



**IBM SOFTWARE UNIVERSE '09**  
YOUR SMART MOVE

## IBM and Aban Offshore a powerful combination

Making India's largest offshore drilling contractor in the private sector with Global Operations.

**K Rajamany**  
ABAN Offshore

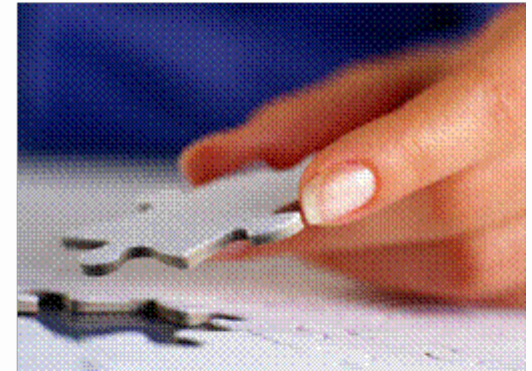


**aban**



## Agenda

- Introduction to Aban Offshore
  - Overview of operation
- **Regulatory Challenges** faced by Aban Offshore
- Reasons for selecting IBM Maximo solutions
- IBM Maximo: Meeting Aban's
  - **Compliance** requirements
  - **Reliability** requirements
  - **Inventory Management** requirements
- **Key Success factors** for implementing an effective asset management solution





## Introduction to ABAN Offshore

- Promoted by Mr M A Abraham in 1986 as the first generation entrepreneur.
- Offers world-class drilling and oil field services for offshore exploration and production of hydrocarbons to the oil/gas industry in India and abroad.
- Among the 10 largest offshore drilling Companies.
- Our innovative and cost effective solutions make us one of the most efficient international drilling contractors backed by highly qualified professional team with expertise.
- Aban owns and operates a young fleet with 9 new rigs built in 2006, 15 Offshore Jack-up Rigs, a Floating Production, Storage and Offload unit , 3 Drill-ships and 1 Floating Production Unit
- Aban Rigs are operating from Mexico to Malaysia.

## Challenges faced by Aban Offshore

- Compliance with multiple regulations
  - MODU codes
  - ISM / ISPS / SOLAS
  - Vessel Registrations / Certifications
  - Government / Regulatory / Statutory
  - ISO Certification
- Adherence to timely completion of audits, inspection-schedules and strict Project Management guidelines
- Maintaining stringent calibration schedules, readings and related technical specification of various instruments with traceability for all Rigs
- Detailed planning of activities, accurate booking of resources- manpower, material and tools.
- Ensuring data flow and accuracy of information



## Reasons for selecting IBM Maximo

- Worldwide references
- Simple and easy to use user interface
- Web based solution with no client on user machine
- Out of box functionality available in the solution
- Easy integration with other systems

