



NTIA Spectrum Activities Overview

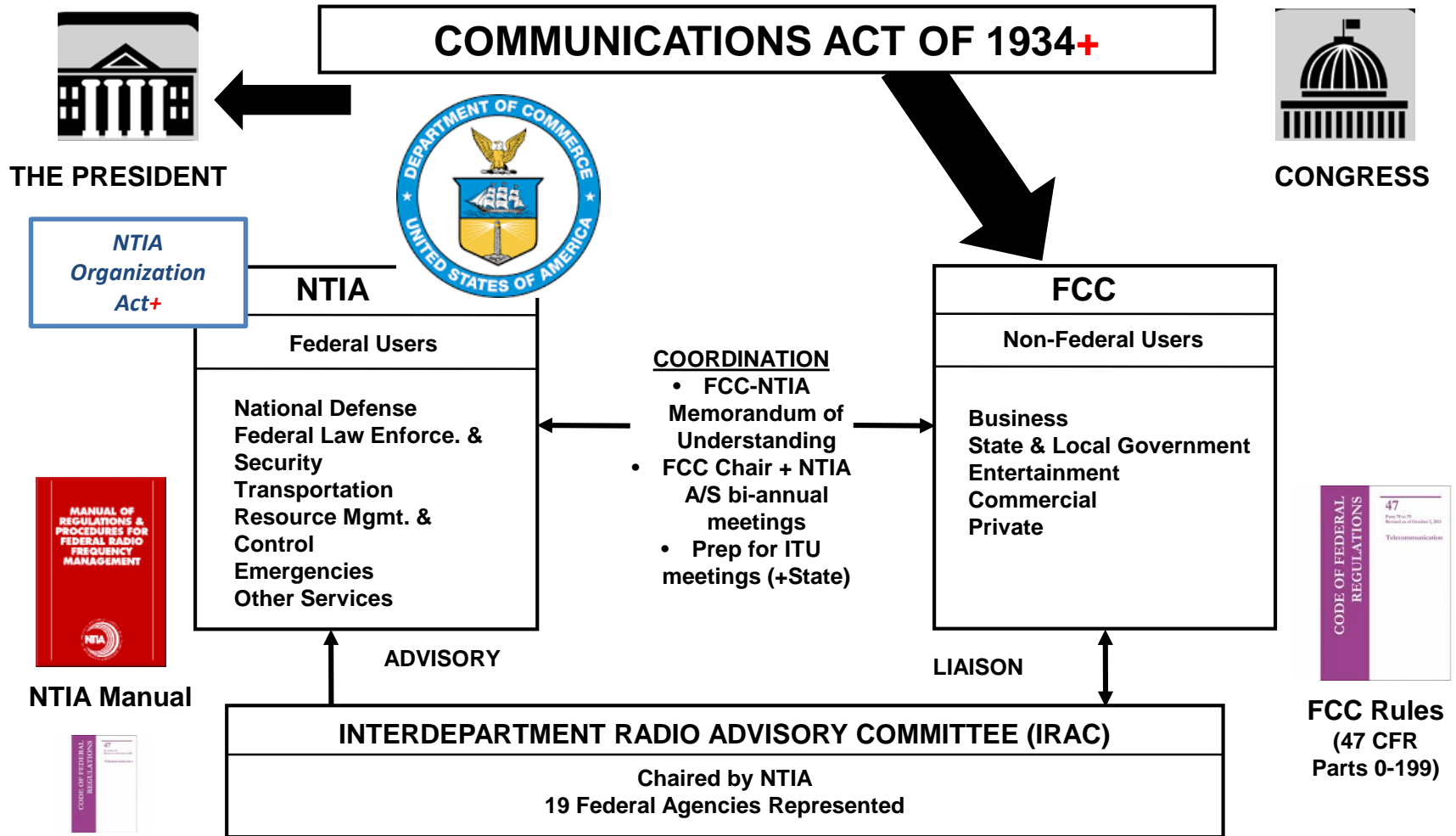
National Academy of Sciences
Committee on Radio Frequencies (CORF)
May 16, 2019

