

# **Why the AIST Managed Cloud Environment?**

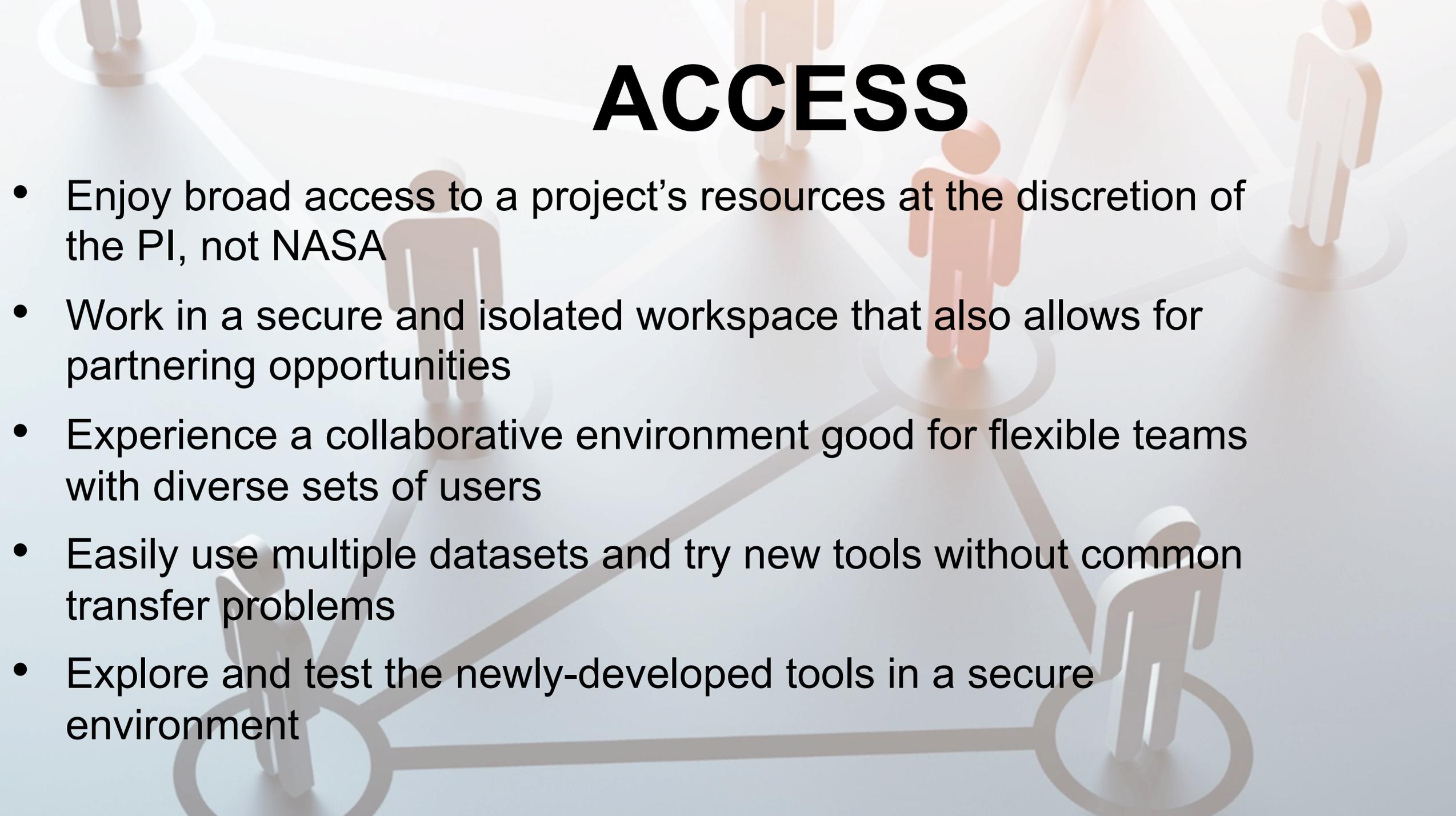


# FLEXIBILITY

- Leverage easily scalable computing for high-demand, high-bandwidth needs
- Easily run multiple experiments - Keep what works, drop what doesn't
- Perform research using new computing capabilities without extensive start-up time
- Try new tools and methods from the AWS product catalogue easily and affordably
- Store, share and analyze terabyte and petabyte-scale science data without extensive hardware investment



