

Three circular icons in a light blue color are arranged vertically on the left side of the slide. The top icon shows a lightbulb, the middle one shows a ship, and the bottom one shows an airplane.

# **FleetBroadband Overview & Real-Time Solutions**

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**Solutions Manager**

# One terminal, three routes

Laptop  
or PC



Voice &  
ISDN

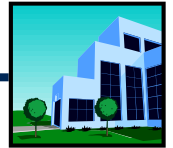


Streaming IP Network



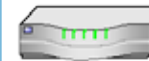
IP Router

Guaranteed QoS



HQ

Standard IP Network



IP Router



Internet



LAN

Circuit Switched Network



Switch



Voice

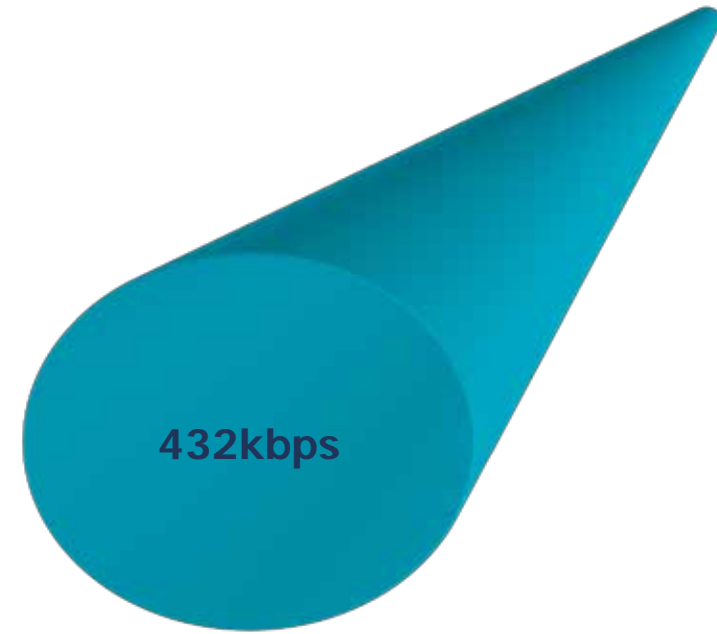


ISDN

inmarsat

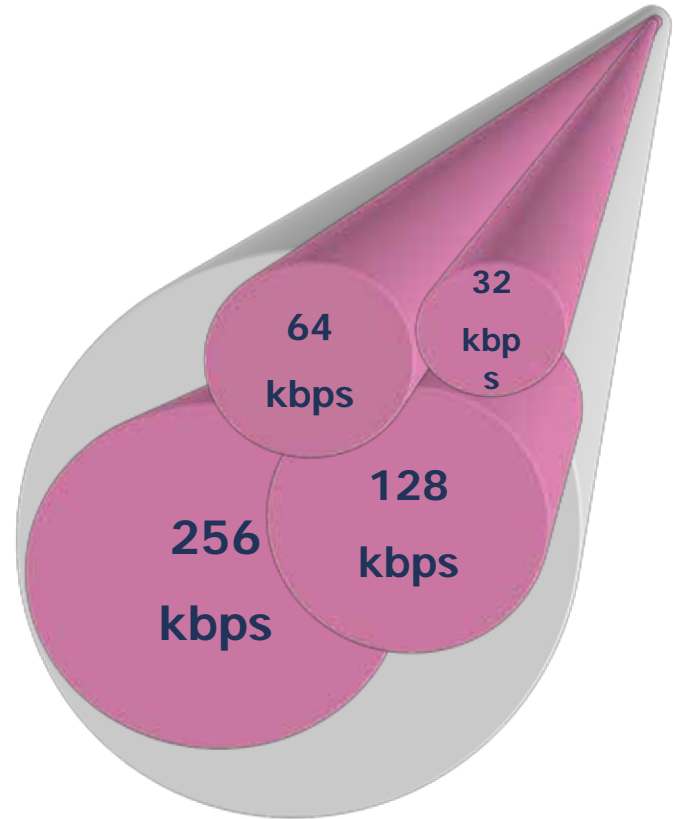
# Standard IP

- Basic broadband data service **charged for data sent and received**
- Connections through to Internet or DP PoP and onwards
- No cap on data sent/received
- Designed for TCP applications - typical office applications like email, web browsing, FTP, VPN
- Shared connection 'pipe'; less traffic = higher throughput, more traffic = lower throughput; Contention.
- High demand triggers extra capacity allocation; dynamically assigned, real time



# Streaming IP

- Dedicated service **charged by Time**
- Fixed rates - 32, 64, 128, 256 Kbps
- Your own 'pipe'; not shared; no contention
- Aimed at Live Audio/Video applications
- Robustly tested – Media & Government



# Unique Capability: Separating Simultaneous data “streams for Each Application” Per Terminal

(5) Meanwhile, your Crew sets up another simultaneous Std IP connection for web browsing

(4) You are then requested by **Engine Room**, to have the expert on shore check to check the damage so you **start a simultaneous streaming channel** dedicated for the camera

