

Bottom of the Barrel Upgrading Strategy in Takreer

JCCP International Symposium
21-22 Jan 2015- Tokyo



Contents



Takreer Overview



Carbon Black & Delayed Coker Project
Bottom of Barrel Upgrading



Main Objective of RR Expansion



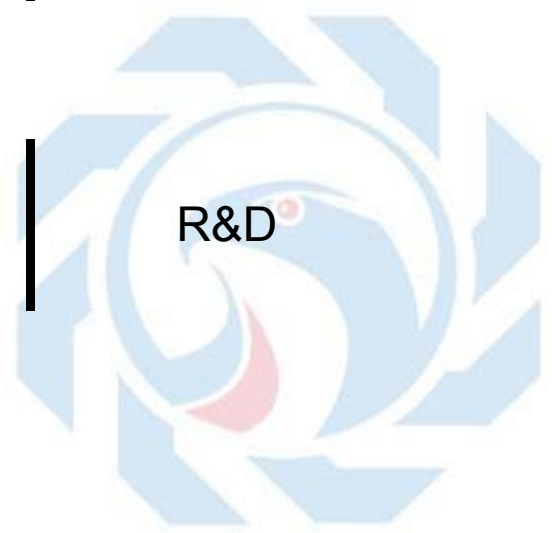
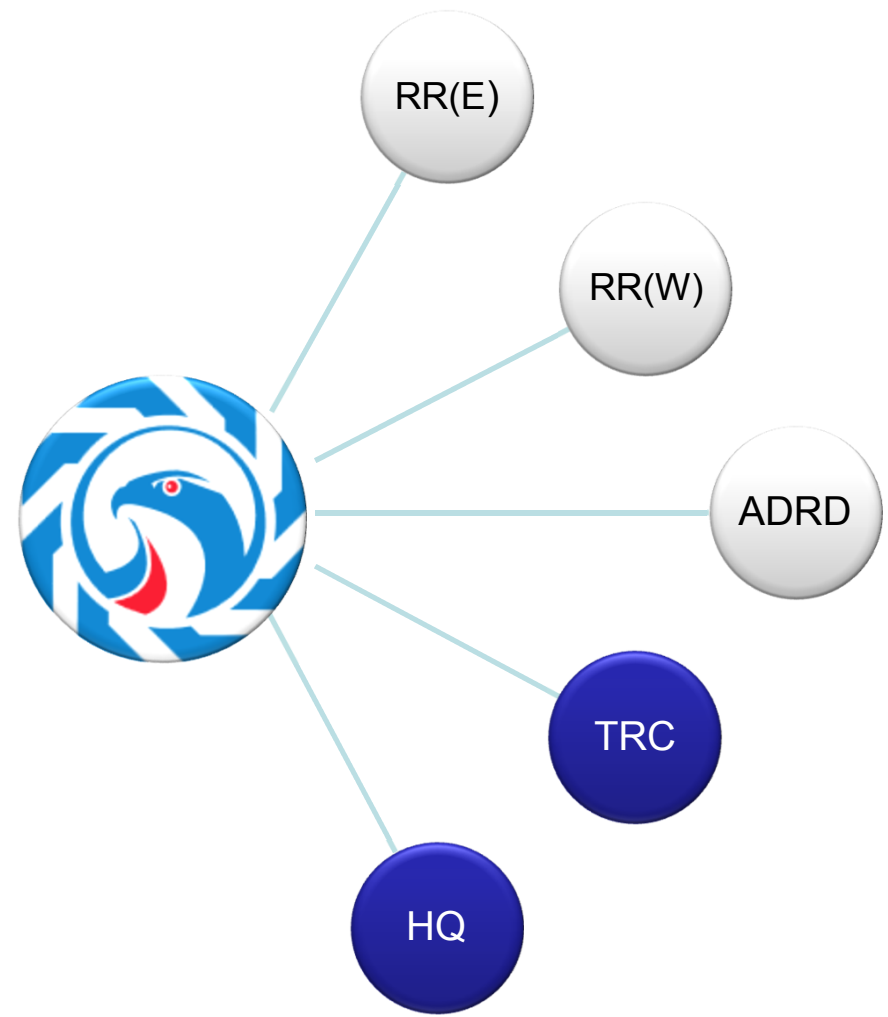
**Current & Future Capacities
and Production Pattern**



Conclusion



Abu Dhabi National Oil Refining Company (Takreer)



Mission & Objectives of TRC

Vision

- To become a leading Research Centre in the field of refining technology, process and product development

Mission

- To support and develop TAKREER core refining activities as well as assist in Technology Transfer and Human Resources Development in collaboration with local and international Institutes and Universities

Objectives

- To be a Technology Provider for Takreer refineries by **supporting and developing Takreer core refining activities**

