# **Optimizing Opportunities**

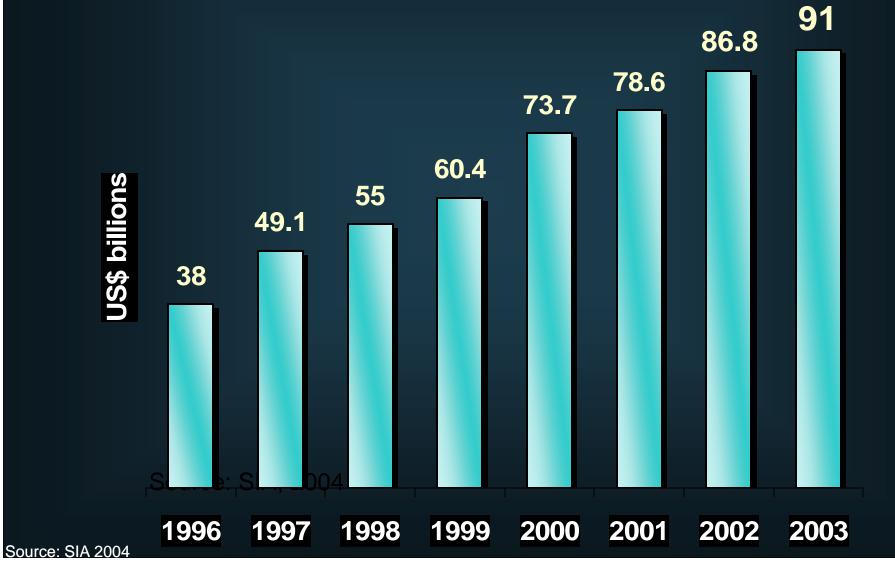
Presented by Donald Abelson, Chief, International Bureau

September 9, 2004

# Overview

- 1. Overall, the satellite industry continues to show growth and provide critical services.
- 2. The industry faces a number of challenges that vary from service to service.
- 3. The industry is analyzing the market and taking action to better serve shareholders and customers.
- 4. The FCC continues to modernize to foster future innovation.

#### Worldwide Industry Revenue 1996-2003



3

# **Covering The Globe**

#### •408 Commercial Satellites Operating Worldwide

•58% U.S.-Licensed (approx.)

•59% Serving U.S. Consumers (approx.)



#### Satellite Industry: Four Major Components

Satellite Manufacturing



Launch

Launch Services

Manufacturing

Laund

**/ehicle** 

Sat Ser

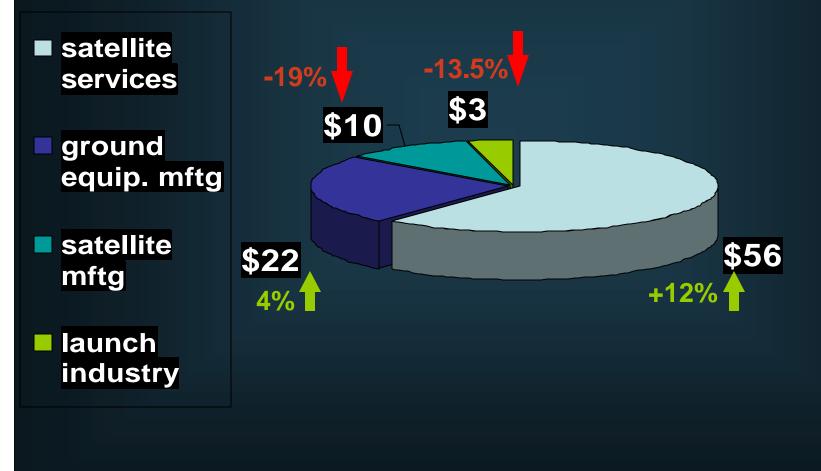
Satellite Services Ground Equipment Manufacturing



