

# THE STATE OF PLAY AND PROSPECTS FOR THE MARITIME SATCOM MARKET

DIGITAL SHIP
THE MARITIME CIO FORUM MED

MARSEILLE 4 APRIL 2017

> Presented by: Geoffroy Stern



## **EUROCONSULT 30+ YEARS OF EXPERTISE**

- Leading global consulting firm specialized in satellite communications
- Privately-owned, fully independent firm
- Close to 600 customers in over 50 countries
- Missions conducted in all world regions on a yearly basis



### **CONSULTING**

Business strategy support Commercial due diligence

Executive Training

Operations manageme nt services



## **RESEARCH**

Strategic reports

10-year market forecasts

Proprietary databases

Profiles of leading organization



#### **SUMMITS**

High-level programs

Executivelevel networking

Business deals

Market insights



## **OVERVIEW OF THE MARITIME MARKET**

123,000

Addressable vessels >24 meters

**72,300** Merchant

**6,800**Passenger ships

13,300

Offshore rigs and support vessels

322,000

MSS terminals

16,050

VSAT terminals

8.4

Gbps

Total maritime VSAT demand

70+

VSAT service providers

\$953 million

Revenue for MSS and FSS satellite operators

\$1,700 million

Revenue for maritime satcom service providers



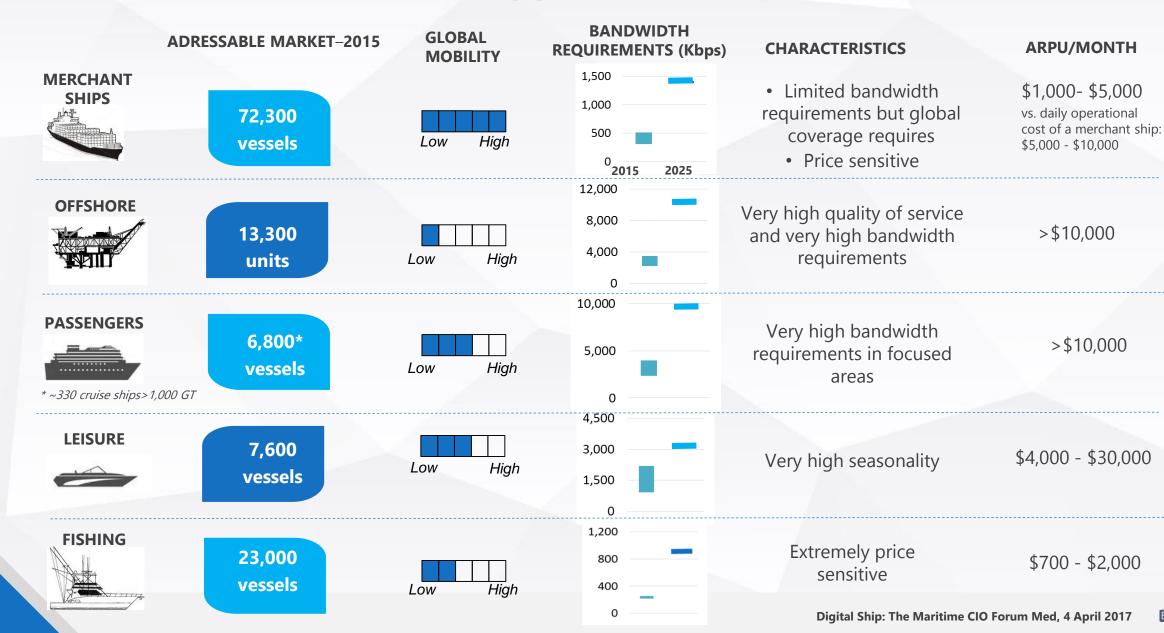








## THE MARITIME ADRESSABLE MARKET





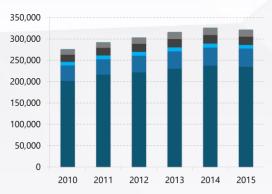
>\$10,000

>\$10,000

## THE MSS AND VSAT COMPETITION

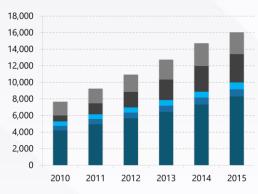
#### MSS TERMINAL GROWTH 2010 - 2015

#### No. of terminals



#### **VSAT TERMINAL GROWTH 2010 - 2015**

No. of terminals



■ Merchant shipping
■ Fishing
■ Passenger ship
■ Leisure vessel
■ Offshore





- Ubiquitous
- 100% Availability
- Light equipment



- Few kbps-500kbps
- Cost Effective only for low data users



- Few kbps to 10+ Mbps
- Variety of enabled Applications



- Availability
- Limited by frequency band
- Heavy equipment



MSS operators still control over 95% of the maritime satellite installation base



VSAT competition has significantly slowed down the MSS business



First maritime VSAT terminals in C-band due to larger coverage and higher resilience



