

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

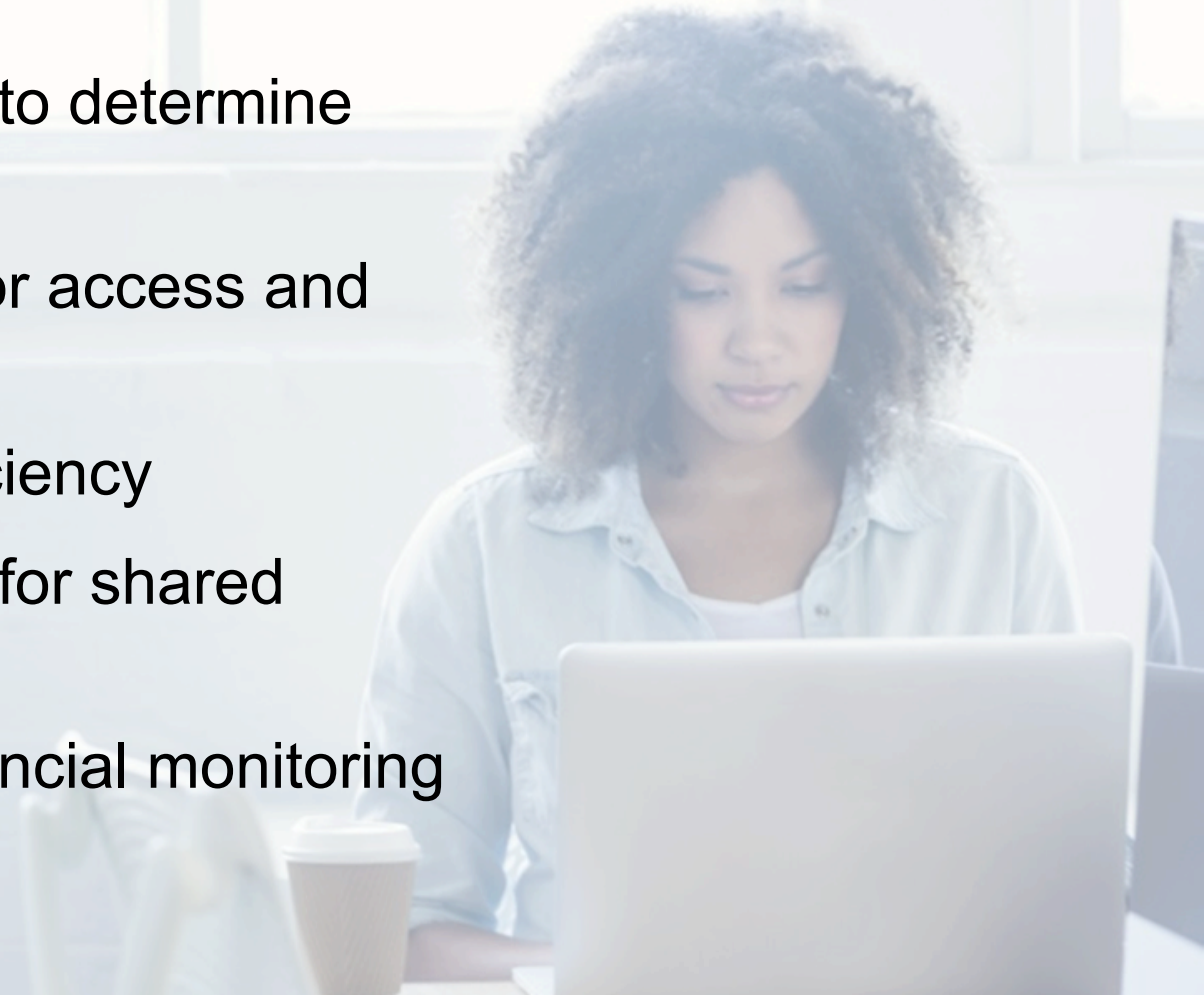


HOW DO WE USE THE CLOUD?



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 or
Jim Wiedman at jim.wiedman@nasa.gov.

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

