

A large teal graphic element on the right side of the slide, consisting of a vertical rectangle with a curved left edge that tapers towards the top.

The Cybersecurity Satellite Act

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Status and Way Forward

CONTEXT

| - NEW SPACE

- Stakeholders, Partnerships, Space company

| - SPACE ECONOMY

- Small SAT, Multiple Data dimension, New Services from Space

| - SPACE TECHNOLOGY NEED TO OPERATING

- Digitalisation of Space industry (process, hardware, software)

WHAT

■ - POLITICAL

- Links between Commerce, Transportation, PNT, Homeland Security and Federal collaboration

■ - ECONOMY

- CSS owners and operators including small business, public-private partnership

■ - SOCIAL

- Space culture with New Space Exploration (back to the Moon, Mars Exploration and beyond)

WHY

■ - SPACE AND NATIONAL INTERESTS

- Directive 5, NIST, Workshop of Cybersecurity and Infrastructure Security Agency

■ - ECONOMIC CHANGES

- Launch campaign faster, critical infrastructure effects

■ - POLITICAL ISSUE

- Interdependence of critical infrastructure and the CSS

HOW

| - COMMERCIAL SATELLITES SERVICES

- Vulnerabilities with the effects on ground infrastructure and the assets in Space

| - CRITICAL INFRASTRUCTURE

- Threats and risks by foreign ownership and foreign located CSS physical infrastructure

| - NEW VOCABULARY

- CCS, critical infrastructure, cybersecurity risks, cybersecurity threats to be considered in the regulation

HOW

■ - THREATS OF CSS

- Understand the threats on the Space systems

■ - RISK ANALYSIS

- Understand the risk treatment on the Space systems

■ - CYBERSECURITY AND INFRASTRUCTURE SECURITY AGENCY

- the role of this agency to apply the specific cyber requirements

HOW

■ - MISSIONS

- Recommendations online resources
- Recommendations online for CSS owners and operators
- Recommendations from external sources
- As Built and Design with the public-private partnership
- Collaboration with Federal Agency Collaboration



CONCLUSION

■ **The new field of cybersecurity applicable for Ground, Space and user segment.**

■ **The new requirements in terms of organization and technical baseline**

PERSPECTIVES INNOVATION AND SPACE EXPLORATION

■ - SPACE OPERATION MANAGEMENT

- For CSS and Deep Space Assets

■ - SPACE CYBERSECURITY FRAMEWORK TO BE ADOPTED

- RAMS framework completed by Cybersecurity one

■ - SPACE DATA MANAGEMENT

- Huge Data from Space assets to manage