

Delta**Afrik** Engineering Limited



PRESENTATION BY
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MD - DELTAAAFRIK ENGINEERING LIMITED

CHEMICAL ENGINEERING GRADUATES



ARE THEY ADEQUATELY PREPARED FOR INDUSTRY?



- THERMODYNAMICS
- MASS TRANSFER
- KINETICS
- HEAT TRANSFER
- PLANT DESIGN
- FLUID MECHANICS
- UNIT OPERATIONS
- OTHER OPTIONS – BIOCHEMICAL ENGINEERING, ETC

- WHY ARE THEY NOT PREPARED?
- WHAT DO THEY NEED TO BE PREPARED?
- WHY SHOULD WE ALL BE ON-BOARD?
- WHAT STANDS TO BE GAINED?
- WHO STANDS TO BENEFIT?

- THE NATION
- THE INDUSTRY
- THE GROWTH
- THE LOCAL WORKFORCE
- DISCONNECTION BETWEEN INDUSTRY AND ACADEMICS
- INSUFFICIENT TRAINING IN INDUSTRY RELEVANT COURSES AT TERTIARY LEVELS OF EDUCATION SECTOR

WHAT DO THEY NEED TO BE PREPARED FOR THE INDUSTRY?

- INDUSTRY INCLINED UNDERGRADUATE CURRICULUM
- ADEQUATE EXPOSURE TO THE INDUSTRY IN FORM OF INDUSTRIAL PLACEMENT, SITE VISITS, AND EXCURSIONS
- ON-THE-JOB TRAINING
- REFRESHING THE UNIVERSITY TRAINERS



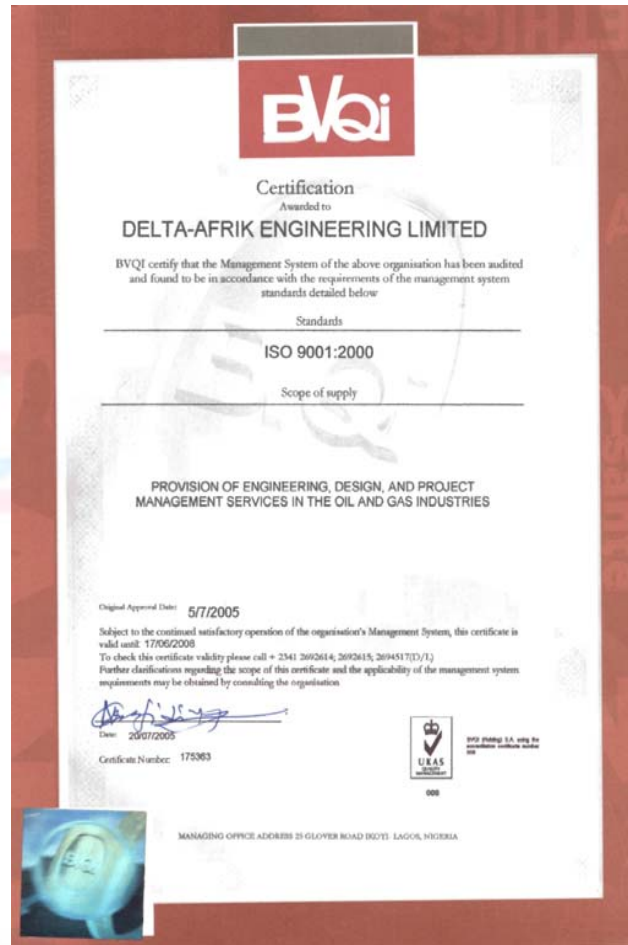
OUR VISION

TO BE THE PROJECT DELIVERY COMPANY OF CHOICE IN AFRICA.

OUR MISSION

TO PROVIDE WORLD-CLASS ENGINEERING SERVICES FOCUSED ON CREATIVE SOLUTIONS WITH AN ABSOLUTE COMMITMENT TO SAFETY, QUALITY & INTEGRITY.

DeltaAfrik Engineering Limited is ISO 9001:2000 certified.





