21st Century Tanker Operations

Tanker Operator Conference Hamburg 2014

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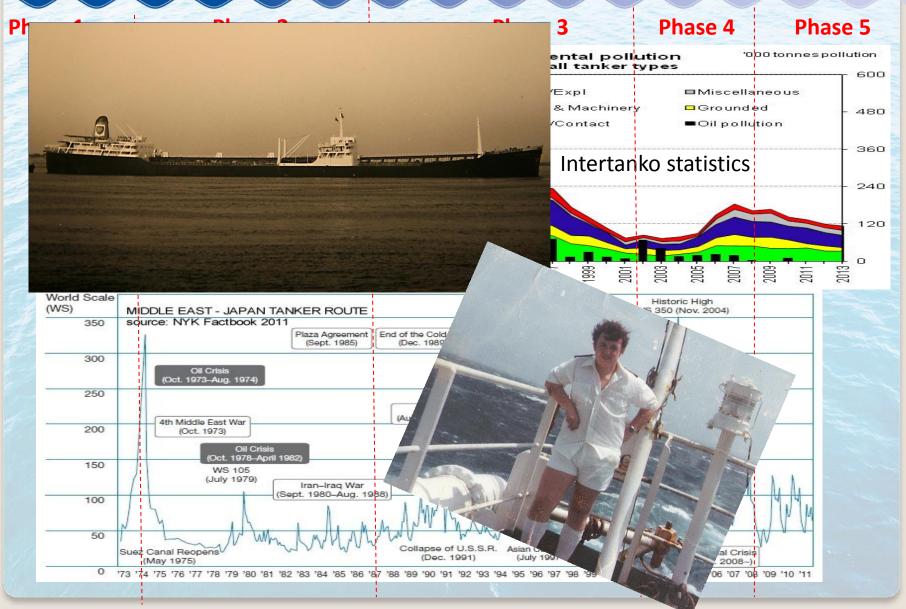
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Outline

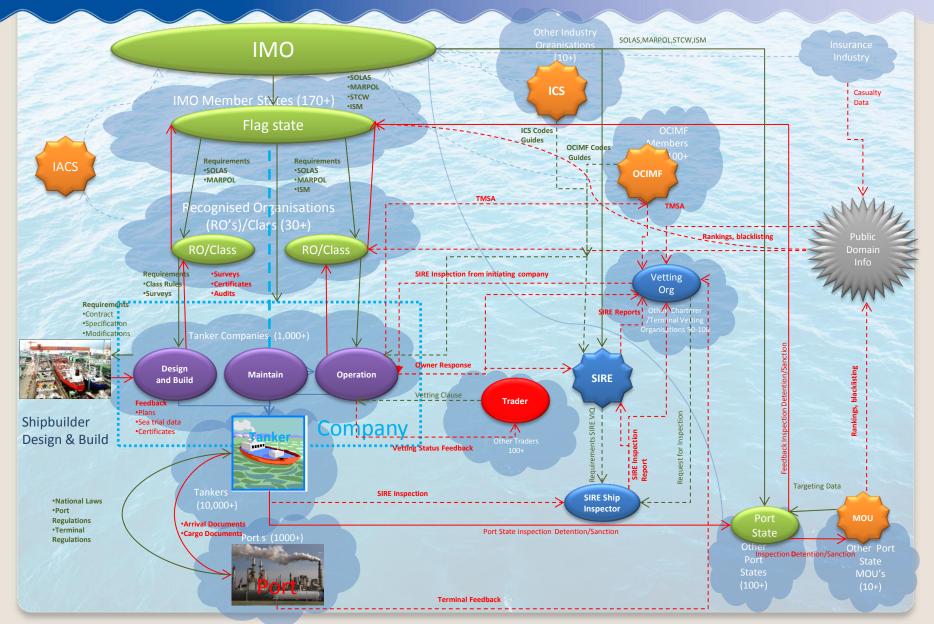
- The complex and changing tanker industry
 - How we got here-5 Phases
 - Regulations
 - Customer base
- Complexity
 - What is Complexity?
 - Why worry about it?
 - Influences and Choices
 - Complexity at the sharp end
- 21st century tanker operations
 - Resilient or brittle
 - The resilient tanker operator
 - The human contribution-hero or hazard

