

### **SADC Economies**



### 16 Member States

Phase 1: Angola, Botswana, Eswatini, Lesotho Malawi, Mozambique, Namibia, South Africa, Zambia, Zimbabwe

Phase 2: Comoros, DRC, Madagascar, Mauritius Tanzania, Seychelles,



### **Low Income Countries**

UNCTAD, 2024

DRC, Malawi, Mozambique, Madagascar,

Countries

### Lower Middle Income

World Bank, 2024

Angola, Comoros, Eswatini, Lesotho, Tanzania, Zambia Zimbabwe

### **Small Island Developing States** (SIDS)

Comoros, Mauritius, Seychelles

Land **Locked Developing** Countries (LLDCs)

UNCTAD, 2024

Botswana, Eswatini, Lesotho, Malawi, Zambia, Zimbabwe

**High Income** World Bank, 2024 Sevchelles



### **Upper Middle Income**

World Bank, 2024

Botswana, Mauritius, Namibia, South Africa





### Regional Agriculture Investment Plan



**Production & Productivity** 

Production, Productivity and Competitiveness

Market & Trade

Increased Access to Markets and Trade of Agriculture Products

**Investment & Finance** 

Increased Investments in and Access to Finance for Agriculture

**Food Security & Nutrition** 

Improved Food and Nutrition Security





## **SADC CONTEXT**



43%



17.4 Mln

SOFI, 2023

World Bank, 2023 Poverty headcount ratio at \$2.15 a day



33%

AUDA NEPAD, 2024



**GDP** 

\$721.3 Bln

SADC, 2018



363 Mln



556 781km2

SADC, 2024





### **Investment Enablers in Southern Africa**

### Infrastructure

5 Ports, Rail, & Road Network

### Climate

**Favourable** Climatic consitions

### **Challenges & Opportunities** for Investments

### **Challenges:**

- Low investment in agriculture production and productivity enhancement infrastructure e.g. irrigation, mechanization, industrialization, digital technology etc. ~7% of cultivated area equipped for irrigation (IWMI, 2023)
- Low levels of Intra-African trade: similar production, inadequate trade, sub-optimal infrastructure, High tariff and non-tariff barriers

### Peace & Security

SADC Region enjoys Peace and Security

### **Financial Sector**

Considerably **Functional** Financial Sector

### **Policy**

Regional Agriculture

### Demographics

Increasing youth population



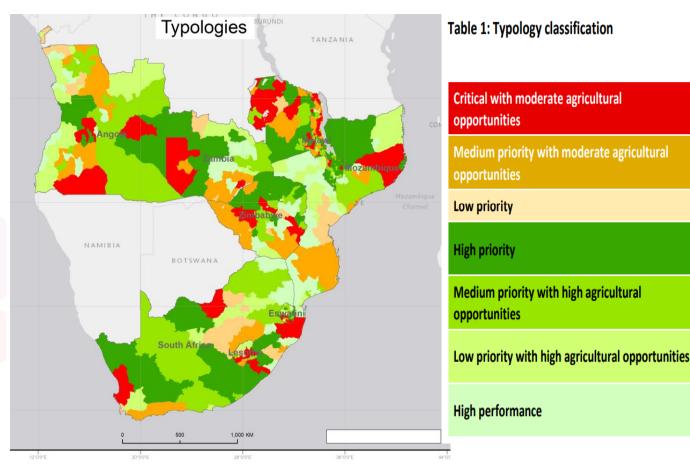


### **Opportunities:**

- Irrigation development
- Industrialization focusing on agro-processing and value addition
- Smallholder farmer aggregation



## **Typologies & Delivery Axis**



Phase 1: 2024

- 1. Climate Smart Agriculturea. Irrigation "Small Reservoirs"b. Solar pumps
- 2. Market Trade Integration

