

Logistics, Warehousing and Distribution of Agricultural Produce: How DHL can help

Abayomi Adetola Commercial Mgr DHL Aviation Lagos, March 2012





Introduction

Agricultural produce are goods representing the largest percentage of FMCG (fast moving consuming goods), they will deteriorate over a given time period if exposed to extreme temperatures (heat or cold), humidity, expanded time or other environmental conditions

- ✓ Fruits & vegetables
- ✓ Meat & sea food
- ✓ Live cut flowers and plants
- ✓ Goods requiring specific conditioning/monitoring

Fresh agriculture produce market is a buyer's market, consumers pay more attention to quality, safety, packaging, etc.

Worldwide ≈ 2,7 million tons of perishables

Main export continents: Latin America & Africa: up to 80% of all airfreight export

Main import continents area: Europe, North America, MEA & Asia



Storage and Warehousing

The **handling and management** of the **entire logistics process** of produce need a temperature controlled supply chain

<u>Products safety</u> has direct impact on the <u>consumer's health</u>.

- Perishables (fruit & vegetables) are living products with limited shelf life after harvest:
- Continue process of respiration after harvest (CO2, H20, heat)
- Heat up after harvest
- Rate of deterioration is determined by rate of respiration
- Rate of respiration is directly proportional with temperature

Responsibility of **everyone involved** from production to retail sale

A **breakdown** in temperature control will **impact on final quality**

30th March 2012

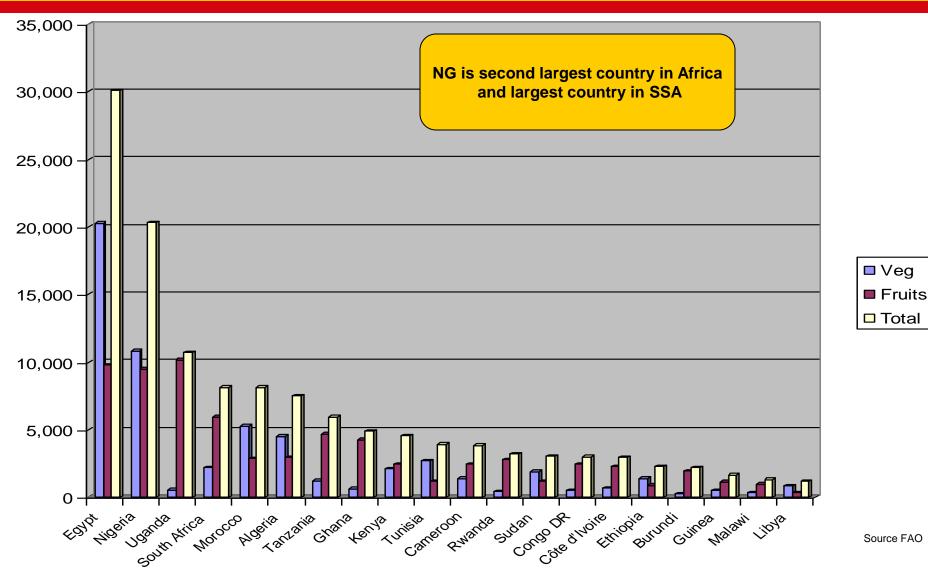
Adequate warehousing

- Multiple cold stores that can be set to various temperatures
- Air conditioned working areas
- Cold rooms

