

CommunicAsia 2015

# The potential of the Satellite Industry in Asia

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### SES Who we are: Worldwide & in Asia



# The Global Satellite Industry in transition



## What does the SATCOM Sector Look Like?





# **Satellite World in Transition**

#### **New Usages and Applications**

- Non-linear media, OTT
- Mobile data and video
- ▲ Multi-play, mobility, disaster recovery
- M2M Internet of Things
- ▲ Big data

- Next Generation Access, FTTx
- LTE, LTE-A, WiFi, TV white space, 5G
- ▲ MEO S-HTS, GEO HTS
- LEO constellations, Small-Sats
- High Altitude Platforms

#### More Delivery Technologies

#### **New Ecosystems**

- Very significant increase of complexity
- New players and segments

- ▲ Within and external to the satellite industry
- Trillion USD ICT arena
- New business models ("freemium", crosssubsidization, big data monetization)
- New "converged" regulations

#### **New Competitors**



# **Opening New Opportunities**

#### **New Usages and Applications**

- 88% of Internet traffic will be video by 2018
- \$2,200 Bn (6.3% CAGR) Global Media and Entertainment Industry by 2018
- 10,000 HD/4K satellite ch's by 2025
- ▲ 5,500 new satellite ch's by 2023
- **\$5.3 Bn** satellite backhaul by 2024
- Off-loading and backhauling, feeding towers and edges with linear video and data
- 120 Mio new DTH households by 2018
- 36% STB' revenue from satellite by 2018

#### More Delivery Technologies

#### **New Ecosystems**

- **30x** In-flight broadband traffic by 2025
- \$4 Bn incremental maritime revenues by 2023
- \$20.6 Bn OTT revenues by 2019

But serving all will require combining strengths of available technologies

- 4.2 Bn People still offline by 2018
- **50 Bn** IoT devices by 2018

#### **New Competitors**



## 2014 to 2023 perspective



Sources: Primary - Euroconsult, supplemental – NSR, Dataxis, IHS, Infonetics Research & SES Market Intelligence

# What's in for Asia?

VIENROO



# Video Linear TV perspective



# **Sizing the Asian opportunity**



DTH homes

#### Additional number of DTH households over the next 4 years [million]



# **SES**<sup>\*</sup>

# **Sizing the Asian opportunity**

Satellite TV channels

#### Additional number of satellite channels over the next 4 years



# SES<sup>\*</sup>

# The upcoming quality revolution

Ultra HD

# **Consumer demand**

2/3 of consumers want to have an UHD screen once they've seen it Every  $4^{th}$  consumer would be ready to pay more for receiving UHD



## Content

Major feature films & sports events are captured in UHD quality Close to 800 feature films & TV shows were available in UHD by 2013



# **Technology & Consumer Equipment**

<\$700 50"inch and <\$2,000 65"inch UHD TVs are now available (-40% drop in prices) HEVC codec to facilitate storage & distribution



## Forecasts

Asia will represent the largest market of UHD TV homes: 184m by 2025 Fragmentation of Asian markets will drive the # of UHD channels: 250 by 2025



# **Video** Non-linear TV perspective



# From Households to USERS!

More Screens: Device penetration





#### Technologies

Making this new video experience available to all consumers requires distribution networks capable of enabling and supporting all required video-related features



No single technology ticks all the boxes



#### Technologies

Making this new video experience available to all consumers requires distribution networks capable of enabling and supporting all required video-related features



**Combining both worlds to deliver the best video experience!** 



Technologies

Making this new video experience available to all consumers creates several challenges, the toughest being distribution, both from a cost and reach perspective



Significant upgrades would be required to go terrestrial only



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Technologies

Making this new video experience available to all consumers creates several challenges, **the toughest being distribution, both from a cost and reach perspective** 



#### not evening mentioning full OTT consumption in Ultra HD...

# A distribution solution

Terrestrial OTT SES

Hybrid satellite-terrestrial









Joining forces to deliver a sustainable state-of-the-art experience



# Data Enterprise & Mobility



# Mobile Backhaul

# Sizing the opportunity



**Cellular Networks** 

#### Mobile subs over the next 3 years

# + 300<sub>million</sub>, reaching a total of

# **b**

#### However, today's wireless broadband penetration



# **Cellular Backhaul via Satellite**





## **Drivers / Opportunities**

Increasing mobile penetration

Take-up of 3G/4G services



MNOs deploy 2G and 3G to rural areas to maximize coverage and comply with USO mandates



Regulatory opening in certain markets boosting market growth in Asia







# Mobility services on the rise

Aeronautical: "Frontier Application"



#### of those passengers turn it on during the flight

## **Drivers / Opportunities**

- Massive increase in smartphones & tablets
- Inc
  - Increased air-passenger travel
  - Mobile apps & online video
  - Advanced Antenna technology
- 0
  - Optimized satellite design



# **Gogo WiFi's maiden flight** 2009







# Gogo's WiFi service

2009 vs 2015



# **SES**<sup>\*</sup>

# Mobility services on the rise

Maritime



# Mobility services on the rise



Maritime: Cruise ships



# What enables growth?





## **Drivers & Enablers**





## The Critical Role of HTS as an Enabler





## But most importantly....





# Thank you