



Oil & Gas Communications: South East Asia

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IDL for the Upstream Team: Delivering Corporate Training to Increase Productivity in Oil & Gas Sector

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2009



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Challenges: Facing the industry

- ❖ Volatile markets
- ❖ Cost cutting vs. Investments
 - Lower impact of cost cutting on maintenance, safety, technology and personnel development
 - Investments: where to pour in the money?
 - Exploration
 - Development
 - Production
 - Mergers and Acquisition
 - Technology upgrade
 - Technology infusion and upgrade

Personnel Development

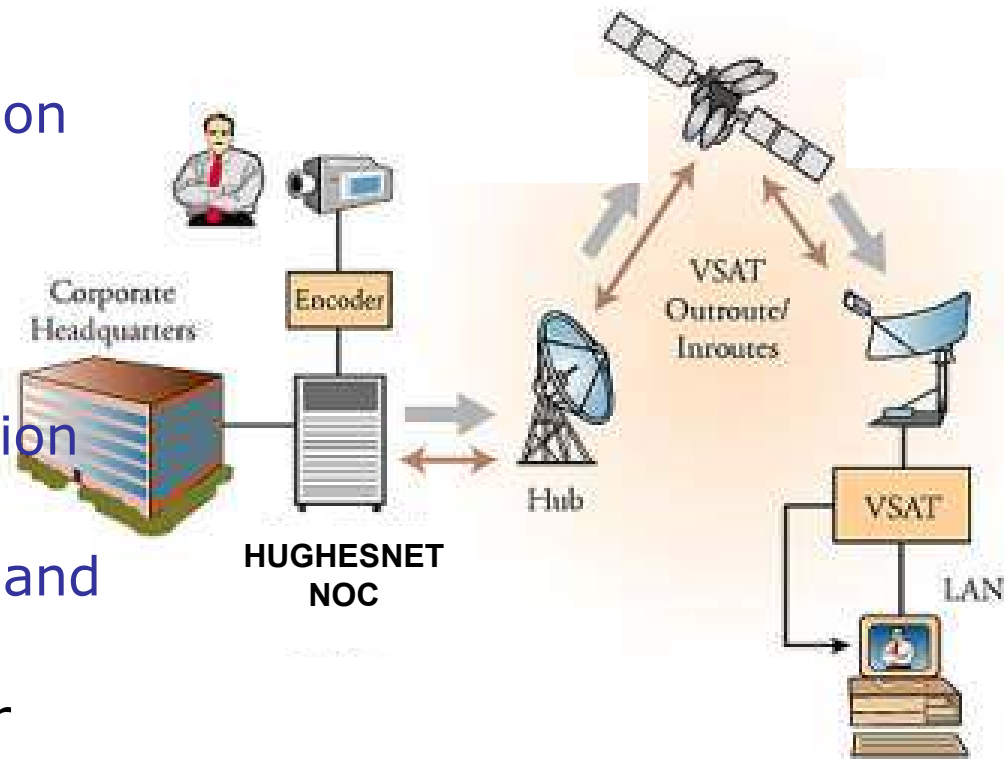
- ❖ Viewed as an area that directly impacts the business
- ❖ Opportunities
 - Productivity Increase through new technology, updates, routine meetings
 - Reduction in costs e.g. Increased safety training helps improve the cost of insurance
- ❖ Can simultaneously include
 - On shore rigs & off shore rigs
 - On rolls and off-roll personnel
- ❖ Expensive to organise regular sessions
 - Cost of trainers, participant productivity
 - Travel costs, etc

Cost Reduction: Interactive Onsite Learning

- ❖ Interactive Onsite Learning: A specialised IDL technique successfully implemented by Hughes in many geographies and offers a comprehensive solution to the needs of the Oil & Gas industry
- ❖ Uses a mix of technologies that leverage the power of the satellite platform
- ❖ Allows powerful yet simple environment for trainers and participants to collaborate effectively across widely dispersed geographies

