

# JOURNEY INTO UNCHARTED TERRITORIES

How are owners, contractors and suppliers adapting to successfully execute projects and reposition their businesses in the ever evolving project environment?

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#### **Maximizing Project Value Beyond Cost Cutting**

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30 Years Experience
Operations and Projects
Upstream and Downstream



Project Services Manager Noble Energy, Inc

## UNCHARTED TERRITORIES

**Breakout Forum** 



### Noble Energy, Inc

Noble Energy, Inc. is
a leading independent energy company,
with a diverse portfolio of high-quality assets,
committed to delivering value
to our investors, business partners and employees.





# Noble Energy Current Areas of Operations

- Offshore Deepwater Assets
  - US GoM
  - Eastern Mediterranean
  - Western Africa
- Onshore Shale Assets
  - Niobrara Rocky Mountains



### How does Noble Energy deliver Value?

- We create Value by discovering and monetizing hydrocarbons quickly in a safe and responsible manner.
- We optimize Value through Lower Costs and Faster Schedules
- We prevent Value destruction with an emphasis on Quality Management



#### How do YOU deliver Value?

- Do YOU create Value by discovering and monetizing <u>opportunities</u> quickly in a safe and responsible manner?
- Do YOU optimize Value through Lower Costs and Faster Schedules?
- Do YOU prevent Value destruction with an emphasis on Quality Management?



### Our Components of Value



Value

Cost

**Schedule** 



### Managing Quality for Value

Quality preserves Value

 Cost Cutting on Quality is accepting a short term gain for a long term loss

Quality should not be compromised



### Quality Components of Value - Examples

- Contractor Availability
- Efficient Work Processes & Systems
- Health & Environmental Awareness
- Integrity & Reputation
- Risk Management
- Safety Record, Practices, and Programs
- Workmanship



### Managing Cost and Schedule for Value

 Net Present Value can be used to evaluate incremental changes to Cost and Schedule

