



Substrata[®]

Best Service Delivery in Oil & Gas Exploration and P roduction

Company profile

CORPORATE PROFILE

Substrata Oil and Gas Limited (RC 663293) was incorporated in 2006 to carry out oilfield services to the Oil and Gas industry in Nigeria.

Substrata is a wholly Indigenous Nigerian Company with the aim of providing solutions to challenges in both onshore and offshore fields.

We are experienced in handling simple to complex projects thereby increasing your profitability while driving down cost making a better Final Investment Decision (FID).

Our Scope includes ***Engineering, Project Management, As built ,3D Scanning and Imagery, Procurement, Engineering Survey, Fabrication, Construction and Installation.***





To provide the best value in services for the oil and gas industry in Nigeria and Africa at large.



To become the point of reference in the Africa Oil and Gas industry, known for superior service delivery with utmost professionalism.



***Integrity *Excellence *Team Spirit *Corporate Social Responsibility**



Management Team

- Kayode Thomas Managing Director
- Iyke Mgbemena Chief Operating Officer
- Dele Aikhionbare Executive Director
- Yusuf Mohammed Head QHSE & Training
- Analiefo Nzegwu Chief Financial Officer
- Blessing Okereke Head Business Development
- Gloria Iyagaba Head Administration & NCD

SUBSTRATA PRODUCTS AND SERVICES

Geology And Geophysical Services

- ❖ 3D & 4D, Land, Transition Zone, Marine, Seismic Survey Design
- ❖ Seismic Data Acquisition, Processing/Reprocessing and Interpretation
- ❖ Magnetotelluric (MT) Survey
- ❖ Reservoir Prospectivity, Geomechanics and Geochemistry Studies
- ❖ Full Field Development Studies/Planning.
- ❖ Economic Evaluation of Assets and Petroleum Economics

Well Services

- ❖ Acoustic Logging Services
- ❖ Well Head Inspection, Maintenance and replacement
- ❖ Data Acquisition Services
- ❖ Well Productivity Analysis
- ❖ Sand Management Services
- ❖ Well Integrity Management Solutions

Engineering, construction and procurements services

- ❖ Conceptual Design
- ❖ Front End Engineering Design
- ❖ Completion Design
- ❖ Process Design – Early Production Facility.
- ❖ Engineering Procurement and Construction.

Training services

- ❖ Management Trainings
- ❖ Bespoke Trainings
- ❖ QHSE Trainings
- ❖ Petroleum Geology
- ❖ Process Design

GEOLOGY AND GEOPHYSICAL SERVICES

Seismic Acquisition & Supervision

Our team of seismic experts have a combined experience of over 100 years of seismic design, acquisition and supervision.

Combined, our team has seismic experience spanning all the continents. Of the world.

Our expertise includes;