THE PARTNERSHIP



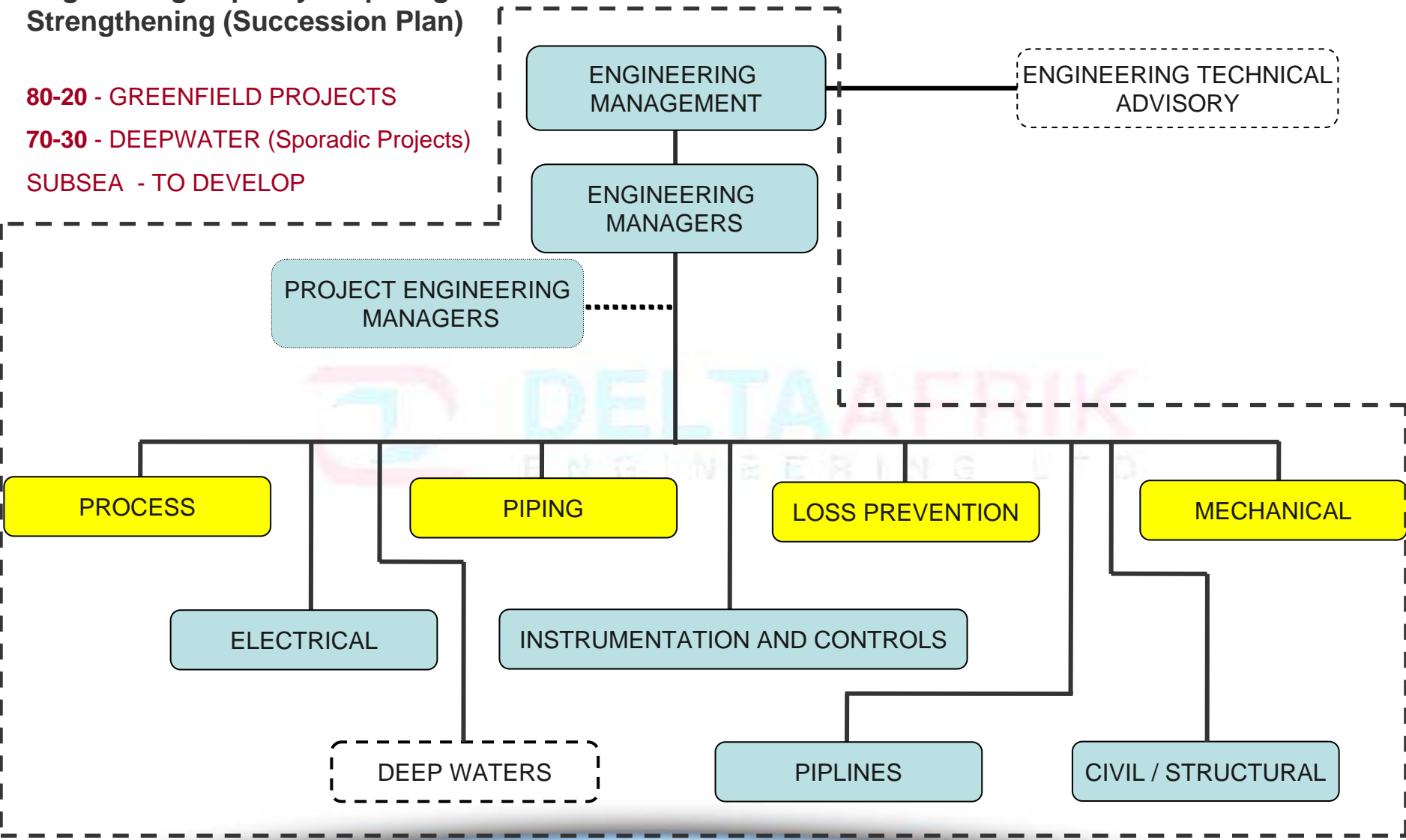
DEVELOPING THE ENGINEERING STRENGTH

Engineering Capacity Requiring Strengthening (Succession Plan)

