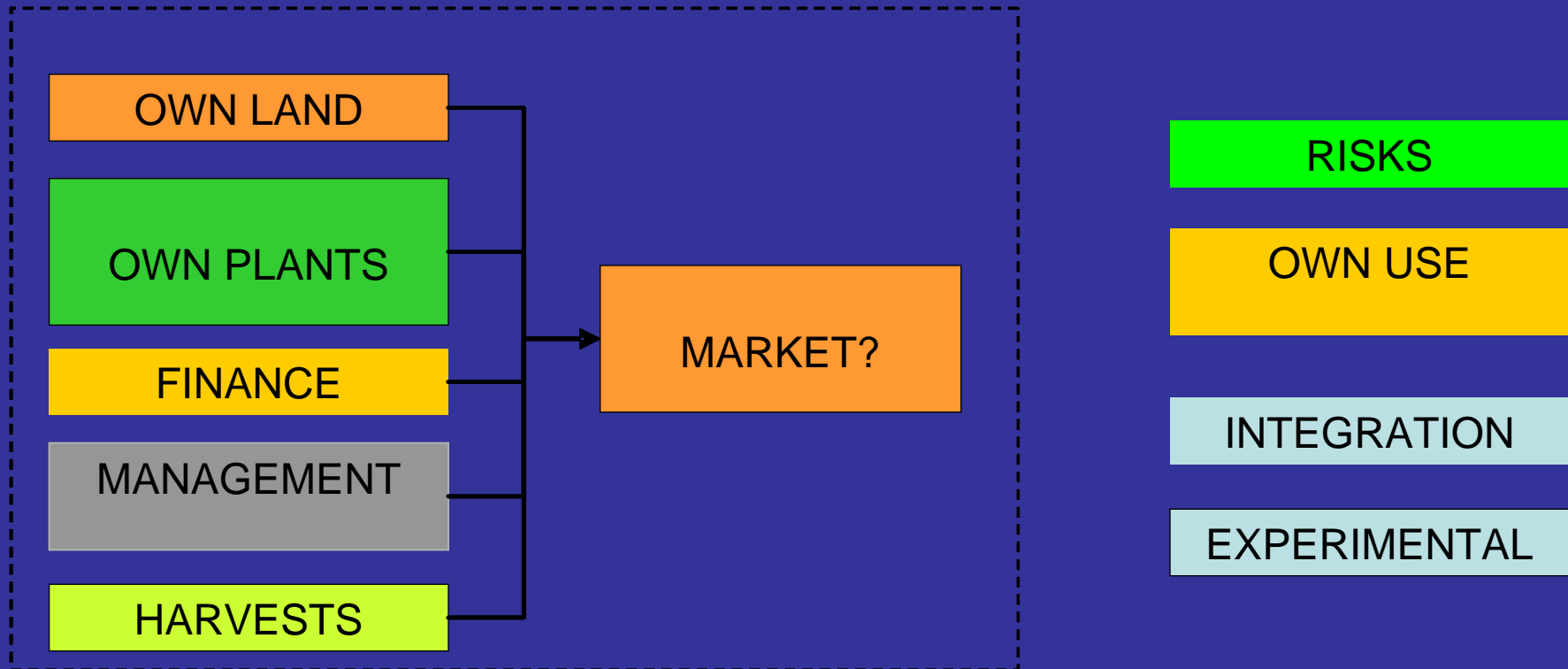
JATROPHA IMPLEMENTATION MODELS IN NAMIBIA



