

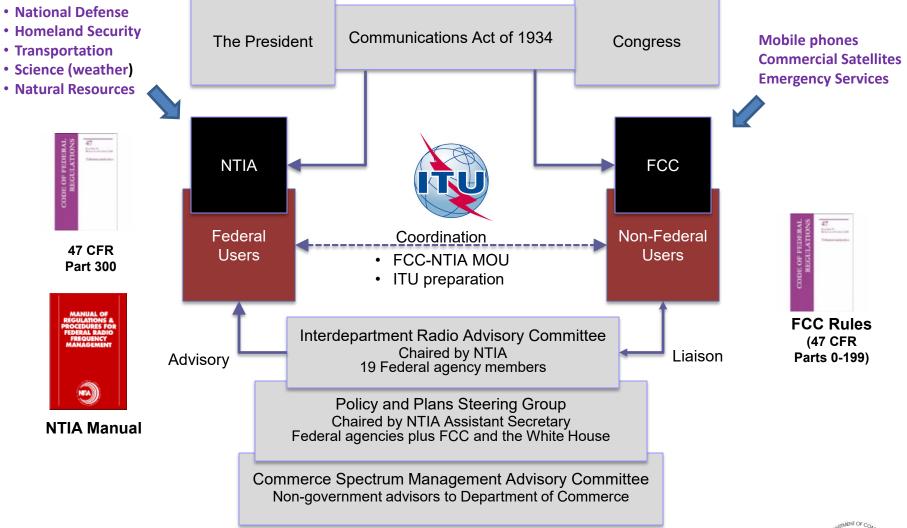
#### Office of Spectrum Management: Overview

USTTI Spectrum Management Course

September 2019

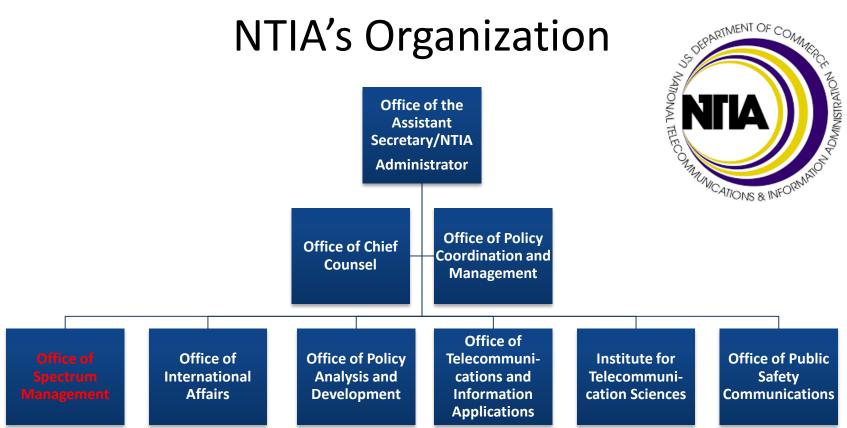
John Alden Spectrum Affairs and Information Division NTIA Office of Spectrum Management

### National Spectrum Management





### **NTIA's Organization**



OSM carries out NTIA's mission and role as the chief Executive Branch agency ٠ for federal spectrum policy and management



### Managing Federal Spectrum Use

- System certification
- Frequency assignment
- Strategic planning
- Emergency planning
- Technical standards development and implementation
- Engineering and analysis to support spectrum policy-making
- International conference preparation
- Coordination with FCC









**Operations Officer** 







U.S. Department of Commerce · National Telecommunications and Information Administration

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### OSM's Mission and Role

- Manages all federal government use of spectrum
- Develops policy and regulations governing spectrum use by federal agencies and departments
- Supports national and international spectrum management policy initiatives and programs

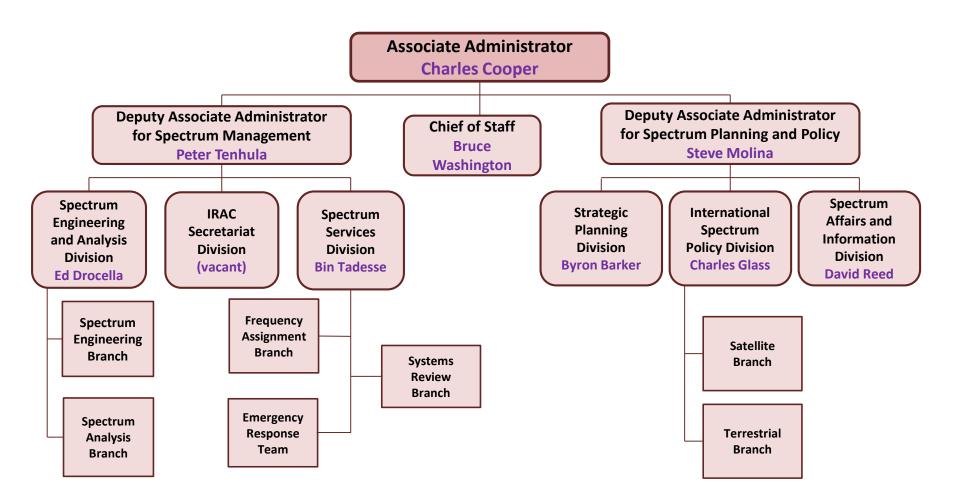








#### **OSM's Organization**





### **Spectrum Management Divisions**

#### • Spectrum Services

- Reviews & authorizes federal frequency assignments
- Maintains federal spectrum records, including the Government Master File ("GMF")
- Reviews new federal radio systems

