

## WORLDWIDE RESEARCH COLLABORATION

### AFRL DIGITAL TRANSFORMATION FOUNDATIONAL CAPABILITIES

#### WHAT A DIGITALLY TRANSFORMED AFRL LOOKS LIKE

A Digitally Transformed AFRL optimally utilizes its people, processes, and data to design and execute its portfolio to enable the Department of the Air Force to deliver needed capabilities to the warfighter at the speed of relevance. The Digital Transformation Strategy features foundational capabilities that measurably accelerate the generation and transition of adoption-ready technology with demonstrable military benefit.

#### **Digitally collaborate effectively and securely worldwide at the required security level**

Empower AFRL scientists and engineers with secure, reliable, interoperable commercial software ecosystems that facilitate rapid engagement with the global science and technology community at the appropriate classification. When combined with efforts to upskill the workforce, this capability enhances the sphere of influence and productivity of AFRL; thus, driving AFRL, its partners, and their data toward a government-owned research and development ecosystem.



#### DELIVERABLES

- Unclassified productivity ecosystem connecting AFRL with external partners
- Democratized R&D Cloud Computing Platform as a service
- Worldwide unclassified S&T software ecosystems for digital engineering, development, and project management

#### BENEFITS TO CUSTOMER

- **Faster Research:** Facilitating collaboration between global partners in academia, other government agencies, and small/medium/ large businesses
- **Better Decisions:** Improved transparency, observability, and democratized access to commercial capabilities
- **Streamlined Transitions:** Expanding the scale of the S&T pipeline into AFRL
- **Low Friction Business & Ops:** Interoperable applications and data

#### TECHNOLOGY CHALLENGES

- Over-dependency on mailing CDs and HDDs, or utilizing DoD SAFE to work with our global S&T partners, which leads to long iteration cycles
- Inability to immediately ingest, test, evaluate, and iterate upon development code or engineering models with global partners
- AFRL S&Es spend exorbitant time working with disjointed software, networks, services, and analysis tools when working with or absorbing data from partners