

# From Crude to Commerce – Exploring the Downstream Industry’s Role in Economic Expansion

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**Angola Oil & Gas Conference**  
**Luanda, Angola**  
**October 3<sup>rd</sup>, 2024**



African Refiners & Distributors Association  
جمعية المكررين والمسوقين الأفارقة  
Association des Raffineurs & des  
Distributeurs Africains

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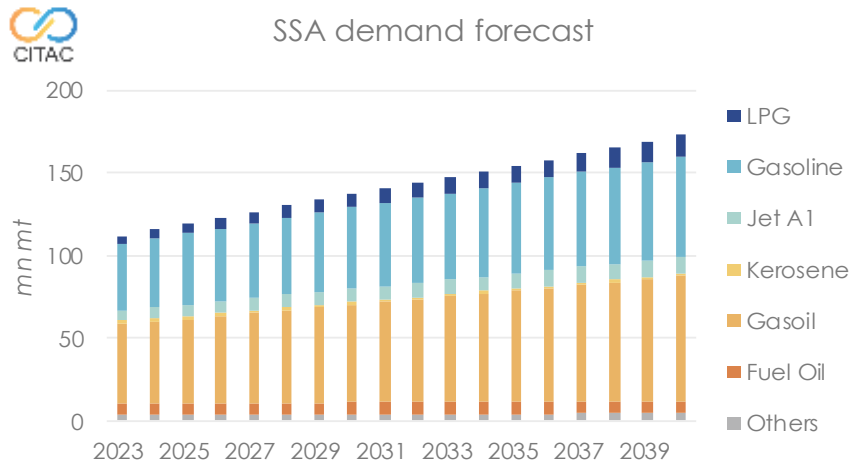
The voice of african downstream oil  
La voix de l'aval pétrolier africain  
صوت مصب النفط الأفريقي

# Introduction to ARA / ARDA

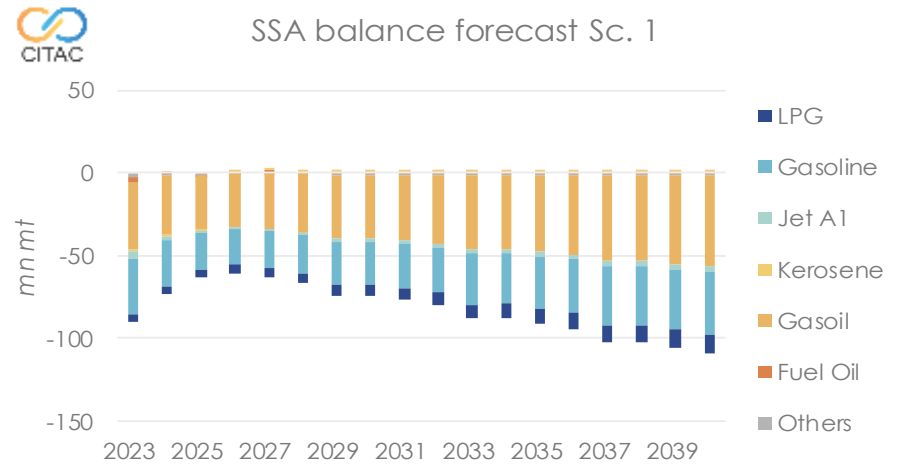
- ARDA = African Refiners and Distributors Association ([www.afrra.org](http://www.afrra.org))
- Created in 2006; name changed in 2017 to reflect complete supply chain
- Acronym and logo changed from “ARA” to “ARDA” in October 2020
- **Role of the ARDA:**
  - Give unified voice to **African refiners** and independent **marketers, distributors** and **regulators**
  - Promote exchange of experience and best practices amongst all stakeholders
  - Champion efforts for investments across African Downstream supply chain
  - **Promote African Energy Security** – Maximize processing of African crude oil in African Refineries and transportation of cleaner fuels via integrated African Storage & Distribution infrastructure across the continent



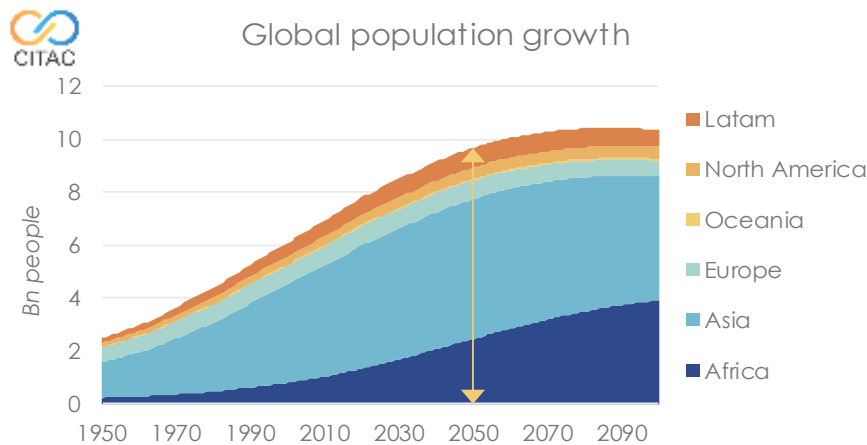
# Significant Investments needed to meet Africa's Growing Petroleum Products Demand