Land and

Swamp seismic

Transition Zone

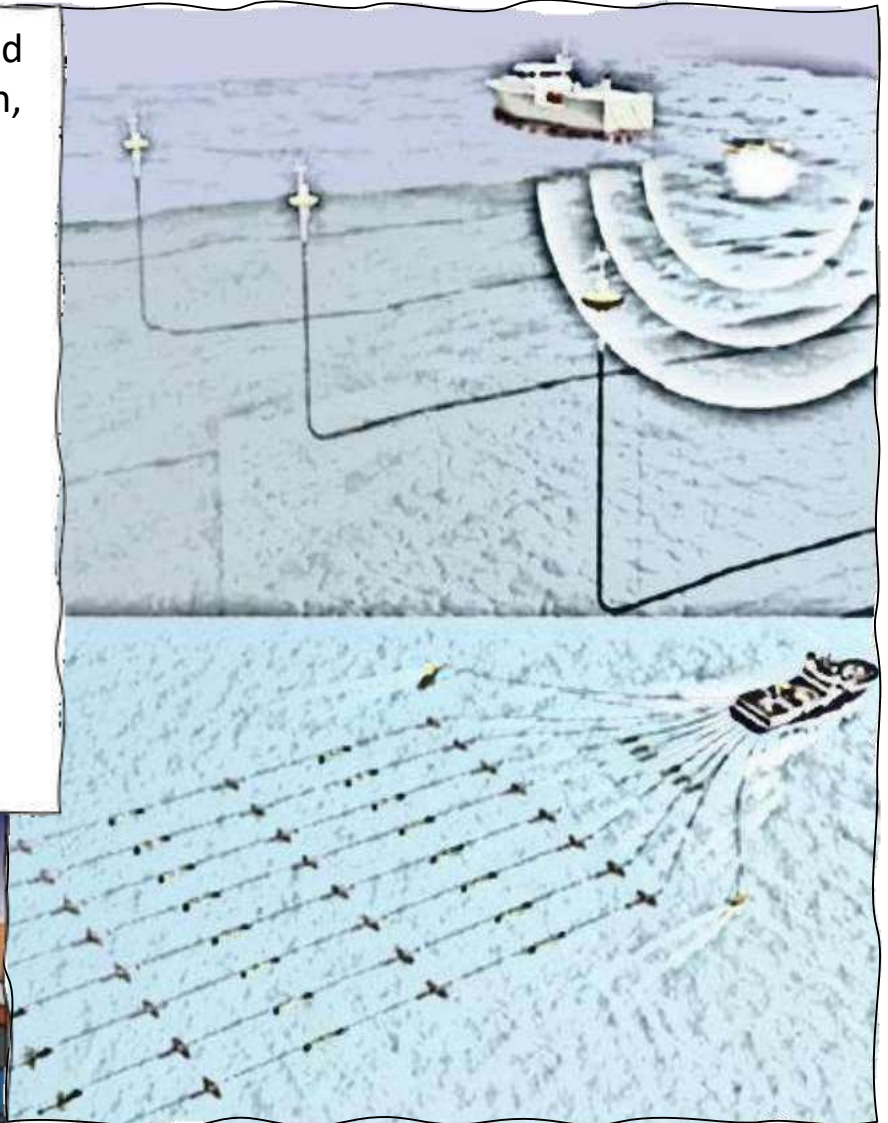
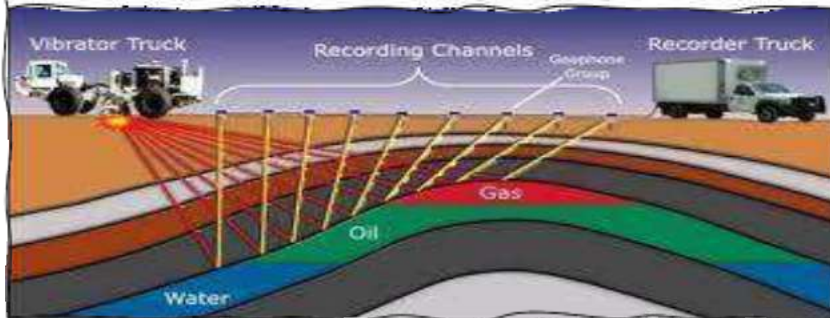
seismic Towed

streamer Seismic 4D

Seismic

4C - Four Component Ocean bottom Seismic

Ocean Bottom Cable (OBC) seismic



GEOLOGY AND GEOPHYSICAL SERVICES

Seismic Survey Design, Acquisition And Supervision

At substrata Oil and Gas, our goal is to deliver high quality seismic data to our clients ready for quantitative interpretation. To achieve this goal, we are in partnership with Geomage, a leading provider of innovative and cutting-edge solutions to the Oil and Gas industry.

Our robust algorithms are tailored to meet the most subtle challenges in 2D/3D/4D seismic data processing. The Geomage MultiFocusing imaging is a very efficient and robust tool in tackling wide range of geophysical/geological condition listed below:

- ❖ Data Pre-conditioning
- ❖ Noise Attenuation
- ❖ Deghosting and Designature
- ❖ Multiple Suppression
- ❖ Data Interpolation and Regularisation
- ❖ Structural Seismic Imaging

Seismic Data Interpretation

Our state-of-the-art interpretation tools offer a new way to detect and characterize fractures and other small reservoir heterogeneities.

