Category: Management Panel Title: Project Management

#### **Project Management in E&P Projects**

# **Elina Bagheri** Head Of Planning in Drilling Department Pars Oil & Gas Company





#### **CONTENT**

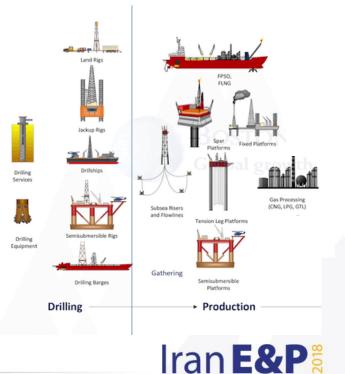
- E&P Philosophy
- ➢ EPC VS. E&P
- Project definition
- E&P Lifecycle
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- Conclusion



### **E&P Philosophy**

poor performance in EPC(Development) due to lack of contractual flexibility, poor quality of front end design engineering and production start up delays.

- Goals Alignment
- More Contractor Liability and less client control
- Exploration, Development and production integrity
- Interface management
- Contract flexibility (Iteration)
- High Risk and High Reward
- long-term sustainable development (diversity)
- Max Value





### EPC VS. E&P

	Area	EPC	E&P
	Life cycle	Project	Product
	Scope	Development	Exploration, Development & Production
	Duration	Short term (4-5 years)	Long term (20-25 years)
	Contract type	EPC , Buyback	IPC, PSC ,
	Focus	Efficiency	Efficiency & Effectiveness (Economy is more important)
	Governance level (Contractor)	Delivery	Investment, Execution , Delivery
	Critical Knowledge Area	Scope , Quality	Integration, Risk, Cost
Tehra	Uncertainty & Complexity	High	Very High

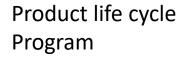
E&P

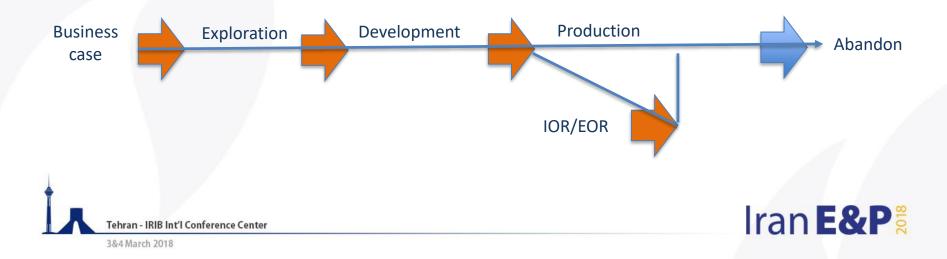
#### **Project Definition**

- Temporary endeavor
- unique product or service

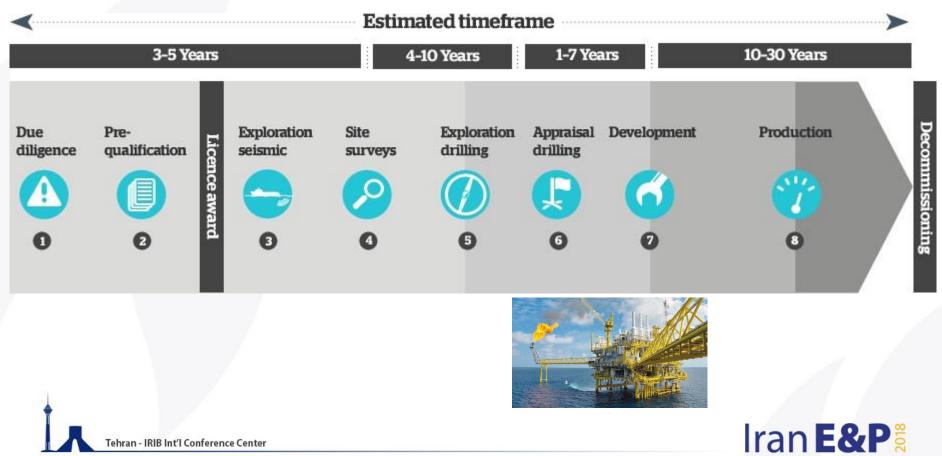


Progressive elaboration





#### **E&P Lifecycle**



# **Product VS. Project**

#### Project

- Result (Output)
- Doing things right
- EPC , Buyback
- Short term (5 Years)

