

Value Chain in the Oil and Gas Upstream



Samuel Safo Tchofo
Dit Kamdem



Key Actors

**Gouvernement
Institutions**

National Oil Companies

Oil Companies

Service Companies



Key Specialities

- **Geoscience**
 - Geology, Geophysics
- **Engineering**
 - Petroleum, Mining, Mechanical, Civil, Electrical, Computer, Telecom,...
- **Business administration**
 - Finance, Contracts, Legal, HR...
- **Supply Chain**
 - Procurement, Logistics, ...



Remarks of Key Specialities

Strengths:

- Specialisation
- Continuity
- Focused Training

Weaknesses:

- Limited Team work
- Limited common language
- Limited knowledge of the overall chain

How can we reduce the weaknesses?



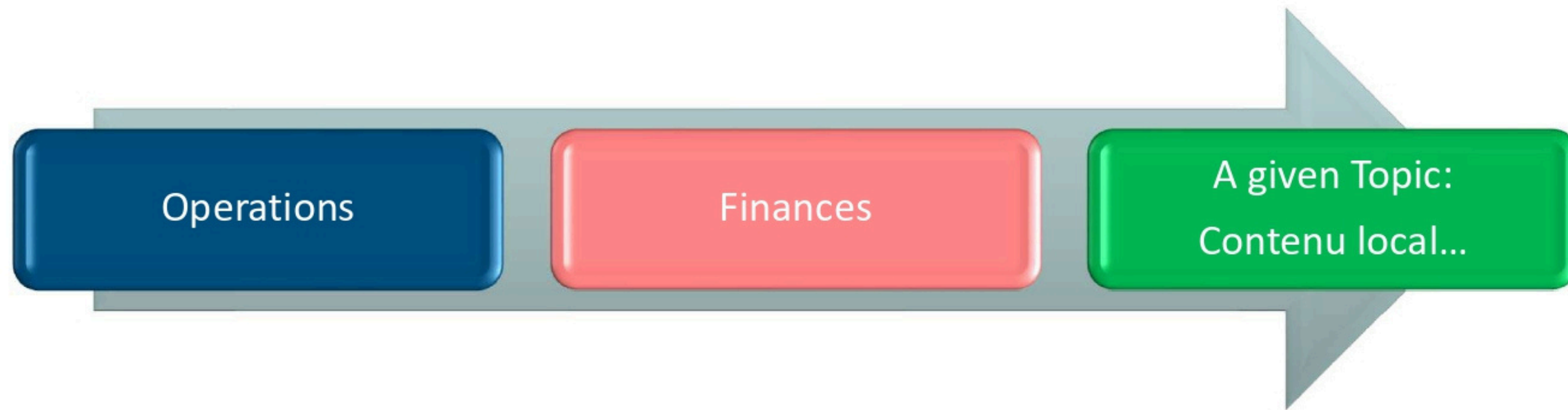
Petro\$steps: The Objective

- To understand the cycle and the services of the oil upstream sector
- To simulate the cycle from the exploration license to the abandonment (exploration, production....)
- To work in pluri-disciplinary teams on a given topic (local content...)
- Team Building