The Geomage Mult Focusing Diffraction Imaging comprehensively describes these diffractions. We use calibrated borehole data to identify and interpret the geological horizons that are of significance to the hydrocarbon system. The major faulting system are also interpreted

GEOLOGY AND GEOPHYSICAL SERVICES

PETROPHYSICAL ANALYSIS

Substrata Oil and Gas have pioneered integrated petrophysics for reservoir description in support of field, pool, and basin studies, and in productivity analysis from logs and cores in support of reservoir simulations.

Most recently, we have developed unique solutions for conventional reservoirs and for calculation of rock mechanical properties for stimulation design and seismic attribute interpretation.

- ❖ Physical Property Analysis
- ❖ Well Log Analysis
- ❖ Rock Property Modeling
- ❖ Seismic Petrophysics

GEOPHYSICAL STUDIES

Substrata offer a comprehensive, robust suite of Geophysical interpretation services designed to use all of the geophysical, sedimentological and structural information to provide the client with a superior interpretive products and accurate prospect maps.

- ❖ 2D/3D Structural Analysis
- ❖ Attribute Analysis
- ❖ Integrated Asset Evaluation
- ❖ AVO/AVA Analysis
- ❖ Inversion Studies
- ❖ Fault Seal Analysis

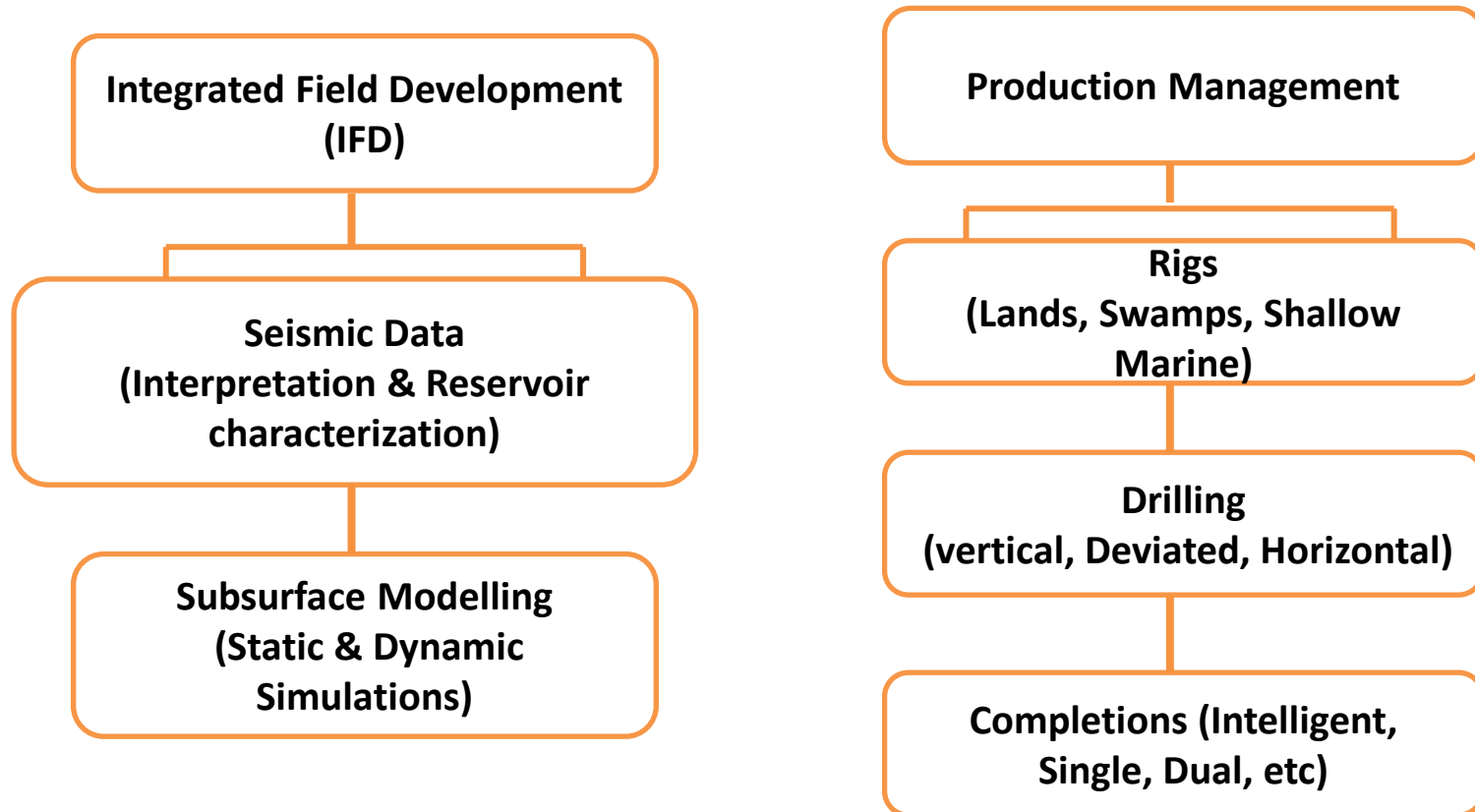
FULL FIELD DEVELOPMENT STUDIES/PLANNING

Our team of professionals are well experienced in planning and field development studies. Our experts will help evaluate and choose the best option for the development of the field based on several factors including though not limited to paucity of funds and operational cost, net present value, oil and gas recovery etc.

GEOLOGY AND GEOPHYSICAL SERVICES

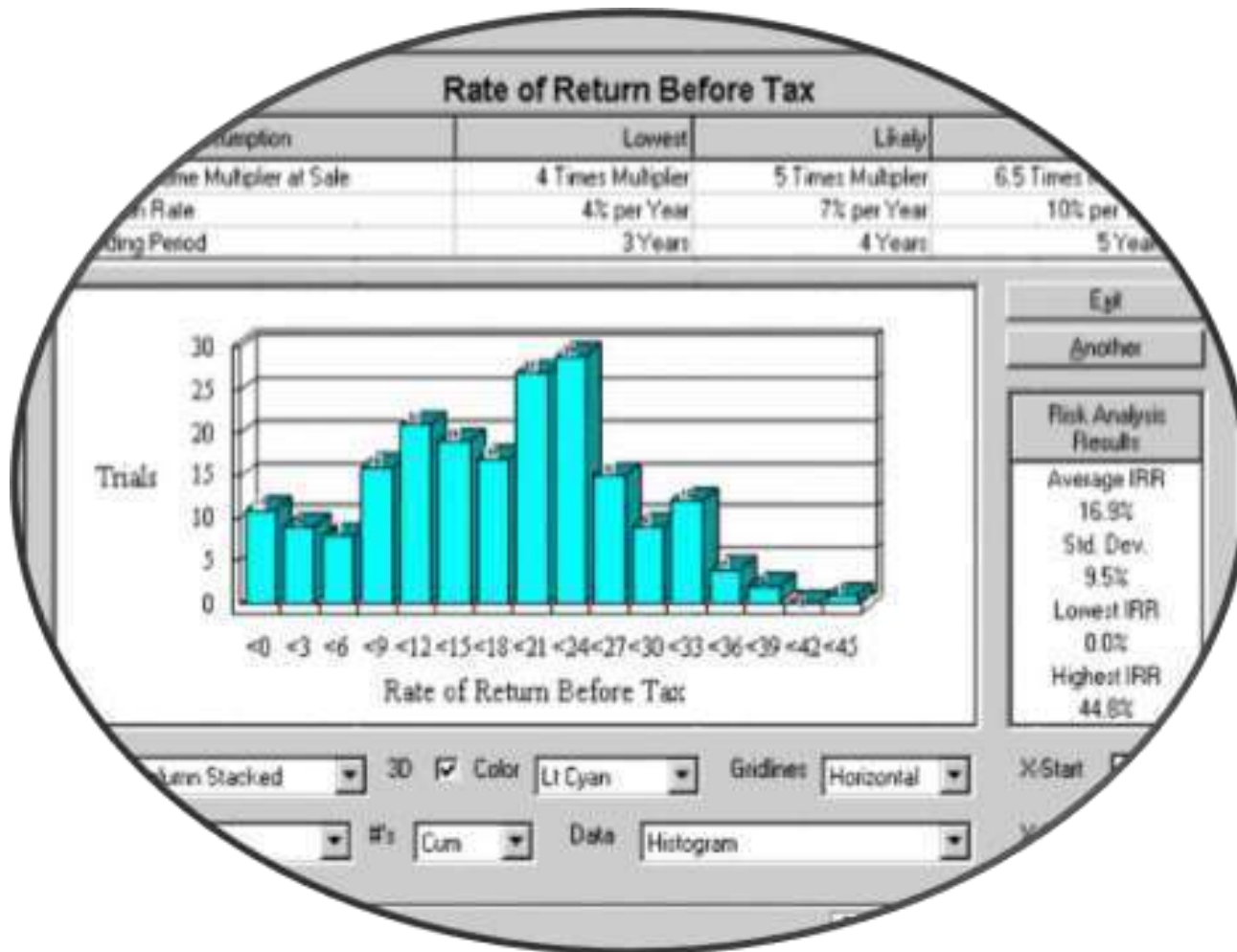
Field Development & Prospectivity Studies