#### Spectrum Engineering and Analysis

- Conducts in-depth spectrum use analyses
- Helps agencies resolve interference issues
- Establishes and improves federal standards to assure efficient spectrum use

#### IRAC Secretariat

 Provides management and administrative support for the Interdepartment Radio Advisory Committee (IRAC), the Executive branch advisory body for spectrum management



### **Spectrum Planning & Policy Divisions**

#### • Strategic Planning

- Develops long-range, strategic plans for federal spectrum management
- Develops architectures for spectrum management improvements
- Investigates advanced technologies/concepts for improved spectrum usage/sharing

#### Spectrum Affairs and Information

- Supports development of federal spectrum policies
- Develops outreach strategies to articulate federal spectrum goals and policies
- Seeks to ensure availability and reliability of information on federal spectrum uses

#### International Spectrum Policy

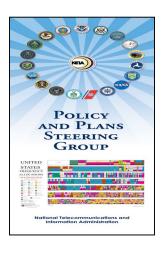
- Coordinates federal participation in international spectrum-related organizations
- Develops federal policies/positions on global spectrum allocations and satellite orbital matters



### Advice to NTIA

#### Interdepartment Radio Advisory Committee (IRAC)

- Organized in 1922, the oldest standing advisory committee
- Government only members appointed by 19 federal agencies NAS
- Six permanent subcommittees, six active ad hoc groups

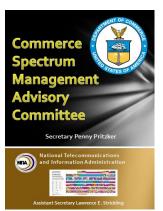


#### Policy and Plans Steering Group (PPSG)

- Government-only interagency organization comprised of senior-level officials (includes White House offices - OSTP, OMB, NEC, and NSS)
- Advises NTIA on spectrum policy matters and strategic planning

#### **Commerce Spectrum Management Advisory Committee (CSMAC)**

- Members are spectrum policy experts from outside government
- Up to thirty members, appointed for two-year terms, meetings open to public <u>http://www.ntia.doc.gov/category/csmac</u>



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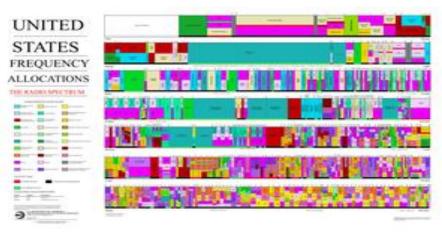
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### Federal Spectrum Policy

- OSM develops strategies, programs, and policies to expand spectrum access for all users
- OSM develops Executive Branch views and inputs on FCC spectrum-related proceedings
- OSM provides outreach to public and private-sector stakeholders

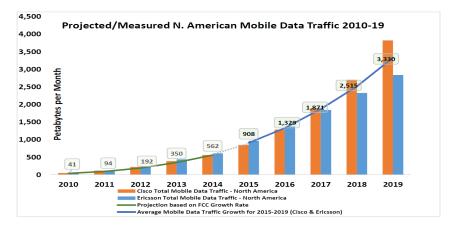


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### Balancing Commercial and Federal Spectrum Requirements

 U.S. policy priority: Supporting wireless industry spectrum needs



- As the federal spectrum regulator, NTIA must strike a balance between commercial and federal needs
- NTIA is directed by legislation and presidential directives
- NTIA is influenced by technological change



### **Current Spectrum Policy Drivers**

- Legislation: Spectrum Pipeline Act and proposed MOBILE NOW Act
- Sharing and Enforcement Techniques
- 3.5 GHz Radar and Commercial Sharing Framework
- 5G Technologies and High-Band Spectrum (spectrum above 24 GHz)
- Incentives for Efficiency and Sharing
- Data Accuracy and Transparency



### NTIA's Role in the International Process

# GOAL: International Radio Regulations support U.S. spectrum policy and enable federal uses of the spectrum

- Prepares for, participates in, and implements results of World Radiocommunication Conferences
- Represents/coordinates with the federal agencies to develop positions and proposals for Executive Branch (via the IRAC)
- Works with FCC and Department of State to ensure U.S. international spectrum needs are met
- Manages international registration of federal satellite systems (spectrum and orbits).

# Domestic policy decisions need to consider international implications (and vice versa)







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### **OSM** Initiatives

## NTIA will meet the increasing radio spectrum needs of the United States while balancing the national and economic security interests of our nation.

- 1) Create and institutionalize enduring processes for Increased Spectrum Access
- 2) Establish and implement Innovative Spectrum Sharing
- 3) Develop Spectrum Policy to facilitate greater spectrum access (public and private)
- 4) Launch Strategic Communications Outreach Effort to improve engagement and collaboration with industry and other stakeholders (federal and non-federal).
- 5) Position U.S. Interests in International Fora to enable federal operations worldwide and increase U.S. business market penetration
- 6) Innovate and Improve Spectrum Management Business Processes (authorizations, data accuracy and transparency, and automation) to enhance efficiency and effectiveness

NIA

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