$$NPV = CF1/(1+r) + CFn/(1+r)n ...$$

CF1 = Cash Flow in Year 1
CFn = Cash Flow in Year n
r = discount rate

Optimizing Cash Flow is the key to Managing Cost and Schedule for Value

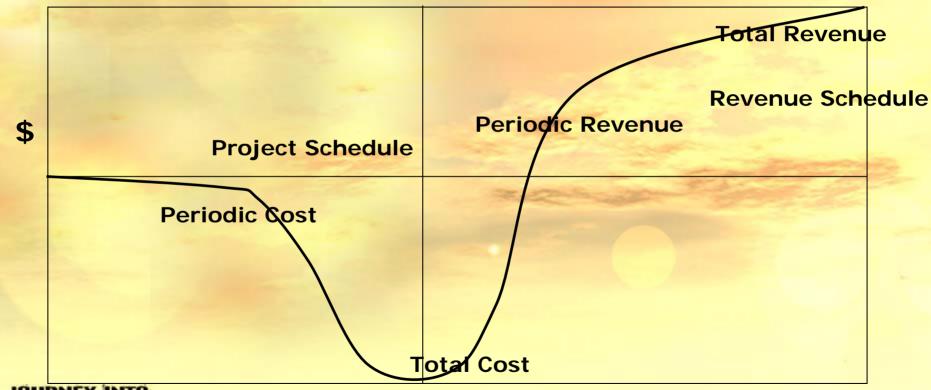


### Owner's Cash Flow

#### **Cumulative Cash Flow**

**Project Implementation** 

**Production Operations** 



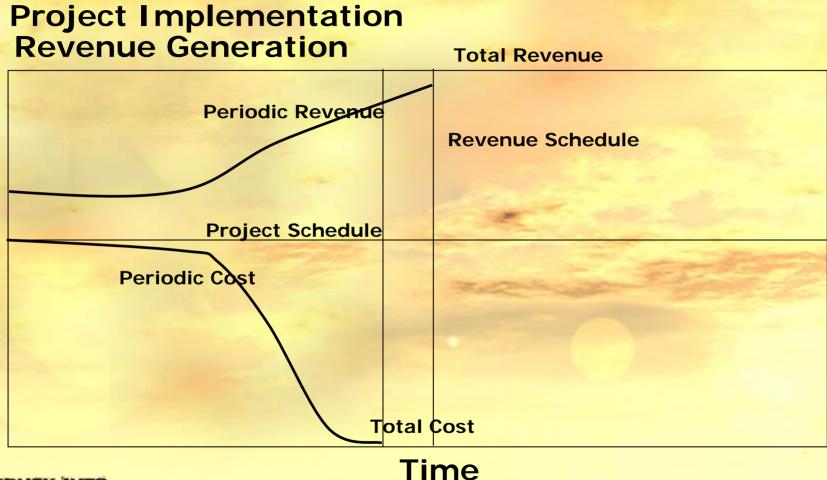


### Owner's Value of Time and Money

Impact of Cumulative Cash Flow Changes on NPV **Project Implementation Production Operations Total Revenue** Revenue Schedule Periodic Revenue **Project Schedule** Periodic Cost

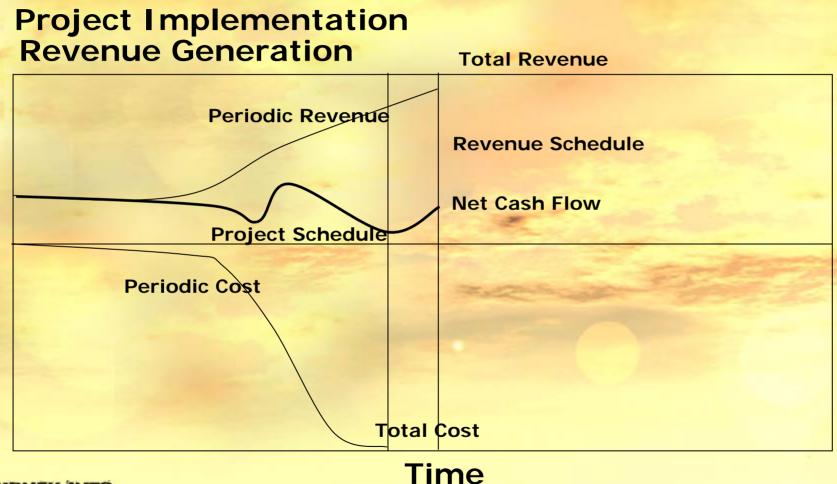
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### Contractor's Cash Flow





