

*Connecting people and resources to
accelerate discovery by empowering the
science gateway community*



Science Gateways Community Institute: Software Registry

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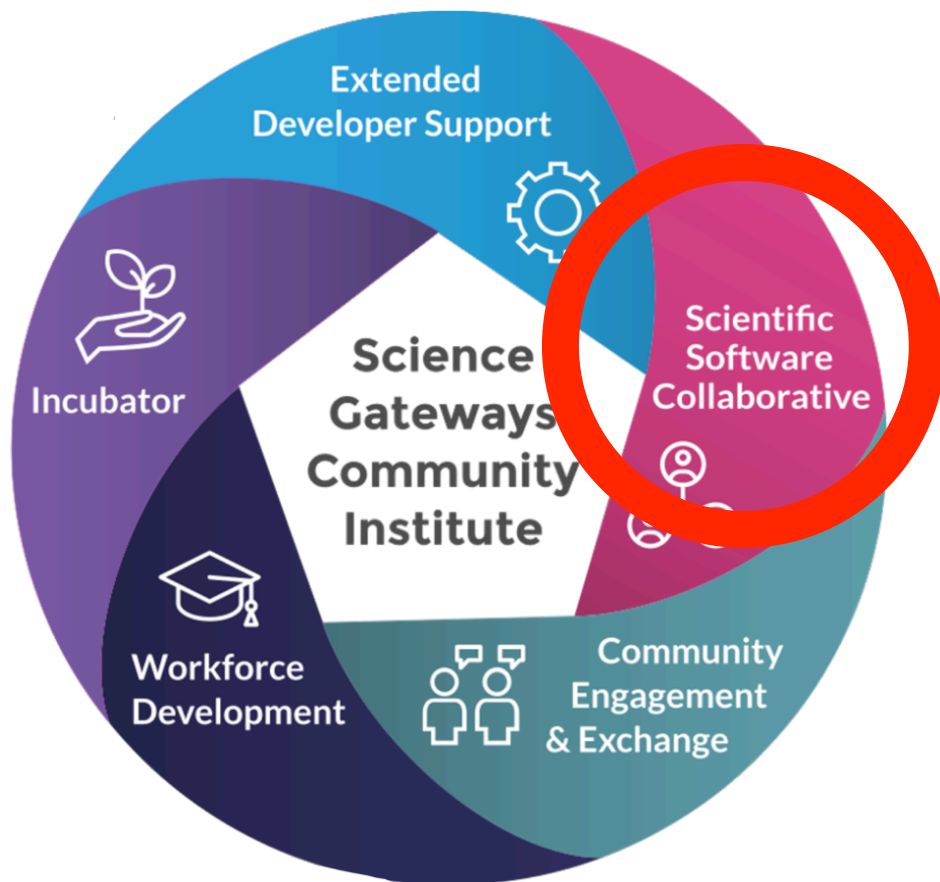
*16 October 2017
IWSG-A, Brisbane, Australia*



Award Number
ACI-1547611

IWSG
International Workshop on Science Gateways

Science Gateways Community Institute



- Diverse expertise on demand
- Longer term support engagements
- Software and visibility for gateways
- Information exchange in a community environment
- Student opportunities and more stable career paths

help@sciencegateways.org
<http://sciencegateways.org/>

Scientific Software Collaborative

End-to-End Solutions

- Serve a diverse set of scientific domains
- Out-of-the-box gateway solution that can be customized
- Based on Docker – executable images that are the skeleton for a secure and functioning gateway
- Portable and reproducible
- Community-contributed

Software Integration & Community Contribution

- Docking mechanisms for community-contributed software, including NSF SI2
- Incorporate community standards

Software Marketplace for Science Gateways

“Use-what-you-need”

- API integration
- Variety of services
 - Information
 - Security
 - Execution
 - Data
 - Event
 - Accounting
- Hosting opportunity

