

# **The Public Sector, the Private Sector and Data Products in the U.S.**

**Presented by  
Prof. Joanne Irene Gabrynowicz  
to  
The National Remote Sensing Agency  
Hyderabad, India  
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**National Remote Sensing and Space Law Center  
University of Mississippi School of Law**

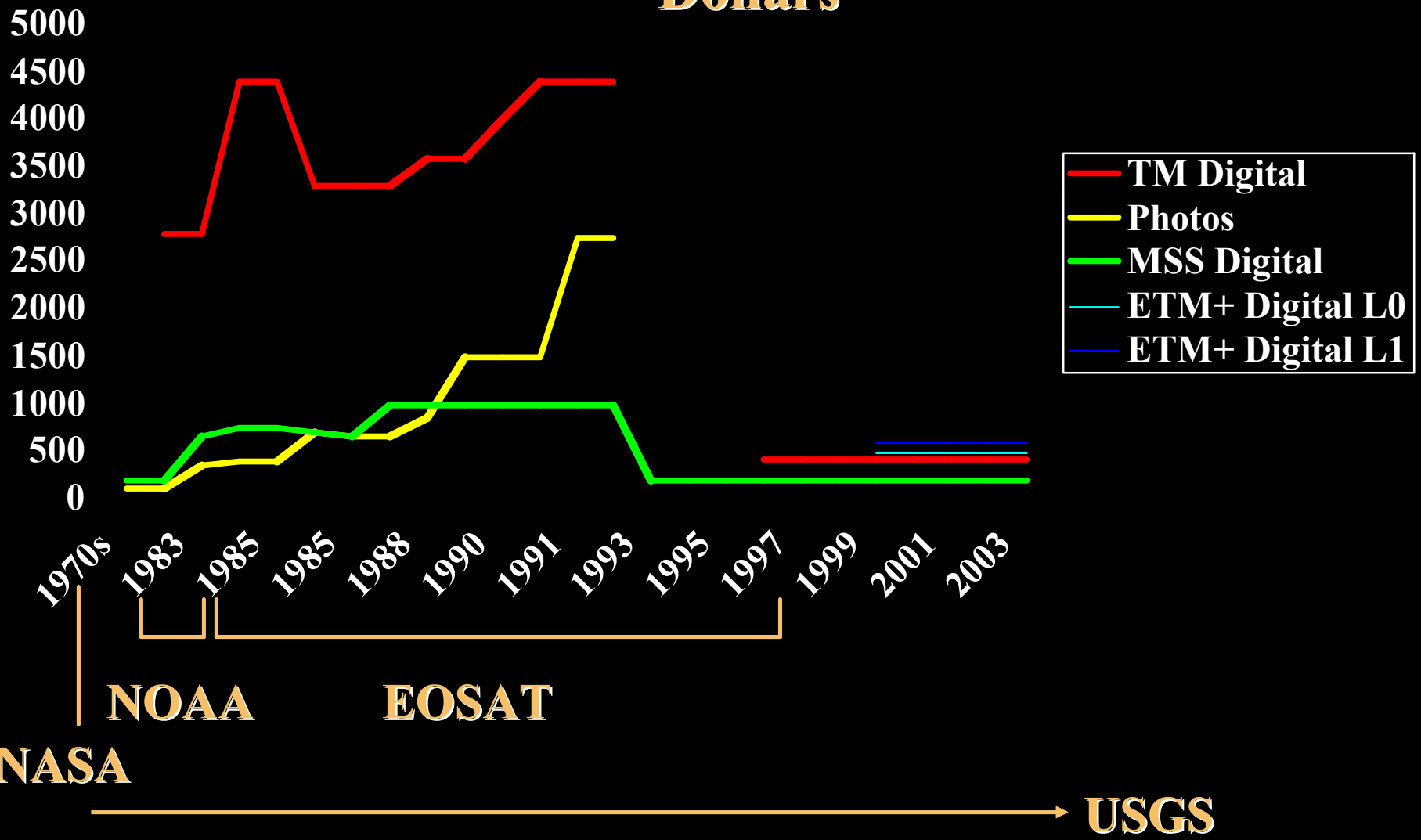
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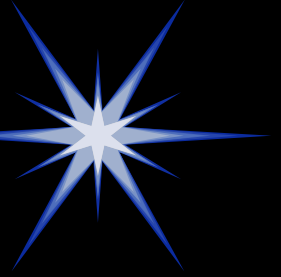