Our complex and changing industry

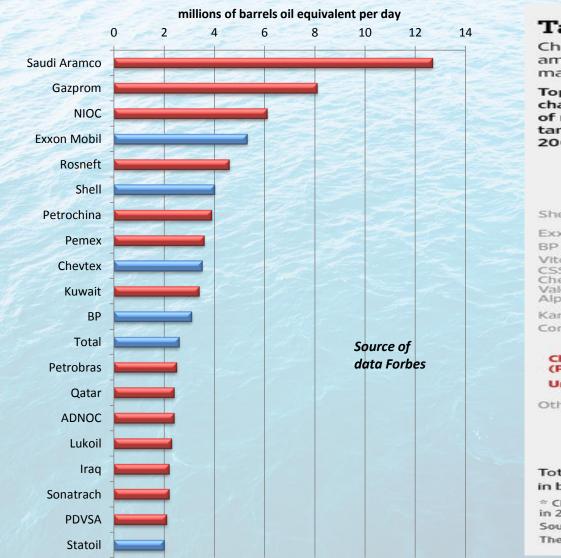
40 Years .. Five Phases



moams Complex & changing regulation

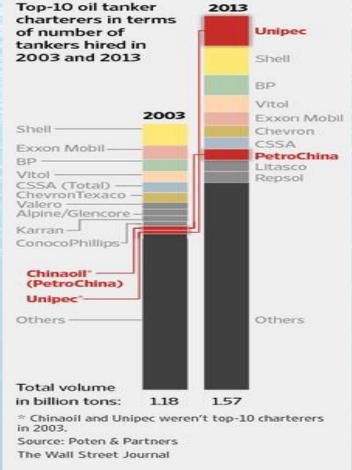


moams Complex& changing customer base



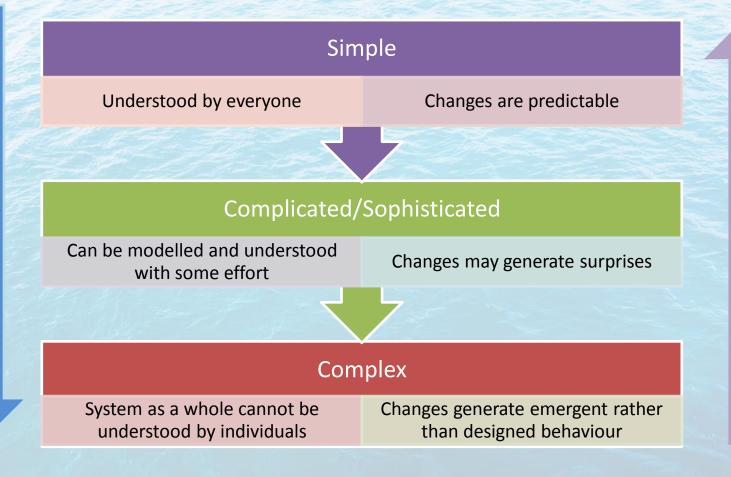
Tanker Traffic

Chinese companies have become among the largest players in the oil market over the past decade.



Complexity

What is complexity?



Reduce Complexity/Make Things Simple

moams Why worry about Complexity?

Complex organisations are :-Higher risk

- Unpredictable and hard work to manage
- More unpredictable and unexplainable accidents and incident
- Confusing and de-motivating for the people within
- Brittle

Less profitable

- Lost opportunities and profitability
- Lack of agility
- Cost more to run

moams Its complex on board!

Conflicting Goals

Your priority is safety, emissions, greenhouse gas piracy, security, making money, doing things quicker, ballast water, doing the paperwork

Duplicate /Conflicting Requirements

You need to follow the owners, charterers, flag states, port states, terminals rules and the qa system, chartering, accounts, purchasing department, procedures