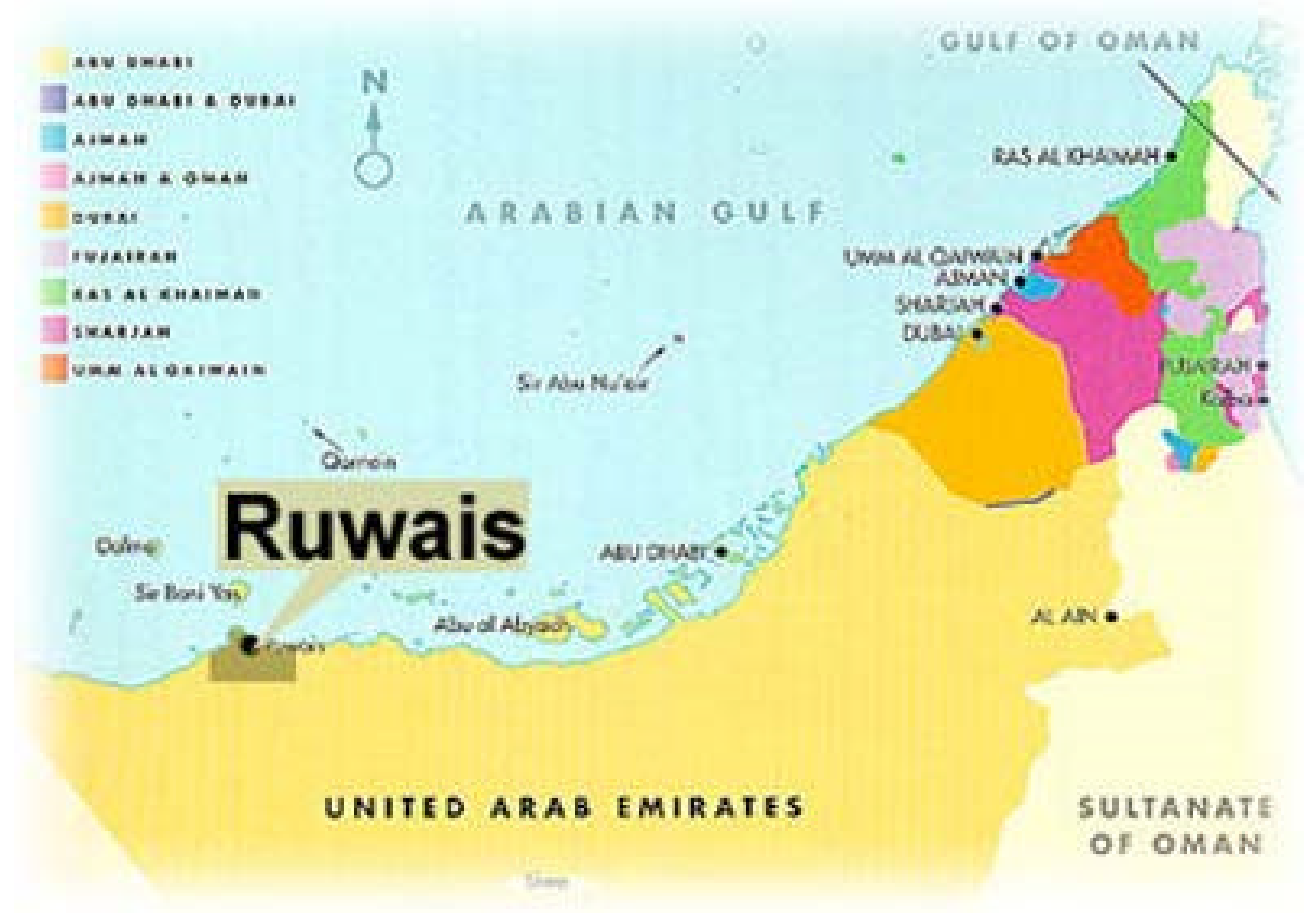
- To assist in Technology Transfer and Human Resources Development in **collaboration with other Institutes and Universities.**

Refineries

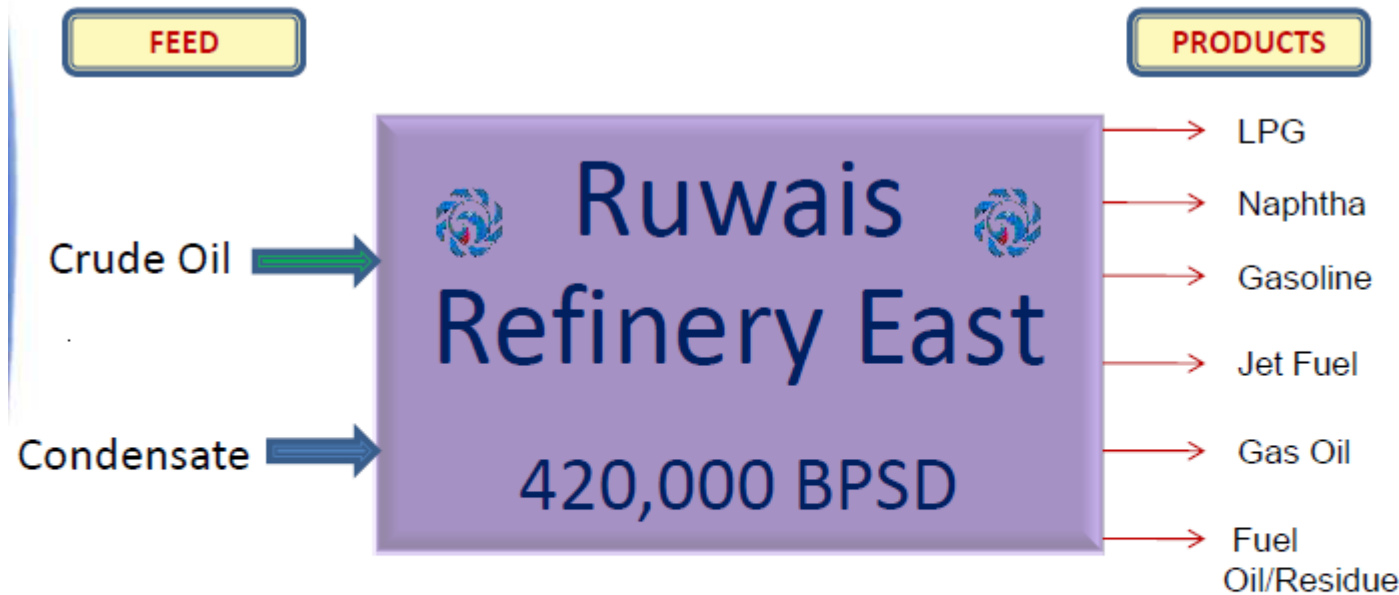
TRC

Petroleum Institute (PI)
UAE University, Masdar Institute (MI),
Borouge Innovation Centre,
Future Upstream Research Centres

