

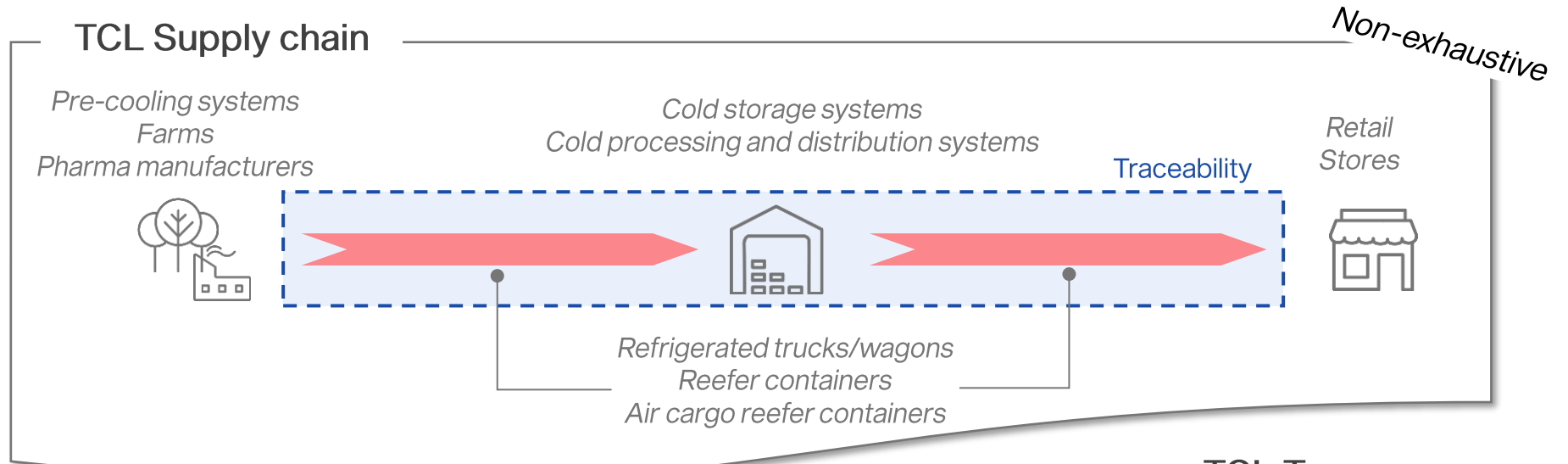
# LATAM'S COLD CHAIN

A way to go: Case Study  
in Dominican Republic

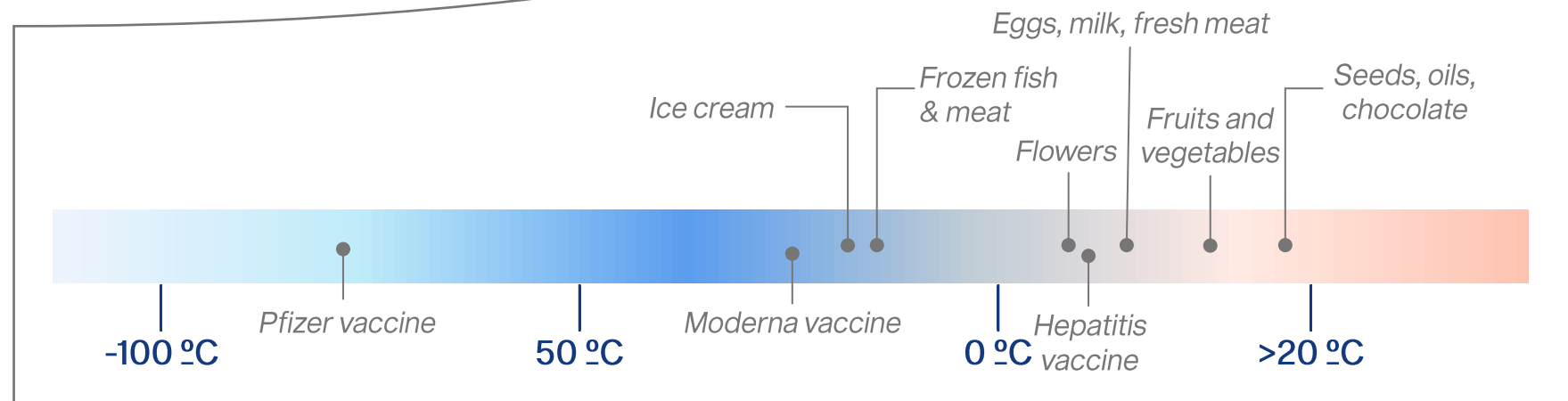


