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Logistics and Trade Facilitation
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**The Role of Logistics in Food Security
Angolan experience on challenges, opportunities,
approaches, and solutions**

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Harnessing sustainable and food transport and logistics for food security



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The Role of Logistics in Food Security

Angolan experience on challenges, opportunities, approaches, and solutions





Discussion Points:

- 01 Institutional Overview
- 02 Challenges and Opportunities for Cold Storage
- 03 Cold Chain Development for Food Security

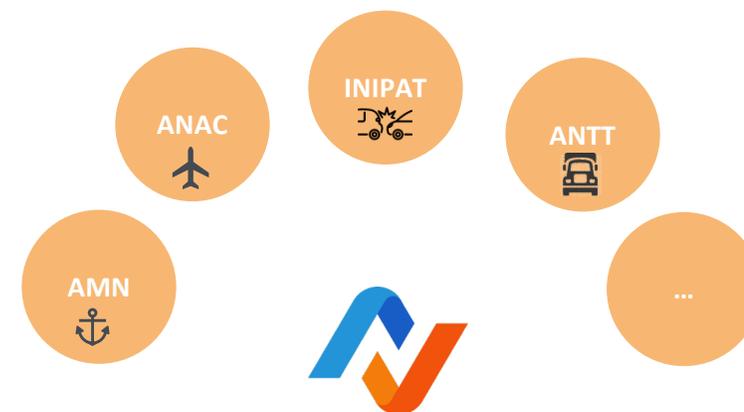
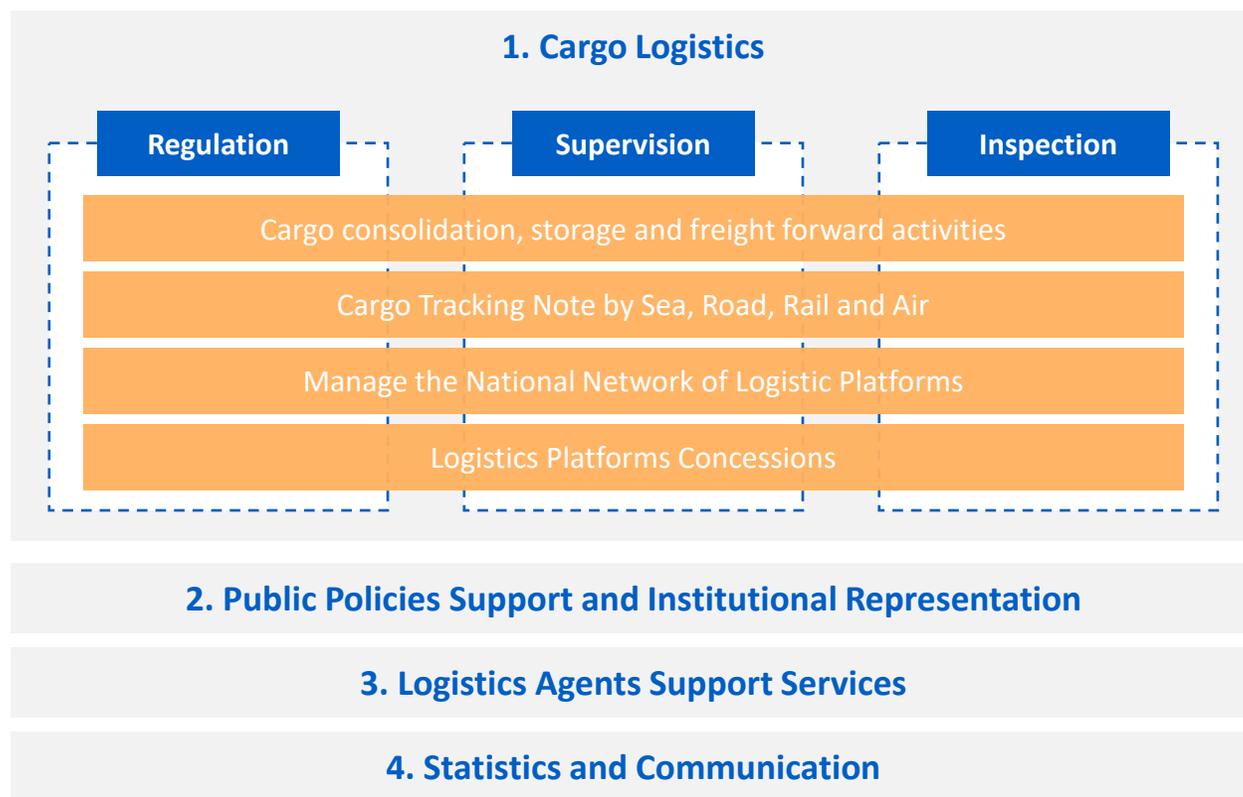