Source: CITAC



Source: CITAC



Source: UN

- Fossil fuels demand and products imports to grow over next two decades
- By 2050, 1 in 4 people globally will live in Africa; population is forecast to be 2.5bn
- **Downstream sector – refining, distribution, marketing & sale of petroleum products – is key driver of Africa's economic development**

# Investments across Africa's Downstream Supply Chain must be segmented by Activity



**Refining**



**Terminals and Depots**



**Pipeline Infrastructure**



**Efficient Stoves**



**Tanker fleets**



**Service Stations**



**Bottling Plants & Bottle Fleets**



**Solar Kits**

# Significant Infrastructure Upgrades required to support Africa's Growing Energy Demand



- 2024 Puma/CITAC White Paper analysed infrastructural realities associated with meeting Africa's strong demand growth
- Africa's port, discharge and evacuation infrastructure characterised by:
  - Shallow drafts; congested berths
  - Small tanks; slow gate-to-gate truck times
  - Huge reliance on road transport
  - Full/near-full utilisation of pipelines (where existing)
  - Single points of failure (in some cases)
- Infrastructure challenges result in:
  - Higher prices to end consumer
  - Stockouts and business interruption(s)
  - Pollution; lost productivity
  - Road traffic accidents
- White Paper also highlighted differences between Africa and advanced economies in discharging and moving petroleum products effectively



# Key Recommendations to address Supply Chain Issues and ensure Adequate, Cost-Effective Delivery



## 1) Conducive, Harmonized Regional Regulations

- **Different product specs between countries limits economies of scale and varying pricing policies drives smuggling**
- Regional approach increases potential for land-linked countries to coordinate volumes and improve security of supply

## 2) Market-based Pricing of Fuel Products

- Product pricing regulated in many SSA countries via price structures; stifle competitiveness among operators with fixed margins encouraging inefficiencies
- **Market pricing drives competition creating potential for lower costs**





## 3) Relieve Infrastructure Bottlenecks and minimize Supply Chain Risks

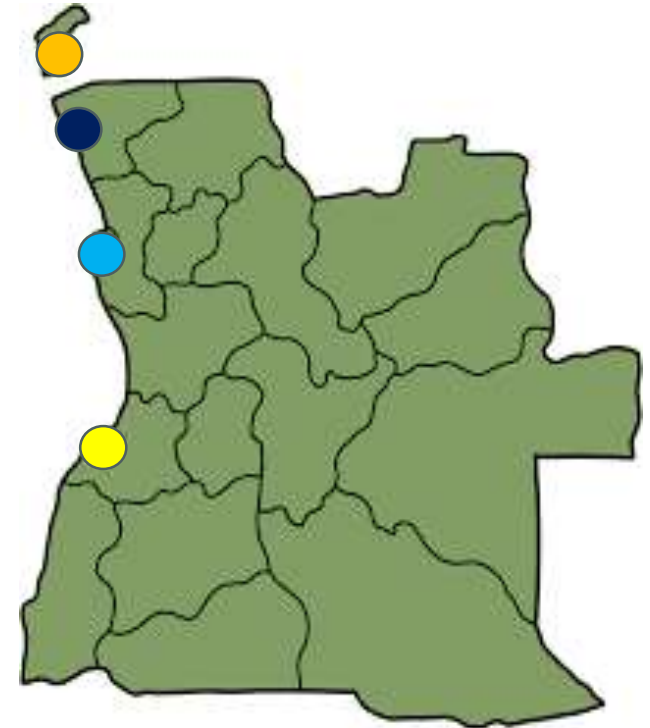
- Evaluate existing/planned infrastructure adequacy against demand projections and supply dynamics and secure necessary infrastructure investments in timely manner
- **Rail, pipelines and larger ports present efficient solutions to product supply problems via trucks to more urbanized areas**



# Sonaref – Increasing Angola’s Energy Security via Increased Refining Capacity (425,000 BPD by 2027)



REFINERY	CAPACITY	STATUS
Luanda 	65,000 BPD	Operational; new gasoline production complex completed
Cabinda 	60,000 BPD	Target for Phase 1 (30,000 BPD) to be operational by 2025?
Soyo 	100,000 BPD	Target startup by 2026
Lobito 	200,000 BPD	Target startup by 2027
<b>TOTAL</b>	<b>425,000 BPD</b>	<b>REFINING CAPACITY</b>



**Increasing Products Supply via Refining Capacity Growth**



**Domestic Growth Strategy**

20% to 100% Domestic Market Share by 2027



**Regional Growth Strategy**

0% to ~26% Regional Market Share by 2030

65 to 425 KBPD by 2027

# Supply Diversification: Expanding Refining Options to bolster Product Availability in Angola and Region



Luanda Refinery

- **Luanda Refinery** expansion for increased products supply flexibility will enhance Angola's energy security
- Plans for petrochemicals project(s) to deliver significant polypropylene (PP) and polyethylene (PE) by 2027



Cabinda Refinery

- Influx of other refineries (**Cabinda, Lobito and Soyo**) planned in near term to join Sonaref refining assets
- Phase 1 of Cabinda Refinery (30,000 bpd) to be operational by 2025?