Gateways
Control Stations
Earth Terminals
VSATs
DBS Dishes
Handheld Phones

# **Global Revenue by Industry Sector**

#### 2003, US\$ billions



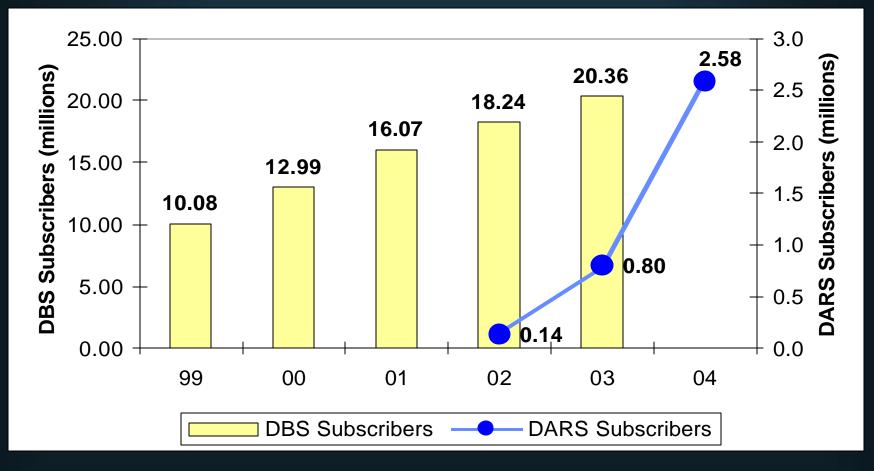
Source: SIA, 2004

# Satellite TV and Radio (BSS Direct to the American Consumer)



# **U.S. DBS and DARS Subscriber Growth**

Subscribers in millions, 1999-2004

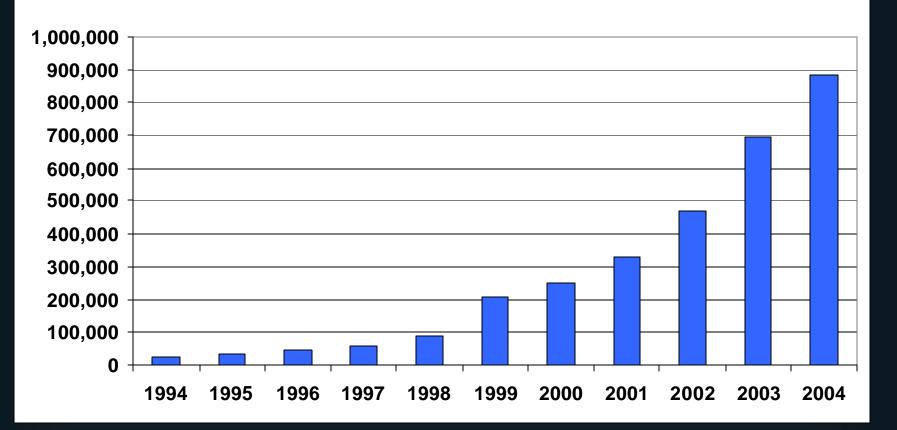




# **Mobile Satellite Services** (MSS)

### **Mobile Satellite Phone Use is Growing**

Global Mobile Satellite Service Subscribers (Voice) Source: TelAstra, 2004

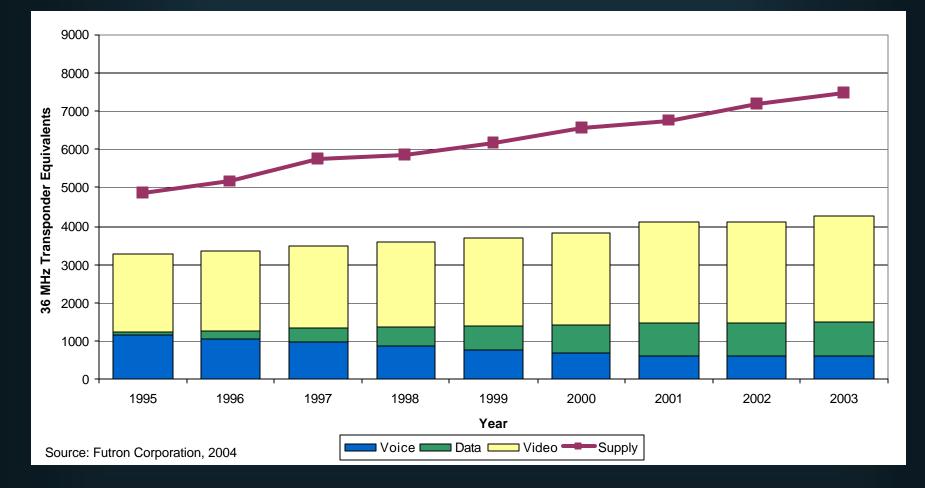




# Fixed Satellite Services (FSS) The "Silent Partner"



### Challenge to Service Providers: Global Bandwidth Supply and Demand

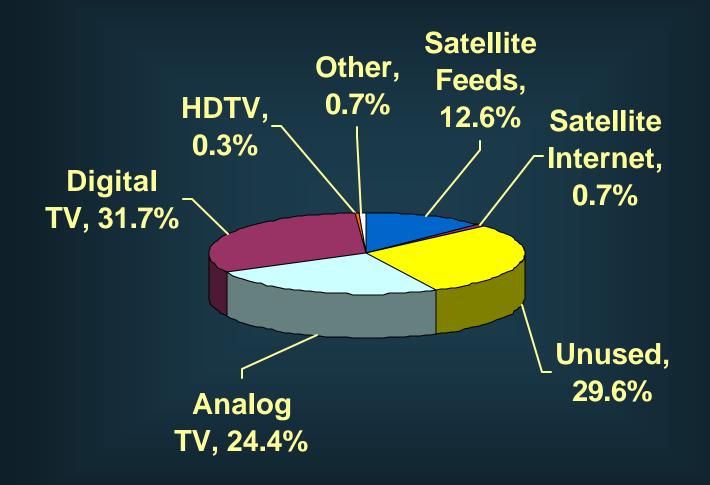


CAGR: compound annual growth rate

# **FSS: Core Customers**

# Broadcast Internet Cable

#### **<u>Relative Use of Transponder Capacity</u>** <u>**United States 2004**</u>



Source: Roger Rusch, TelAstra, 2004 – For FCC Use Only

#### **Government as a Commercial Satellite Customer**

- > Homeland Security
- > National Defense
- > Public Safety
- > Emergency Services

#### **Data Communication**

- Public safety (police dispatch)
- Communications during disasters for First Responders and Others
- Information dissemination
  - Media
  - Public

#### **Data Collection**

- Monitoring Events
  - Geological
  - Meteorological
  - Human Instigated
  - Area Restoration



# Satellites and Rural Services

# Opportunities exist for satellite companies to serve specialized needs of rural and remote communities

- Video
- Imaging

- Voice
- Data/Internet



## **Optimizing Opportunities: Industry Observations**

- Fewer But Stronger Competitors