In today's Exploration and Production identifying viable assets has become very challenging hence the need for very experienced teams and advanced technologies available in the industry to make informed economically viable decisions. Our team in conjunction with our technical partners, provides this service efficiently and cost effectively to our esteemed clients.



GEOLOGY AND GEOPHYSICAL SERVICES

Petroleum Economics



WELL services

Well Productivity Analysis

Well productivity services are essential for evaluating, enhancing, and sustaining optimal hydrocarbon flow from reservoirs through effective technical interventions. They include:

- ❖ Acoustic Logging Well Head Integrity Measurement
- ❖ Well Testing And Evaluation
- ❖ Production Logging
- ❖ Reservoir Pressure Monitoring
- ❖ Inflow Performance Analysis (IPR)
- ❖ Stimulation Design And Evaluation
- ❖ Nodal Analysis
- ❖ Wellbore Cleanout And Optimization
- ❖ Artificial Lift Optimization
- ❖ Skin Factor Assessment
- ❖ Decline Curve Analysis
- ❖ Well Performance Modelling
- ❖ Water/Gas Coning Control



WELL SERVICES

Data Acquisition Services

Our reservoir data acquisition services is second to none in the Oil and Gas industry. This is achieved by using advance data loggers from SPARTEK

Applications

- Well Testing
- Well Performance Monitoring
- Permanent Sensors (Monitoring)
- Completion Diagnostics
- Well Stimulation
- Reservoir Characterization
- Gradient Survey
- Monitor Well Efficiency
- Production diagnostics
- Analyze production profile by zone
- Monitor well stimulations
- Well mechanical integrity analysis
- Time lapse logging
- Well treatment verification



WELL SERVICES

Sand Management Services

Sand detection and Sand rate determination using advance non-intrusive sand detector equipment.

Sand sample collection for sieve analysis.

Grain size determination.