# Supply Diversification: Waterborne Volumes enhance Angola's Products Supply Chain



- Angola has oil product discharge capability in multiple ports (**Luanda, Lobito, Namibe**)
- Advantage becomes more important as demand centres outside of Luanda expand
- Around Luanda, there are multiple, large scale discharge options (Pumagol, etc.)
- **Advantage: No single point of failure, unlike some other African countries**

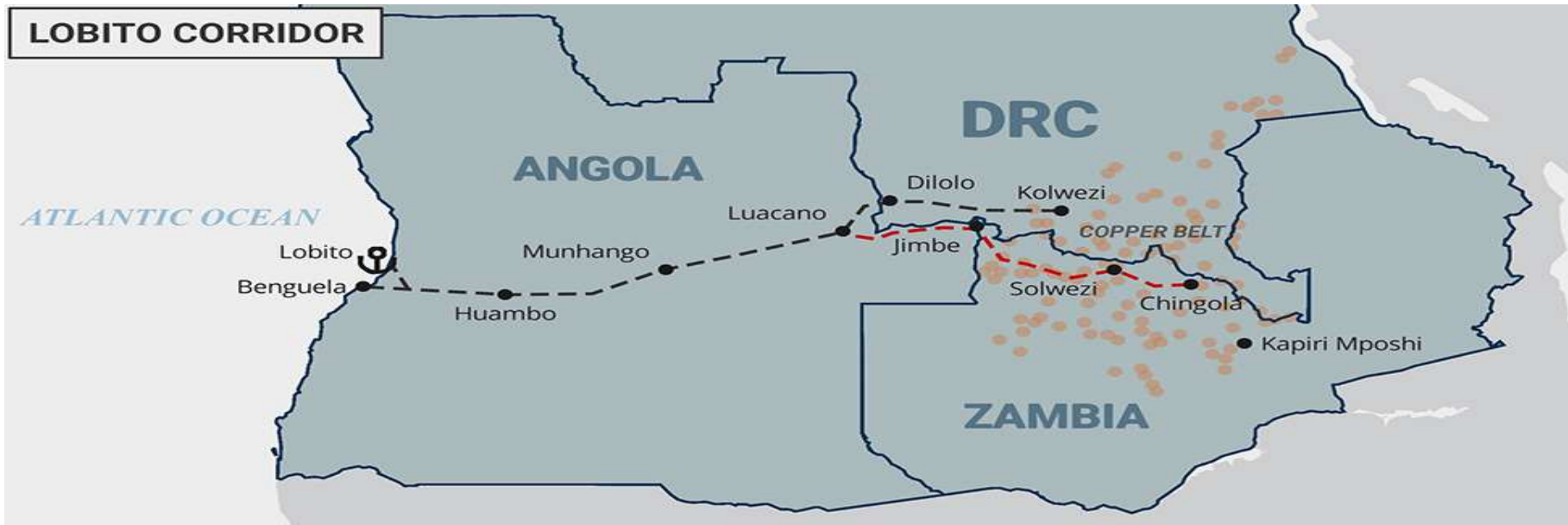


# Angola as Regional Hub for Petrochemicals



- Vast natural gas resources and fast-growing population make Angola a logical hub for development of **petrochemical facilities**
- Petrochemicals are contained in 95% of all manufactured goods, **most of which African countries currently import**
- Vibrant Petrochemicals Industry will promote value addition and import substitution while also reducing emissions
- **Methane (and NGLs contained in stream) flaring reduced but still ongoing** rather than routed to shore for upgrading or other applications
- **~750 KT of propane exported from Angola annually**; can be upgraded onshore in propane dehydrogenation (PDH) units to produce PP and hydrogen
- Angola exported excess naphtha to international markets in past; **~60% reduction (300 KT to ~120 KT) since Luanda refinery reformer upgrade in 2023**

# Lobito Corridor – Regional Infrastructure to Unlock Value beyond Crude Oil



Source: Geopolitical Monitor (September 2024)

- Critical regional, pan-African infrastructure traverses multiple sectors
  - Transportation & logistics, agriculture, clean energy, health and digital access
- Promotes intra-African trade – transportation of cobalt and copper from DRC and Zambia and goods from Lobito to the DRC.
  - Only 13% of Africa's trade is intra-regional vs. Asia (55%), N. America (49%) & EU (63%)



# 2025 ARDA Week – Cape Town, South Africa

*« Africa First: Delivering our Energy Future »*

*« L’Afrique d’abord: Assurer notre Avenir énergétique »*

- **VENUE:** Century City Conference Centre (CCCC), Cape Town, South Africa
- **Contact:** [info@afrra.org](mailto:info@afrra.org) for more information

2025  
Capetown, South Africa  
ARDA WEEK  
7-11 APRIL



2025  
Capetown, Afrique du Sud  
ARDA WEEK  
7-11 AVRIL



# Thank You for your Attention



The voice of African downstream oil  
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