

Earth Science Data Systems Working Groups



For additional information about the ESDS Working Groups, the challenges we face, and our efforts to meet these challenges, visit:

<http://esdswg.gsfc.nasa.gov/>

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NASA ESDS Software Reuse Working Group



**Encouraging reuse in
the Earth science
community**

<http://www.esdswg.com/softwarereuse>



About the Reuse Working Group

Software reuse can help the science community by reducing software development timescales, reducing costs, and contributing to the dissemination of knowledge and expertise. The Software Reuse Working Group has been established by NASA to enable and facilitate the reuse of software assets, including open source products, within the NASA Earth science community.

Some of our goals include:

- To spend less time, money, and effort on software development
- To increase productivity and improve quality and reliability through reuse
- To increase the number of available reusable assets
- To save NASA, and the Earth science community, time and money

Our Activities

In order to meet our goals, we focus our efforts on a few major areas. These are listed below with some examples of current activities.

- Reuse Implementation – creating guidelines to help developers make their assets available to others
- Support/Enablement – working towards prototyping a NASA-only Reuse Enablement System (RES) for Earth science reusable software assets
- Outreach and Education – creating a web site to promote and provide information about reuse
- Policy Change – providing NASA with policy recommendations to encourage reuse
- Reuse Incentives – developing a software reuse peer-recognition award

The Software Reuse portal web site continues to play a key role in our efforts.

Our Portal Web Site

The software reuse portal web site at <http://www.esdswg.com/softwarereuse> is divided into four major sections: reusable assets, resources, open source, and funding opportunities. The resources section contains information on topics such as:

- Books and articles
- Bottom-up reuse guidelines
- Events, past and future
- Featured projects
- A library of WG material
- Technology Readiness Levels

If you are interested in our efforts, please visit:

<http://www.esdswg.com/softwarereuse>

With the help of the Earth science community, we can reach our goals, which include increasing the amount of software reuse and helping you save time and money during software development.