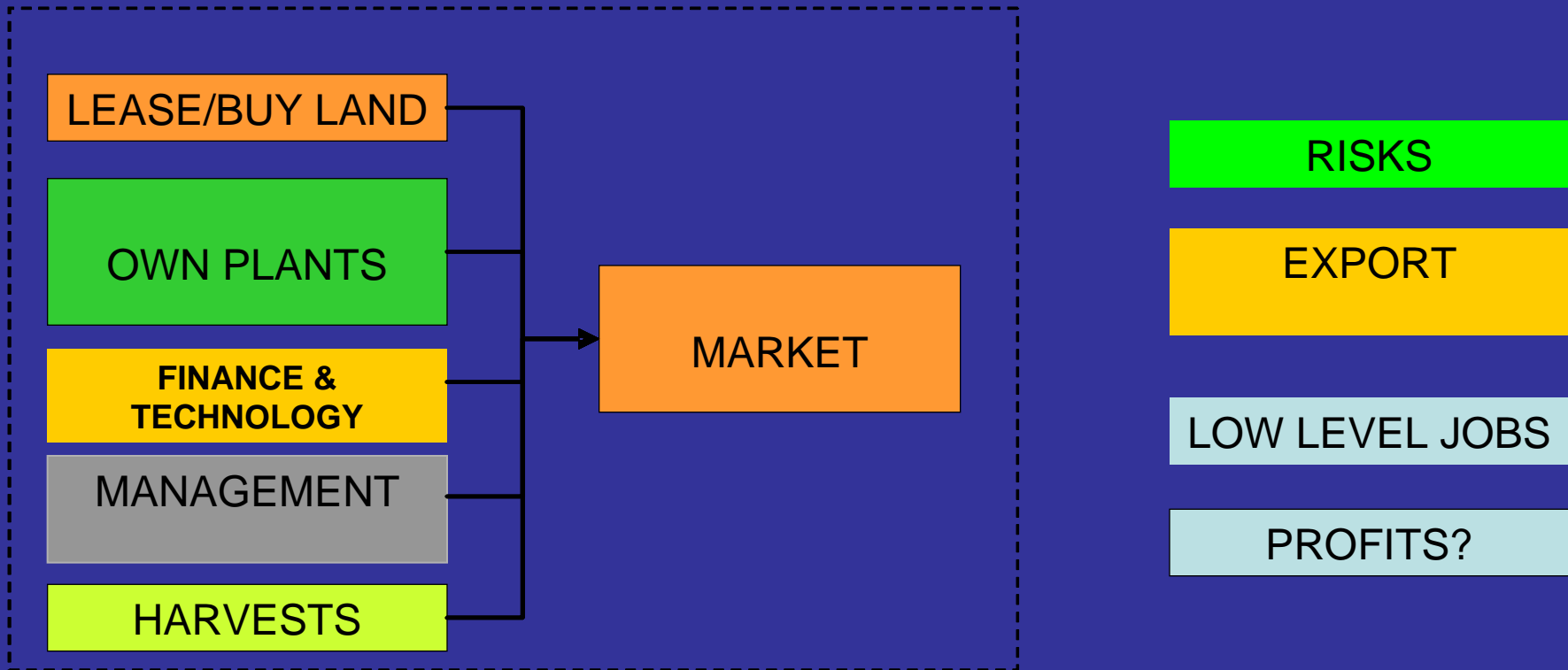
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