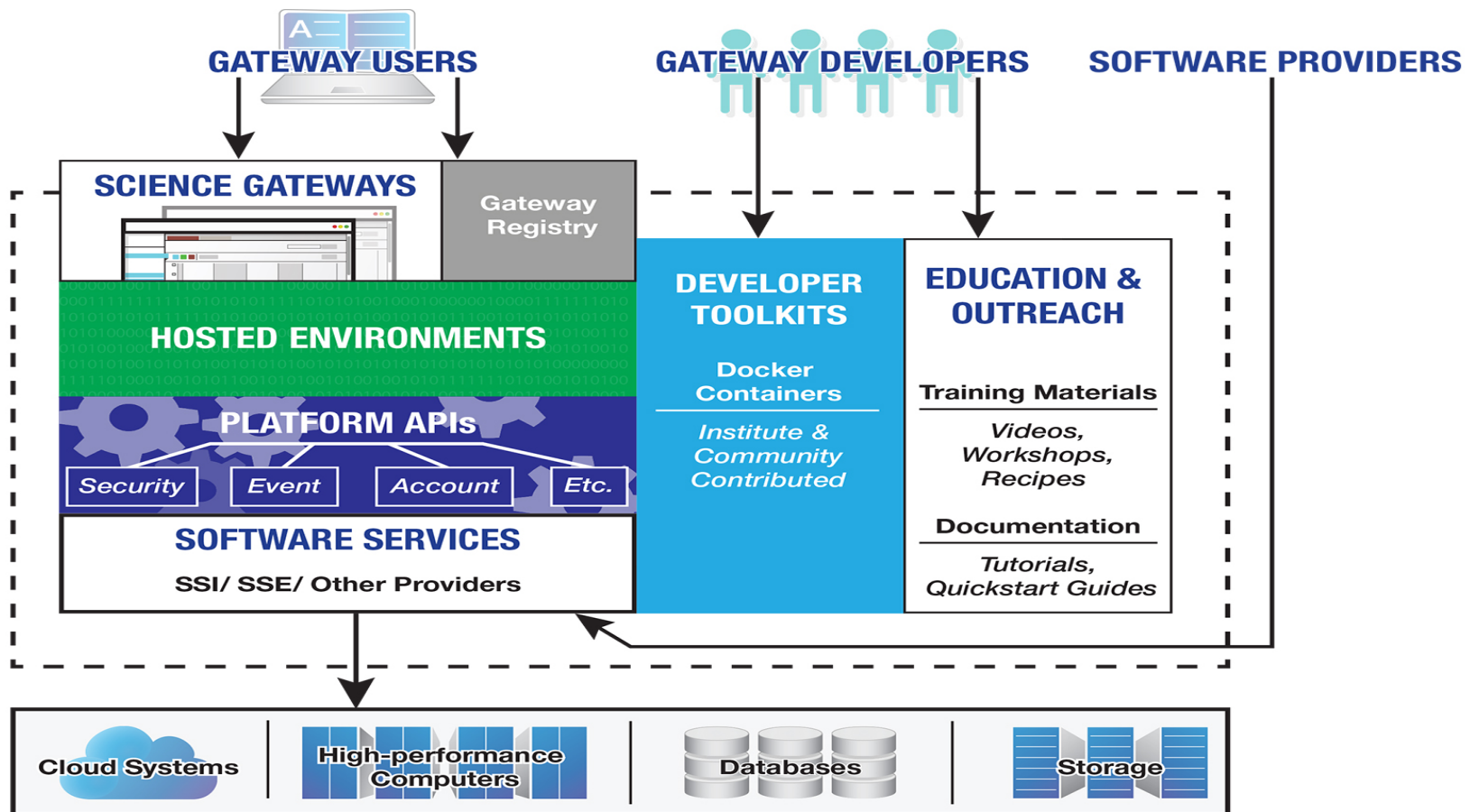
Gateway Discovery

- Open registry
- Promotes use of existing science gateways
- Community-contributed
- Admin approval
- Automated cleanup