Petro\$steps: The Tool

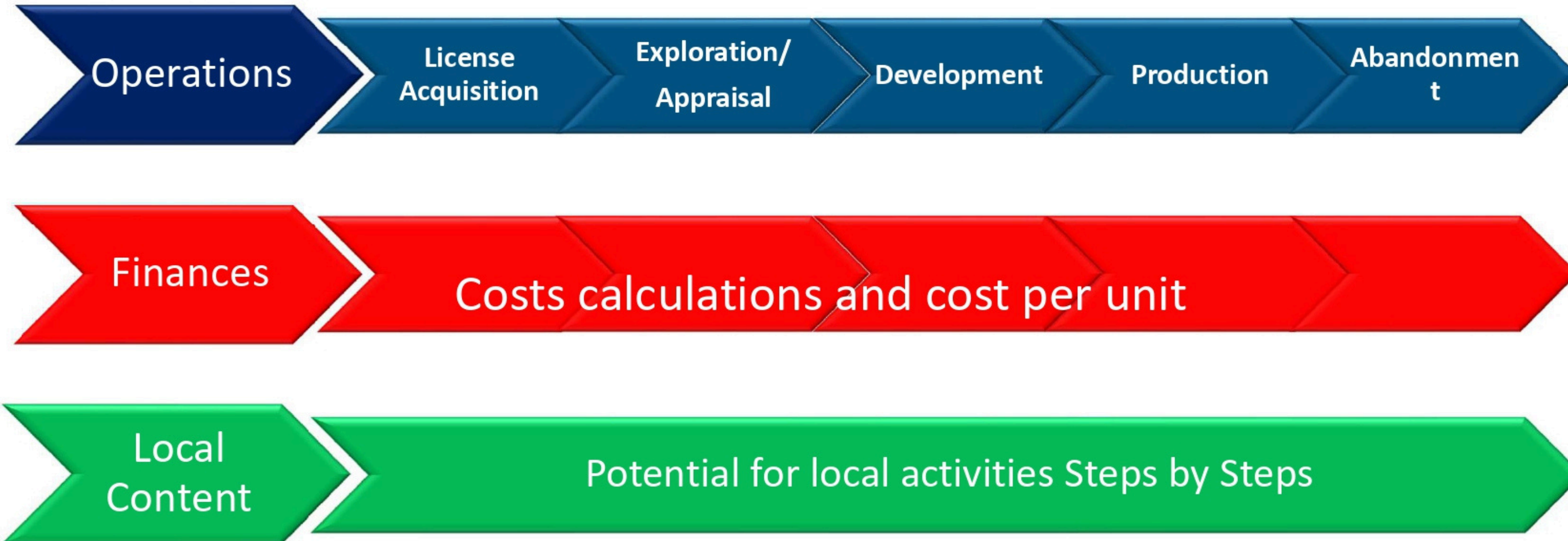
1. Web and Computer base
2. A 25 years activity trip from an exploration license acquisition to abandonnment
3. An interactive and playfull tool
4. 3 key streams:



5. Resutats Presentations



The Key Streams



Running a session

1. Create your Oil Company
2. Choose Block and acquire a license
3. Go through the cycle \$tep by \$tep: exploration, appraisal, development, production, abandonment
4. Discover and understand the operations and services: Vidéo sessions...
5. Cost and profitability calculations \$tep by \$tep
6. Find and classify activities eligible to session theme: Local Content
7. Present your results to the group



Examples of Screens Copies

Oil PRICE
55 \$/B

BUDGET
500 M

PRODUCTION YEAR
25

CUMUL - PROD
28530803.79 B

Projected revenue
2750000000 MUSD

SPENDINGS
336768000 \$/MM

ACTUAL FLOWRATE
886.294 B/D

ACTUAL REVENUE
1569190000 MUSD

STEP 1
LICENSE

STEP 2
SURVEY

STEP 3
EXPLORATION

STEP 4
APPRAISAL

STEP 5
DEVELOPMENT

STEP 6
PRODUCTION

STEP 7
2nd RECOVERY

STEP 8
ABANDON

DETAILED
PARAMETERS

Step 5 - DEVELOPMENT



Project DevWell Cost: 4400000

DEVELOPMENT WELLS CONSTRUCTION
DEVWELL1 Flowrate (B/D): 800
DEVWELL2 Flowrate (B/D): 800
DEVWELL3 Flowrate (B/D): 800