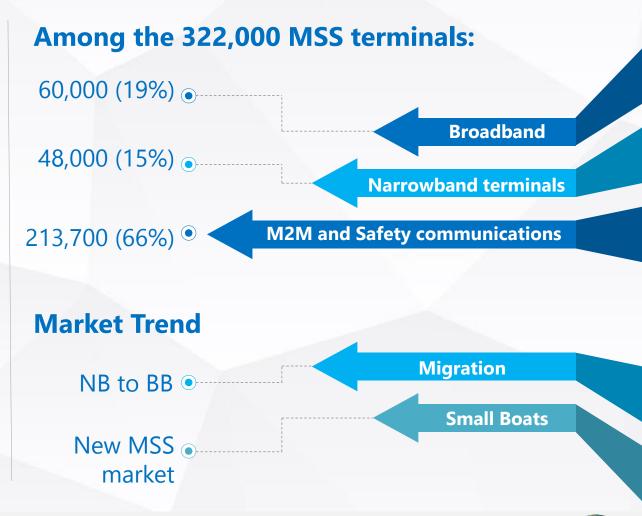
Users are now rapidly shifting toward Ku- and Ka-band



## MSS: THE LEGACY OF MARITIME SERVICES

#### TYPE OF MSS TERMINALS VS. VERTICAL MARKETS

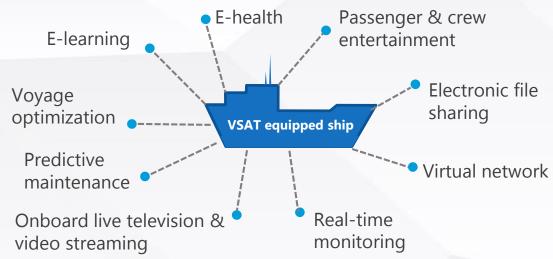




Euroconsult EC

## **VSAT: A MAJOR GROWTH DRIVER**

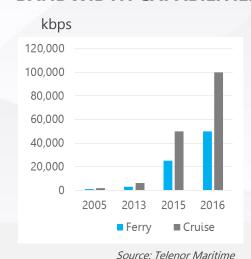
#### **VSAT ENABLED APPLICATIONS**



#### **FUTURE VSAT GROWTH DRIVERS**

DRIVERS	LEVEL OF IMPORTANCE
Increasing volume of HTS capacity at lower costs with coverage over maritime regions	Low High
Flat panel antennas	Low High
New generation of modems enabling higher speeds	Low High
Operational applications such as predictive maintenance, route planning, etc.	Low High
Video content streaming and live television	Low High

## PASSENGER SHIP VSAT BANDWIDTH CAPABILITIES



- The installation of broadband VSAT systems has become inevitable, especially for high-end vessels
- Mainly C-band and Ku-band until now
- The new-generation Ka-band systems recently entered service (O3b, GX)
- Upcoming launched of HTS satellites with capacity over oceans will drive future VSAT growth