  Phase 2 2025
- 3. Agro-industrialization and Mechanization

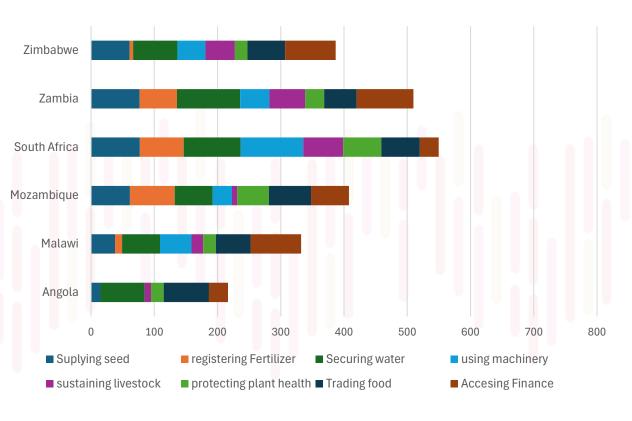
Source: HIH GIS team, 2024





### **The Southern Africa Enabling Environment**

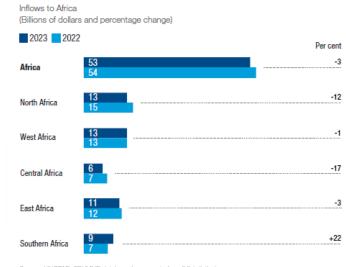
### **Enabling the Business of Agriculture**



Source: World Bank, 2019



### Foreign Direct Investment Flows to Africa 2022-2023 Comparison



Source: UNCTAD, FDI/MNE database (www.unctad.org/fdistatistics).

	Ease of getting credit rank	Domestic credit to private sector (% of GDP)
South Africa	80	138.8%
Angola	185	14.3%
Zimbabwe	67	13.1%
Zambia	4	14.7%
Botswana	80	31.8%
Mozambique	165	22.6%
Namibia	80	62.0%
Eswatini	94	20.7%
Lesotho	94	18.8%

Source: WB Ease of doing business. Calculations: WE4F



# AfDB Country Food and Agriculture Delivery Compacts (Government Commitments)

### **Angola**

- The National Grain, Livestock & Fisheries plan.
- Granting Land rights for private use.
- Tax incentives by zones.

#### **Botswana**

- Establishment of commercial clusters.
- The Agricultural Credit Guarantee Scheme (AGCS).
- Establishment of a Meat Industry Regulatory Authority (MIRA).

#### Lesotho

- National agriculture development plan.
- Title to Land by foreign companies, & local shareholding 20%.
- Land titling and improving access to (irrigated) serviced land.

#### Malawi

- Import duty and VAT waivers on agricultural equipment etc.
- Tax holiday up to 10 years for agroprocessing etc.

### Mozambique

- VAT exemption for agricultural imports.
- Corporate tax rates lowered from 32% to 10% for the agriculture sector.
- Tax incentives for new investments for the next three years.

#### Namibia

- Renewable energy projects in remote rural areas.
- Energy self-sufficient via renewables and export of power to the region.
- Open energy sector space to private sector since 2019.

#### **South Africa**

- Dual agricultural economy.
- ~2.7 million farmers engaged in subsistence agriculture.
- Establishment of Agriparks.

#### **Eswatini**

- Strategic projects to drive agriculture development.
- Special Economic Zones (SEZ).
- Export credit guarantee scheme.

#### Zambia

- Enabling environment for private sector growth.
- Development of farm blocks focusing on crop diversification.
- Creation of agricultural production and processing zones.

#### **Zimbabwe**

- Reduced Tax for processing companies which exports between 20 to 15%.
- Special Economic Zones (SEZ):
- Farmer Subsidy Programmes.







### HiH Southern Africa a multi-partner program complementing ongoing efforts

### National governments and.....







































.....and many others including private sector

# Investment Case 1

Small Reservoirs for Irrigation

[Climate Smart Investment]



### **Regional Irrigation HiH Investment Program**

### State of Irrigation & Water Management

01

Agriculture in the region is mainly rainfed, with only ~7% of cultivated area equipped for irrigation

02

Inequal distribution of water resources across the region (less surface water in southern countries)

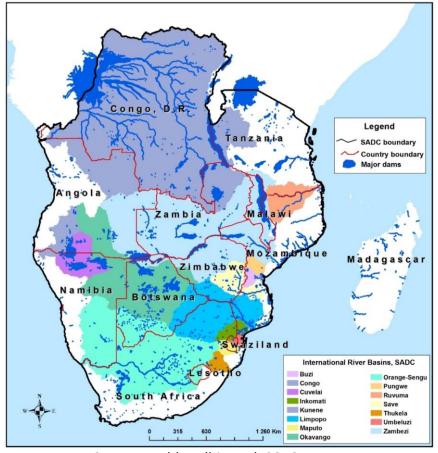
03

Low water harvesting and storage capacity – only 1% of runoff is dammed

04

Current storage capacity is dwindling through the siltation of existing reservoirs.

