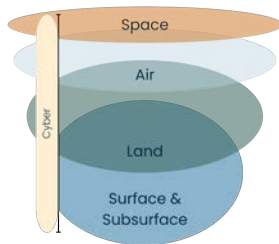
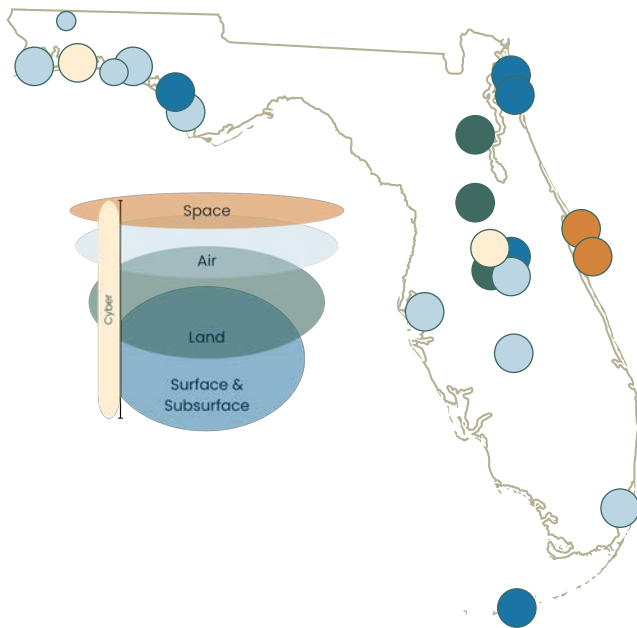


# From The Sea Floor To Outer Space

Florida's unmatched value to the nation's security.

**The State of Florida offers the Department of Defense the premier capabilities needed for the All-Domain Range of the Future.**

Florida is the home of numerous test and training and cyber ranges for DoD, including a national asset with the Major Range Test and Facility Base (MRTFB). The State offers a unique blend of geography, range access, academic and defense industry support, policy advocacy, and infrastructure and investment. Superb weather for military test and training, a wealth of talent and legacy of innovation creates unmatched value alongside a state-wide community that embraces its role in national security.



### Land Ranges

Avon Park Range  
Pinecastle Range

Camp Blanding Joint Training Center

### Air and Space Ranges

Eastern Range Complex  
Eglin Gulf Test & Training Range  
Jacksonville Range Complex

### Surface & Subsurface Ranges

Bugg Springs Undersea Warfare Center  
Jacksonville Shallow-Water Training Range  
(Panama City Operations Area)  
South Florida Ocean Measurement Facility  
Atlantic Targets and Marine Operations Key West

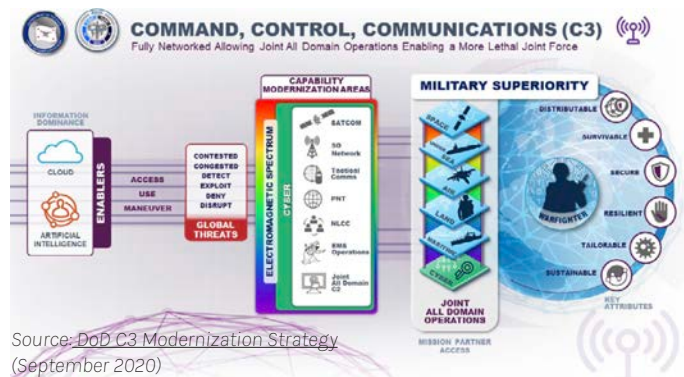
### Cyber Ranges

National Cyber Range Complex

## Key Features of an Integrated All-Domain Range

To maximize the value of Florida's ranges to DoD, the State and the Services can harness the available capacity today while building the Integrated All-Domain Range of the Future by leveraging existing partnerships and installations. The Florida Range of the Future will enable many test and training activities currently not possible with existing DoD ranges, including the following:

- **An anti-access/area denial (A2AD) defeat scenario.**
- **A theater-level littoral defense scenario involving all-domain/all-service coordination and operations.**
- **Special Ops littoral ingress to a contested tactical target area.**
- **Development, including test and evaluation, of long-range hypersonic weapons.**
- **Autonomous systems testing.**
- **Future Joint architecture development, including JADO/JADC2 experimentation and demonstration.**
- **Use of integrated ranges to simulate physical transition from one domain to another in battle.**
- **Support of next-generation nuclear systems.**



Source: DoD C3 Modernization Strategy (September 2020)

# Recommendations to Enable the Range of the Future

## Harness Available Capacity & Modernize Florida's Ranges

- Enhancements in range utilization to better capitalize on limited land, air, and sea range space, including initiatives such as the Gulf Range Enhancement, which will expand existing air space and improve airspace deconfliction.
- The acquisition of new airborne communication relays and range clearing aircraft.
- The establishment of coastal relay sites and other land-based range infrastructure for better coverage of the Gulf of Mexico and long-range operations.

## Sustain Mission Assurance

- Make the military mission line (MML) permanent in law by establishing a moratorium on oil and gas exploration and drilling in the Eastern Gulf of Mexico.
- Be fully engaged with the OSD-led Military Aviation and Installation Assurance Siting Clearinghouse to ensure future commercial real estate development is compatible with the development and use of the Florida range-of-the-future.
- Preserve the airspace above Florida's ranges for military test and training missions, such that expansion of commercial air travel is compatible with military requirements for manned and unmanned capabilities.
- Assess existing and future sea lanes for compatibility with the range of the future, and establishing cooperative arrangements to facilitate commerce while preserving military missions, with range utilization and effectiveness as key metrics.

## Develop the Integrated All-Domain Range of the Future

- Grow Florida's ranges to support JADC2 environments through coordinated and realistic range development plans such as "EGTTR Max." These plans, at a minimum, should include: undersea fiber connectivity between range resources; data transmission and relay to surface, air, and space assets; wide-area telemetry and flight termination capabilities; and multi-level security infrastructure.
- Build scalable, next-generation multi-level security facilities, IT systems and data architectures. Ensure common data standards across ranges, platforms, and command and control systems to support a "plug & play" approach to the use of Florida ranges.
- Establish a dedicated funding priority in the DoD budget to bring advanced electronic capabilities to Florida ranges. Complement the EW assets at other national ranges (e.g. NTTR) to increase capacity to meet Joint capability development and training needs.
- Integrate ranges across each warfighting domain to replicate the real-world all-domain environment of modern warfare. Make the transition between air, space, cyber, surface, and sub-surface ranges seamless, to facilitate Joint training and capability development.
- Establish aggregated ranges as fertile environments for JADO/JADC2 experimentation, prototyping, and large-force test events. Maintain a forward-looking range culture to link test and training environments and leverage future state-of-the-art technologies, to include artificial intelligence and machine learning.
- Develop a detailed investment roadmap for Florida ranges within the State and with the DoD.

## Harness Florida and Unlock All-Domain Operations