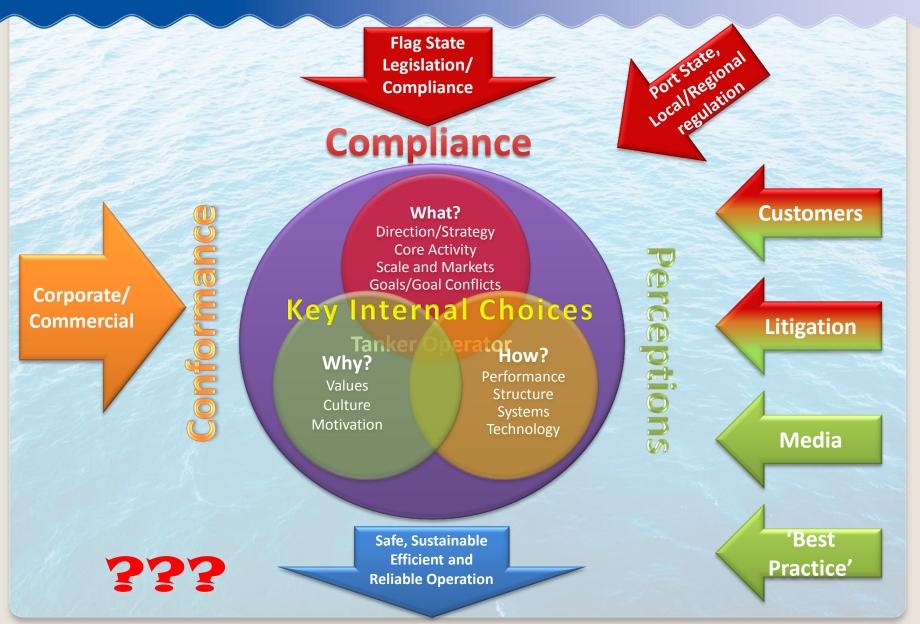
Communications

Budgets Planned Maintenance Spare Gear and Stores Risk Assessments Incident Reports Near Misses Port and Cargo Info ISO9001 ISO14001 ISM ISPS SIRE/CDI TMSA

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Systems

moams Complexity-Influences & Choices



Making things simpler

- 1. You need to put a very high value on simplicity
- 2. You must be determined to seek simplicity
- 3. You need to understand the matter very well
- 4. You need to design alternatives and possibilities
- 5. You need to challenge and discard existing elements
- 6. You need to be prepared to start over again
- 7. You need to use concepts
- 8. You may need to break things down into smaller units
- You need to be prepared to trade off other values for simplicity
 You need to know for whose sake the simplicity is being designed

From 'Simplicity' by Edward de Bono

21st Century Tanker Operations

moams Operators need Resilience



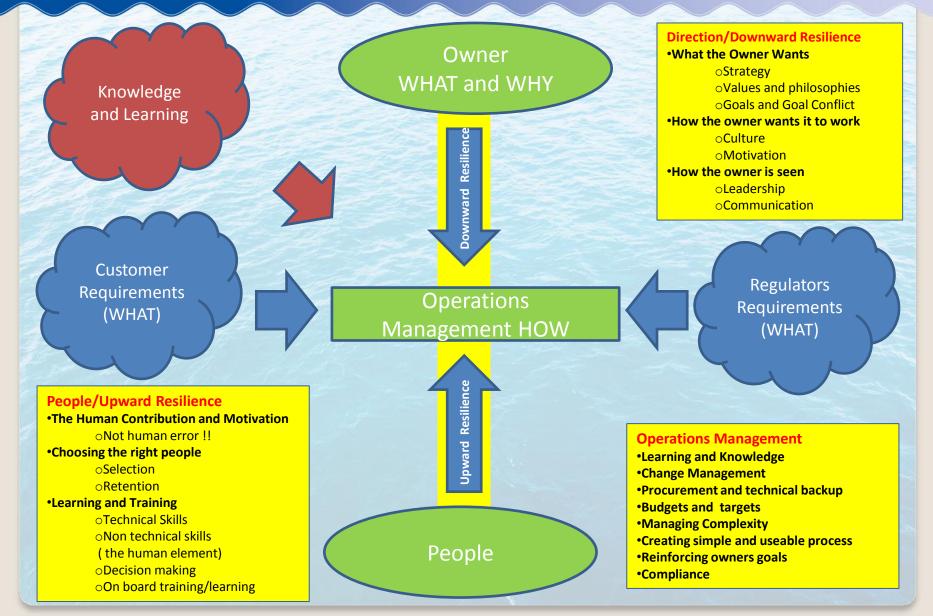
Normal Abnormal Emergency

Resilient organisation will adapt from normal operation to abnormal operation and recover. In emergency will be able to adapt further to avoid catastrophe Normal Abnormal Emergency

Brittle

Brittle organisation will need all its resources to maintain normal operation leaving limited capacity to deal with the abnormal. Rule based mentality will be unable to cope with novel emergencies and will fail.

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moams The front line-the last defence

Train them •Professional •Human Element •Management

Motivate them •Communicate direction/ •Involve them/listen •Sensible reward •Just culture Retain them •Long term contracts •Fair pay •Living conditions •Respect