# TEMPERATURE CONTROLLED LOGISTICS

## TCL Supply chain

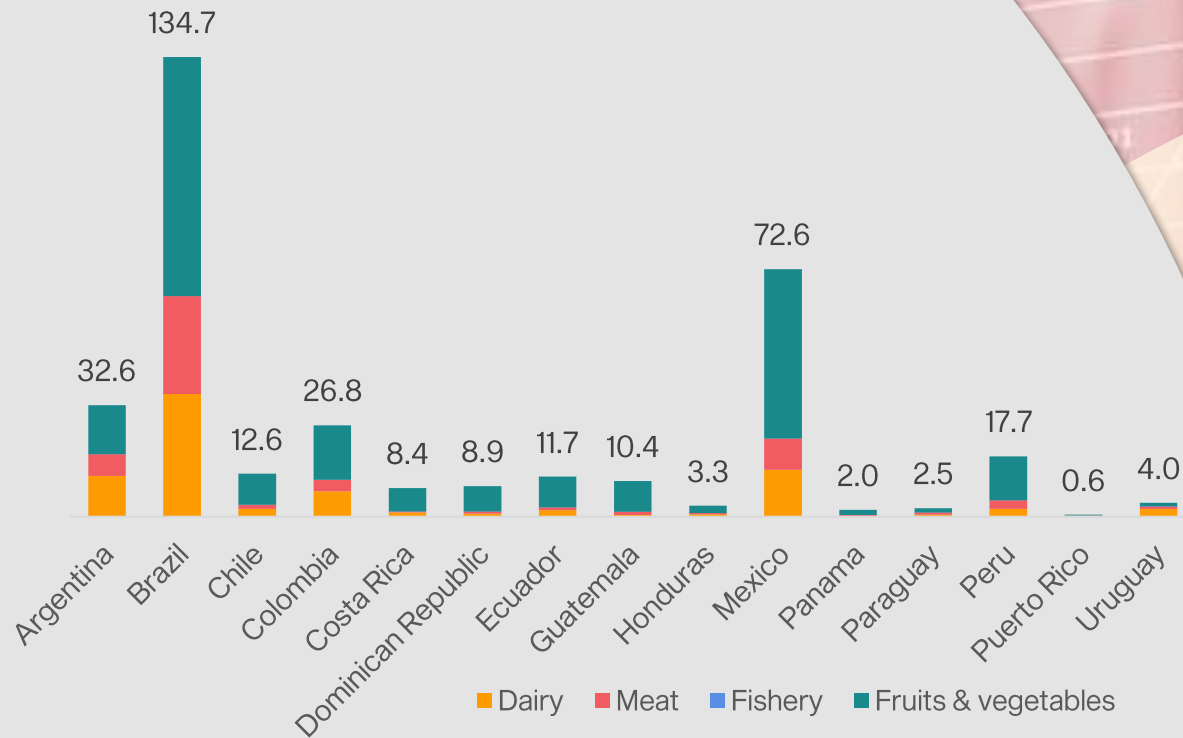


## TCL Types



# LatAm: An overall market of **over 