- New Investment Paradigm
- Efficient Fleet Management
- Revised Business Plans/Approach
  - Letting customer demand and requirements drive how spectrum is used



# The Role of the FCC

- Policies that Facilitate Innovation and Agility in Satellite Operations
  - Fleet management
  - First-Come, First Served Policy
- Fast, Efficient Licensing
  Satellite Licensing Reform
- Strong Global Representation
   WRC
  - 2003; 2007
  - Regional Outreach



#### Licensing Disposal Speed in Days For All GSO-like Applications Subject to Licensing Procedures (8/03-6/04)

1311

180

Average Licensing Speed Prior to August 2003 (1990-2004) Expected Speed After August 2003 Implementation of New Licensing Procedures 92

Actual Average Licensing Speed After August 2003 19



#### **Sources for the 2004 Satellite Report**

- Futron Corporation, Bethesda, Maryland. "How Many Satellites are Enough? A Forecast of Demand for Satellites, 2004-2012." February 16, 2004.
- Federal Communications Commision. Annual Assessment of the Status of Competition in the Market for the Delivery of Video Programming. January 28, 2004.
- Roger Rusch, President, TelAstra, Palos Verdes, California. "Satellite Statistics: Is Recovery a Mirage?" Presentation at Satellite 2004, Washington, D.C., March 3, 2004.
- Edward Morgan, President, Communications Center, Clarksbury, Maryland. "Satellite Supply and Demand." Presentation at Satellite 2004, Washington, D.C. March 3, 2004.
- Satellite Industry Association. "State of the Satellite Industry Report." June 2, 2004.
- Sirius Satellite Radio. Quarterly News Releases on Financial and Operating Results. www.sirius.com
- XM Satellite Radio. News Releases on Quarterly Results. www.xmradio.com.