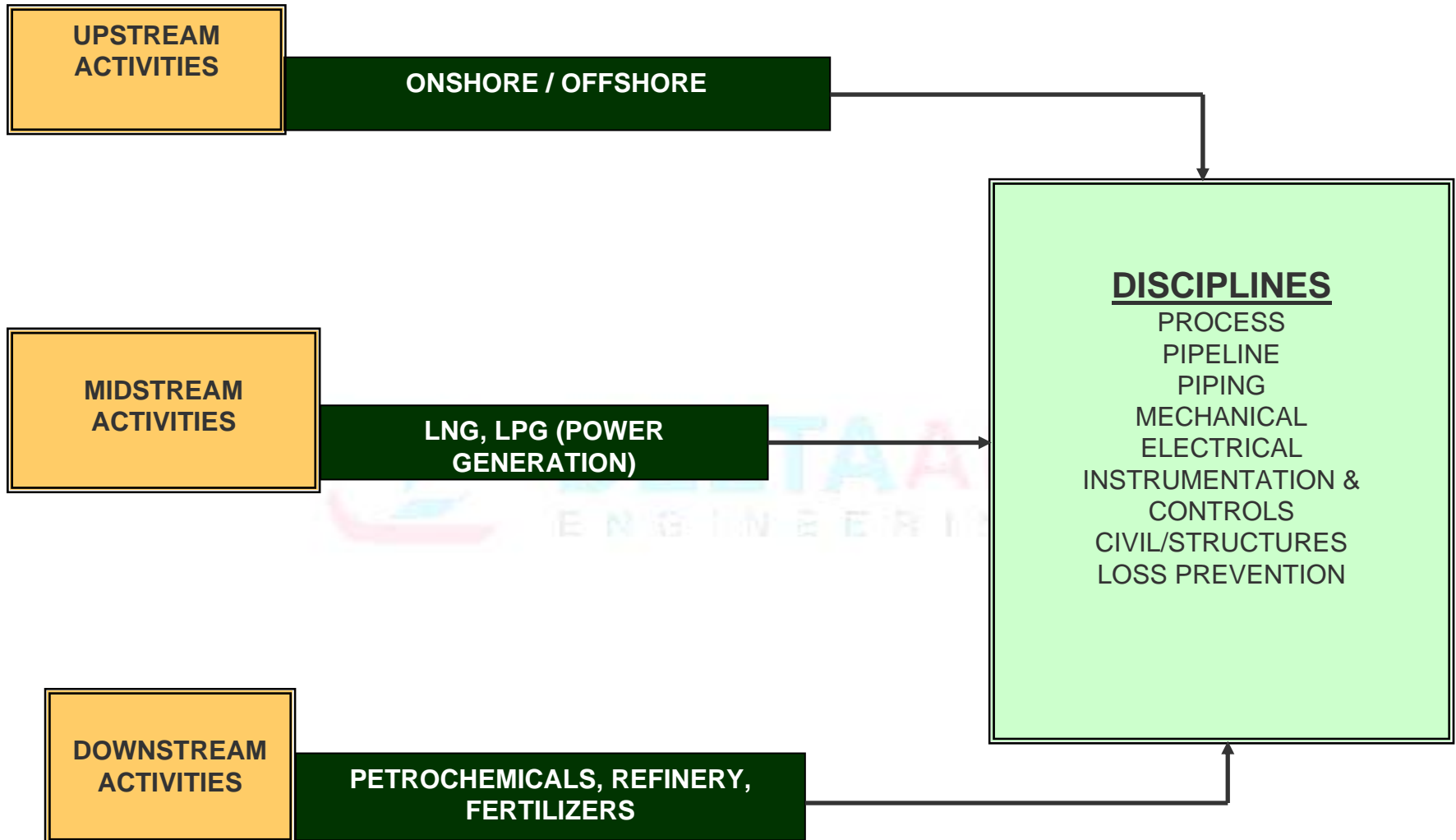
80-20 - GREENFIELD PROJECTS

70-30 - DEEPWATER (Sporadic Projects)

SUBSEA - TO DEVELOP



DELIVERING LOCAL COMPETENCY IN THESE OIL AND GAS ACTIVITIES



- **Engineering Studies**
- **FEED**
- **Detailed Engineering**
- **Procurement Services**
- **Construction Management**
- **Project Management**

FOR

- Deepwater production facilities
- Offshore production facilities
- Onshore production facilities
- Gas gathering systems
- GTL facilities
- LPG facilities
- NGL facilities
- Power
- LNG Facilities

WHY SHOULD WE ALL BE ON BOARD?