Engage Other Areas of Institute

- Support projects leverage Collaborative components
- Framework evolves as a result of gateway engagements
- Community outreach

Scientific Software Collaborative



Science Gateways Catalog

[Log In](#) [Sign Up](#)

Total Gateways: 135

 Search



FORMAL (7)

Mathematics (7)

PHYSICAL (70)

Chemistry (25)

Physics (15)

Earth Sciences (38)

Space Science (14)

LIFE (50)

Biology (49)

SOCIAL (25)

Anthropology (2)

Criminology (1)

Geography (2)

Linguistics (1)

Political Science (1)

Psychology (2)

Education (17)

APPLIED (56)

Engineering (47)

Healthcare (15)

INTERDISCIPLINARY (26)



HydroShare

HydroShare is an online collaboration environment for sharing data, models, and code.

Categories: Physical,Earth Sciences,Hydrology

Software/Tools: HydroShare

HydroShare

collaborative environment

CUAHSI

Hydrologic Science

Water

▼ SHOW DETAILS



CoCalc

CoCalc(Collaborative Calculation in the Cloud) is a sophisticated web service for online computation and provides the collaborative environment to share your files privately with project collaborators... More

Categories: Social,Education

collaborative environment

online

education

▼ SHOW DETAILS



BIOVIA Pipeline Pilot

Pipeline Pilot gives you the building blocks to create data science solutions and make them available to be used strategically. Users of any programming level can quickly create custom protocols for a... More

Categories: Physical,Life,Chemistry,Biology

BIOVIA

collaborative environment

data science

▼ SHOW DETAILS

Total Gateways: 135

Search



PHYSICAL (2)

Earth Sciences (1)

Space Science (1)

SOCIAL (2)

Linguistics (1)

INTERDISCIPLINARY (1)

Scientific Modelling (1)

PHILOSOPHY (1)

Citizen Science (1)



Biodiversity and Climate Change Virtual Laboratory

The Biodiversity and Climate Change Virtual Laboratory (BCCVL) is a "one stop modelling shop" that simplifies the process of biodiversity-climate change modelling.

Categories: Physical, Interdisciplinary, Earth Sciences, Scientific Modelling, Climatology, Ecology

biodiversity

climate

ecology

modelling

australia

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Humanities Networked Infrastructure (HuNI)

HuNI combines data from many Australian cultural websites into the biggest humanities and creative arts database ever assembled in Australia. HuNI data covers all disciplines and brings together infor... More

Categories: Social, Philosophy, Citizen Science

humanities

NeCTAR



Alveo

Alveo is a virtual laboratory that provides human communication science researchers all over Australia with infrastructure to store data collections, analysis tools, and workflows in a common environ... More

Categories: Social, Linguistics

▼ SHOW DETAILS



All-Sky Virtual Observatory

ASVO provides a direct and vital link between the theoretical and observational aspects of data collection and analysis. It enables researchers to access a growing collection of theoretical and observ... More

Categories: Physical, Space Science, Astronomy, Astrophysics

Create account

Username

First Name

Last Name

Email address

Password

Confirm Password



I'm not a robot



SUBMIT

Account created!

An email will be sent shortly to the email address you specified when creating your account. Click the link in the email to activate your account.

Add Science Gateway

GENERAL

CATEGORIES

SOFTWARE

PROJECTS

Name

Description

URL

URL is required

Email

Email is required

Documentation + ADD

(Any documentation site for this gateway technology)

Sponsors + ADD

(People who pay the bills. e.g. NSF)

Keywords

my awesome tags

Institutions

(e.g. SDSC, TACC, IU, etc.)