Peter Tenhula
Associate Administrator (Acting)
Office of Spectrum Management, NTIA
Chair, Interdepartment Radio Advisory Committee

Outline

- Overview of National Spectrum Policy/Management Framework(s)
- Presidential Memorandum on National Spectrum Strategy
 - Science as a Spectrum Policy Priority
- Other Hot Topics in Radio Frequency Management

National Spectrum Management Framework



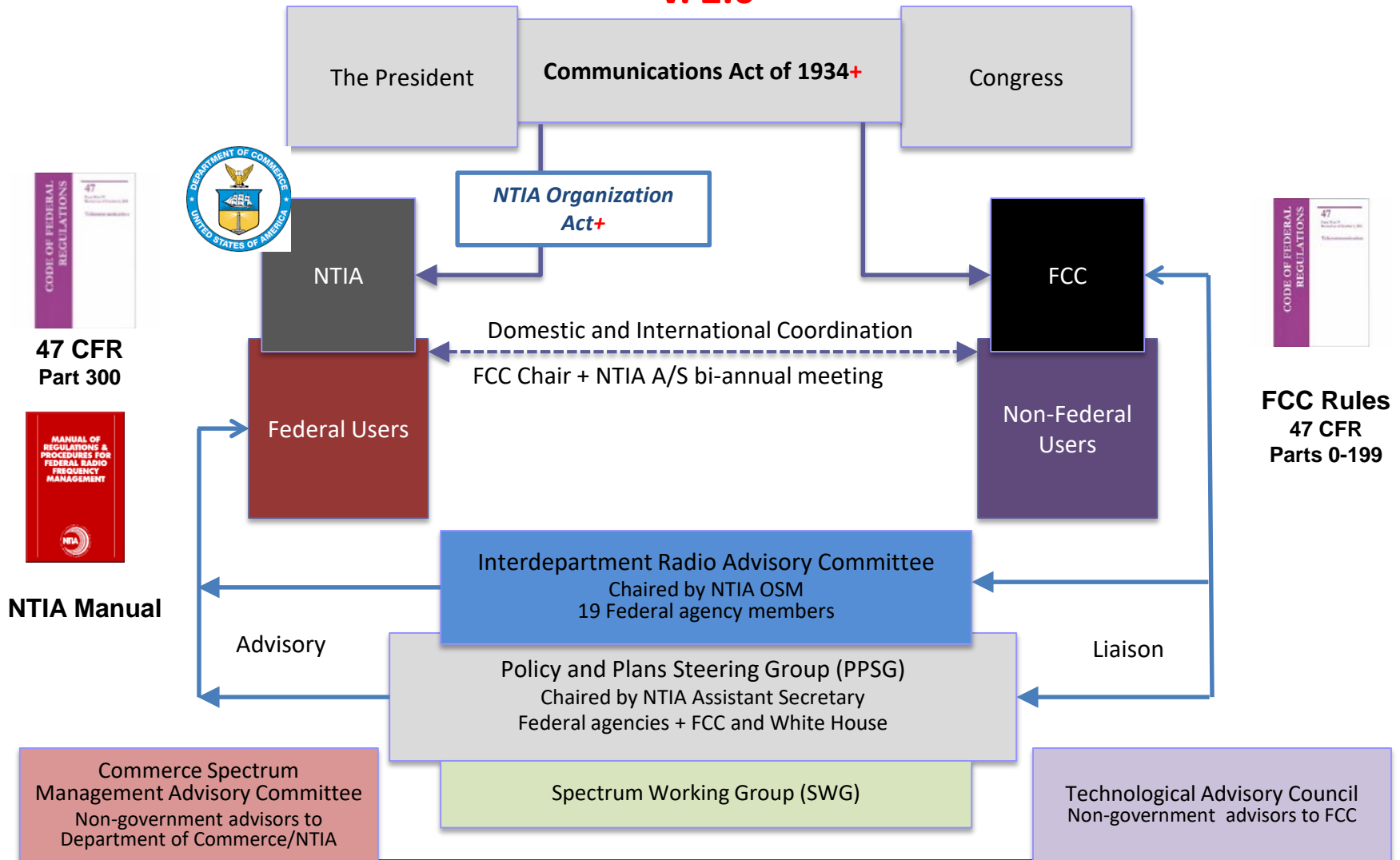
47 CFR Part 300

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



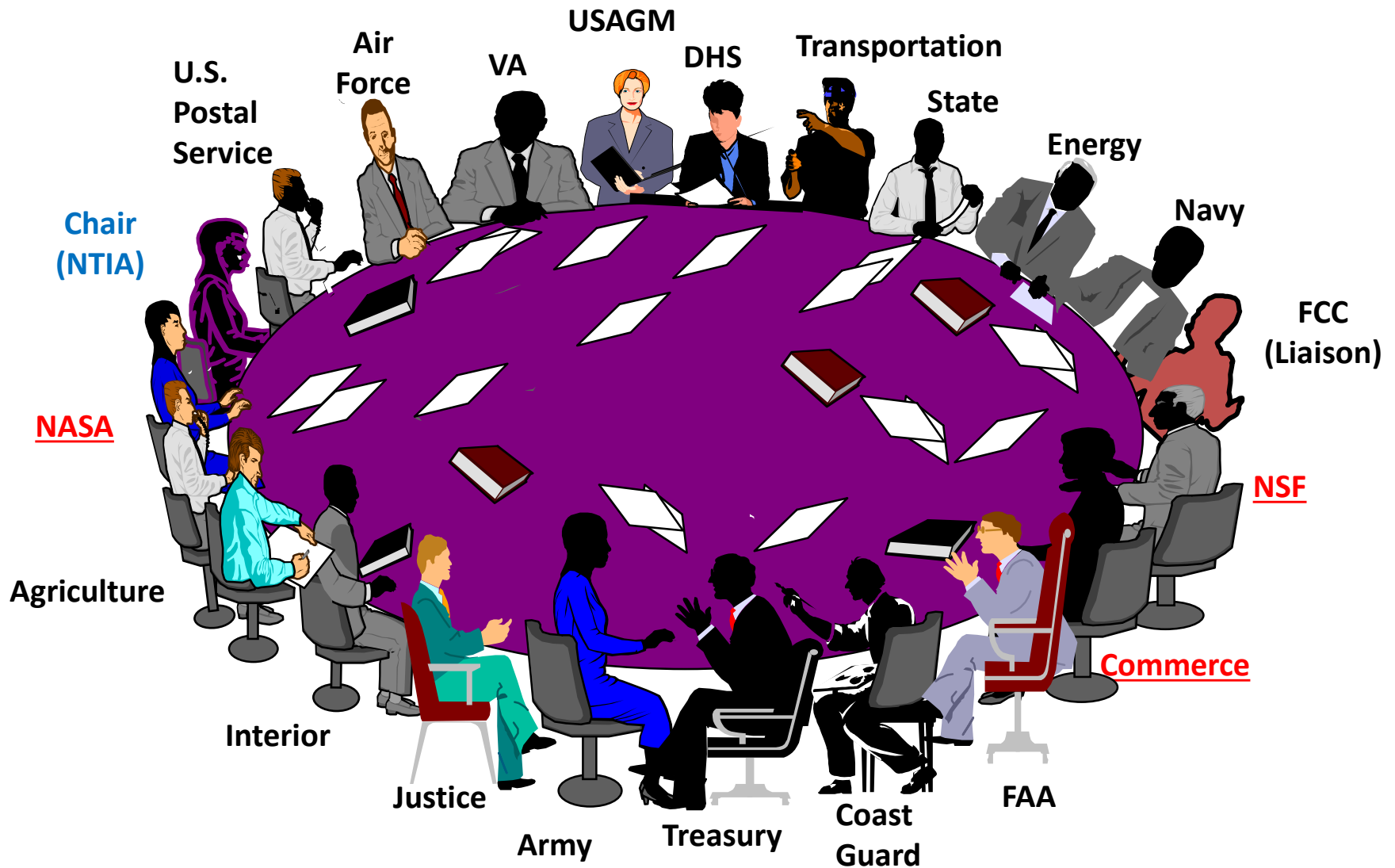
National Spectrum Management Framework

V. 2.0



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IRAC Members*



* Observers: Defense (DISA), NSA and FDA

Presidential Memo Implementation

- Presidential Memo (PM) released Oct 25, 2018
 - Calls for “a balanced, forward-looking, flexible, and sustainable approach to spectrum management” -- a long-term National Spectrum Strategy (by July)
- WH Spectrum Strategy Task Force coordinating implementation
- Federal Spectrum Requirements
 - April: Agencies reported on future requirements for spectrum and began reviewing current assignments and usage to include higher-fidelity information
- OSTP Reports
 - Emerging technologies and effects on consumer demand
 - R&D priorities to advance spectrum access and efficiency
- Annual NTIA Reports on Status of Spectrum Repurposing Initiatives