Agric Fair



Africa production of Fresh Produce (1000) tons in 2010

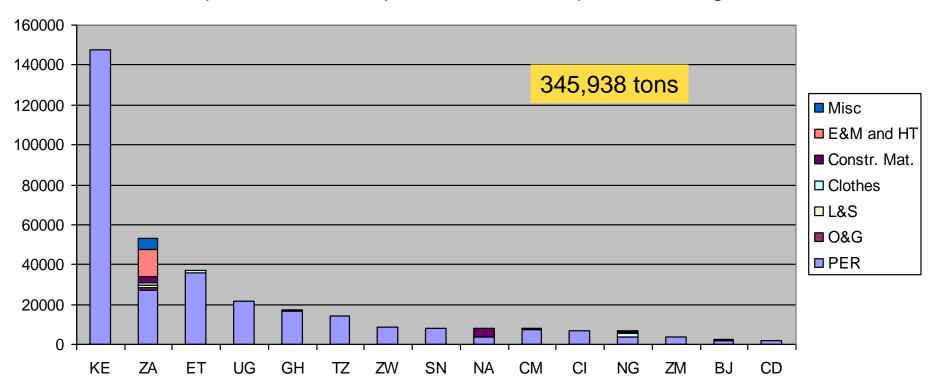


Source FAO



2010 Export from SSA top 15 exporting countries by air to EU

Top 15 countries represent 98% of exported tonnage

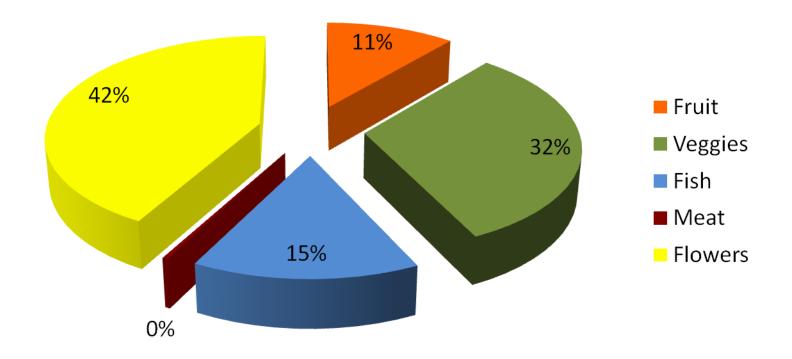


90% of exported commodities are Perishables

Source Eurostat



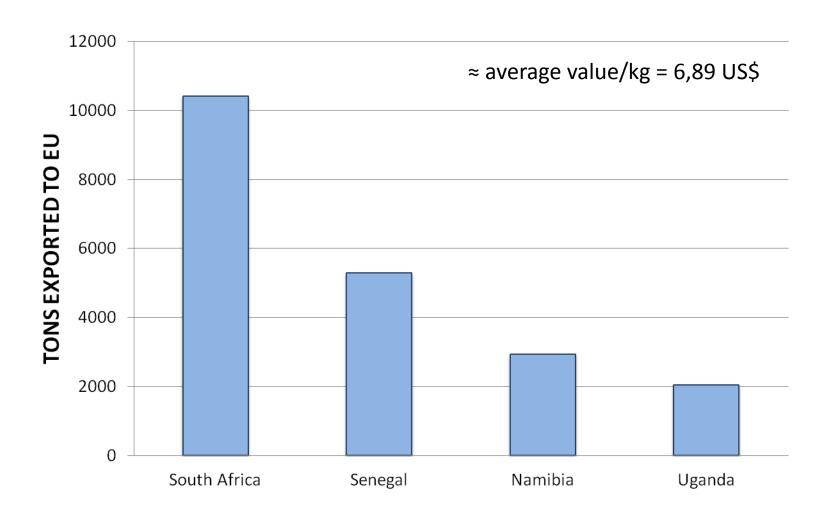
Percentage of perishable products exported ex-Africa to EU