Task Status

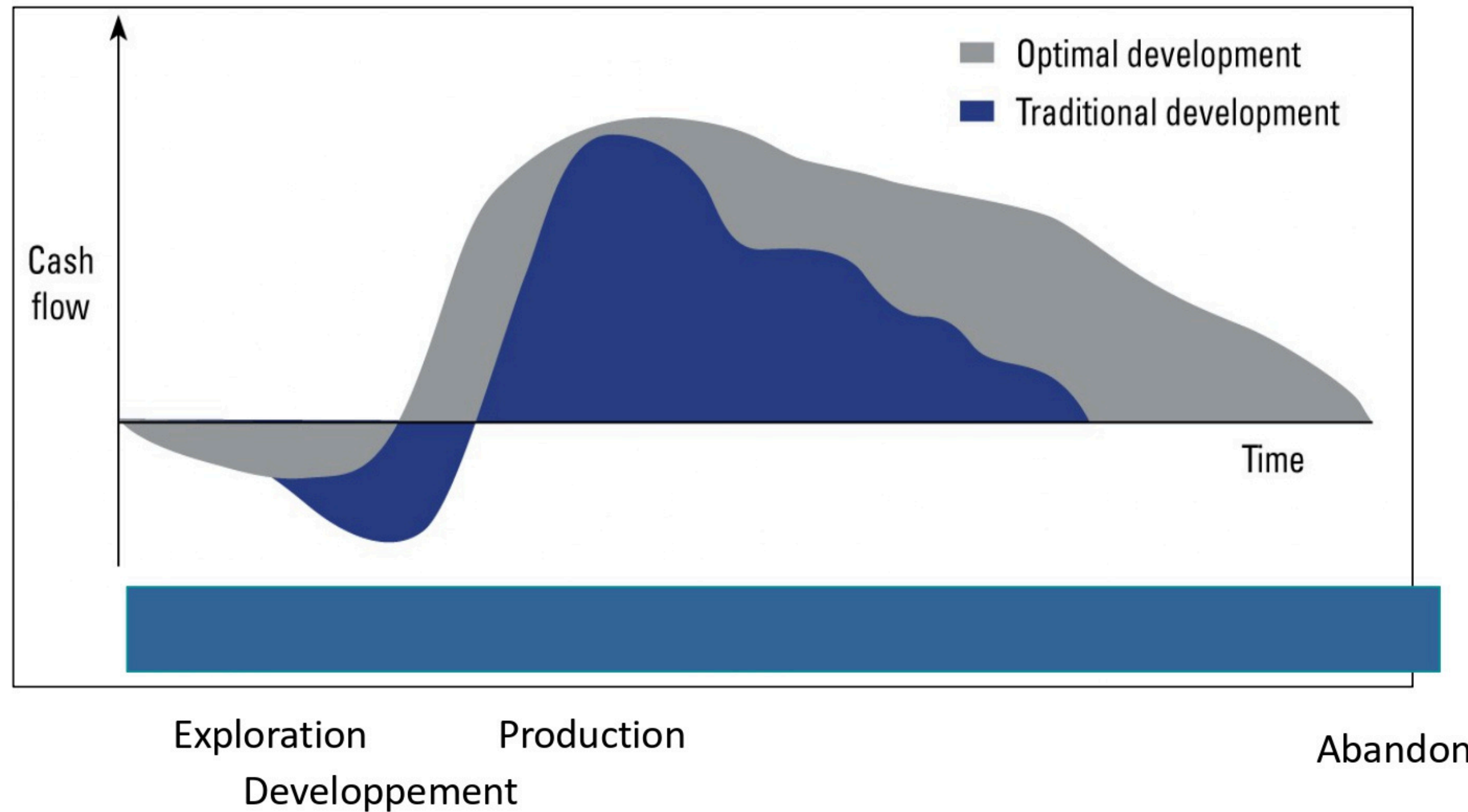
Task51: CONSTRUCT DevWell1

Task52: CONSTRUCT DevWell2

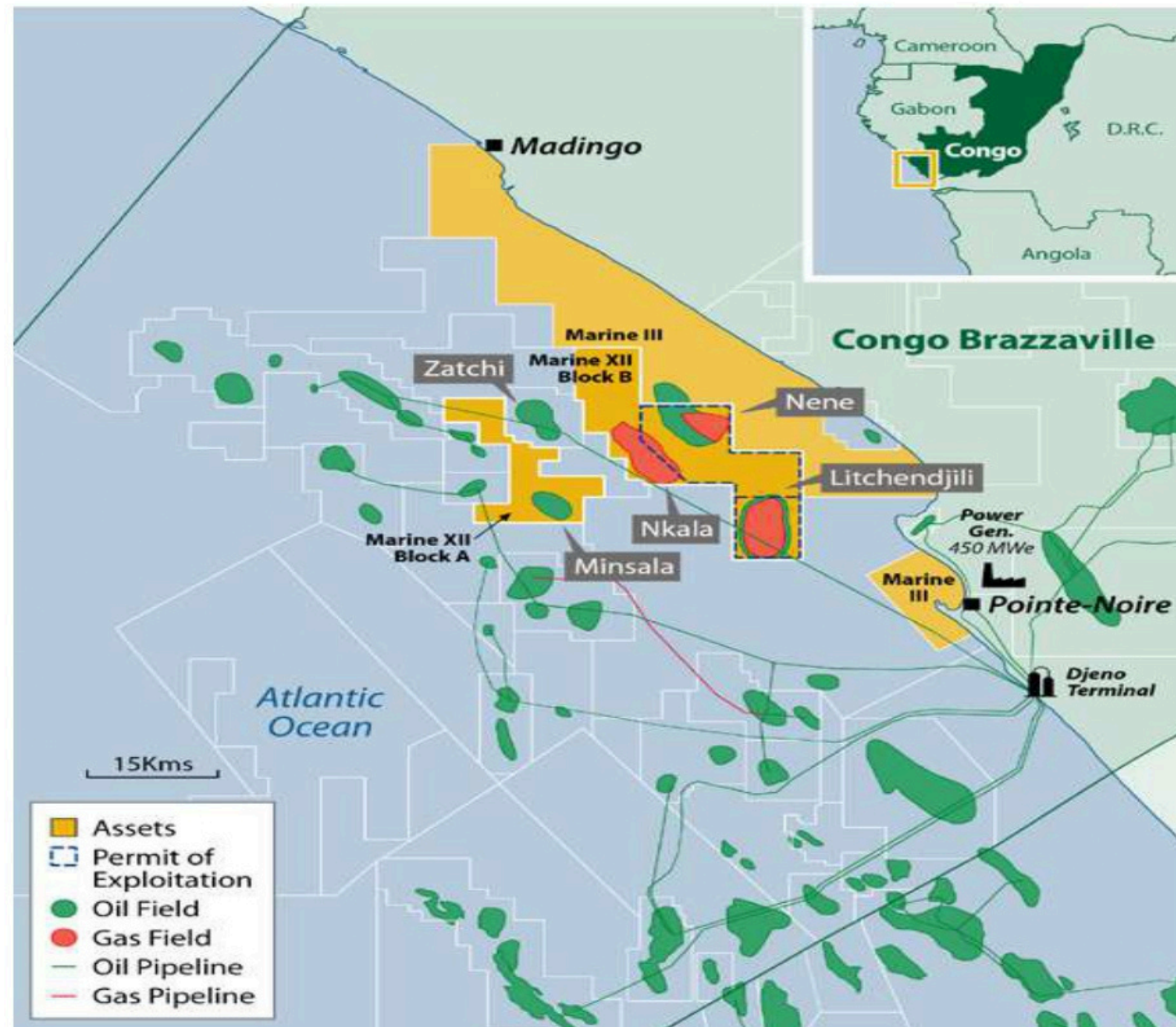
Task53: CONSTRUCT DevWell3



Cash flow during the cycle



Example of a Country Petroleum Blocks



Example of Petro\$teps Session



Conclusion on Petro\$steps

- Playful and Interactive tool.
- Understanding the Cycle and the services in the oil upstream sector
- Simulation of the petroleum cycle from the exploration license to the abandonment (exploration, production....)
- Working in pluri-disciplinary teams on a given topic (local content...)
- Team Building
- Concerns all key acteurs of the Petroleum sector



Petro\$teps



*Together
We Bring Clarity to Complexity*



Consoltia
Consulting for Africa