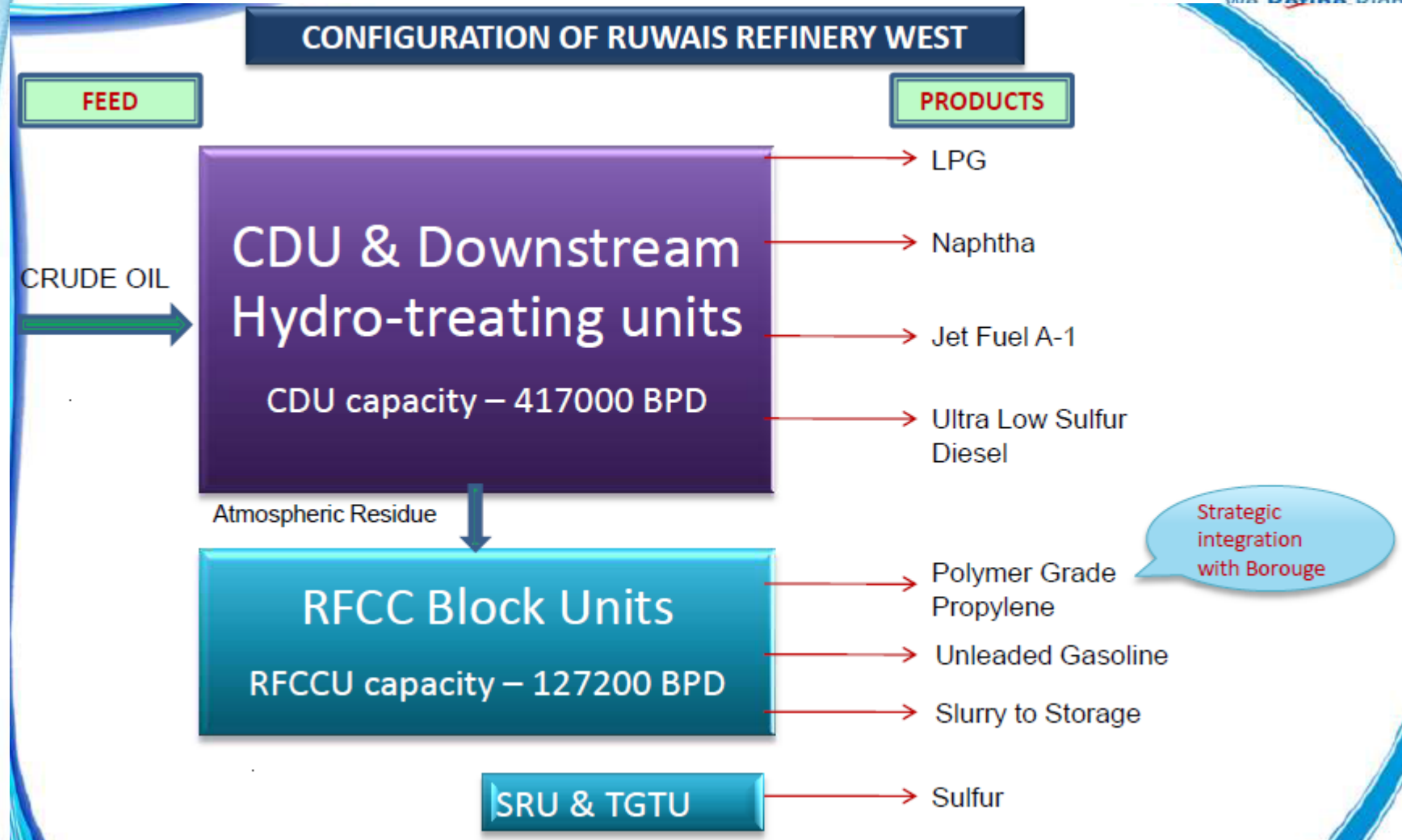
Ruwais – A tiny spot but a big player



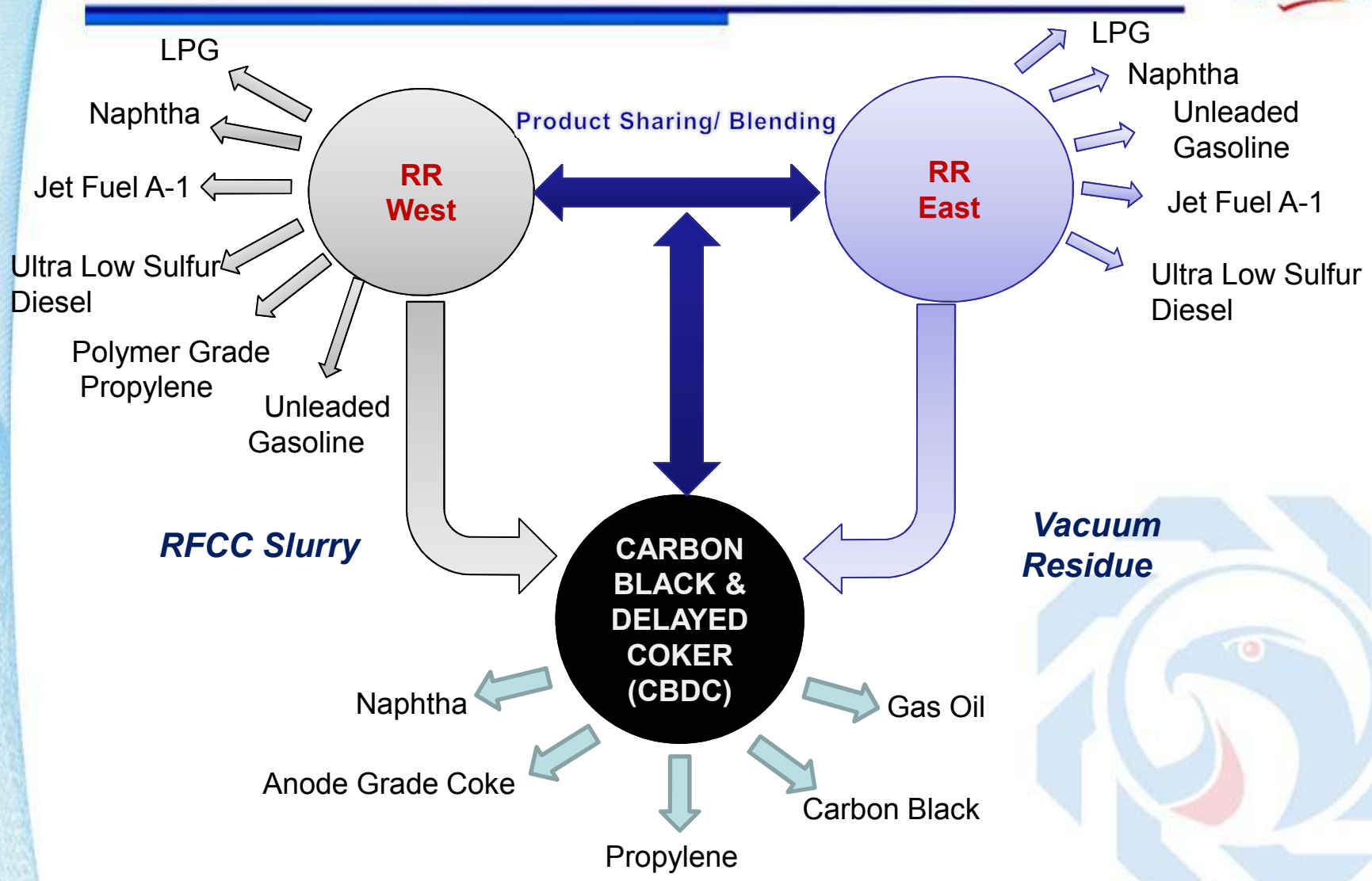
Ruwais first refinery



Ruwais second refinery



BB East + BB West = Takreer Strategy



Carbon Black & Delayed Coker Project

*Bottom of Barrel Upgradation to
derive the Best from the Worst*

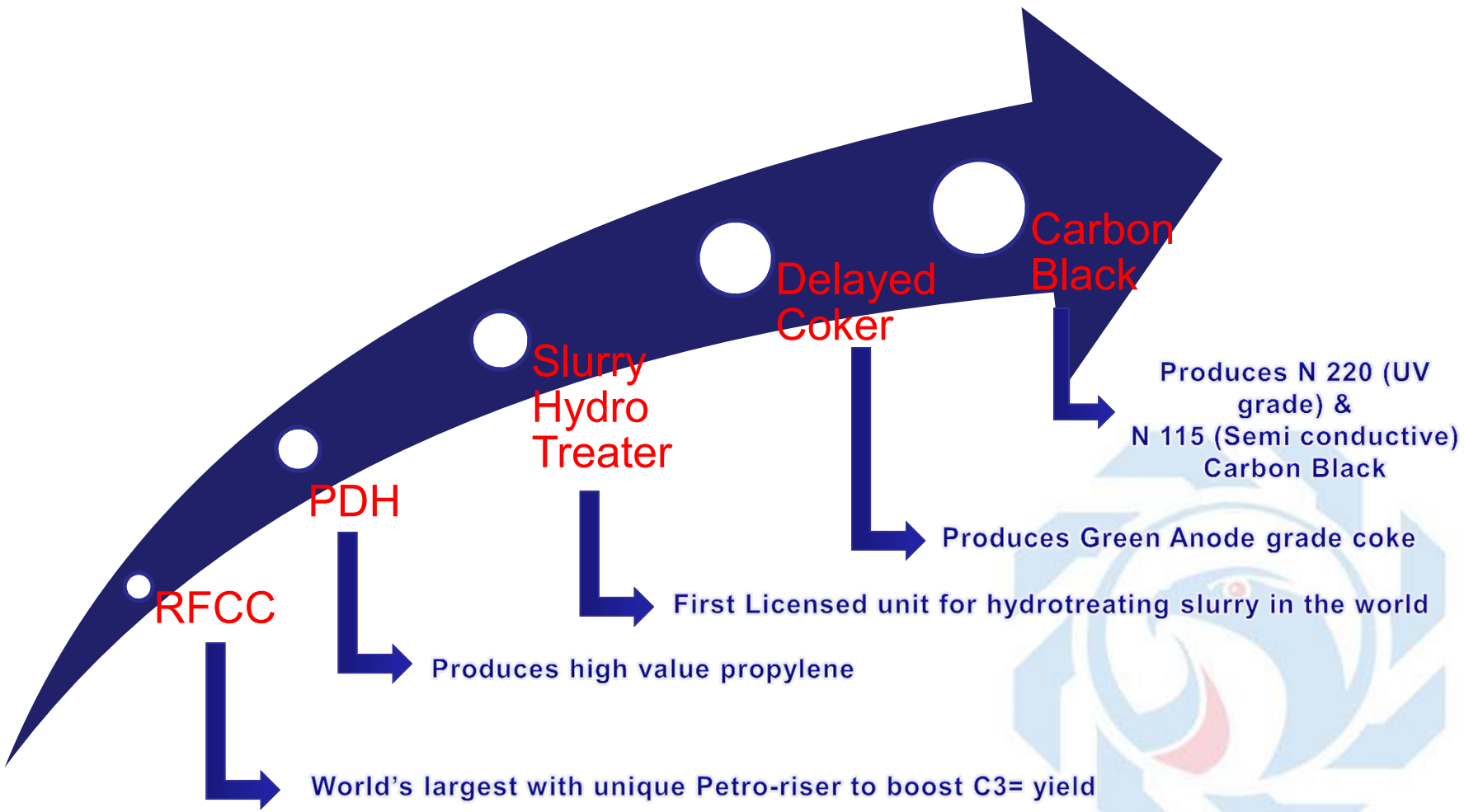
MAJOR HIGHLIGHTS OF CBDC PROJECT



- Slurry Hydro Treater
- Carbon Black Unit –Delayed Coker Unit
- Distillate Hydro Treater
- Hydrogen Unit
- Propane Dehydrogenation Unit
- Coke Calcination Unit
- LPG Treatment Unit
- Associated open-art units, off-sites and utilities.
- Integration of above with RR(E), RR (W) & other OPCO's