(3) Captain can make/receive a phone call  
While connected to Standard IP



2<sup>nd</sup> Std IP  
Crew

128 kbps  
Video

Voice

Procurement



Email

SMS

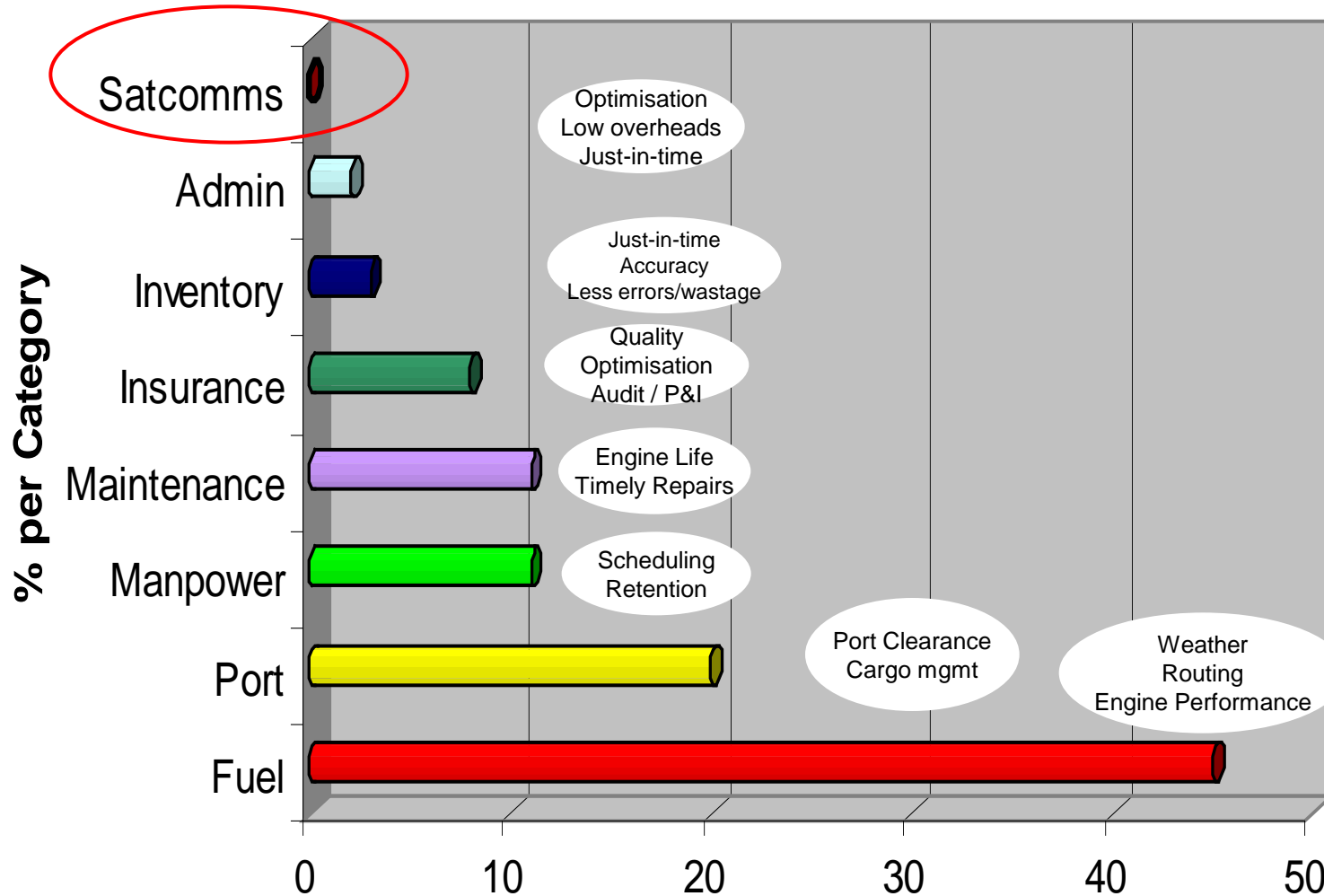
(6) Crew are also sending/Receiving SMS

(1) When FB registers on Network, by default it opens a Standard IP connection.

This can be disabled to manual connection

(2) You can do operational data transfers

# Helping Customer to "CUT" Typical Ship Operation Costs

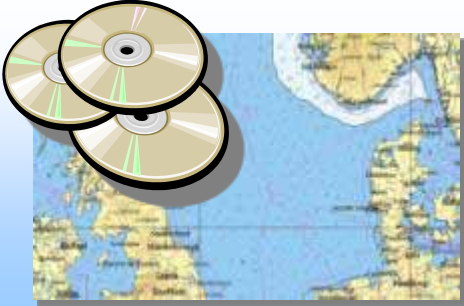


- Satcomms cost is already less than 1%
- Greater % benefits are possible through optimising these other areas.