Lagos

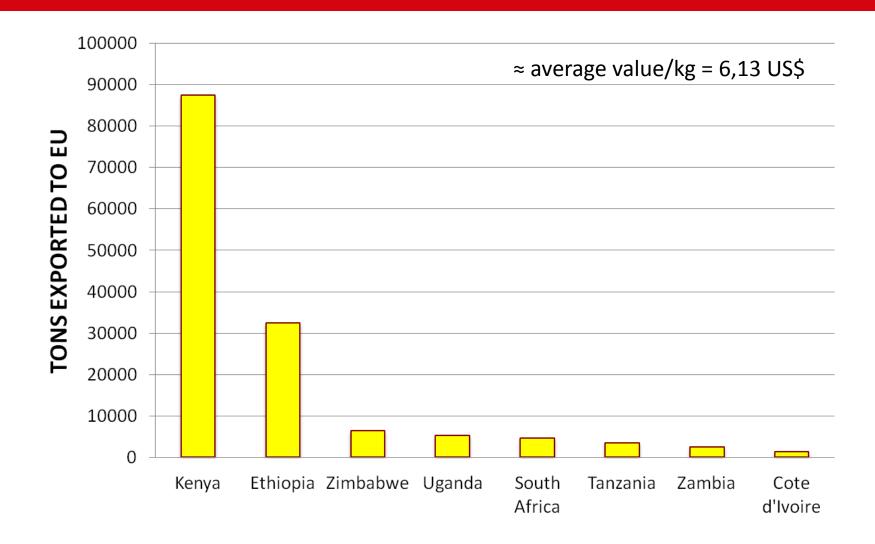


Fresh fish



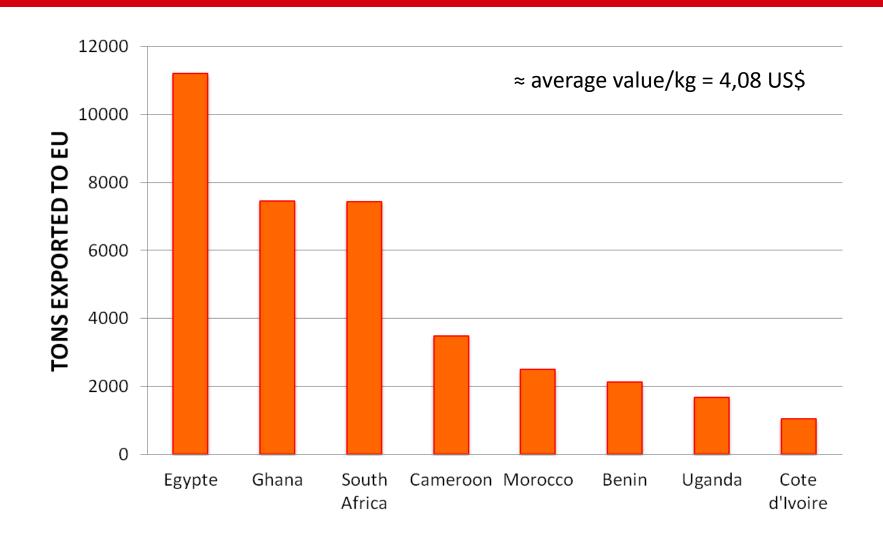


Flowers



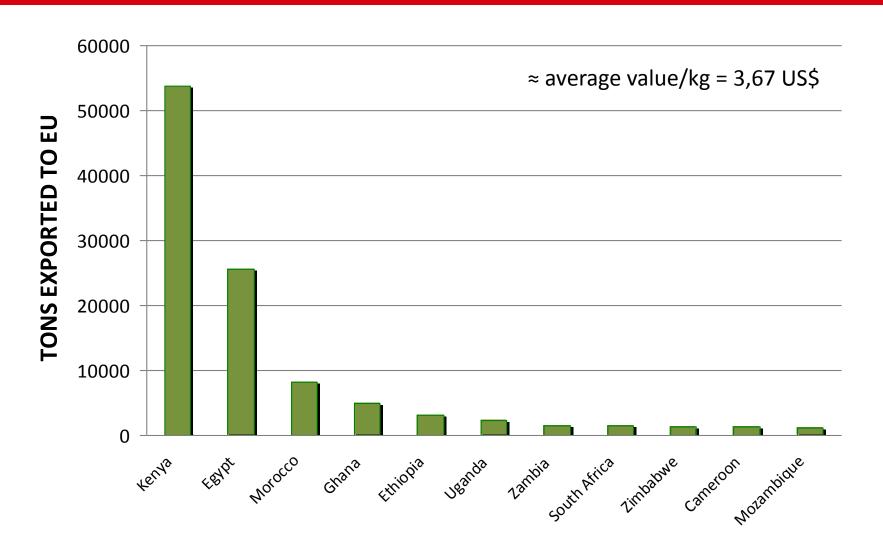


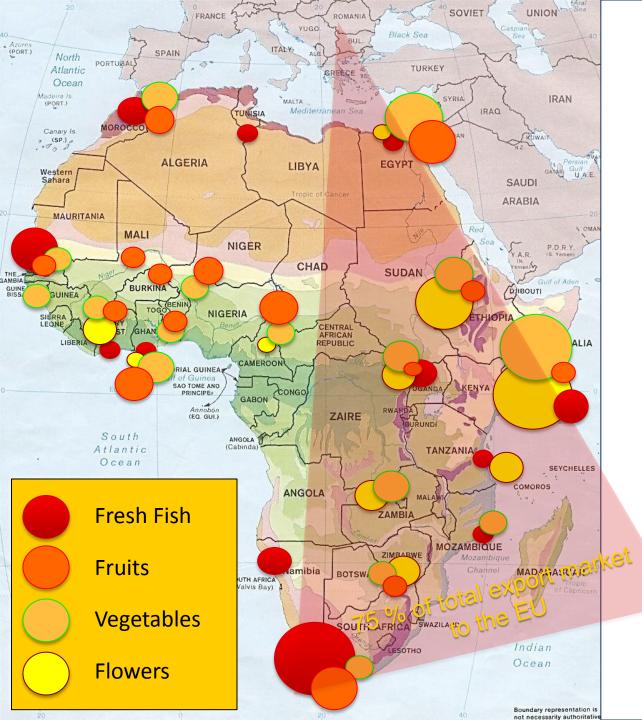
Fruits





Vegetables





Fast growing markets Africa (2007 in comp. 2011):