### Transboundary river basins and dams









### Regional Irrigation HiH Investment Program

Regional Strategic Action Plan IV

SADC Regional Agricultural Policy

SADC protocol on shared water sources

#### **Key Bottlenecks Key Investment Needed Inadequate storage capacity** for Implementation of small reservoirs irrigation on 55,000 ha suitable for irrigation in 5 countries, surface water to meet water demands for irrigation to increase for maize, wheat and horticulture. yield and food production **Insufficient groundwater** Provide high quality and sustainable irrigation **infrastructure** resulting in failure to equipment such as solar powered pumps to supply water to communities for smallholders dependant on groundwater resources. 26,000 hectares are covered in 7 irrigation purposes countries. **Lacking** water Integrated Water Governance at the basin resources governance and level applying existing policy framework about management water resources management

### **Irrigation Investments Prioritized:**

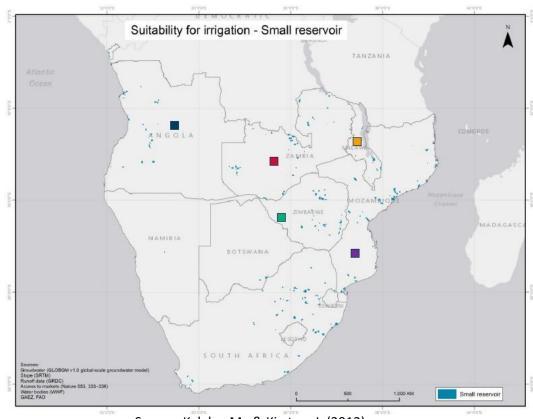
- **Type 1**: Small scale community-managed reservoirs for irrigation
- **Type 2**: Small scale private investment in Solar powered irrigation pumps for high valueadded crops

Risks	Mitigation measures
Limited availability, unafford able costs, and poor reliability of technologies.	Introduce smart subsidies to encourage participation of the private sector in the supply of the suitable and sustainable technologies.
Competition for water resources use.	Promote participatory approaches for water governance and dialogue to stimulate shared use between water users.



### 1

### **Irrigation on Small Reservoirs - Phase 1**



- Total hectares targeted: 55,020
- Capital Investment required :
   284 million USD over five years
- NPV: 141 million USD
- IRR (20-year): 17%

#### Narrative:

- Reservoir Size: At most, 100 hectares (ha) in surface area; Storage capacity below 30 million cubic meters (Mm3); Dam wall height< 15 m.
- ✓ Sustainable and inclusive water governance management practices.
- Public sector-oriented investment.

Source: Kalaba, M., & Kirsten, J. (2012).

Mozambique 6,483 Ha Investment \$50.2 million NPV \$26.3 million IRR 18% Beneficiaries 41,032 Zimbabwe 24,962 Ha Investment \$80.3 million NPV \$36.3 million IRR 16% Beneficiaries 157,984 Angola 10,869 Ha
Investment \$84.3 million
NPV \$26.2 million
IRR 13%
Beneficiaries 68,789

Malawi 5,687 Ha
Investment \$44.4 million
NPV \$13.6 million
IRR 13%
Beneficiaries 35,996

Zambia 7,017 Ha Investment \$24.7 million NPV \$5.8 million IRR 11% Beneficiaries 44,424





# Investment Case 2

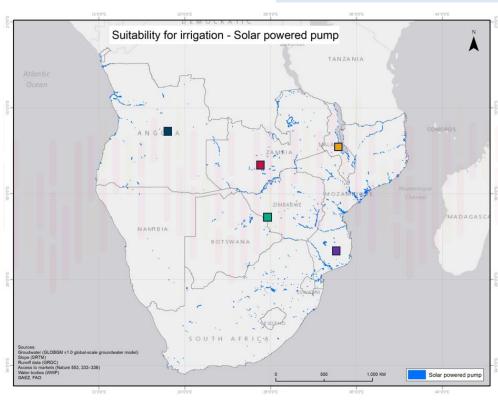
Solar Powered Irrigation Pumps

[Climate Smart Investment]





### **Irrigation on Solar Powered Pumps - Shallow Aquifers- Phase 1**



Source: FAO, HIH GIS team, 2024

Malawi 4,354 Ha **Investment \$26.6 million** NPV \$13.6 million **IRR 23%** Beneficiaries 24.188