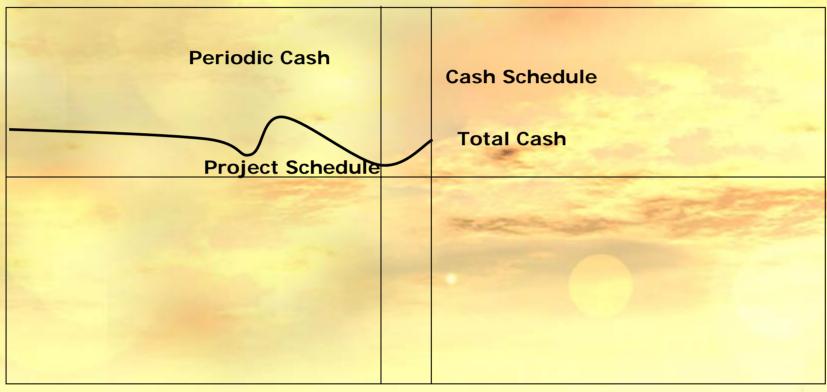
### Contractor's Cash Flow





### Contractor's Cash Flow

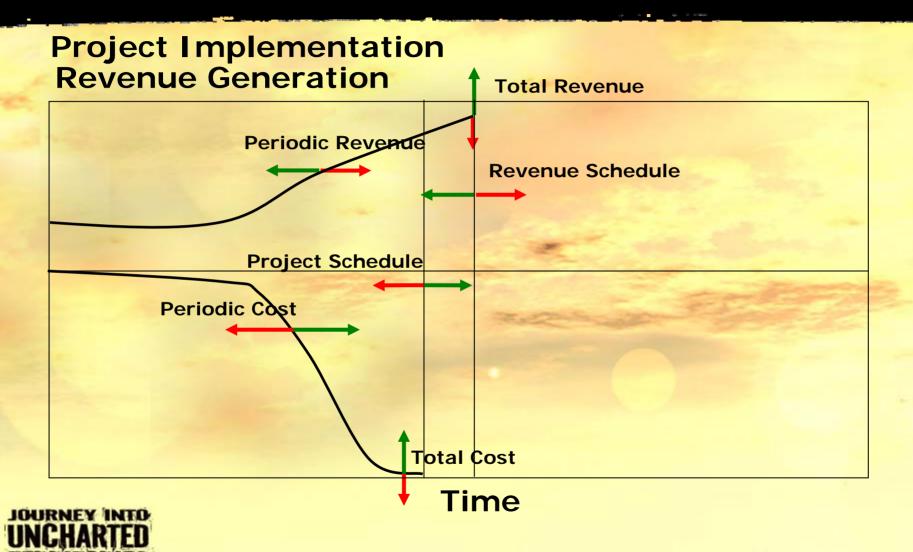
#### **Cumulative Net Cash Flow**





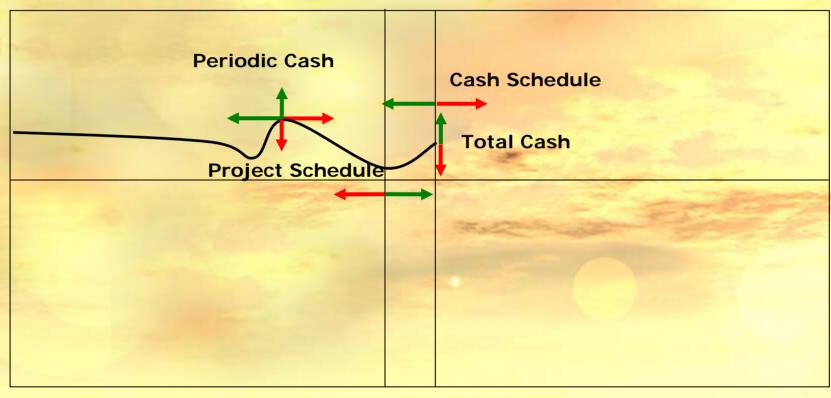
**Time** 

### Contractor's Value of Time and Money



### Contractor's Value of Time and Money

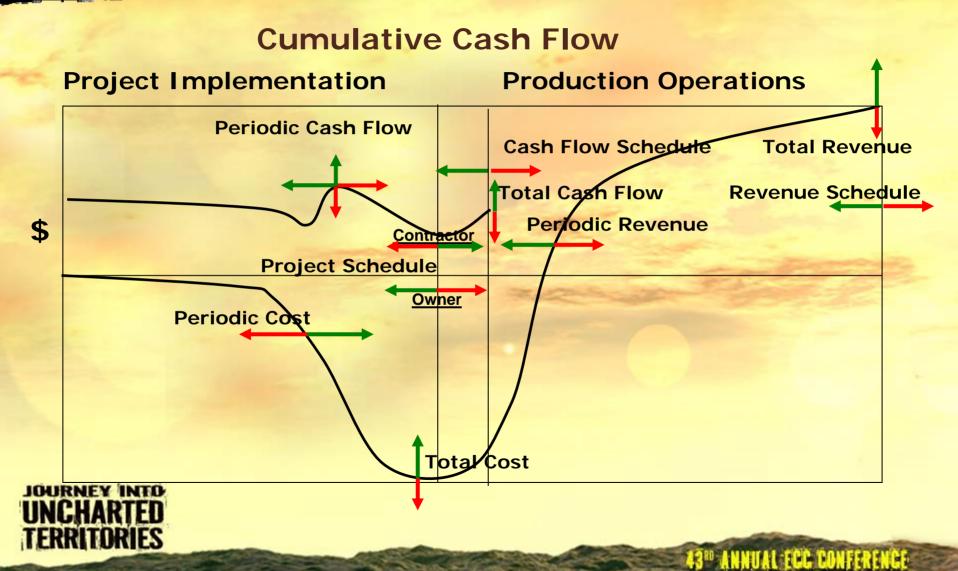
#### **Cumulative Net Cash Flow**





**Time** 

### Misaligned Values of Time and Money?



### Conclusions

Our common goal: Maximize Project Value How?

- Understand the Drivers of NPV
- Optimize Quality
- Accelerate Schedules
- Reduce Costs