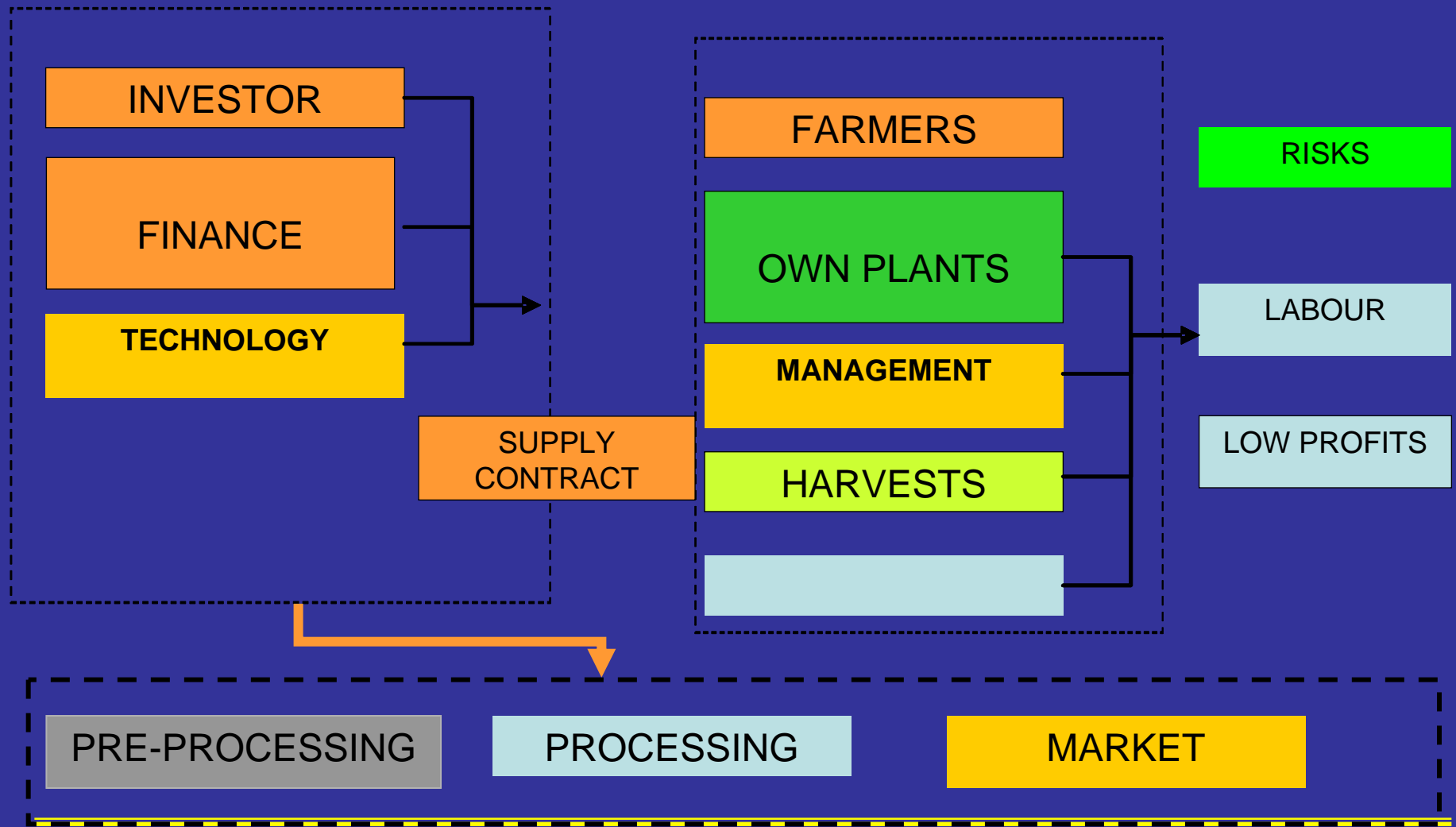
PRIVATE FARMER/INDIVIDUAL INITIATIVES