☐ SGCI Affiliate

☐ This is used in a classroom

SAVE

CANCEL

Partners

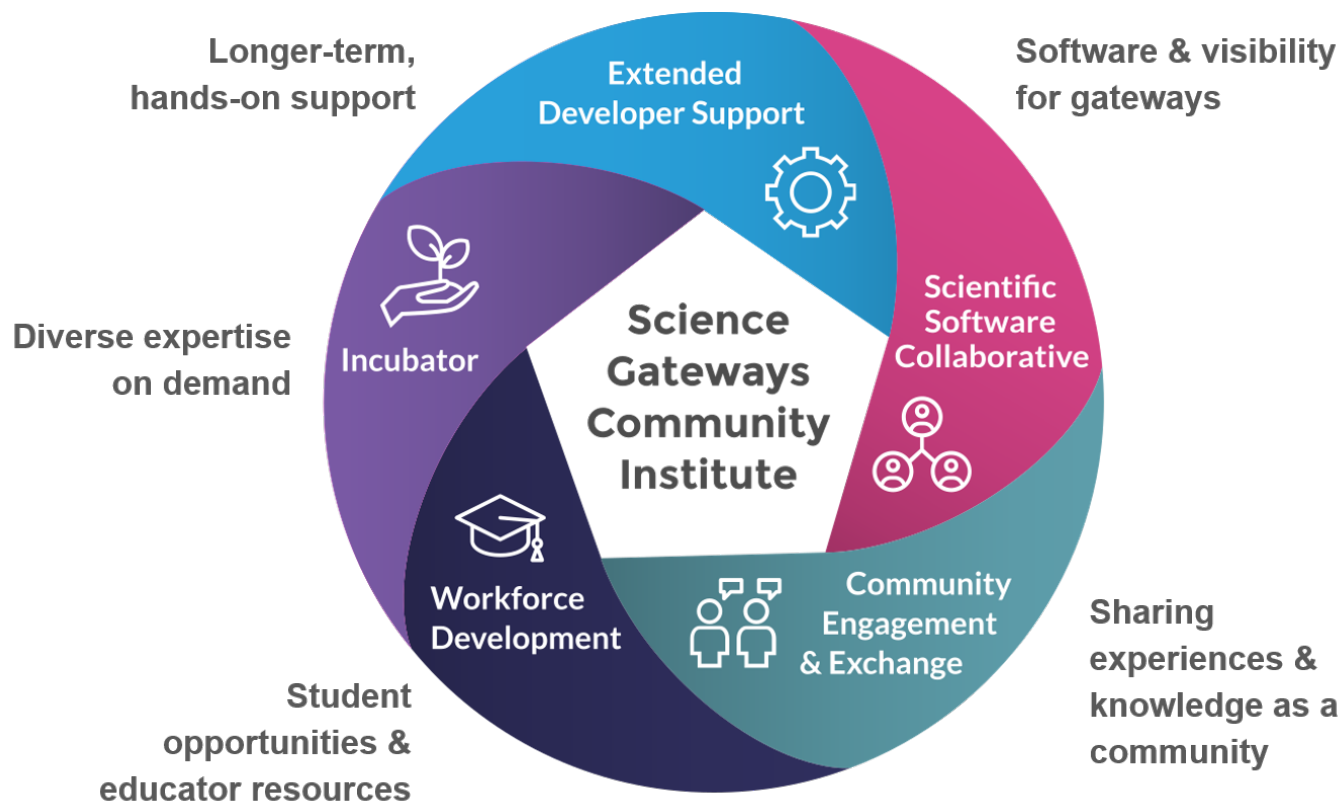
- ICSG (International Coalition on Science Gateways)
- RDA (Research Data Alliance) VRE-IG (Virtual Research Environment Interest Group)
- National Data Services
- Canarie
- XSEDE
- Jetstream
- Globus
- ICTBioMed
- HUBzero
- ...
- Potential with many projects: Nectar, eInfraCentral, EOSpilot, etc.

Wishlist

- Automatic checking of URLs and technology
- Adding maturity degree of technology
- Offering more resources

Further ideas?

Thanks for your attention!



help@sciencegateways.org
<http://sciencegateways.org/>