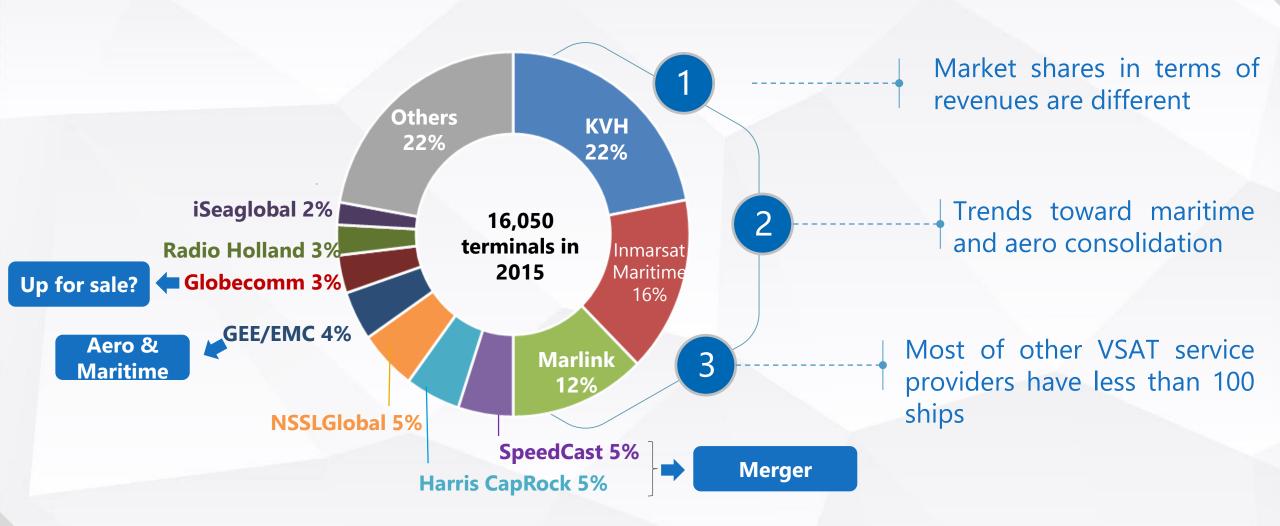
## LARGE NUMBER OF MARITIME KU- AND KA-BAND HTS CAPACITY WILL COME ONLINE



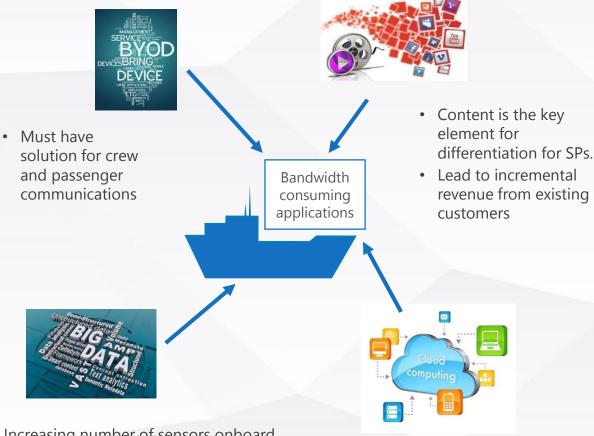
- ✓ Total available HTS satellite capacity over oceans will grow from about 52 Gbps in 2016 to 127 Gbps in 2019. By then, Ka-band systems will stand for 61% of HTS satellite capacity over oceans
- ✓ New constellations (Viasat 3, OneWeb, Leosat) after 2020 might have a strong impact on the maritime market



## MARITIME VSAT SERVICE PROVIDERS' MARKET SHARE, 2015



## 4 TYPES OF APPLICATIONS TO DRIVE SATCOM USAGE IN THE FUTURE



- Increasing number of sensors onboard vessels
- Supporting a large variety of operational applications, including maintenance, remote diagnostic, performance optimizations, etc.

- Store content on the cloud
- · Reducing IT investment
- Improving efficiency

### **Demand**



Maritime communications have changed dramatically from basic voice and low-data applications used in safety applications to fully integrated IP applications providing Internet access, audio and video streaming.

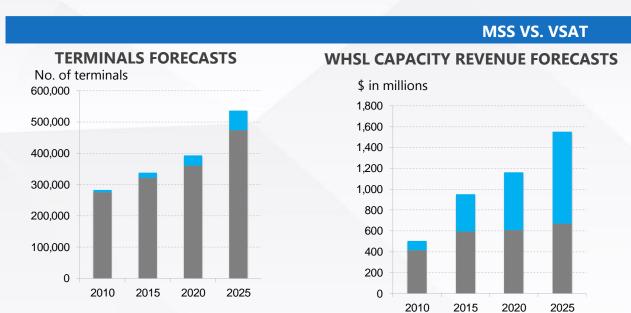
## **Supply**

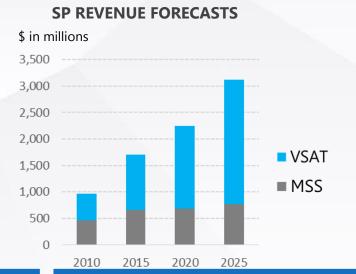


Content and applications into the service portfolio could help satellite operators and service providers make a difference in competition, generate ancillary revenues, and drive more usage of connectivity.

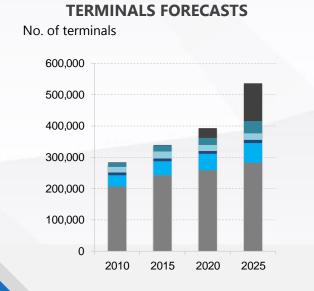


## **10-YEAR Market forecasts**

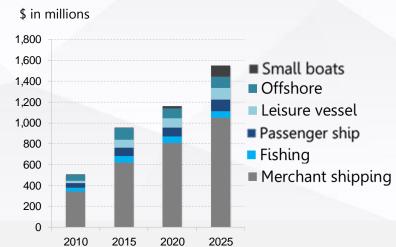




#### **FORECASTS BY VERTICAL MARKET**







#### **VSAT CAPACITY DEMAND**



Digital Ship: The Maritime CIO Forum Med, 4 April 2017



## THANK YOU



France · USA · Canada · Japan