# Landsat Data Price History 1972 - 2003

Dollars



Source: USGS/EROS Data Center



# The Public Sector, the Private Sector and Data Products

- **Relationship is defined by the Land Remote Sensing Policy Act and subsequent regulations**





# **The Public Sector, the Private Sector and Data Products “Unenhanced”**

**“...land remote sensing signals or imagery  
products that are unprocessed or subject  
only to data preprocessing”**





# The Public Sector, the Private Sector and Data Products

## “Data Preprocessing May Include”

- Rectification of system and sensor distortion
  - “glitches” in satellite itself
- Registration to Earth features
  - Rivers, lakes, mountains, etc.
- Calibration of spectral response





# The Public Sector, the Private Sector and Data Products

## “Data Preprocessing Does Not Include”

- Conclusions, manipulations, or calculations derived from data
- Combination of data with other data



# The Public Sector, the Private Sector and Data Products

## Data Definition Spectrum: Applied to L7

Unenhanced

May Include

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Does Not Include

Value-added

Signals or imagery products that are unprocessed or subject only to data preprocessing

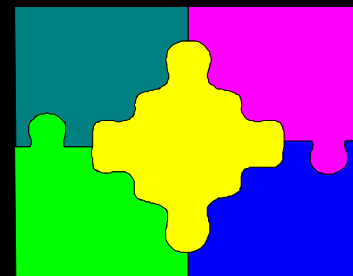
Rectification of system and sensor distortion

Registration to Earth features

Calibration of spectral response

Conclusions, manipulations, or calculations derived from data

Combination of data with other data



# The Public Sector, the Private Sector and Data Products

## Pre-1999 Data Access Spectrum

### Unenhanced

- Level 0R** Reformatted, raw data
- Level 1R** Radiometrically corrected
- Level 1G** Radiometrically and Geometrically corrected
- Level 1P** Precision corrected
- Level 1T** Terrain corrected

### Government

Available at COFUR to all

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### Value-added

Everything else

Beyond Level 1

Private Sector  
Market Prices

# The Public Sector, the Private Sector and Data Products

## 1999-2006 Data Access Spectrum: Applied to L7

### Unenhanced

- Level 0R** Reformatted, raw data
- Level 1R** Radiometrically corrected
- Level 1G** Radiometrically and Geometrically corrected

Government  
Available at COFUR to all

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### Value-added

- Precision corrected **Level 1P**
- Terrain corrected **Level 1T**
- Everything else **Beyond Level 1**

Private Sector  
Market Prices





# The Public Sector, the Private Sector and Data Products

## Data Access Spectrum

### The Point

**What is appropriate for the government to provide and what is appropriate for the private sector to provide has changed over time.**





# The Public Sector, the Private Sector and Data Products

## Data Access Spectrum: Considerations

- **Industry development**
- **Technology advances**
  - Availability in the private sector
- **Inherently governmental function**
  - Maintain core capability to archive and access



# The Public Sector, the Private Sector and Data Products

## The Public - Private Spectrum

**Public**

**All Tax**  
\$\$

**Full  
Nondiscriminatory  
Access**

**Hybrid**

**Public and Private**  
\$\$

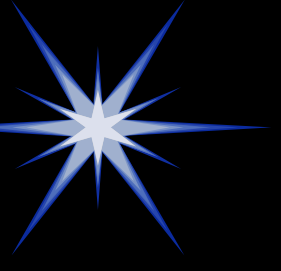
**Case-by-case  
determination**

**Private**

**All Private**  
\$\$

**Access to sensed  
states only**



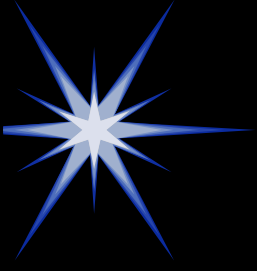


# The Public Sector, the Private Sector and Data Products in the U.S.



Questions?  
Comments?





*An Assessment Of  
International Legal Issues In  
Information Operations, May 1999*

**Questions?  
Comments?**