Institutional Overview

01

ARCCLA was established in a effort to develop the logistics sector in Angola – which includes air, sea, rail and road transportation

ARCCLA: STATUTORY MAIN OBJECTIVES



Angola is located in a strategic region – Great opportunity to transform the country into an entry point of goods and as an important logistics hub of the region

ANGOLA: A MARITIME HUB

- The **containerized maritime traffic in Africa** grew, on average, **3,7% per year between 2011 and 2017¹**, the **increasing consumption in the region** and the growth in **international trade**
- **Angola** may capitalize on its **strategic position** on the western coast of the continent, by **improving logistical infrastructures**, crucial to ensure the **interconnection to adjacent countries, via transportation corridors¹**

STRENGTHS

- Critical mass of traffic (transshipment platform for West Africa)
- Connection to strategic corridors
- Global operators already in the Port of Luanda
- Significant growth of African economies

OPPORTUNITIES

- Investments in the transportation links to the regional hinterland
- Capture of new markets (DRC and Zambia)

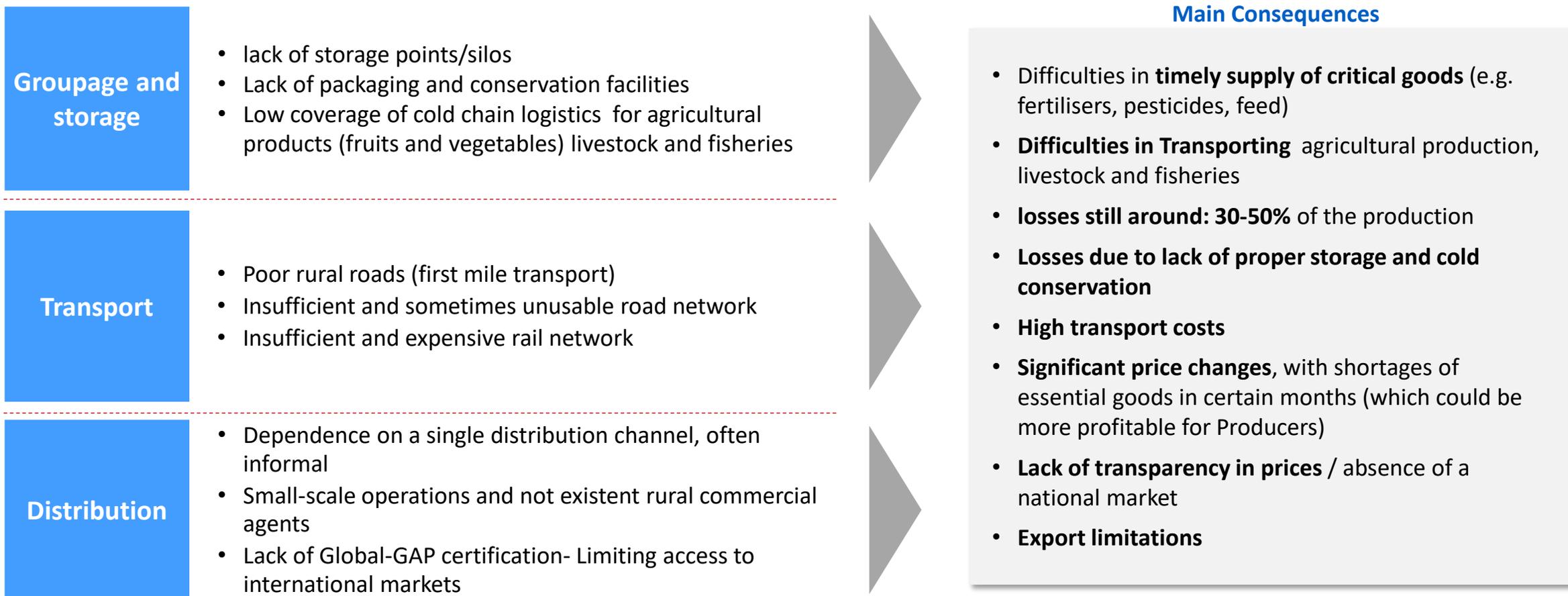
Challenges and Opportunities for Cold Storage