IOL Infrastructure for Training

- ❖ Technology related Infrastructure
 - Studio, trainer location
 - IOL Classroom
 - Satellite Bandwidth
- ❖ Content Related
 - Training Administration Systems: LMS
 - Trainers for content and course creation
- ❖ 512 Kbps to 2 Mbps per Channel – Forward
- ❖ 128 Kbps to 384 Kbps per return channel



IOL Infrastructure for Training

- ❖ Studio has two areas
 1. Trainer section
 - houses the cameras,
 - the training software interface for the trainer and other tools such as white boards etc.
 - The space is designed such that a lecture can have more than one trainer teaching at a time.
 - A single IOL studio is needed for each class being conducted at the time.
 - Control Room
 - Houses all the equipment and a studio assistant



Video Style: Best Fit Show Names



Users

Participants - 1

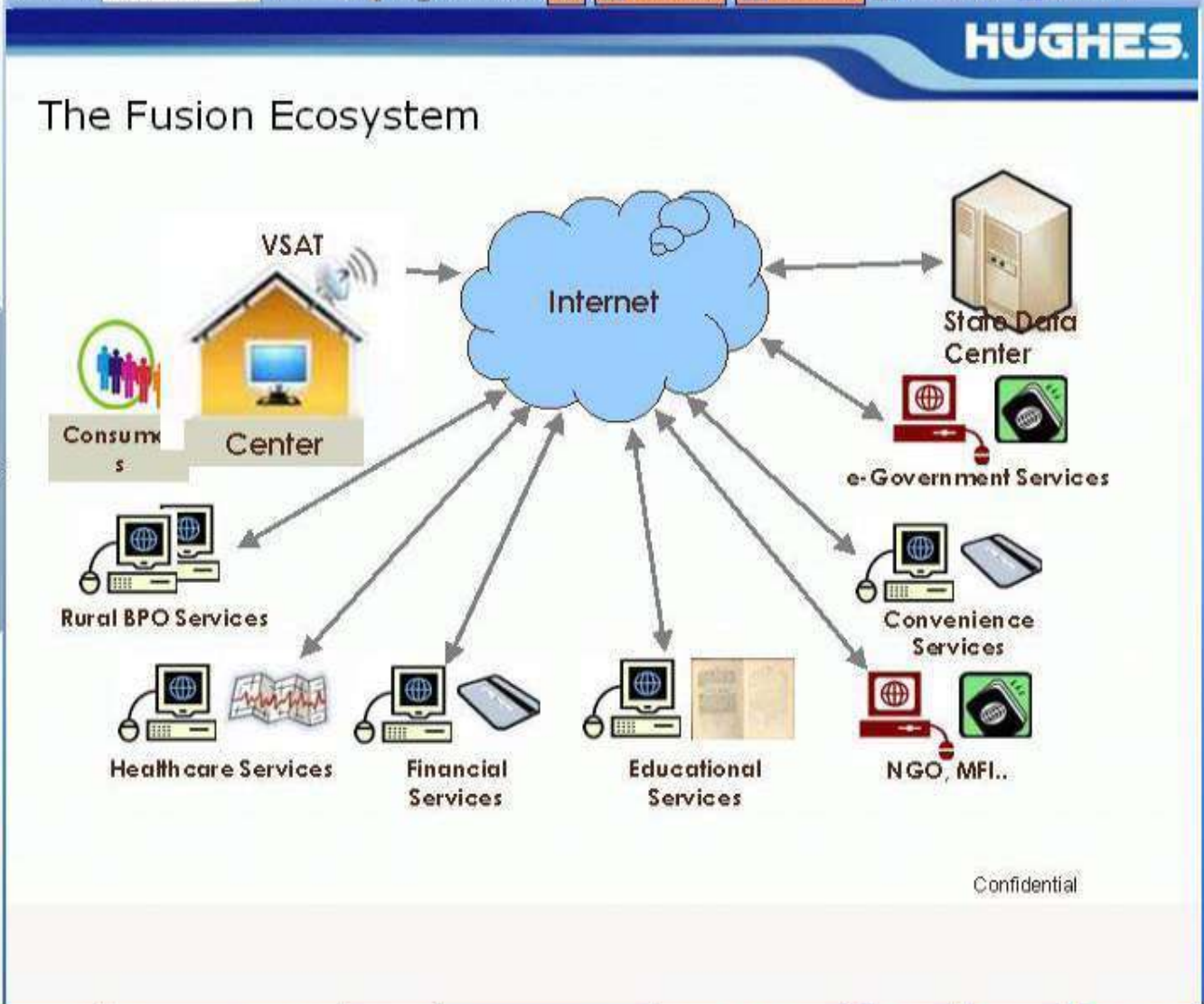
- DHARMENDRA SINGH

Hosts

- Ashu Taneja

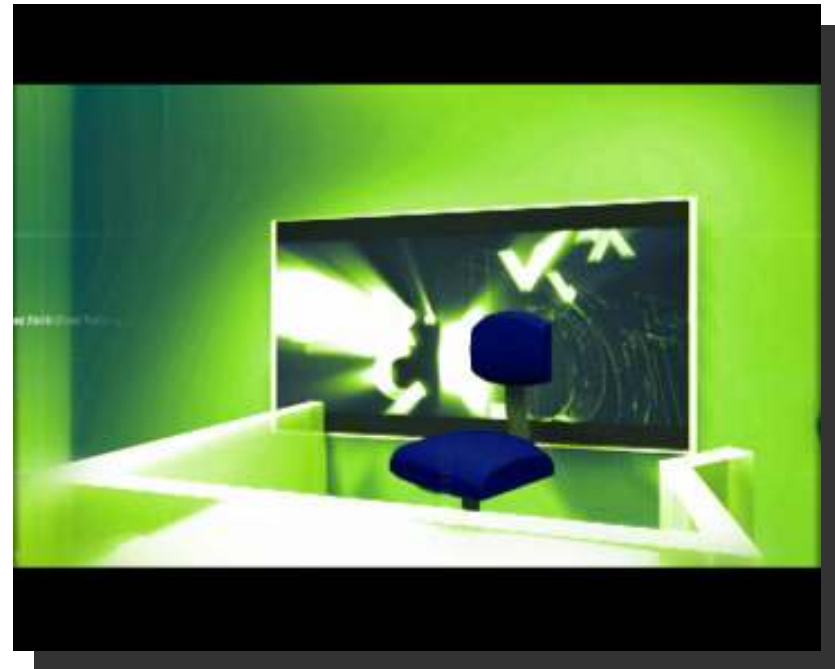
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IOL Infrastructure for Training at Classrooms

- ❖ Classroom
 - connected to the Studio over Satellite
 - The classroom can be 100 sq.ft to 400 sq.ft in size
 - The infrastructure can be
 - PC based Clients
 - Key Pad interfaces



IOL vs. Web collaborations

- ❖ IOL has been tailored to suit the Satellite infrastructure making it more efficient in utilisation of its resources and offers better quality and experience to the participants
 - Multicast Video Channel
 - Multicast Presentation Space
 - 2 Way video interaction
 - Trainer Tools and supports integration with popular LMS standards

SCPC vs. TDMA Implementations

- ❖ TDMA satellite systems better suited for implementation of IOL networks
- ❖ Benefits include
 - Broadcast Channel covering larger number of Customer Installations
 - Better Quality of interaction offered to participants
 - Simultaneously include large number of participants
- ❖ TDMA implementations
 - Can offer large return pipes of upto 6 Msps
 - Single Hop Mesh connections

Hughes: Bridging the Gap with IOL

- ❖ Large implementations in
 - India, Brazil and United States
 - Used by Governments and Private Sector
 - Dedicated and Service Provider environments
- ❖ Complete training eco-systems
 - LMS support
 - Participant Attendance systems
 - Online test engines and platforms
 - Archival Systems



IIMC Question Small Video.exe

Interactive Onsite Learning for Oil & Gas

- ❖ TDMA systems – evolved to meet requirements for the industry
- ❖ Efficient resource utilization
- ❖ IOL has a definite ROI when it comes to development of Human capital
- ❖ Service Providers can enhance their portfolio of services to the industry by creating Training Service Platforms that can service the Oil & Gas along with other segments

Thank You