NPV \$48.1 million **IRR 25%** Beneficiaries 27,803

Mozambique 5,005 Ha Investment \$59.6 million Total hectares targeted: 26,217

Capital Investment required: **269 million USD** over five years

NPV: 188 million USD

IRR (20-year): 24%

- Narrative:
- Irrigation equipment (including solar pumps, fenced enclosure, drip irrigation kits) for small-scale agri-entrepreneurs, suitable for high value-added crops. 20-year life cycle of solar panels.
- Four-year life cycle of pumps with a progressive adoption rate by communities.
- Sustainability: Optimum pumping in line with the recharge capacity
- Private irrigation systems for smallholder farmers

Zambia 10.180 Ha Investment \$99.9 million NPV \$63.4 million **IRR 24%** Beneficiaries 56,558

Zimbabwe 3,017 Ha **Investment \$28.7 million** NPV \$20.7 million **IRR 26%** Beneficiaries 16,170

Lesotho 100 Ha **Investment \$1.7 million** NPV \$1.3 million **IRR 22% Beneficiaries 111** 

Eswatini 1000 Ha

NPV \$9.4million

Beneficiaries 1,111

Angola 2,562 Ha

NPV \$15.7 million

Beneficiaries 14.231

**IRR 28%** 

**IRR 23%** 

**Investment \$10.1 million** 

Investment \$25.4 million











### **Market integration and trade**

#### **Potential:**

- ✓ Increase intra-regional trade of agricultural products due to differences in comparatives advantages.
- ✓ Increase integration in global value chains
- ✓ Optimize benefits from AfCFTA

## High import and export tariffs on agricultural products

Region/ country	Average import duty	Average export duty
Africa	19.58	9.86
SADC	13.56	12.48
Angola	6.9	7.9
Botswana	12.9	9.3
Lesotho	12.6	9.3
Malawi	15.2	2 14
Mozambique	12.9	10.6
Namibia 💮	13.2	9.3
Sou <mark>th</mark> Africa	13.9	12.8
Swaziland	13.4	9.3
Zambia	13.1	15.9
Zimbabwe	11.3	19.4

Source: IFPRI, 2017

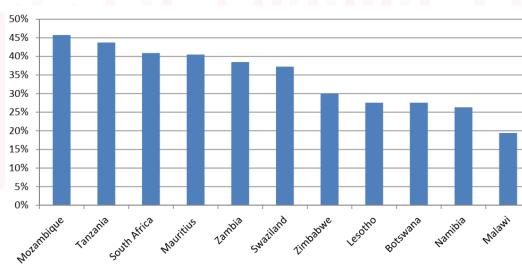


#### **Challenges:**

- Limited diversification from primary commodities
- participation in regional and global value chains is inhibited by high trade costs (tariff, nontariff barriers, policy factors, custom inefficiency infrastructure, etc).
- Slow implementation of SADC objectives, lack of political coordination

### 2 High Non-tariff measures

#### NTM Coverage of Agricultural products

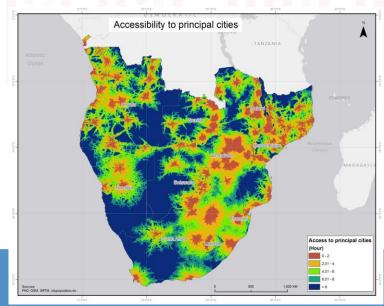


Source: Kalaba, M., & Kirsten, J. (2012).

### Border costs and infrastructure

Time to export: Border	Time to import: Border	
compliance (hours)*	compliance (hours)	
74	59	

Source: World Bank 2020





### **Market integration and trade - Phase 1**

Key Bottlenecks	Key Investment Needed
High import and export tariff to agricultural products across regional countries	<ul> <li>✓ Establish a single common external tariff to become a customs union. Capitalize on ongoing political efforts to progress under the AfCFTA.</li> <li>✓ Reduction of on import and export tariffs of 50% in the agricultural sector represents a decrease in tariff collection for all Southern Africa countries of ~2.2 billion USD. Phase 1 ~734 million USD</li> </ul>
Failure to implement the political agenda to remove and lower NTBs, leading to a rate equivalent of 20% in the region	<ul> <li>✓ Prioritize regional policies over national. Elimination of unnecessary nontariff barriers, under the SADC and SACU framework</li> <li>✓ Adoption of common rules of origin, harmonization of customs rules and procedures attainment of internationally acceptable standards, quality, accreditation, and metrology, harmonization of sanitary and phyto-sanitary measures</li> <li>✓ Costs incurred from reducing NTM's in 80%: ~225 million USD. Phase 1 ~75 million USD</li> </ul>
High customs inefficiency leading to additional trade costs and time spent at the border	<ul> <li>✓ Comply with SADC core mandate to create OneStop Border Posts (OSBP) and convert the region's busiest border (Beitbridge) into a one-stop facility</li> <li>✓ Adoption of the Automated System for Customs Data (ASYCUDA) to reform customs clearing procedure and implement the standard nomenclature for traded goods.</li> <li>✓ Ensuring Trade Facilitation Agreement can reduce time in ~5 hours (WB 2020)</li> <li>✓ Reduction of ~4% in costs representing decrease in collection in Southern African counties of ~ 96 million USD. Phase 1 ~32 million USD</li> </ul>