02

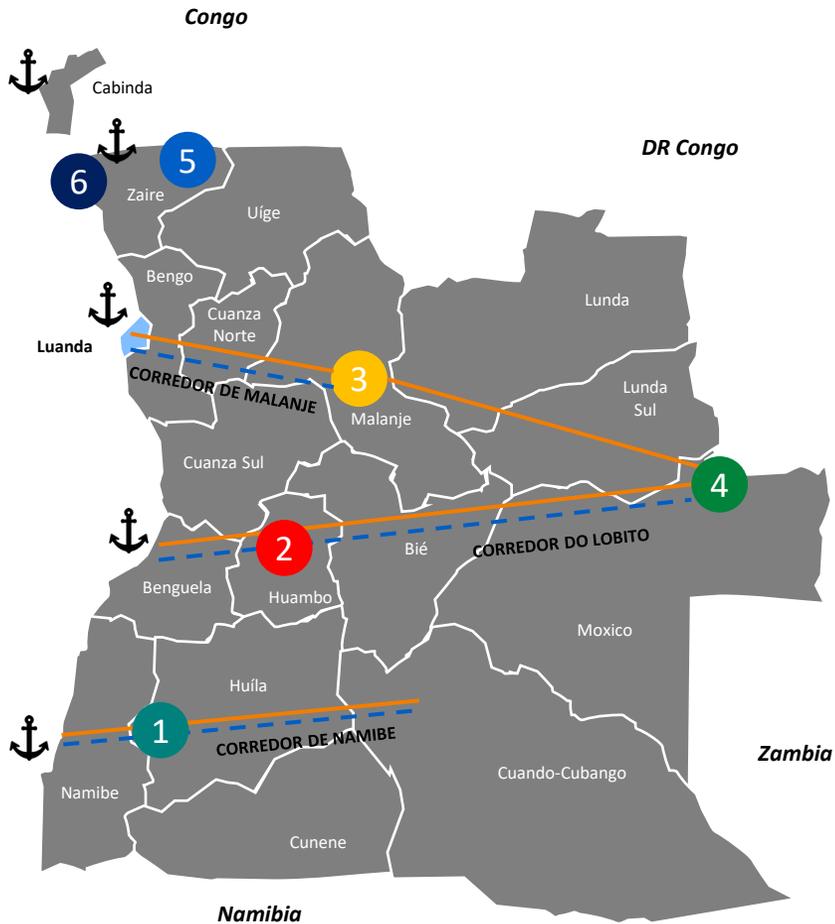


The limitations of rural logistics results in significant losses to the primary sector – Between 30%-50% of production is lost due to inadequate logistics infrastructures

OVERVIEW OF THE MAIN PROBLEMS IDENTIFIED



The first stage of the National Network of Logistics Platforms entails the construction and promotion of 6 logistics platforms, scattered across strategic locations in Angola