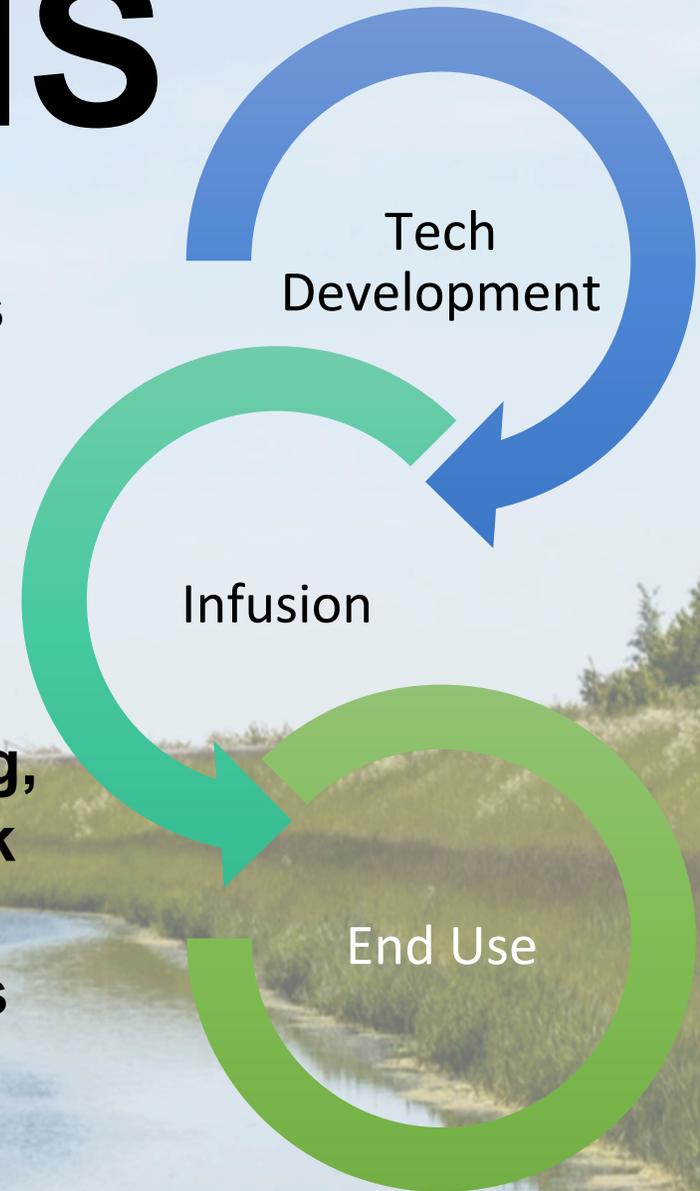
# ACCESS



- Enjoy broad access to a project's resources at the discretion of the PI, not NASA
- Work in a secure and isolated workspace that also allows for partnering opportunities
- Experience a collaborative environment good for flexible teams with diverse sets of users
- Easily use multiple datasets and try new tools without common transfer problems
- Explore and test the newly-developed tools in a secure environment

# INFUSIONS

- **Infusion is the process of incorporating the tools you create into end user systems**
- **Increase the number of AIST projects that are ready to be adopted and used by end users**
- **End users test and provide feedback to research teams early to accelerate the infusion process**
- **Incorporates NASA standards from the beginning, making it easier for end users to infuse new work into their systems and processes**
- **Reduce the total cost and amount of time it takes to typically infuse a new tool**



# SECURITY

- Cloud services are preconfigured for security
- This reduces the need for projects to handle security themselves
- AMCE teams inside and outside of NASA have access to a security-compliant platform that's outside the NASA firewall
- The system manages established NASA security procedures in background