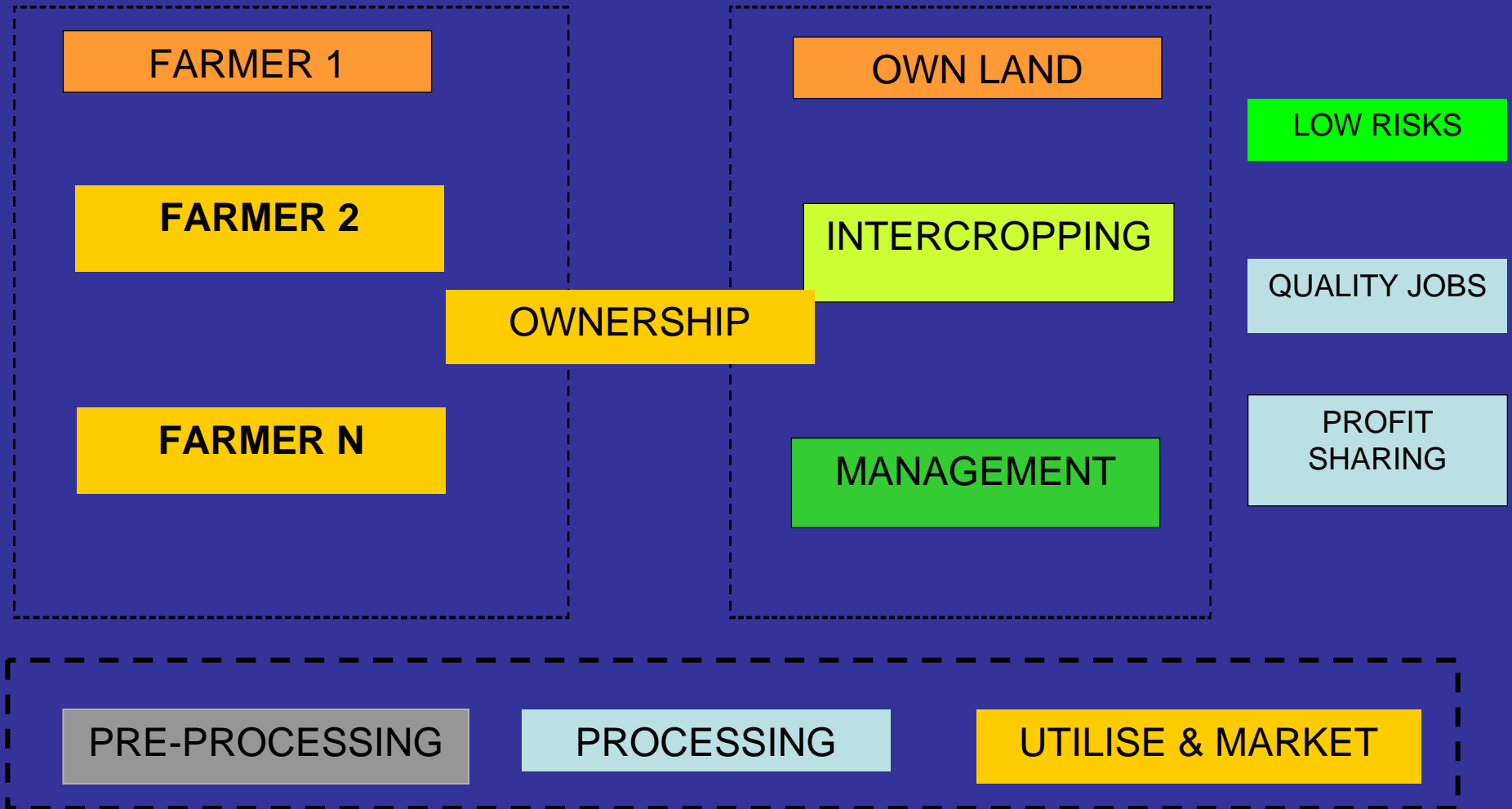
INVESTOR DRIVEN



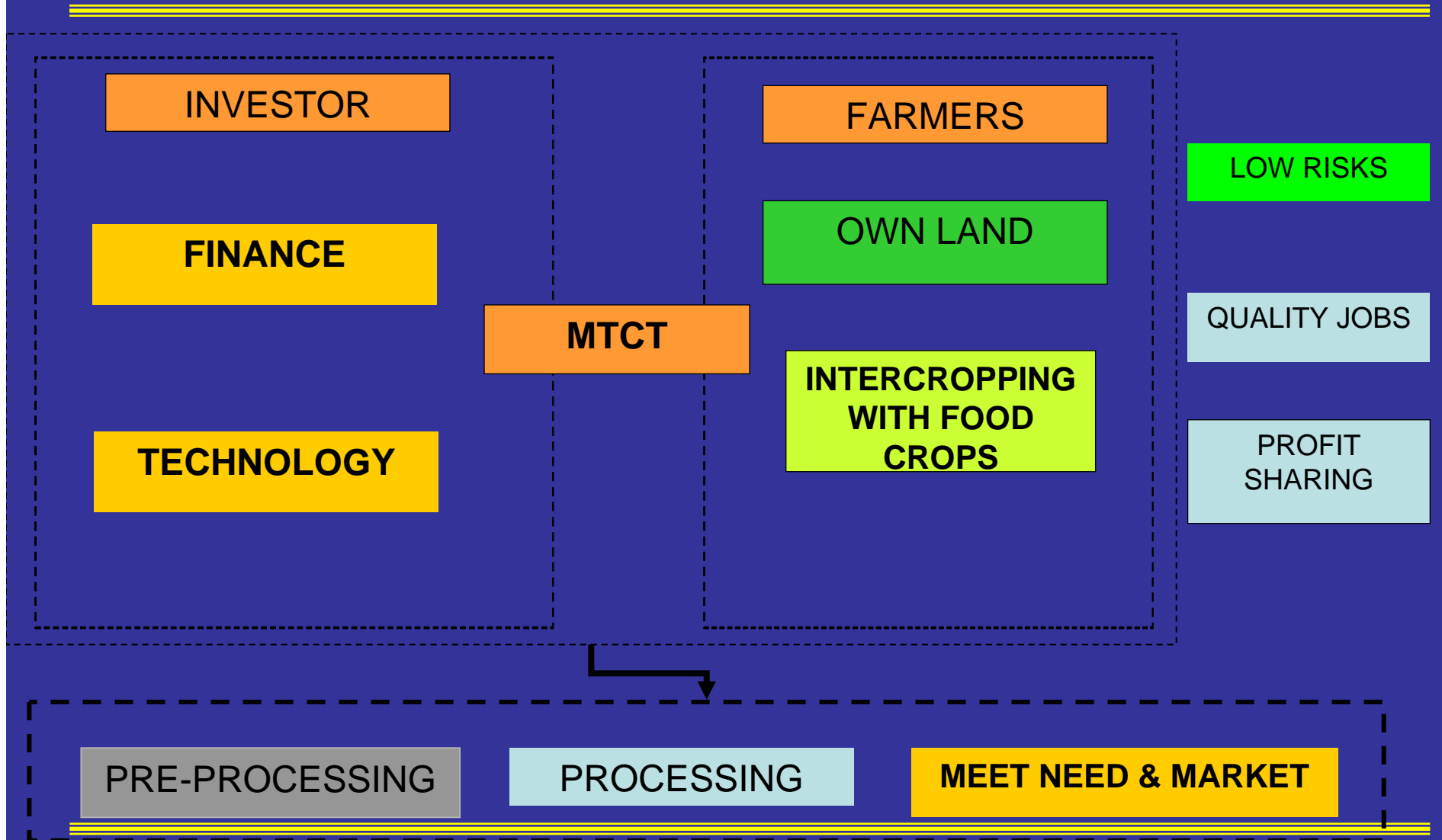
OUTGROWER SCHEMES

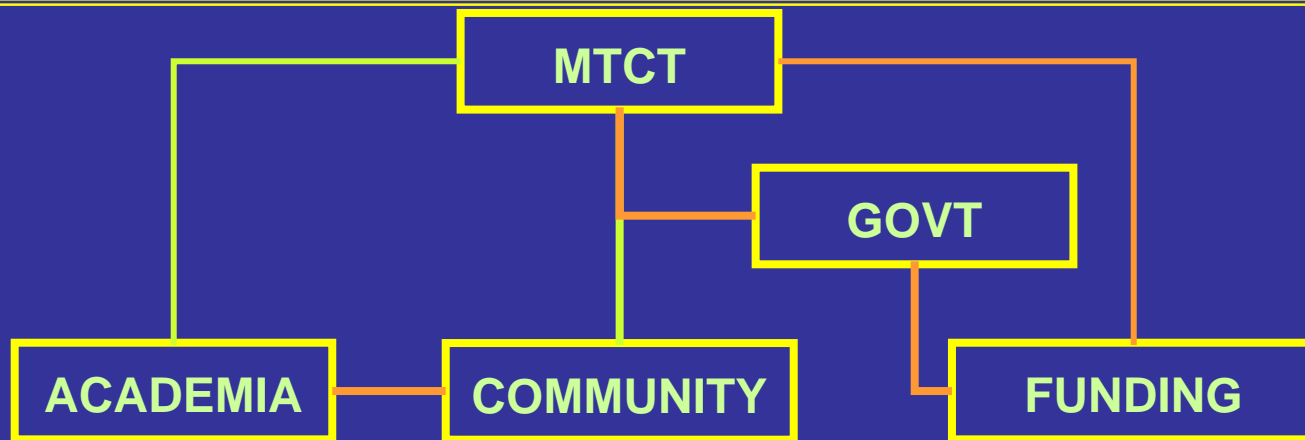


FARMERS COOPERATIVES



MTCT MODEL





- **MTCT**
 - Fund mobilization
 - Community mobilization and training
 - Negotiates on behalf of the community
 - Project management & monitoring

- **ACADEME**
 - Mentor
 - Training
 - Research
 - Monitoring
 - WEL

- **Community**
 - Land
 - Nursery establishment
 - Jatropha cultivation
 - Harvesting
 - Local utilization

MUKWAMHALANGA TUKONDJENI

COMMUNITY TRUST

What is MTCT?

- **MTCT is a registered non-profit NGO**
- **Founded in 2005 by the First Lady of Namibia**
- **MTCT is a voluntary organisation**
- **The main aim is to facilitate community sustainability**
- **Focused on facilitation, support and economic empowerment of women**



Main Objectives of the Trust