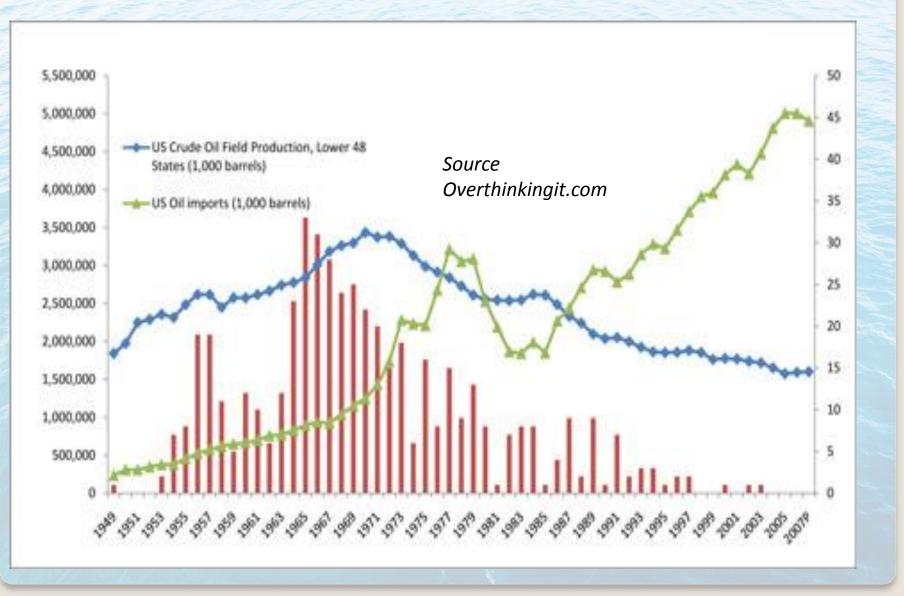
Believe in them •Trust •Delegation •Decisions

Conclusions

- The industry environment is becoming more complex
- Companies are becoming more complex
- Making the right choices reduces complexity
- You can make your company simpler
- You need to be honest with yourself that what you created has to change
- The 21st Century Tanker Operator needs to be agile and resilient
- Direction needs to be clear and people need to be skilled, trained and valued
- Operations job is to make things as simple as possible as possible for the front line
- The front line is the last line of defence

Questions Please ?

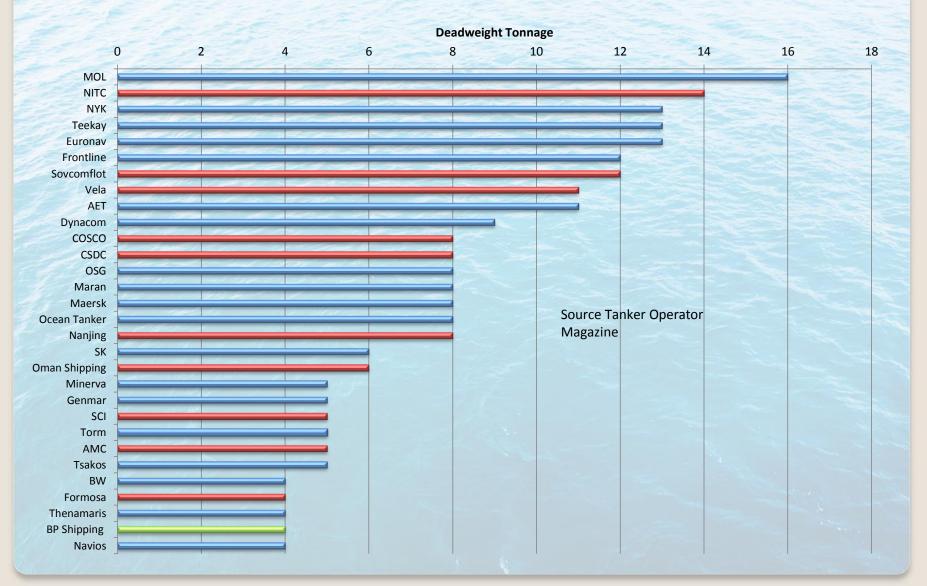
moamsUS oil production-the answer



moams Complex & changing market



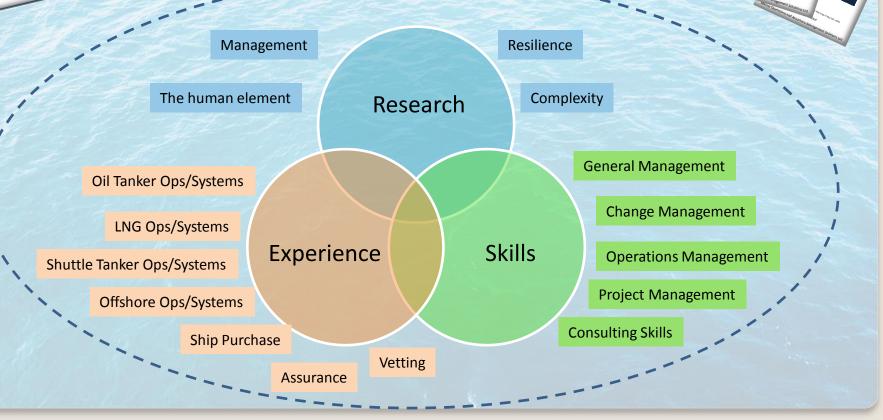
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