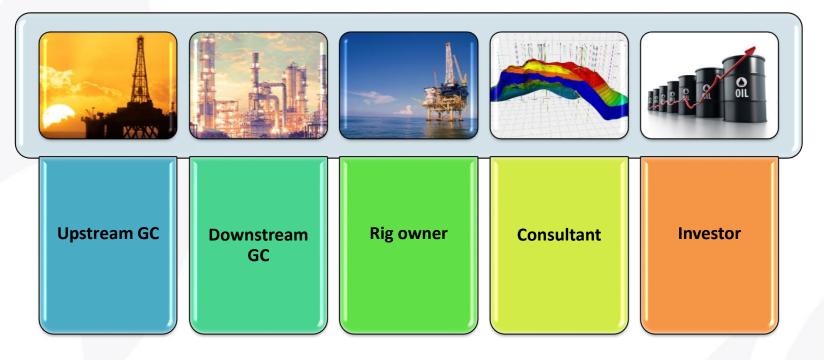
# Product

- Benefit (Outcome and Impact)
- Doing the Right things
- IPC , PSC
- Long term (25 Years)

Iran E&P



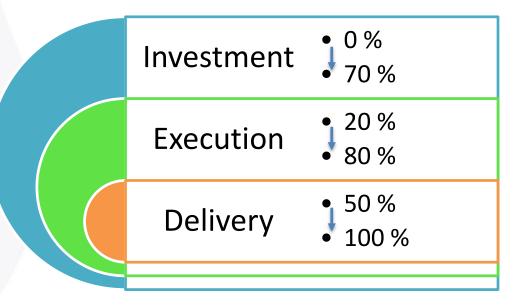
#### Iranian E&P Com.





Iran **E&P** 

#### **Contractor Governance level**





Iran **E&P** 

#### EEF & OPA

- High Uncertainty and complexity EEF & OPA is critical
- OPA need Infrastructure
- Big Data & Digitalization

Medium-impact opportunity High-impact opportunity Upstream Exploration **Development** Production Analysis and Reservoir modeling (eg, real-time feedback Seismic analysis modeling to optimize production) Production optimization Drilling and Drilling (eg, resource dispatching, well (eg, production-flow planning, field-development planning) wells analytics) Process-control automa-**Business** tion (eg, automation of operations continuous processes) Reliability and preventive maintenance (eg, equipment-condition monitoring, maintenance-Maintenance operations planning) Supply Supply chain (eq, planning analytics, automating process steps chain in day-to-day operations) Capital Capital productivity (eg, planning execution, documentation of work-flow automation) productivity

Tehran - IRIB Int'l Conference Center

Source: Expert interviews; McKinsey analysis

#### **Critical Knowledge Area**

- Integrity (vertical & horizontal)
- Cost ( Capex & Opex )
- Risk (Management, Political, Financial) in all level
- 1. The uncertainty associated with commercial parameters (e.g., product prices, costs, well deliverability, etc.).

Iran **E&P**<sup>8</sup>

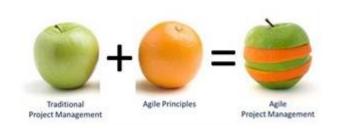
•2. The exposure of the project to the fiscal, political, and business environment



#### **solution**

Uncertainty & complexity — Different Tools & techniques

- Portfolio Management (Operation & Nonoperation)
- Agile PM tools & techniques
- strategic Planning







### **Conclusion**

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