- TO HARNESS THE GROWING HUMAN CAPITAL AVAILABLE FROM OUR UNIVERSITIES AND PUT THEM TO PROPER USE.
- TO PREPARE FOR FUTURE GROWTH
- TO PREVENT CAPITAL FLIGHT
- TO ADDRESS GAPS





- DEEPWATER
- FPSO - TOPSIDE
- GAS E & P MARKET
 - Upstream
 - Downstream
 - Distribution
- POWER GENERATION

- SUSTAINABLE GROWTH
- INCREASED CAPACITY THROUGH TRAINING
- WEALTH CREATION / GDP GROWTH
- INTERNATIONAL EXPERTISE



Engineering Man-Hours Performed in Nigeria	
Capacity Pre-Intervention (2004)	250,000
Capacity Post Intervention (2008)	3,000,000
Future Estimate	5,000,000+

- GRADUATE ENGINEERS
- LOCAL INDIGENOUS COMPANIES
- OIL AND GAS SUPPORT COMPANIES
- PROFESSIONAL ENGINEERS
- NATION / UNIVERSITIES



% of entire work scope in major contract relating to Process Engineering	% of work done locally pre-Nigerian Content Administration	Immediate Impact on Job growth for Process Engineering post Nigerian Content Administration	Process Job growth projections post Nigerian Content Bill
15-20%	5% (approx. 20,000 Man-Hours)	175% (approx. 55,000 Man-Hours)	approx, 110,000 Man-Hours

110,000 Man-hours equates to 50 Process Engineers per year.

NIGERIAN CONTENT IMPACT ON DELTA AFRIK

DA PROCESS STAFF STRENGTH		% GROWTH
Pre Nigerian Content Administration (2005)	7	-
Post Nigerian Content	20	186%
Projection Post NC/PI Bill	50	150% Increase

- LACK OF LOCAL EXPERTISE
- LIMITED ACCESS TO LATEST TECHNOLOGY
- INADEQUATE TRAINING
- INSUFFICIENT TRAINING IN INDUSTRY
RELEVANT COURSES AT TERTIARY LEVELS OF
EDUCATION SECTOR

- STRATEGIC CAPACITY BUILDING
- INVESTMENT IN HUMAN CAPITAL DEVELOPMENT
- STAKEHOLDER/EDUCATIONAL SECTOR COLLABORATION
- INTERNATIONAL & LOCAL STRATEGIC PARTNERSHIPS



◆ ON THE JOB TRAINING

- ◆ Candidates are exposed to both on-going and Past Projects.

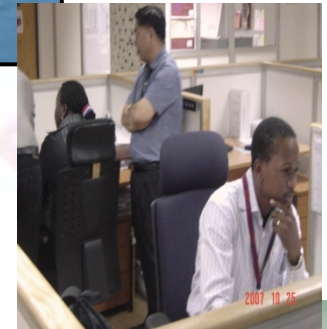


◆ MENTORING

- ◆ High potential candidates are identified and enhanced opportunities sought to accelerate their development.

◆ ROTATION

- ◆ International Secondment to affiliate companies
- ◆ Secondment to non-affiliate companies



◆ CLASSROOM TRAINING

- ◆ Training programs are developed by Subject-Matter Experts (SME) for specific disciplines
- ◆ Periodic Safety training
- ◆ Skills training and development
- ◆ External seminars where available.



- Over 60 Graduate Engineers have undergone competency based training in one of our major ongoing projects.
- 98% Retention rate of Graduate trainees.
- Other 2% - either pursuing a masters program abroad or gainfully employed elsewhere.
- Have reached out to over 6000 students in three Federal Universities through a series of Workshops/Seminars delivered on campus in the last two years
- 76 students have undergone competency based internship program since 2005.



THANK YOU

QUESTIONS

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ANSWERS