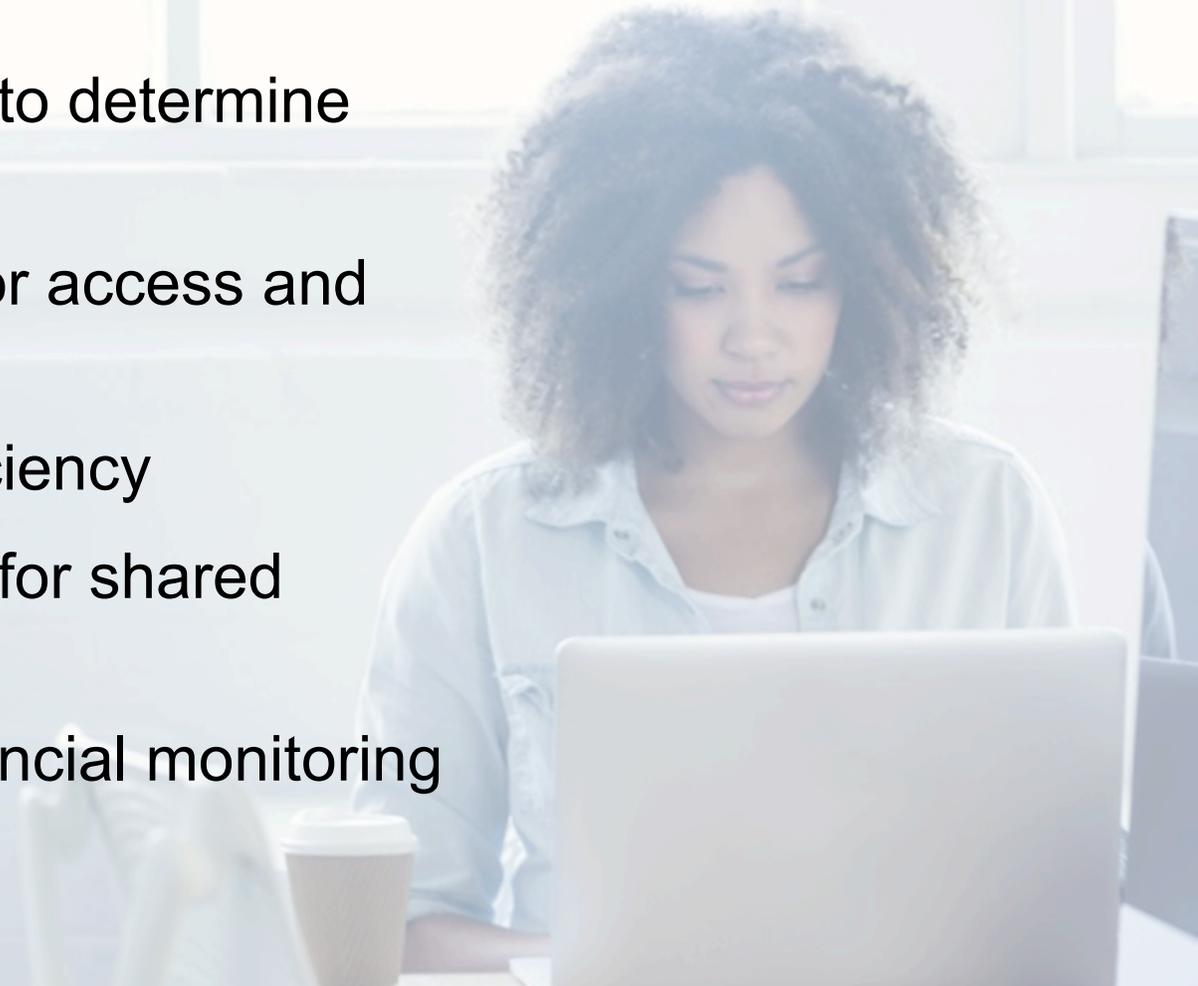


# HOW DO WE USE THE CLOUD?



# IMPLEMENTATION METHOD

- AIST gathers computing requirements to determine eligibility
- AIST provides a web-based platform for access and management
- AIST provides training for use and efficiency
- AIST and PIs sign project agreements for shared responsibilities
- AIST and PIs have easy access to financial monitoring and management



# Questions? Want to see more?

Individual and small group demonstrations of the system will be conducted in The Selby Room later this afternoon and tomorrow as scheduled.

Contact Shelby Cain at [shelby.cain@nasa.gov](mailto:shelby.cain@nasa.gov) or  
Jim Wiedman at [jim.wiedman@nasa.gov](mailto:jim.wiedman@nasa.gov).

An electronic copy of this presentation will be posted on  
the ESTF website.