- Fish:
 - Kenya + 36%
 - South Africa: + 7%
 - Senegal: + 3,8%
- Vegetables:
 - Ethiopia: + 72%
 - Kenya: + 15%
 - Egypt: + 7%
- Fruits:
 - Ethiopia: + 245%
 - Cameroon: + 12%
 - Ghana: + 10%
 - Kenya: + 4,53%
- Flowers:
 - Ethiopia: + 455%
 - Kenya: + 188%
 - Tanzania: + 21%



Summary

□ NG is the largest SSA country producing perishables but it doesn't export NG farmers waste nearly 60% of their production due to: Lack of decent road network from farms to the markets Security Check point Non functional rail system Non-availability of cold storage facility for preserving goods. Market low buying power EU market is looking for new source of perishables globally Selling price between local market and EU market is 1 to 3 (or 4) Are we ready to export?



DHL Solution





DHL Aviation: a Business Unit of DHL Express

DHL Aviation





EXPRESS Division

LOGISTICS Division





Worldwide express services – ranging from documents and parcels to pallets; our network consists of 5,000 branches and serves more than 120,000 destinations

DHL Express air network is run by DHL Aviation





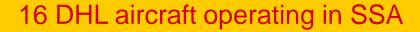
Worldwide logistics solutions for road, air and ocean freight, supported by a dedicated team of experts for industrial projects and sophisticated IT applications





Customized logistics solutions from consulting to supply chain design, from warehousing and distribution logistics to order management

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1 x Boeing 767 50t



2 x ATR 72 8t



2 x Boeing 727 23t



1 x Antonov 32 6.7t



2 x Beechcraft 1900D 2.5t



4 x ATR 42 4.5t



3 x Cesna 208B 2.5t



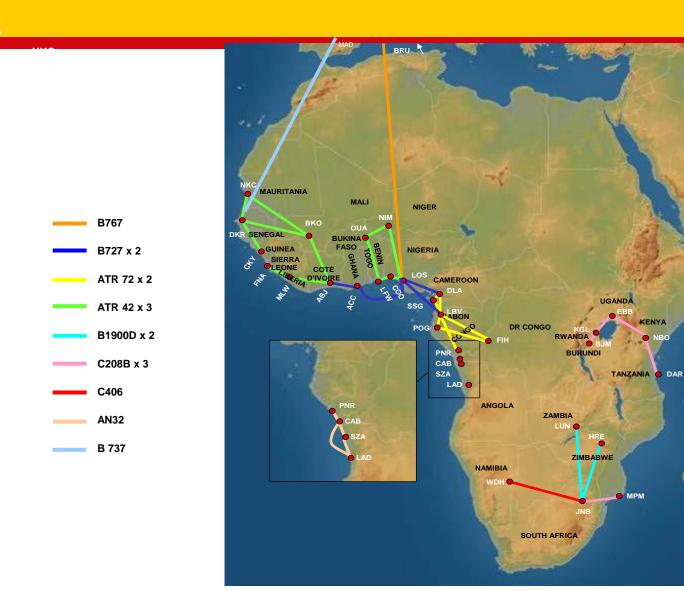
1 x Cesna 406 2.5t



Total payload for the area: 151.7t/day 5 days a week Except B767 flies 6 days a week



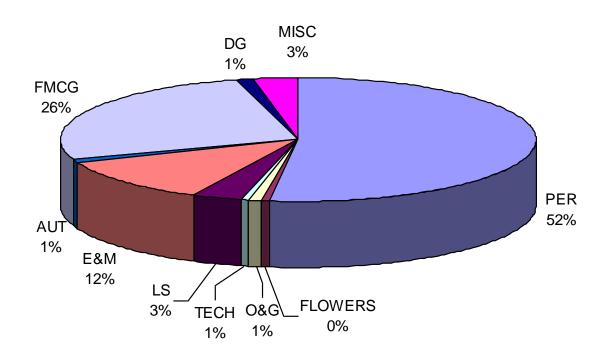
Sub Saharan Africa Aviation - Network





Commodity carried by DHL Aviation from SSA

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Transportation of Perishables: The Supply Chain



Total Turn Around Time from Harvest to market: less than 48h

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Conclusion

The needs to develop right product for the right market:

- Listen to requests of the market
- Certification (Group with AFGEAN)
- Respect regulations & comply with laws/requirements
 Minimize production loss
- By optimizing cool chain & packaging
- Avoid loss of shelf-life to increase margins

Buffering seasonality by:

- Year-round production through different products
- Capability of peak handling & storage

Use experts in key-logistics & handling





THANK YOU FOR YOUR ATTENTION