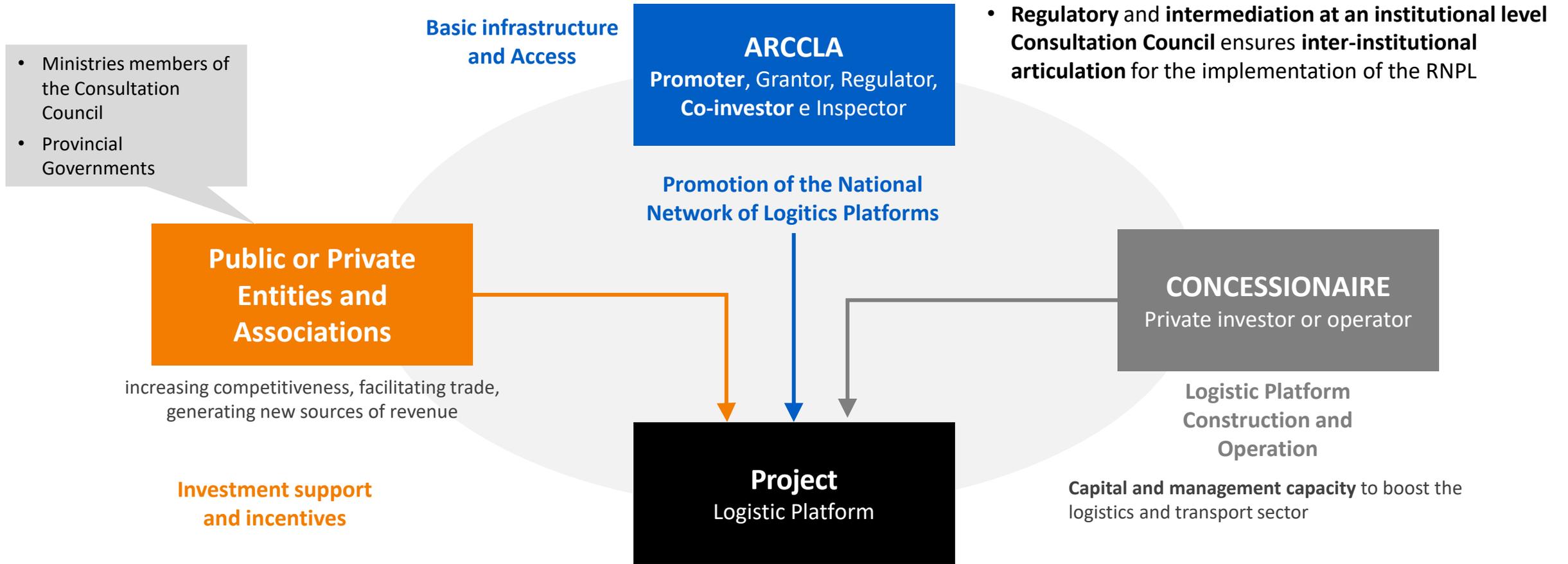


- 1** Logistic Platform of **Arimba, Huíla**
- 2** Logistic Platform of **Caála, Huambo**
- 3** Logistic Platform of **Lombe, Malanje**
- 4** Logistic Platform of **Luau, Moxico**
- 5** Logistic Platform of **Luvo, Zaire**
- 6** Logistic Platform of **Soyo, Zaire**

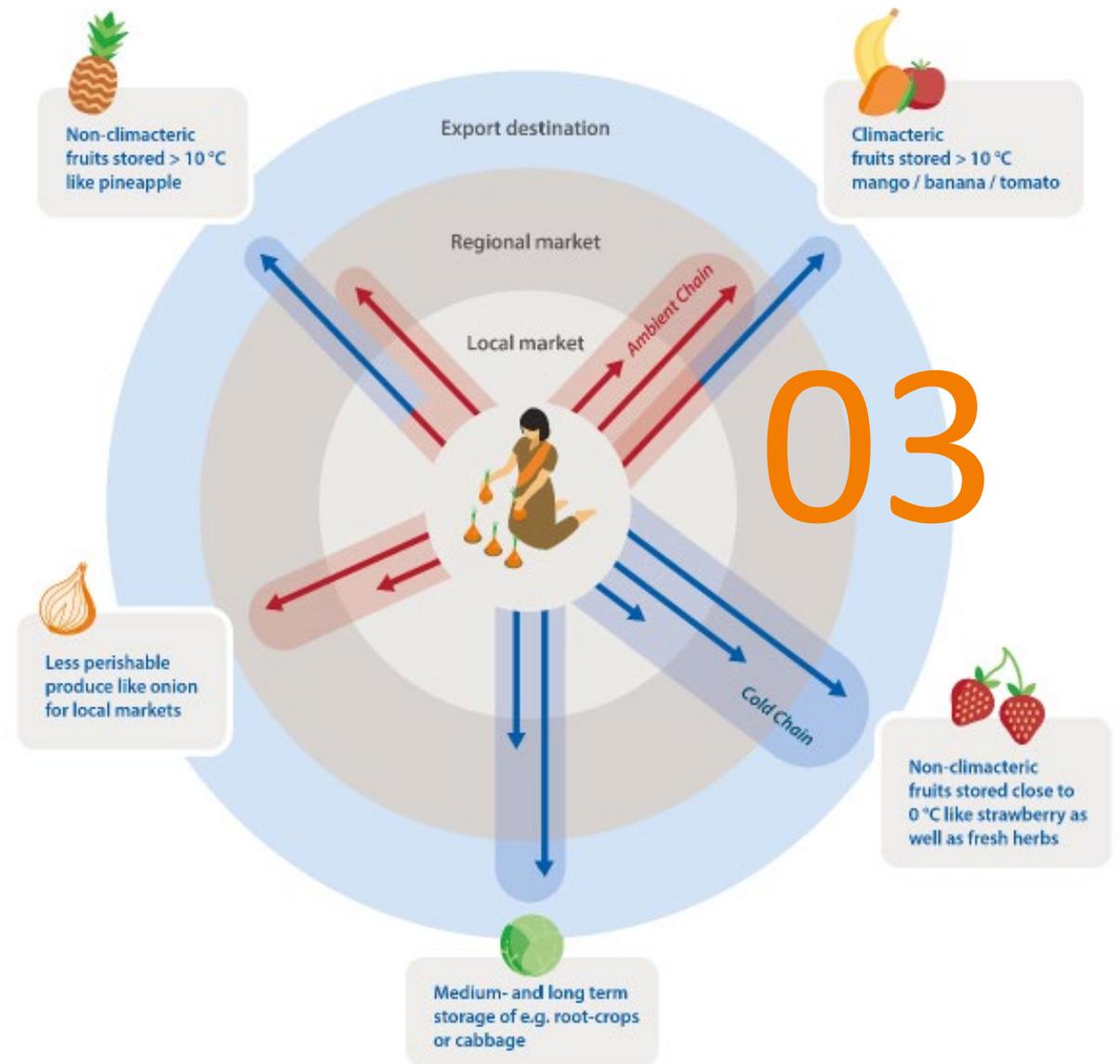
- Located near strategic **multimodal transportation corridors**
- **There are other 3 cross border platforms** for the first phase of concessions.
- The Platforms will be awarded to **private entities** via **public tenders** (DBOT model)



