

#### Satellite goes Triple Play

Catherine Fox, Senior Vice President and General Counsel GLOBAL FORUM- Digital Convergence- 9-10 Novembre 2007



Your Satellite Connection to the World

## **SES GLOBAL** – an introduction

- ▲ With 44 satellites, premier provider of world-spanning satellite distribution capacity:
  - > We operate through wholly-owned companies
    - SES ASTRA: No.1 DTH broadcast satellite system in Europe, with a reach of 45 million households (107 million, incl. cable)
    - SES AMERICOM: reaching every cable head-end in the USA and serving approximately 80 million cable households
    - SES NEW SKIES: offering global interconnectivity and regional distribution services in South America, Africa, the Middle East, India and Asia-Pacific, with more than 250 customers in 79 countries
  - Significant participations in other regional satellite operators: SES SIRIUS, AsiaSat, Ciel, QuetzSat, and Star One

#### SES A GLOBAL

## **SES GLOBAL** – an introduction (2)

- Premier provider of advanced satellite-centric platforms and services
  - Services activities focused on serving the needs of media, enterprise and government customers



#### Current situation in the market:

- many end-users living in rural areas in Europe cannot get broadband internet access or at unreasonable pricing
- incumbent, non-incumbent telecommunication operators and internet service providers (ISPs) need to find solutions to the above un-addressed market
- ASTRA2Connect is a fully satellite based interactive and low cost broadband internet access via ASTRA primarily designed to serve:
  - the residential market
  - small offices home offices
  - small and medium enterprises



\* Can be combined with DTH TV/HDTV reception

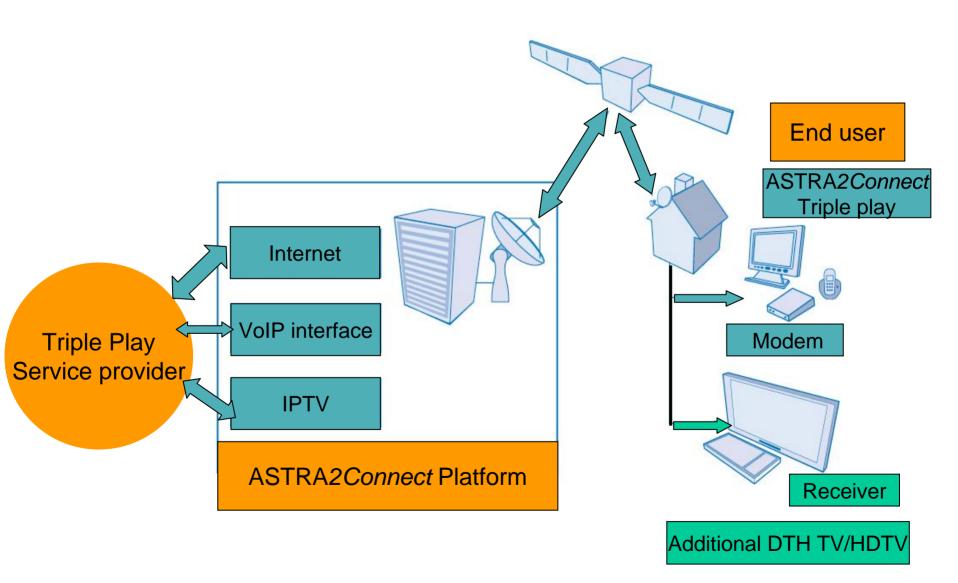
#### **Digital Convergence over satellite: ASTRA2Connect**

- ASTRA2Connect is a broadband internet access service for those homes in Europe, which cannot access terrestrial broadband internet services
- > ASTRA2Connect is able to provide full satellite-based "triple-play" services to end users with:
  - broadband internet access
  - VoIP capabilities (Voice over IP)
  - content related services (e.g. IPTV, Content-on-Demand)\*



\* Can be combined with DTH TV/HDTV reception

### ASTRA2Connect: system overview



#### **ASTRA2Connect:** equipment needed



### ASTRA2Connect: market launch first quarter 2007

- ASTRA2Connect is currently offered on a wholesale basis to large European service providers who conduct pro-active marketing and sales activities:
  - telecommunication operators
  - internet service providers
  - broadband operators
- ASTRA2Connect will be offered through 3 service packages with the following maximum data rates:
  - 256 kbit/s downstream 64 kbit/s upstream
  - 512 kbit/s downstream 96 kbit/s upstream
  - 1,024 kbit/s downstream 128 kbit/s upstream
- Further options to extend the ASTRA2Connect service into other regions of the world are currently being evaluated with other SES entities.

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### **ASTRA2Connect:** benefits for customers

- **ASTRA2Connect** is a unique opportunity for telecommunication companies and ISPs to expand the broadband market to rural areas:
  - enables consumer pricing in line with current ADSL offering
  - requires a very low investment
  - offers from day one a 100% coverage
  - fully scalable solution
  - enables triple-play service deployment



# **Digital Convergence for All**

Market Trends:

Triple play Access still a problem in rural areas: PWC study issued by the EU(2005) concludes that Satellite is a viable alternative solution to deliver broadband services and that up to 7M Europeans will be without connection to these services in the 10 years to come.

Alternative solutions to terrestrial such as Satellite and hybrid networks (Satellite + WIFI/WIMAX) manage rural areas more efficiently and effectively and make these areas more attractive to businesses and individuals alike.

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## **Digital Convergence for All (2)**

**Requested actions from Governments:** 

- EU Structural Funds can ease infrastructure deployment and reduce geographical handicaps (rural vs urban, old vs new Member-States).
- Regions with the same geographical or rural situation could aggregate demand and lower the prices
- Use should be made of existing available satellite capacity
- Efforts to harmonize licensing conditions and to obtain umbrella licensing have to be pursued



### Conclusions

- ▲ Satellite: A delivery platform of choice
- ▲ Unbeatable competitive edge for broadcast applications
- Real market opportunity for two-way low-cost broadband solutions
- Astra2Connect : ideal tool for broadband distribution in remote and rural areas in particular in the new memberstates.

