

CSMAC
Spectrum Efficiency Subcommittee

April 25, 2018

Subcommittee Members

- Co-Chairs:
 - Bryan Tramont
 - Jennifer Warren
- NTIA Liaisons:
 - Giulia McHenry
 - Ed Drocella
- Members
 - Audrey Allison
 - Laurie Buckhout
 - Michael Calabrese
 - Mark Crosby
 - Tom Dombrowsky
 - Carolyn Kahn
 - Paul Kolodzy
 - Mark McHenry
 - Janice Obuchowski
 - Charla Rath
 - Rick Reaser
 - Steve Sharkey

Improving Spectrum Efficiency

1. Complete outreach and finalize recommendations on regulatory, procedural, legislative or policy actions to improve efficiency without harming effectiveness. Carolyn Kahn – Lead
2. Identify mechanisms that could be employed to increase spectrum efficiency via sharing options, such as a federal mechanism to monetize assets on a non-permanent basis (e.g., a secondary markets model)? Bryan Tramont – Lead

Task Group 1: Status

- Federal agency interviews conducted
 - DHS
 - OMB
 - NTIA ITS
- Federal agency interviews scheduled
 - DoD
 - FAA*
- Other federal agency interviews requested
 - DOJ
 - NASA
 - NOAA
 - OMB OFPP
- Reviewed NTIA ITS report on “A 53-Year History of Spectrum Efficiency Studies and Recommended Future Directions”
- Circulating meeting notes with agencies
- Next step is to complete interviews and fold agency input into CSMAC’s consideration for final cumulative recommendations

Task Group 2: Status

Subcommittee Call (Feb. 21, 2018)*

- Asked for draft proposals/ideas related to barriers to or mechanisms for increasing spectrum efficiency

Subcommittee Call (March 20, 2018)*

- Circulated and discussed comprehensive list of barriers and mechanisms and asked people to identify any missing barriers and to identify which mechanisms are most promising

Subcommittee Call (April 12, 2018)*

- Circulated new draft with updated list of barriers and a list of mechanisms broken into three categories (1) most promising, (2) promising, and (3) least promising – solicited additional feedback to narrow down recommendations for NTIA

* Calls also covered status updates and next steps for Task Group 1

Legal Barriers

- Miscellaneous Receipts Act
- Antideficiency Act
- Scope and Funding Mechanism for the Spectrum Relocation Fund (SRF)
- Congressional Appropriations Process

Structural Barriers

- Lack of NTIA Authority and Resources
- General Staffing and Resource Shortages
- Additional Administrative Burdens Created by Implementing New Economic Mechanisms

Information Barriers

- Lack of Updated, Comprehensive Data Regarding Federal Spectrum Use
- Lack of Transparent Federal Spectrum Pricing

Other Barriers

- High Transaction Costs
- Lack of Trust in Technology And Regulatory Interference Resolution Processes (or Lack of Proven Success with Dynamic Sharing Technology)

Most Promising Mechanisms

- Funding
- Spectrum Property Rights
- Bi-Directional Spectrum Exchanges or Barter/Swaps
- Expansion of NTIA Authority

Promising Mechanisms

- Administrative Relocation with Overlay License Negotiation
- Spectrum Auditor
- Dynamic Federal Spectrum Secondary Markets
- Greater Access to Auction Revenue

Least Promising Mechanisms

- Spectrum Use/Rental Fees
- “Shared-Use Spectrum Superhighways,”
Spectrum Currency, and Spectrum Efficiency
Fund
- Defense Base Closure and Realignment (BRAC)
Model

The results/recommendations in this presentation are preliminary and will develop further based on the remaining agency interviews as well as continued Subcommittee discussions.