

Information Sharing & Integration Group

*Collaborative & Assistant Systems Technical Area
Computational Sciences Division*

People

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Projects

- **ScienceDesk**
 - ScienceOrganizer
 - Greenhouse Collaboratory
- **Aviation Data Integration**

Customers

- **NASA Astrobiology Institute**
 - EMERG Research Group
 - JSC Astrobiology Group
 - Marine Biology Lab
- **NASA Exobiology Program**
- **Human Exploration Program/ISS**

Research Focus

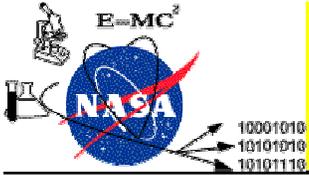
- **Scientific Knowledge Management**
- **Scientific Collaboration Technology**
- **Digital Libraries**
- **Intelligent Information Access**
- **Information Integration Architectures**



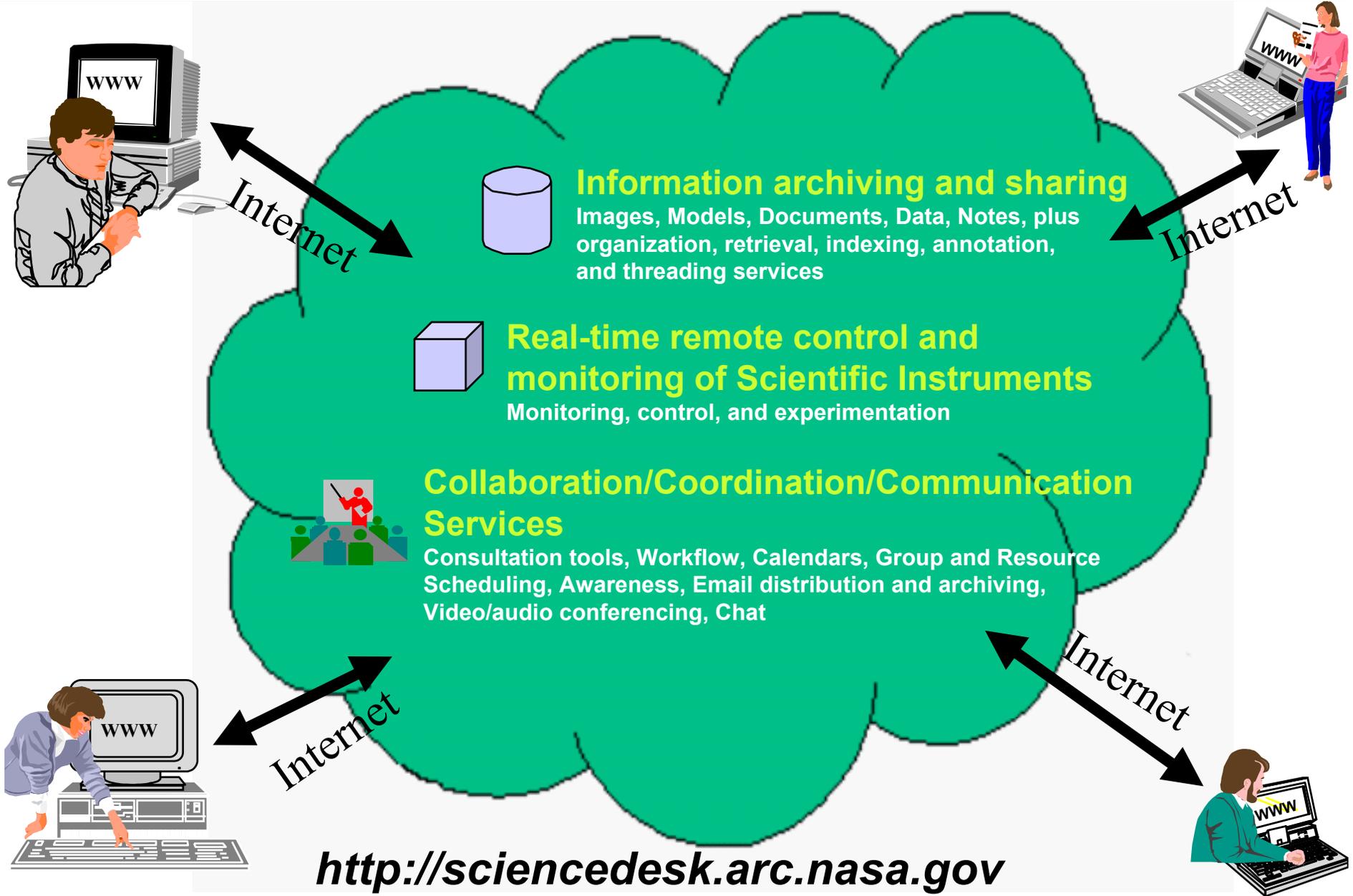
NASA Ames Research Center

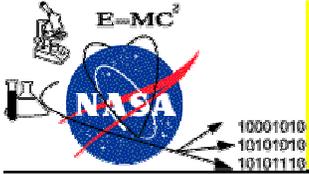
*Funded by the NASA Cross-Enterprise Technology Development Program,
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ScienceDesk Project: Collaboration support for distributed scientific teams





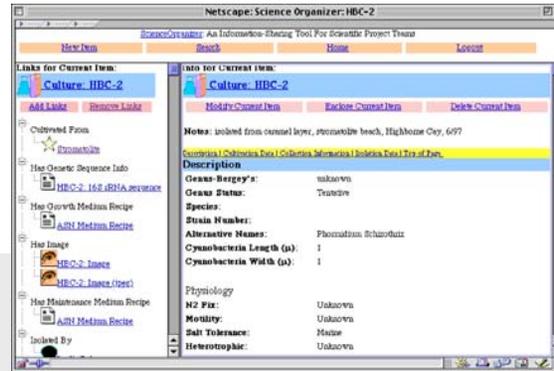
Research Focus



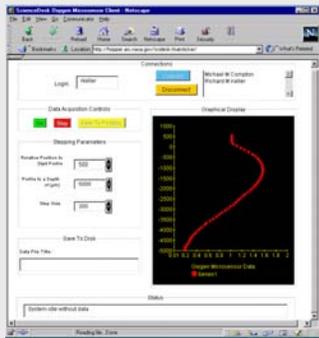
- **Scientific Knowledge Management:** capture, preservation, traceability of scientific knowledge
- **Heterogeneous Information Integration:** integration of disparate data and information
- **Information Access for Digital Repositories:** intelligent indexing, visualization, and navigation
- **Collaboratories:** tools for synchronous and asynchronous collaborative scientific teamwork
- **Agent-assisted Remote Experimentation:** intelligent monitoring and control of experiments

ScienceDesk Tools

Web-based interface



real-time measurements



Greenhouse Collaboratory photo

Remote Controller



3-Axis measurement table



Greencam

ScienceOrganizer

SEM image



Scanning Electron Microscope

annotated image

image

Shared Image Annotator