# Legal Perspectives on Orbital Debris Management

Agenda Item 11
National Space Society



#### Pillars of Orbital Debris Management

- Space Situational Awareness (SSA)
- Space Traffic Management (STM) (i.e. norms of responsible behavior)
- Mitigation
- Remediation
- On-Orbit Recycling



#### Active Debris Removal - Legal Challenges

- Article VIII of the Outer Space Treaty
  - A State Party to the Treaty on whose registry an object launched into outer space is carried shall retain jurisdiction and control over such object, and over any personnel thereof, while in outer space or on a celestial body.
     Ownership of objects launched into outer space, including objects landed or constructed on a celestial body, and of their component parts, is not affected by their presence in outer space or on a celestial body or by their return to the Earth...
  - [and Article I & II of the Registration Convention]



#### Legal Framework Outline - Step One

- State Sovereignty Issues
  - Identified State of Registry → express consent
  - Unidentified State of Registry → implied consent?
- Debris Capture Entity



### Legal Framework Outline - Step Two

- Ownership Issues
  - Law of Finds Doctrine applies here
    - Abandonment and thus capture
  - Law of Salvage Doctrine incompatible



## Policy Considerations as Supplemental Solutions

- Debris Risk Index
  - Catalogue & rank all options for active debris removal
- International Active Debris Removal Guidelines
  - ITU- and IADC- published remediation guidelines
- Space Sustainability Ratings
  - STM norm cascading through a defined sustainability rating
- Protection and Indemnity Insurance Clubs (P&I Clubs)
  - Risk pooling for cheaper & wider liability coverage