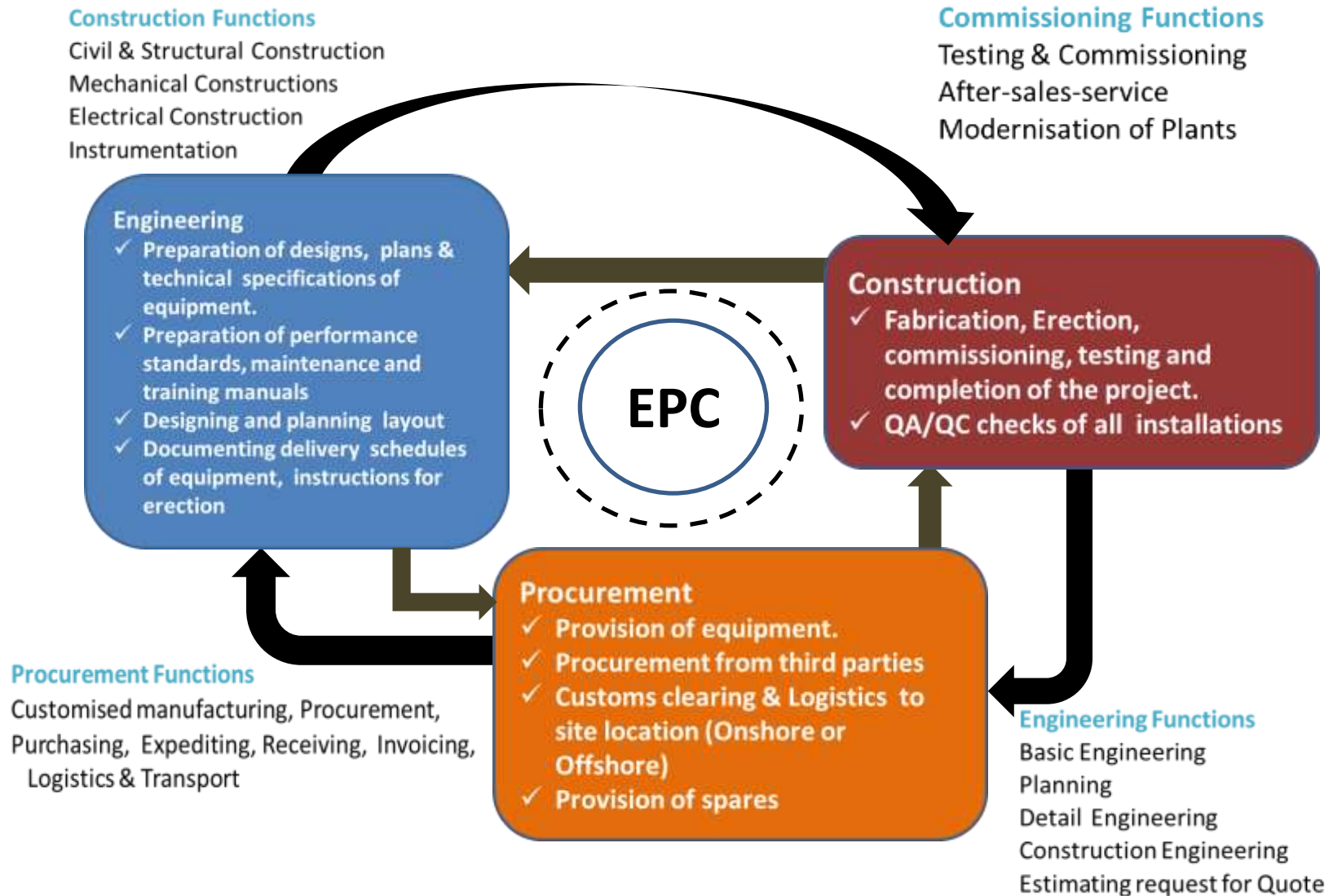
Design of wellhead desander and Hydrocyclones to remove identified solids from the multiphase flow.

Remove sand and abrasive solids from the flow. For example, crude oil production, drilling fluids, and other multiphase flows.

Controlled disposal of removed solids.