FACILITIES PLANNED

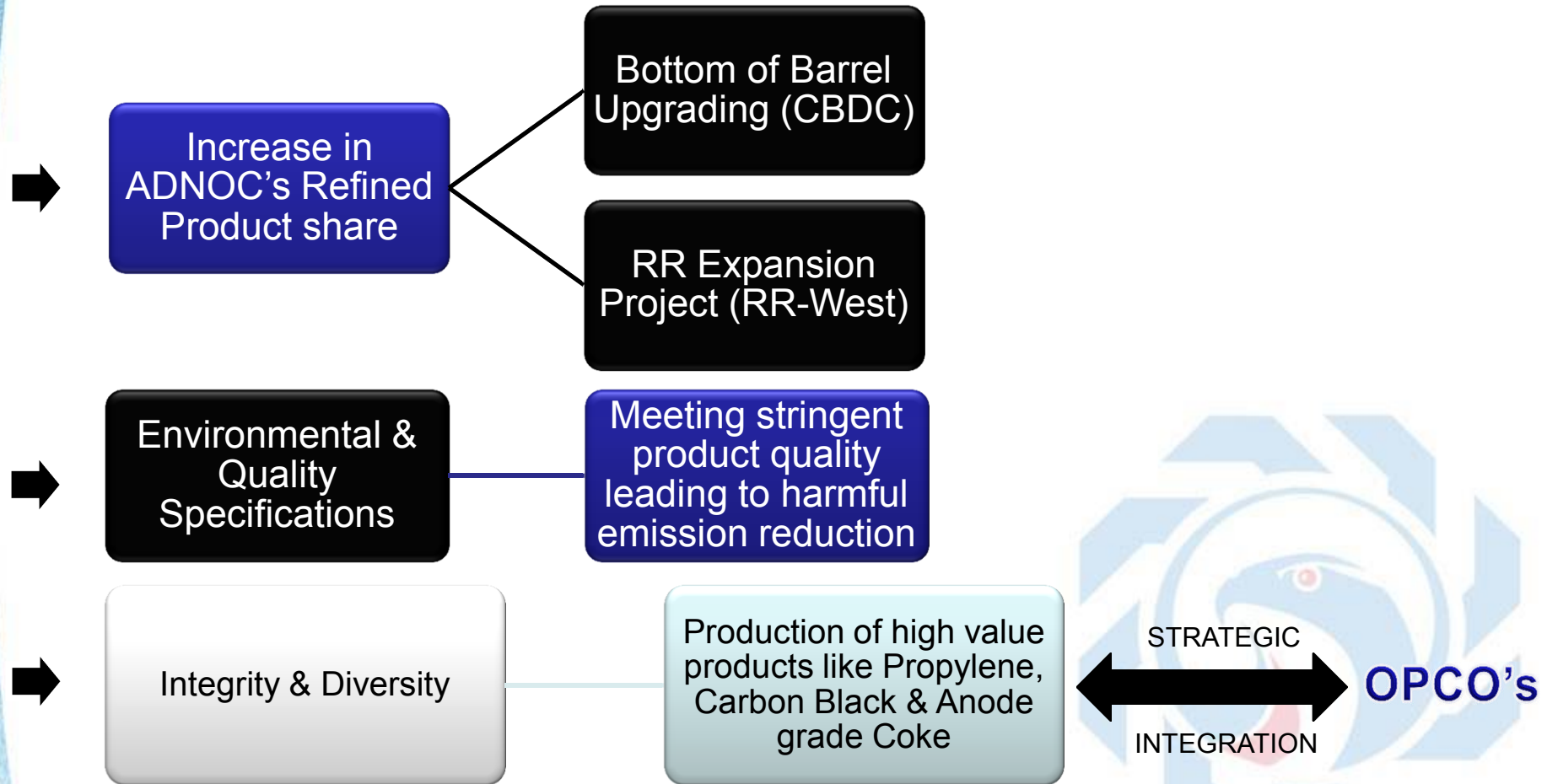
BOTTOM OF THE BARREL UPGRADING UNITS IN RR-EXPANSION INCLUDING CBDC



WHY DO WE EXPAND OUR FACILITIES??