360 MTn** per year

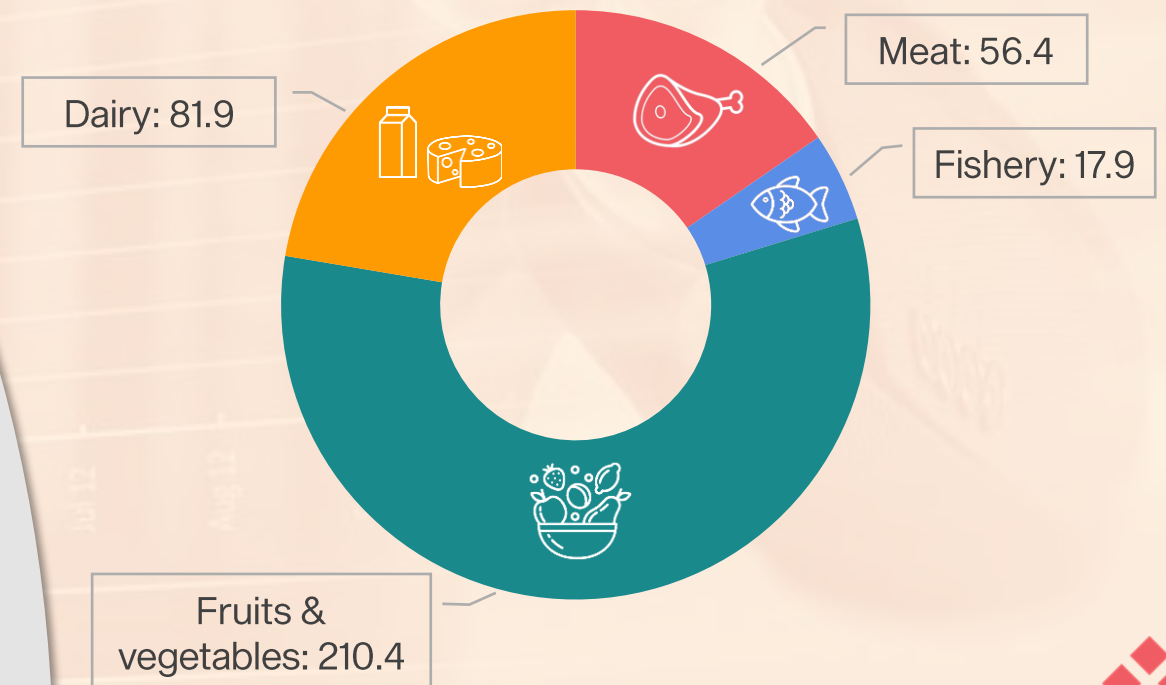
## TCL LatAm market



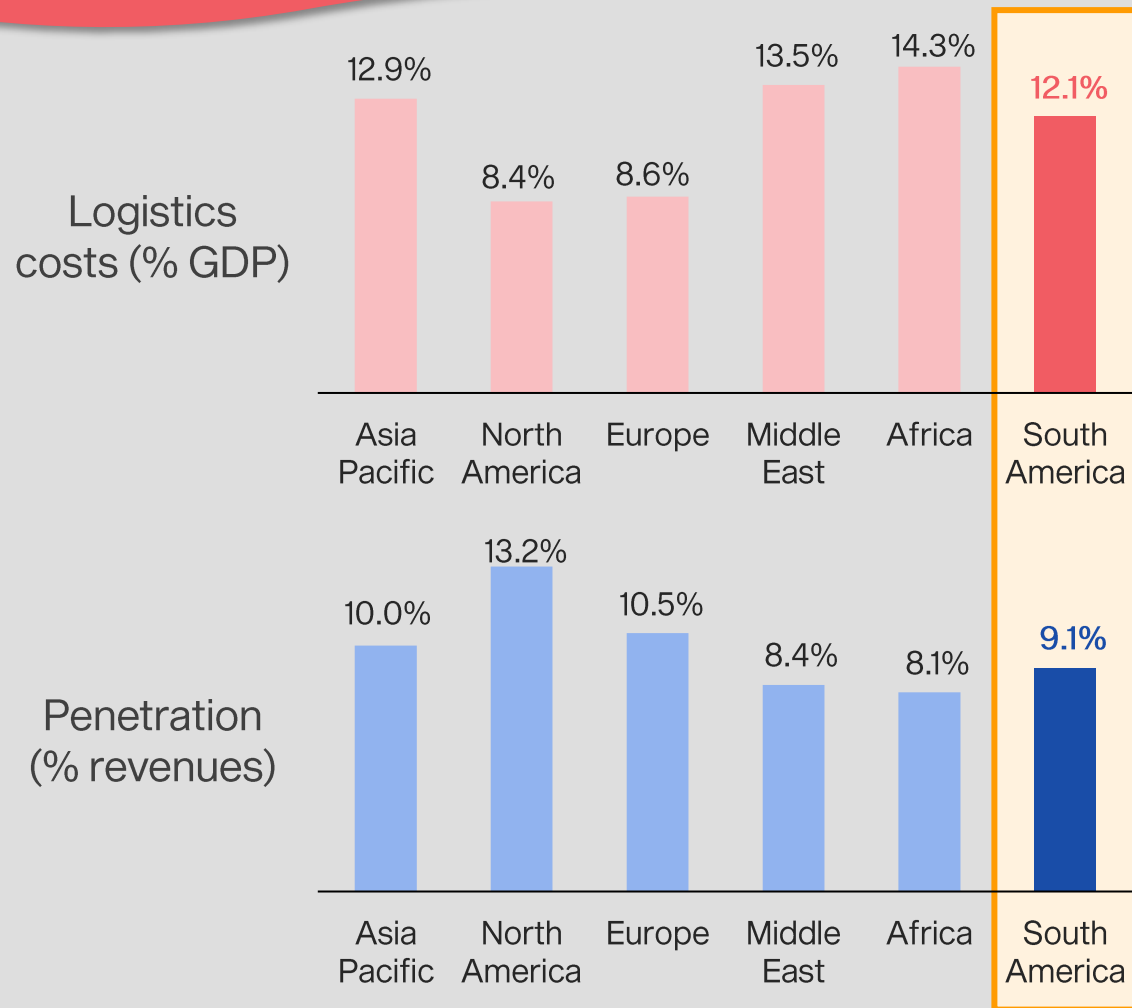
Note: Countries considered Argentina, Brazil, Uruguay, Paraguay, Panama, Guatemala, Honduras, Costa Rica, Dominican Republic, Puerto Rico, Mexico, Chile, Colombia, Peru, Ecuador.