ENGINEERING, CONSTRUCTION AND PROCUREMENT



TRAINING SERVICES

Services offered

❖ Business Development, tendering and compliance

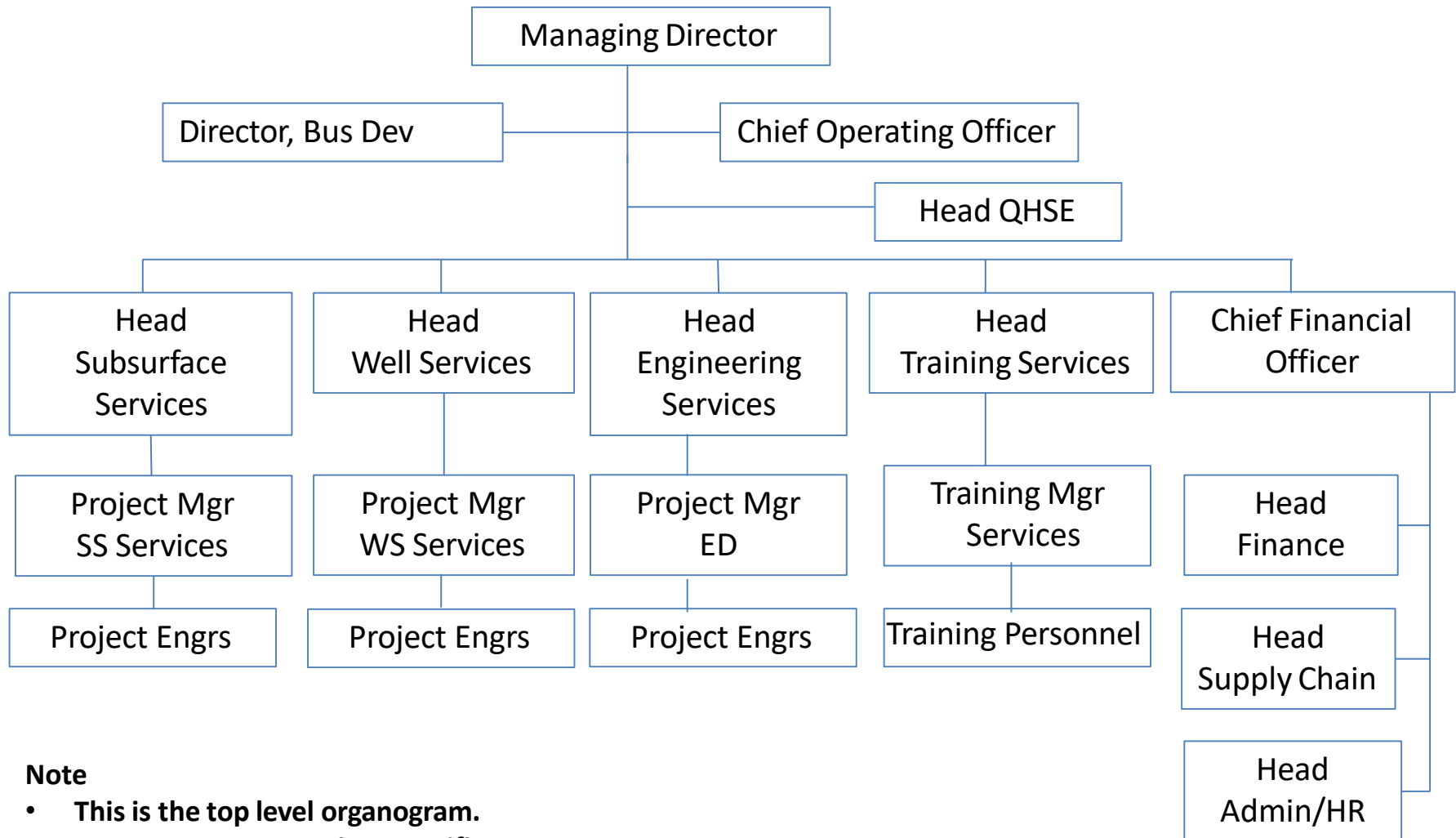
❖ Technical training (Hands on)

- Seismic data processing, reprocessing and interpretation
- Acoustic well logging
- Produced water treatment and management
- Basic mud logging
- Basic mud engineering
- Basic and advanced well engineering
- Introduction to petrophysics
- Basic and advanced rig hands training
- Solid control
- Specialized drilling operation
- Well control awareness
- Productive technology
- Warehouse / LMP operations

EXECUTED JOBS

In compliance with a confidentiality agreement, we are unable to publicly display executed jobs. However, we can provide detailed information upon individual request for review or verification purposes

SUBSTRATA ORGANOGRAM



Note

- This is the top level organogram.
- Organograms are project specific.

ALLIANCE AND PARTNERS



**DE-GRILLS INTEGRATED
SERVICES LIMITED**



CCSC PETROLEUM EQUIPMENT LTD CO
Web: www.ccscpetro.com

Substrata®

SUBSTRATA OFFICE COMPLEX

Trans Amadi Facility



Front View - Outside



Front View - Inside



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