The model is based on a **Public-Private Partnership (PPP)** under which **ARCCLA** assumes the promoter role and provides capital to basic infrastructure to reduce the financial risk of the project



Cold Chain Development for Food Security



PROVEN MOBILE & OFF-GRID TECHNOLOGY



CHARACTERISTICS



Truly portable solution, 20 ft, 5 t capacity



Solar energy low cost, 30+ hours; generator back-up



4 - 10°C temperature range

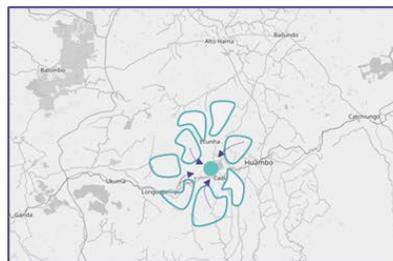


IoT for lower maintenance cost

An intermediate (temporary) Cold Logistics solution was designed to meet the immediate storage and flow needs of local agricultural production, with potential for scalability to other regions

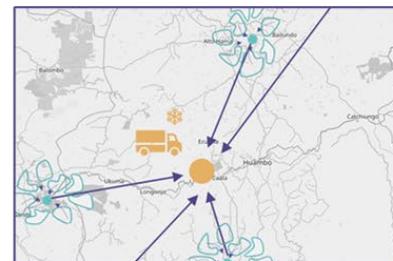
Temperature-controlled logistics is an **under-recognised** tool for **improving** food security, economic prosperity, public health, whilst limiting **carbon emissions**.

- **Preparatory solution** - Reduce food losses (up to 40%¹) and increase income of small farmers (up to 30 - 100%¹) through extending life by up to 10 times¹
- **Integrated solution**, - Portable cold rooms are transferred to satellite locations (e.g., close to commercial farms that serve as consolidation points for smallholders, or within farming communities) to increase radius / perimeter of the facility at Caála



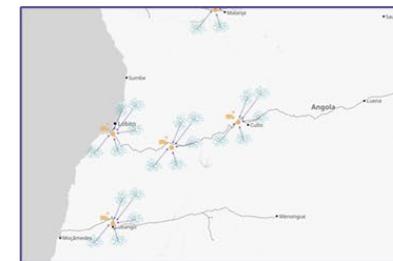
Proof of Concept
cold storage units at Caála LP terrain

- Public investment ARCCLA
- Management / O&M contract with operator consortium



Full-fledge cold store
at Caála LP

Satellite cold storage units
of Caála LP



Scale-up cooling at National **Network**
of Logistics Platform

The investments to be made in the transport and logistics sectors are aligned with the UN Sustainable Development Goals

SUSTAINABLE INVESTMENT AND DEVELOPMENT

Angola joined the United Nations initiative and committed to the **Sustainable Development Goals** (SDGs). The investments to be made should contribute to the fulfilment of these objectives (SDGs), namely in issues related to:

✓ **Economic improvements**

- Infrastructure as a catalyst for growth
- Increasing customer service, inducing development
- Efficient supply chain as a locomotive for ancillary business services

✓ **Regional Development**

- Regional competitiveness and integration into a global trade network through partners' global presence
- Promotion of economic activity along the corridors and at the international gateway at the end of the corridors

✓ **Territorial and social cohesion, employment & training**

- Employment and training for the Community

Obrigado
Thank You
Danke
Merci