Source: FAOStat (2022), Team analysis

## TCL by industry












# Higher logistics costs and lower penetration than most world regions



Source: Armstrong & Associates

## Challenges

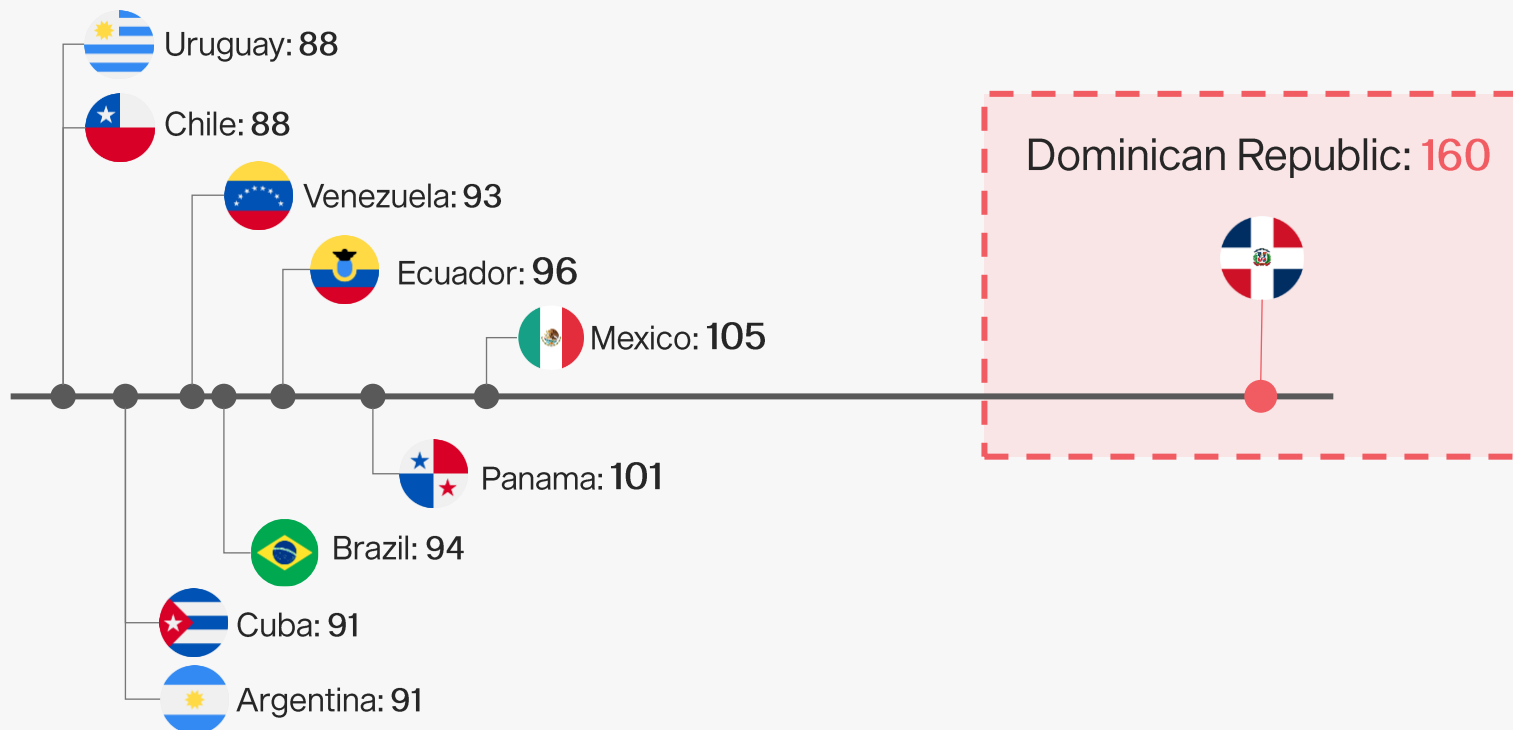
-  **Limited infrastructure** in transport network and warehousing
-  **Outdated warehouses and aged fleet** (>15 years in LatAm)
-  High **investments levels** required for infra and equipment upgrade
-  Lack of **integration** systems and lower IT developments
-  Lack of specialized **human resources**
-  **Higher OpEx** due aged vehicles and obsolete infrastructures
-  **Atomization of transport:** 80% with a fleet size below 5 vehicles
-  Small to medium **local players** leading to lower economies of scale
-  High **seasonality** of some cargoes leading to higher dimensioning





# A way to go: Case Study in Dominican Republic

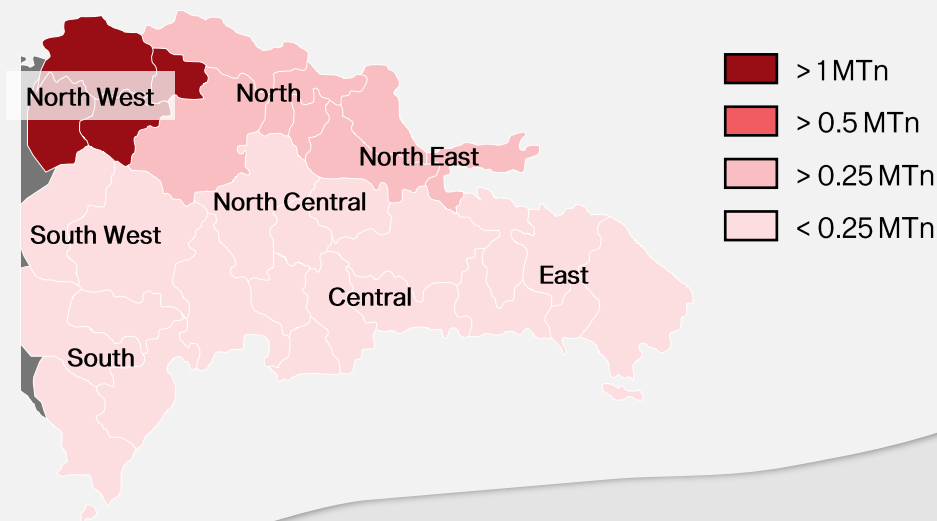
## Food waste in LatAm (Kg per capita)