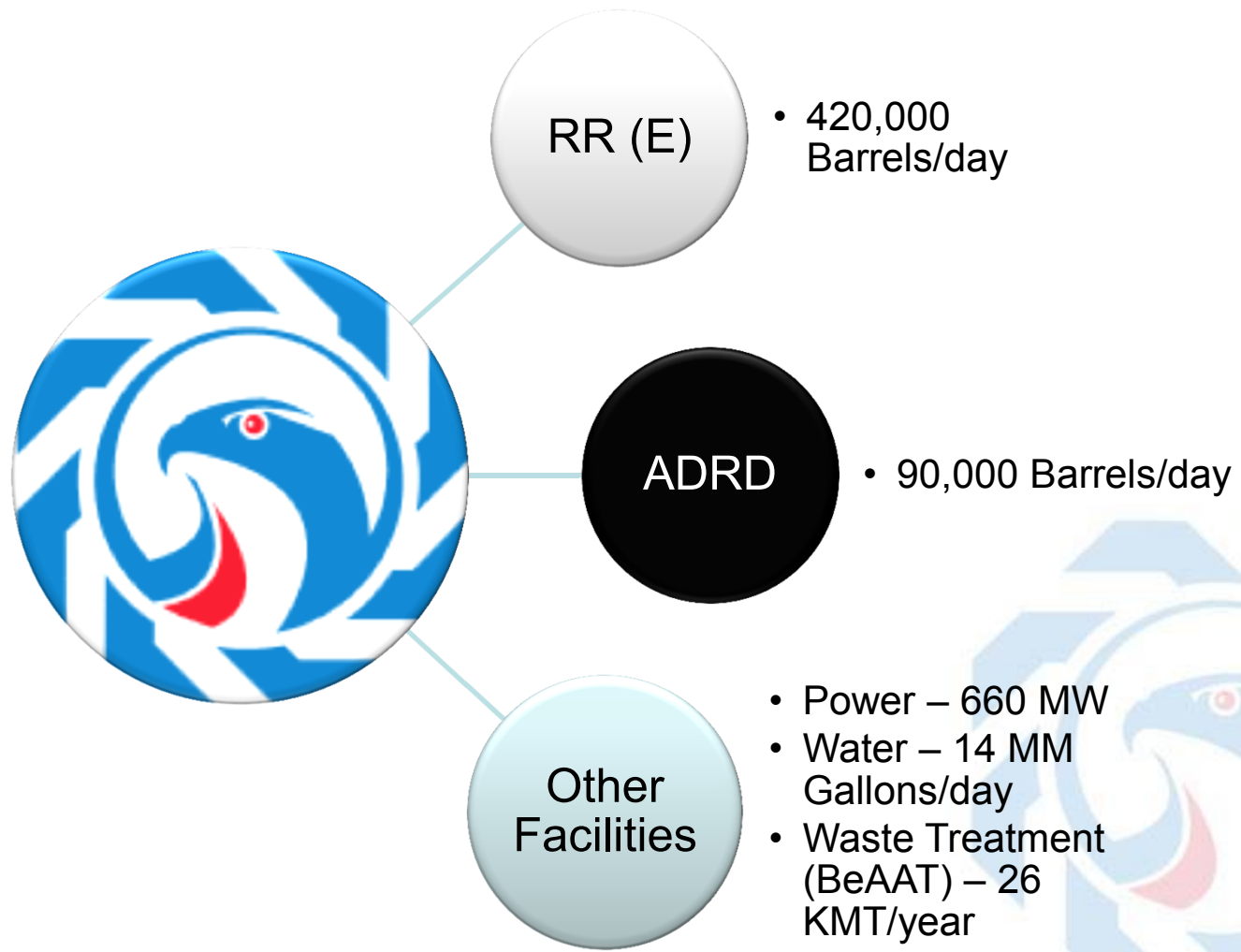
EXPANSION PROJECTS IN RUWAIIS REFINERY – MAIN OBJECTIVE



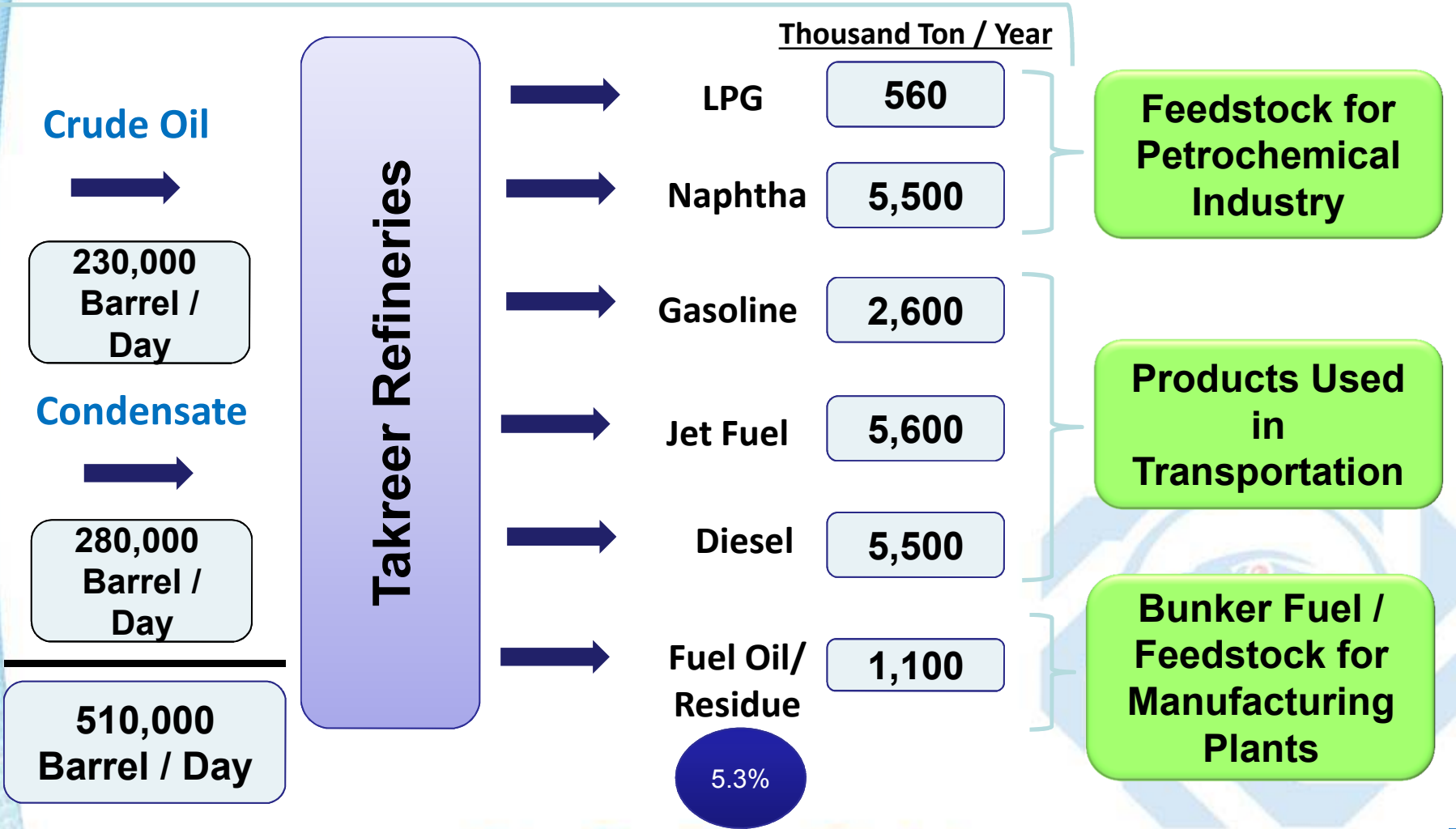
CURRENT / FUTURE CAPACITIES & PRODUCTION PATTERN



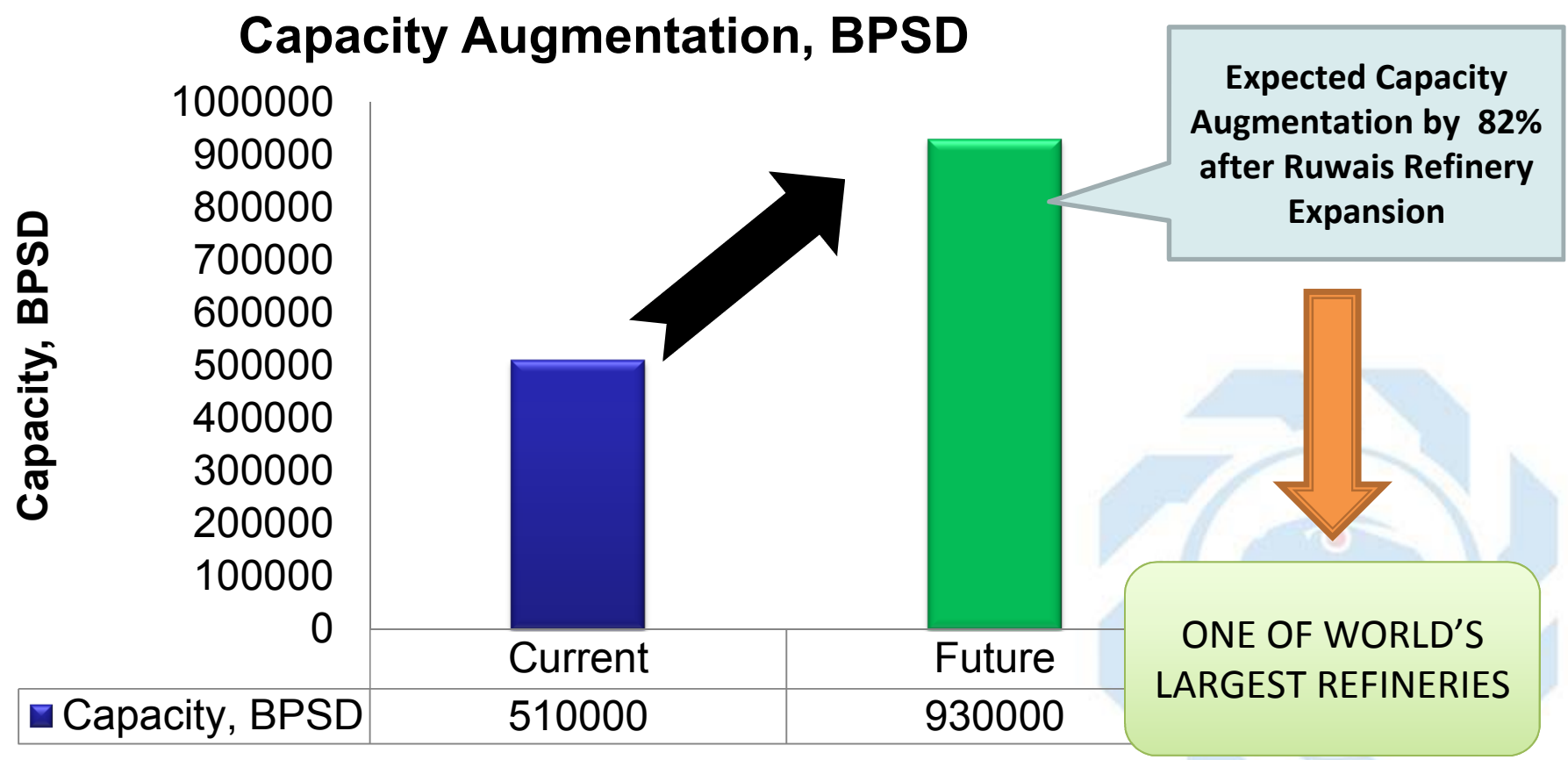
TAKREER'S CURRENT REFINING CAPACITY



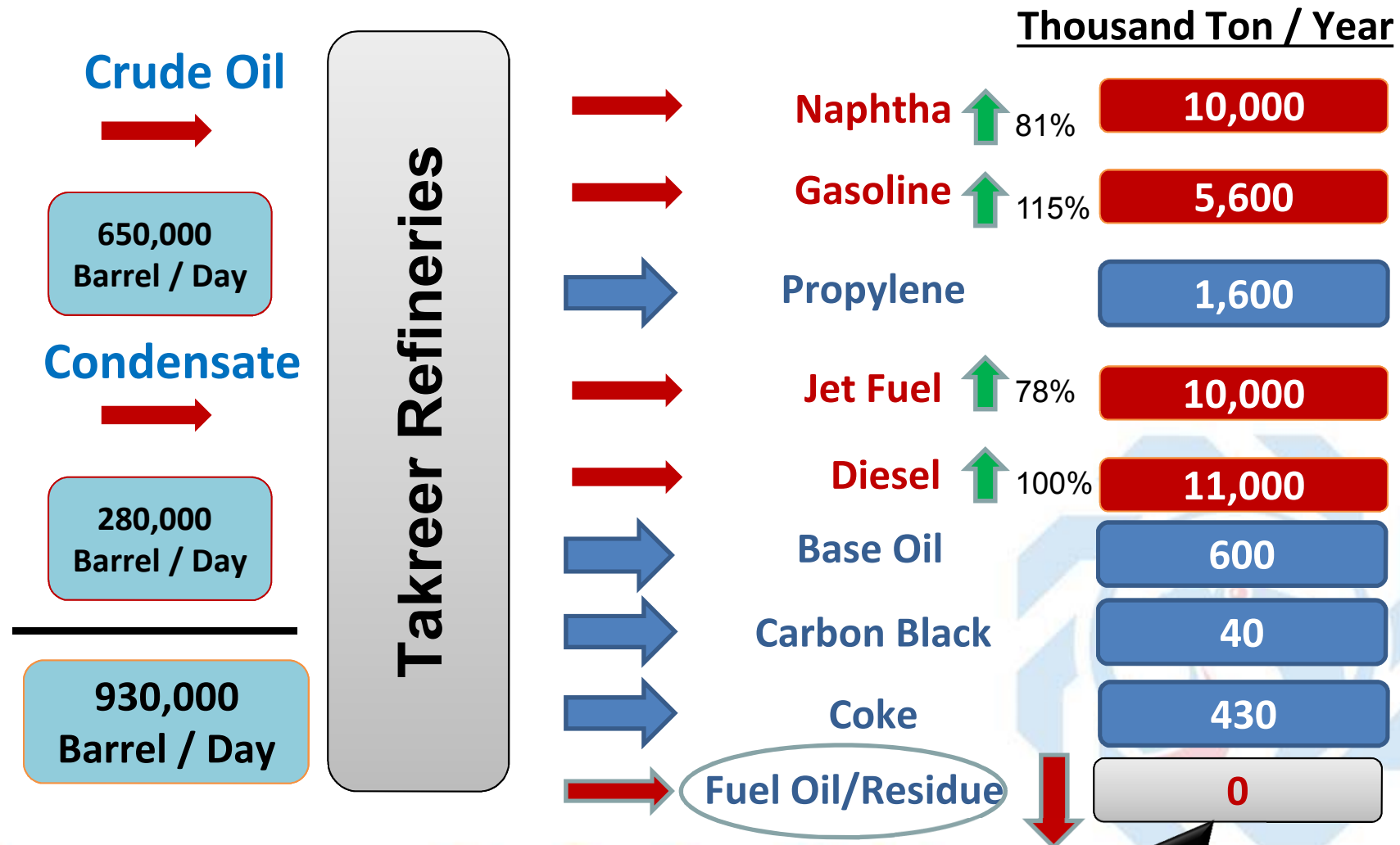
CURRENT REFINERY PRODUCTION



CAPACITY AUGMENTATION POST EXPANSION



EXPECTED PRODUCTION AFTER EXPANSION (RRE & CBDC)



We Refine Right

Efficient Bottom of barrel technology

CONFIGURATION OF UPCOMING CARBON BLACK & DELAYED COKER PROJECT

FEED

PRODUCTS

PRODUCTION, KTPA

RFCC Slurry
from RR (W)

Vacuum
Residue from
RR (E)