- **Improve agriculture productivity through timely support for agric input**
 - **Seeds and organic fertilizers,**
 - **irrigation facilities, land utilisation**
- **Creating local self-employment opportunities**
 - **Mentoring**
 - **Skills training**
- **Organise awareness campaigns for women**
- **Promote local products in urban market**

CURRENT ACTIVITIES

- **Fund raising**
 - **Community mobilization in 6 regions**
 - **Community training**
 - **Nurseries establishment in the community**
 - **Brokering suitable land utilization**
 - **Brokering best business arrangements**
 - **Seed procurement**
 - **Coordination**
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CHALLENGES

- ✓ LAND TENURE
 - ✓ AWARENESS
 - ✓ APPROPRIATE POLICY
 - ✓ LIMITED CAPACITY WITHIN COMMUNITIES
 - ✓ FUNDING (NO SUBSIDY, TAX INCETIVES)
 - ✓ UNCERTAIN FUTURE MARKETS
 - ✓ COMPETING PROJECTS
 - ✓ EMPIRICAL DATA
 - ✓ MULTI LEGAL FRAMEWORKS
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RECOMMENDATIONS

- ✓ **Tax incentives**
 - ✓ **Land tenure management**
 - ✓ **Govt development grants**
 - ✓ **Policy and regulatory framework**
 - ✓ **Scalable subsidies**
 - ✓ **Down stream marketing**
 - ✓ **Community awareness**
 - ✓ **Life cycle analysis**
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What to consider when choosing energy crops

- CHOICE OF CROP TYPE FOR STOCKFEED IS CRUCIAL
 - QUESTIONS TO CONSIDER:
 - ✓ Is it a food crop or non-food crop?
 - ✓ Is it perennial or annual crop?
 - ✓ Is it Irrigated or rain-fed crop?
 - ✓ Can it grow on marginal lands?
 - ✓ Has it got a high energy balance crop?
 - ✓ Can it be done with low management and labour cost?
 - ✓ Has it got high oil content % per yield/ha?
 - ✓ Any potential for multiple use?
 - ✓ Any land use, land tenure problems?
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THANK YOU FOR LISTENING