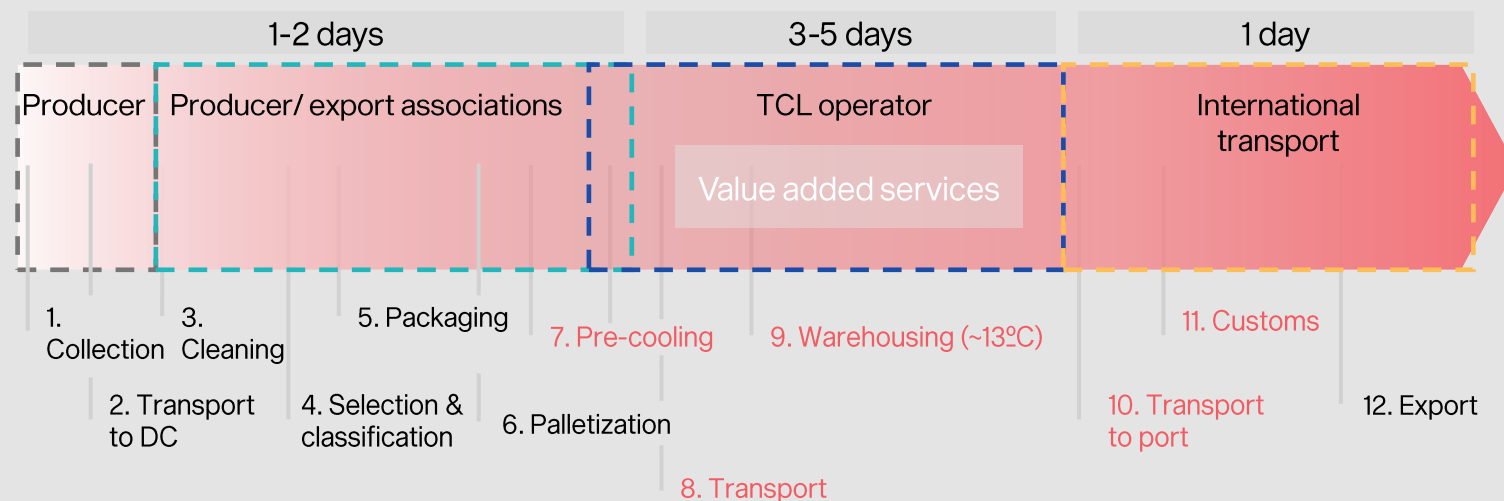
Source: UNEP



## Guinea production (2023)



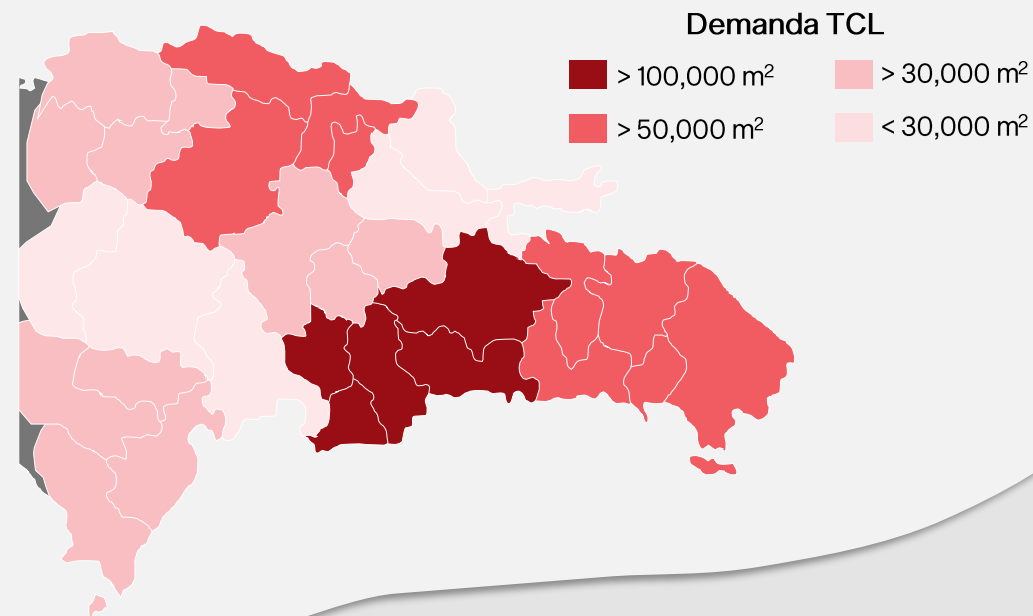
# Dominican Rep. fruit export chain is still inefficient



- 7 Pre-cooling of products to slow down its maturation is not a widespread practice
- 8 Land transport is not done by refrigerated trucks and is costly
- 9 Scarce supply of TCL warehouses in the north of the country
- 10 Cooling and preservation is usually carried out in refrigerated containers
- 11 Customs procedures at the Port are often lengthy and cause cargo losses



# The TCL market in Dominican Republic is estimated at **6.5 Mn Tn**



	Tn	m <sup>2</sup>
Fruits & vegetables	4,700 k tn	270,000 m <sup>2</sup>
Fishery	80 k tn	6,500 m <sup>2</sup>