 - NTIA/FCC initiatives required by Spectrum Pipeline Act, MOBILE NOW Act, etc.

Strategic Objectives of the PM

- increase spectrum access for all users, including on a shared basis, through transparency of spectrum use and improved cooperation and collaboration between Federal and non-Federal spectrum stakeholders;
- create flexible models for spectrum management, including standards, incentives, and enforcement mechanisms that promote efficient and effective spectrum use, including flexible-use spectrum licenses, while accounting for critical safety and security concerns;
- use ongoing research, development, testing, and evaluation to develop advanced technologies, innovative spectrum-utilization methods, and spectrum-sharing tools and techniques that increase spectrum access, efficiency, and effectiveness;
- build a secure, automated capability to facilitate assessments of spectrum use and expedite coordination of shared access among Federal and non-Federal spectrum stakeholders; and
- improve the global competitiveness of United States terrestrial and space-related industries and augment the mission capabilities of Federal entities through spectrum policies, domestic regulations, and leadership in international forums.

Science as a Spectrum Policy Priority

- 2018 PM: U.S. policy to use radiofrequency spectrum as efficiently and effectively as possible to help meet our economic, national security, **science**, safety, and other Federal mission goals now and in the future.
 - Flexible, predictable spectrum access by USG will help ensure Federal users can meet current and future mission requirements for broad range of communications- and **non-communications**-based systems.
 - U.S. national security depends on technological excellence and USG must continue to have access to spectrum resources needed to protect the homeland, manage the national airspace, **forecast severe weather, and explore frontiers of space**.
- *See also* NTIA Manual, Chapter 2 (1965-2017)

Other Hot Topics

- MOBILE NOW Act and Spectrum Pipeline Act Implementation
- Prep for next World Radio Conference (and implementation of the last one)
- WH Space Policy Directives
- Opening up Spectrum “Frontiers” and “Horizons” (FCC)
- Sharing the 3.5 GHz band (FCC and ITS) and other “Mid-Band” Spectrum
- Improved Automation and Process Streamlining (2020 Budget Proposal)
- AWS-3 Transition

(Some more) Hot Topics

- Unmanned Aircraft Systems (UAS)
 - Spectrum Access and Counter-UAS
- Interference Protection and Dispute Resolution
- Small Satellite Systems
- Experimental Operations
- OMB Circular A-11 Implementation
- NTIA Manual Review and Revisions
- Spectrum Management Fees
- FCC Coordination

Thank You!



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