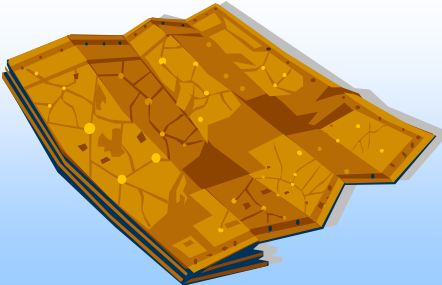
# Enabling New Maritime Applications

# Nautical Information Service

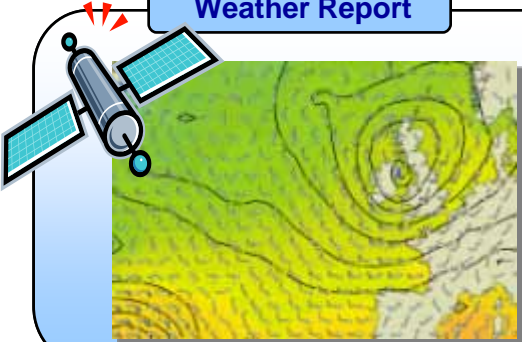
Electronic Charts



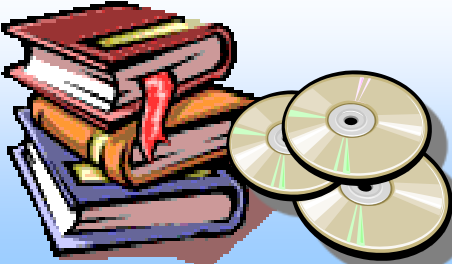
Paper Charts



Weather Report



Books & Publications



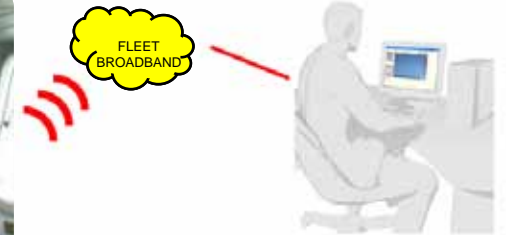
Shipping Industry

Virtual Reality



# Remote Tele-mechanical engineering

- ➔ Engine Monitoring:
  - Preventive measures
- ➔ Real-time Telemetry
  - Condition based monitoring / alarm
  - Real-time Telemetry
- ➔ Video/Audio tele-mechanical engineering

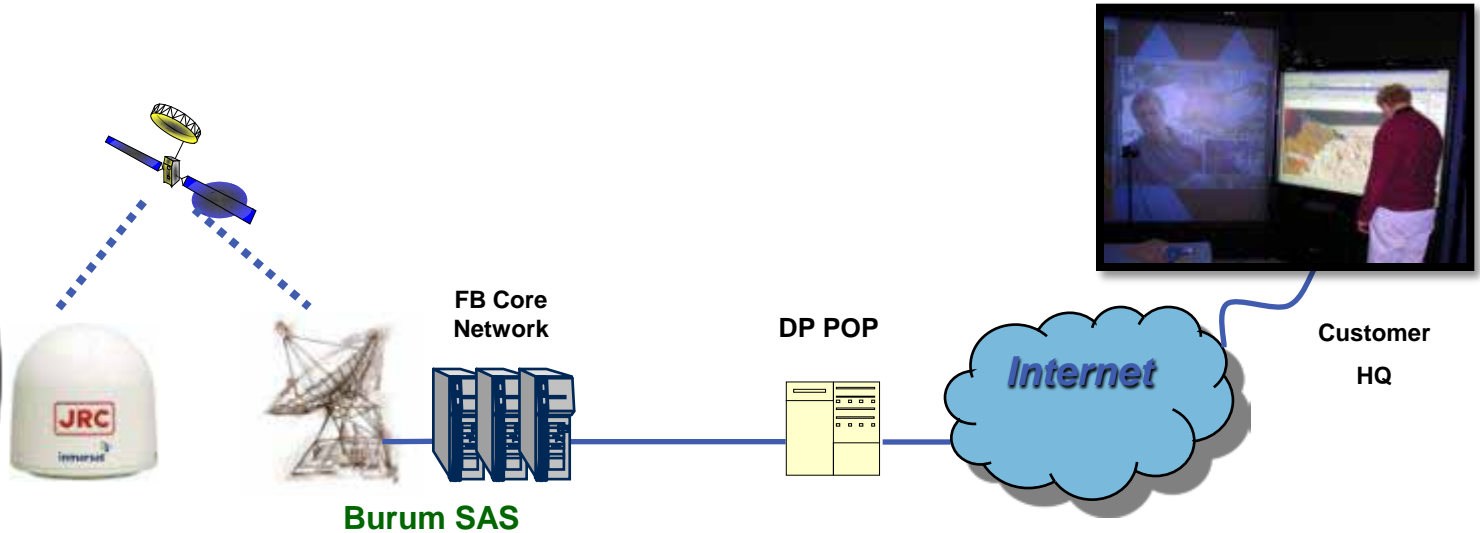


**AUDISOFT**

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# Remote Tele-mechanical solution

Standard IP or Streaming IP Connection



# Security – Remote Video Surveillance