Meat	600 k tn	41,000 m <sup>2</sup>
Dairy	1,00 k tn	68,000 m <sup>2</sup>

**6,500 k tn    ~390,000 m<sup>2</sup>**



# There is a **limited TCL offering**, mainly in the northern region, limiting the export potential

## Main TCLs in Dominican Republic



## Area (m<sup>2</sup>)

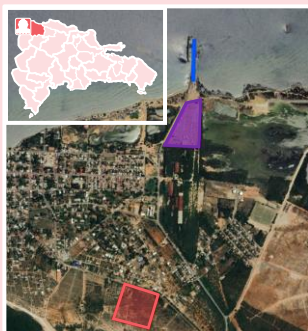
ALFRIDOMSA	6,150
Mercafrio	5,000
MARDOM	1,000
CONGELASA	3,200
C	2,000
FRIO BOX	6,480
ALMAFRIO	2,340
RANNIK	1,700
	6,500
<hr/>	
~35.000 m <sup>2</sup>	

Current TCL installations offering represents **<10%** of the demand

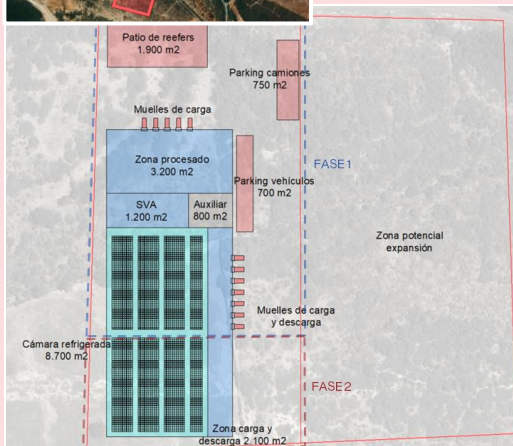
Most TCL installations are in the southeastern region, with **only a small area serving the north**







- Port terminal Puerto Manzanillo
- Temporary reefer storage
- Newport Manzanillo