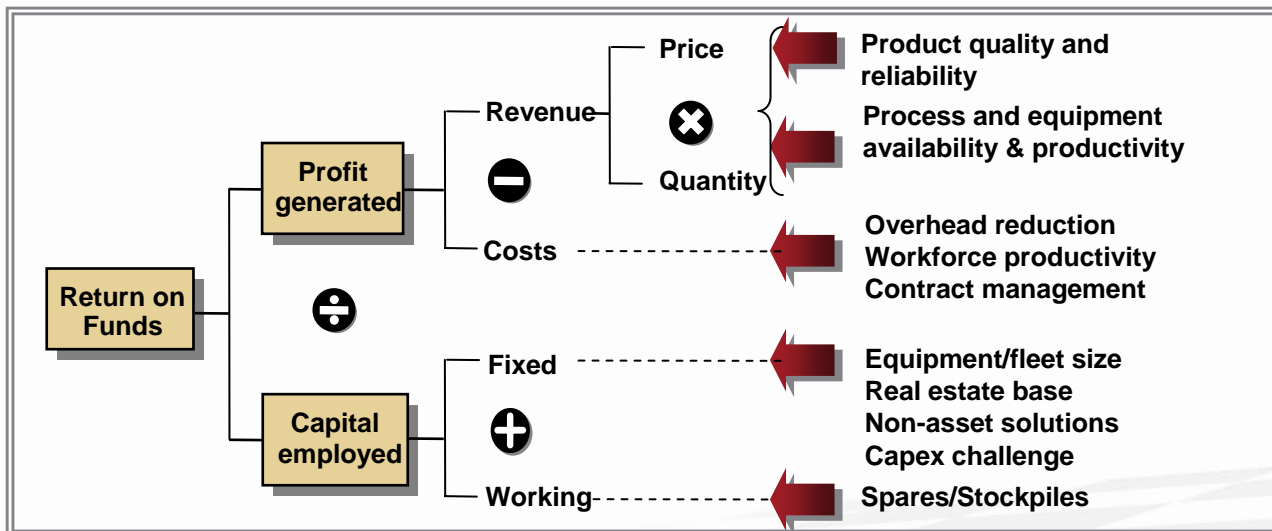
## Summary of IBM Solution

- Maximo Enterprise Asset Management solution with calibration module and integration to MS- Project



## Maximo provided the differentiating value proposition to our asset intensive set-up

- Physical assets **dominate balance sheet** of our asset intensive infrastructure and are a **major corporate cost**
- Maximo ensured physical assets are pro-actively managed, to:
  - support the core oil-drilling business
  - optimise business performance
  - manage risk
  - deliver business flexibility





## Maximo meets compliance requirement at ABAN:

- In Maximo, an ISM / ISPS customized module was developed, which takes care of all QHSE related aspects and Rigs certifications.
- Maximo calibration module incorporated maintains the calibration schedules, readings and related technical specification of various instruments with traceability for all Rigs.
- The Preventive Maintenance programme meets the timely completion of audits, Inspections and PM works as per schedules.
- Renewal/validation of all certifications are being planned through Maximo to meet Regulatory / Statutory and ISO Certifications.

Real Estate and Facilities

Plant and Production

Mobile Assets

Infrastructure

Information Technology

IBM Asset Management Solutions

## Maximo meets Reliability requirement at ABAN:

- Maximo Work order system enabled us to carryout PM and corrective maintenance to increase reliability of critical equipment by reducing MTTB.
  - Improved availability by 23-30 % in various rigs
- Maximo accommodates detailed planning of activities, accurate booking of resources- manpower, material, tools.
- Facilitates inventory reservations and direct ordering for specific maintenance.
  - Unused materials can be returned to stock, ensuring the materials are not lost or dumped else where.
- The failure reporting with Problem, Cause and Remedy codes helps to analyze the failures in no time.
- Detailed history information and findings on audits, surveys and inspection are visible to aid us to make quicker decision on maintenance or replacement policies.
- User-friendly MS Project interface facilitates project planning, scheduling and monitoring.
  - Information on works carried out, materials cost, cost allotted for each equipment or sub project or the entire project is visible to have better control and monitoring of progress.
- Preparation of punch list on completion of project is easier.





## Maximo supports Inventory Management in ABAN:

- All surplus items for disposal sorted and stored in Maximo separately.
- Stock issues set at weighted average cost, which depends upon time of item receipt and invoice approval to reflect corrections on exchange value
- Developed custom built application of materials inventory detailing the consignment for shipping purposes to the Rig
- Automatic reordering of inventory items based on minimum , maximum usage and ROP, ROQ etc set with lead time analysis done in an oil production unit.
- Data comparison of alternate vendors using application built on Maximo helped us to make **cost effective purchases**.



## A good implementation of EAM requires

- Selection of the appropriate EAM, which best meets the requirement
- Clear mapping of business process and proposed changes to be discussed beforehand
- Good data collection methodology involving key internal stakeholders
- A clear and realistic project plan to help resource planning
- Training for users and IT administrators
- Senior Management commitment to review the progress frequently



## A good implementation of EAM requires

- **Accurate Business** process flow Diagrams for each function.
- Coding and Tagging philosophies such as MESC or SFI which links equipment and spares.
- Order unit and Issue units to be clearly defined since most EAMs work with Average Inventory cost.
- Specific post implementation training for each Functional area.
- **To be system** friendly for the system to become User friendly.





**Thank You**

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