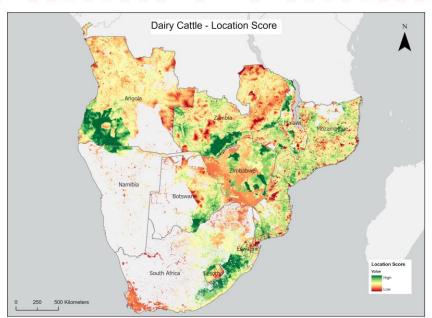


### **Market integration and trade**

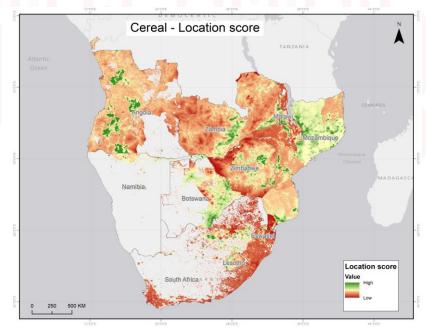
### Additional trade enhancing private sector investments to create market /non-market infrastructure:

- Cold storage facilities, agro-processing units, slaughterhouses, collection centers for crops and dairy products, aquaculture
- Supporting services (e.g. energy, water infrastructure, veterinary centers, telecommunications)

### **Candidate locations for markets and supporting facilities**



Source: FAO, HIH GIS team



Source: FAO, HIH GIS team







### **Market integration and trade - Phase 1**

### Integration in a 3-phase implementation over 20 years

	"Investments" by country for Phase 1	Estimated returns
Country	in million \$US	IRR (%)
Angola	47	TBD
Botswana	26	17
Eswatini	28	8
Lesotho	13	17
Malawi	25	30
Mozambique	64	20
Namibia	40	15
South Africa	468	24
Zambia	49	25
Zimbabwe	65	22

Additional impacts / benefits:

- √ %50% reduction in tariffs and 80% reduction in non-tariffs measures can increase the region's GDP by 0.3% (IFPRI 2022)
- ✓ Reduction of ~5 hours at border represents gains for ~205 million USD for private sector
- ✓ Extreme poverty reduction in Southern Africa attributable to AfCFTA: ~4 million people (WB, 2020)
- ✓ Moderate poverty reduction in Southern Africa attributable to AfCFTA: ~9 million people (WB, 2020)
- ✓ **Employmen**t projection in agriculture of **29.8%** (WB, 2020)

Total 827





Net Benefit Phase 1: \$ 215 million USD per year

### **Summary Southern Africa Investment plan**

#### **Total Investment**

Irrigation: 553 Million USD Market integration: 827 Million USD

### **Average IRR**

Irrigation: 20%
Market integration: 24%

Irrigation Total **Beneficiaries**: 704,402 Market integration Total **Beneficiaries** 36.6 million **475,854 MT**Co2e
Sequestration

1

#### Intervention

Type 1: community investment Small reservoirs

### **Total Investment (\$US)**

284 million

### IRR (%)

17

#### NPV (\$US)

141 million

### **Sustainability Benefits**

Direct beneficiaries: 174,113

Indirect beneficiaries: 348,225

Income increase per capita (\$US):

120

Co2e sequestration: 322,284 MT

#### Intervention

Type 2: Private sector investment Solar pumps

### **Total Investment (\$US)**

269 million

### **IRR (%)**

24

### NPV (\$US)

168 million

#### **Sustainability Benefits**

Direct beneficiaries: 36,413

Indirect beneficiaries: 145,651

Income increase per capita (\$US):

411

Co2e sequestration: 153,570 MT

#### Intervention

Market integration / trade - Phase 1

#### **Total Investment (\$US)**

827 million

### **IRR** (%)

24

### NPV (\$US)

215 million

### **Sustainability Benefits**

Direct Beneficiaries: 5.3 M

Indirect Beneficiaries: 31.3 M

Income increase per capita:

US\$33