# A new offering in the northern region would **boost exports**

By 2035

- ~9,000 m<sup>2</sup>
- ~500 kTn

## Services offered

### Storage services

Refrigerated and frozen storage  
Quarantine storage  
Consolidation and deconsolidation  
Quarantine zone and free zone

### Added value services

Pre-cooling	Traceability	Washing and de-stemming
Packaging	Cross-docking	Certification
Sorting	Quality control	Inventory control
Customs services	Inventory control	Palletizing

## Quality of services



Quality and design



Demand adaptability



Flexibility



IT and automation

Class C

Class A

Low

High

Tailored

Modular

Manual

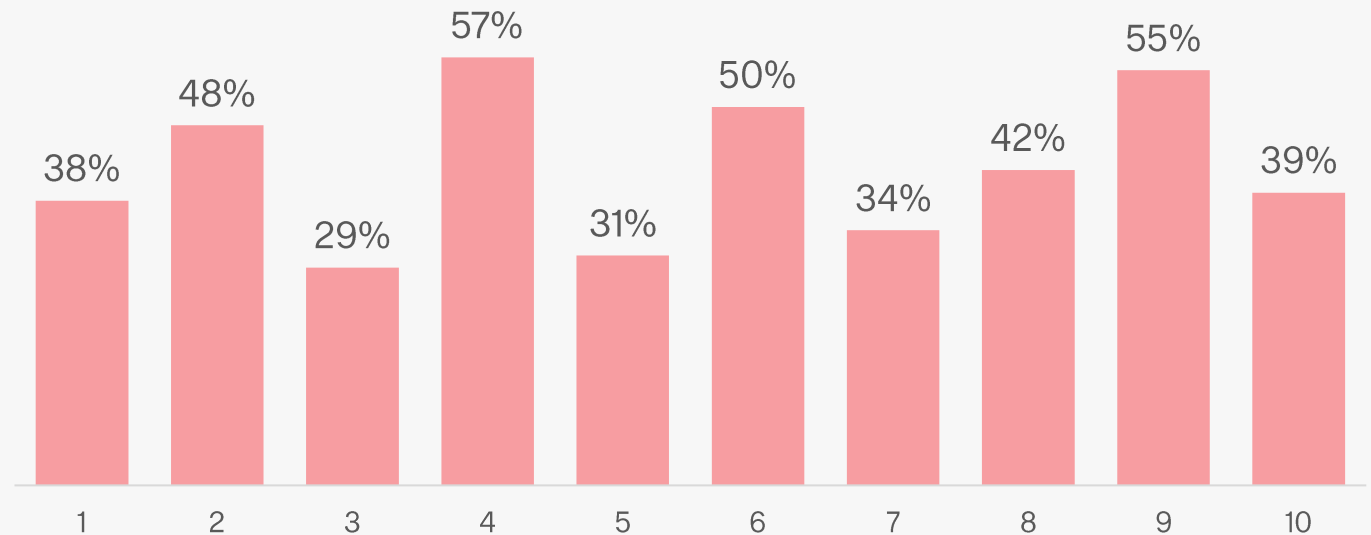
Automated



# Attractive EBITDA margins

Service		EBITDA margin
3PL	Transportation	Very Low (~5%)
	Warehousing	Low (10-15%)
	Cross docking	High (20-30%)
	Other 3PL added value services	High (20-30%)
TCL	TCL service	High (30-60%)

EBITDA margin – LatAm benchmark (%)





# Main takeaways

1

TCL is still in an early stage in LatAm, where waste and informal logistics are responsible for a significant portion of the production

2

More and more, investments in TCL market are being carried out, either by funds, logistic operators or port operators among others, although there is large gap yet to be closed

3

The TCL market in LatAm shows solid and stable strong EBITDA margins of 30-60%, which increases the appetite of the private sector in this healthy growing market

LatAm exporters will benefit from the booming of the TCL sector, thanks to the increase of their competitiveness in a globalized market





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