Carbon Black & Delayed Coker Project

Carbon
Black to
Borouge

N220
N115

27

13

Propylene

500

Naphtha

370

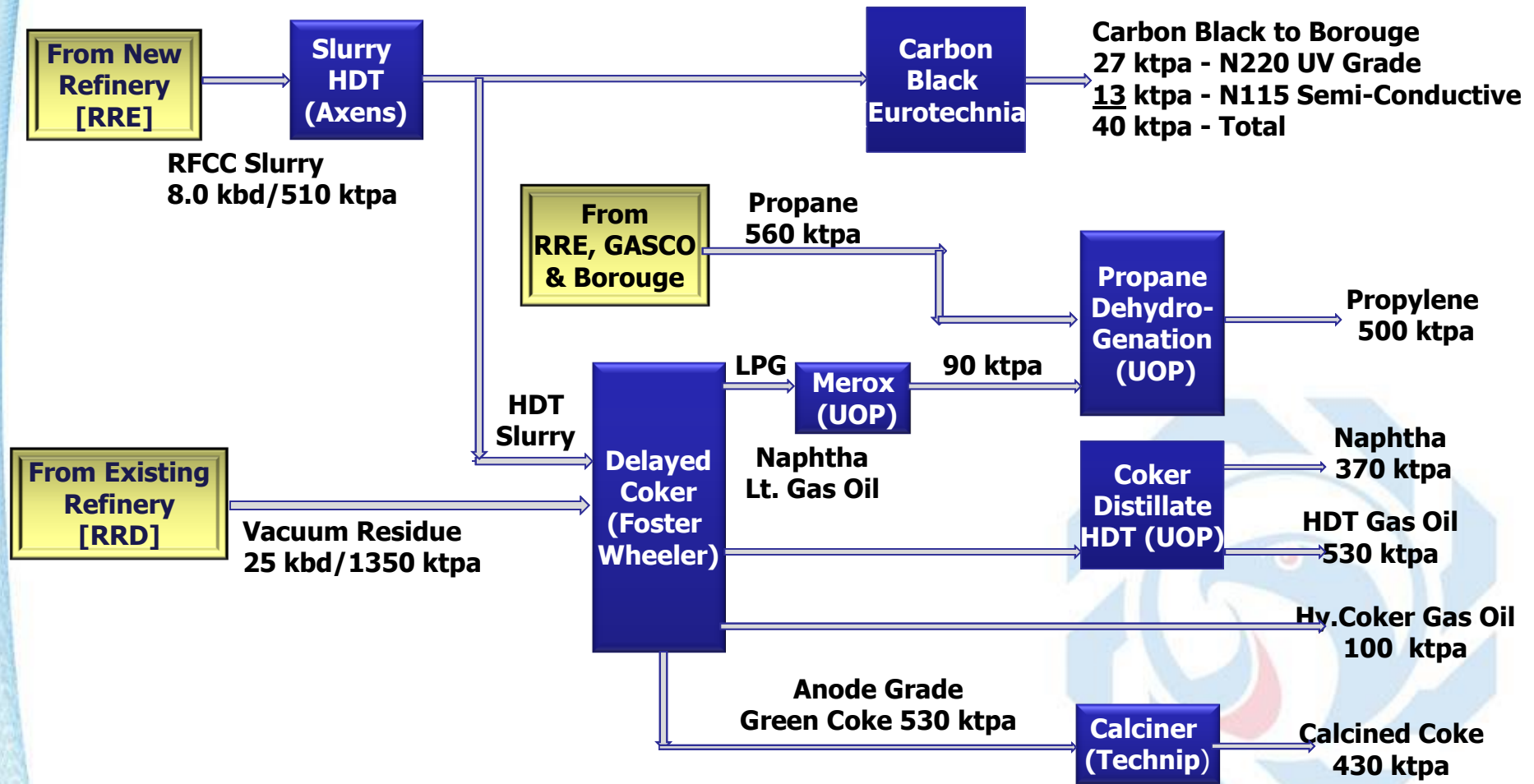
Gas Oil

630

Anode
Grade Coke

430

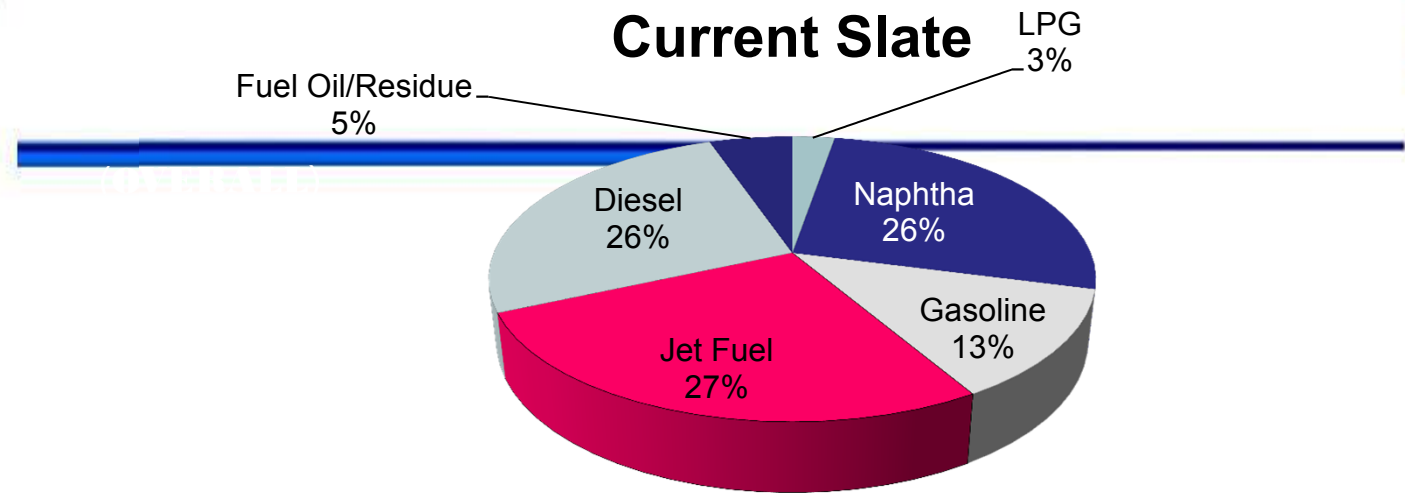
CONFIGURATION OF UPCOMING CBDC PROJECT



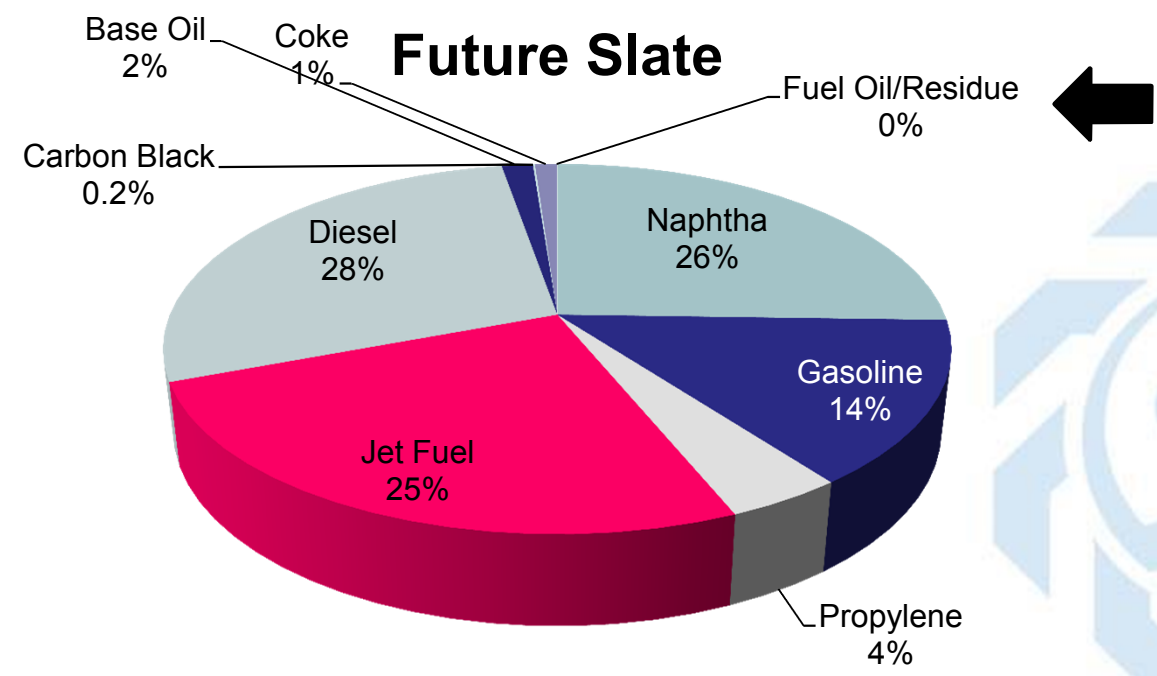
CONCLUSION



Current Slate



Future Slate



Thank You

