Japanese Virtual Observatory and NaReGi

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Supported by



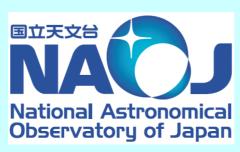
• JSPS, Core to Core Program



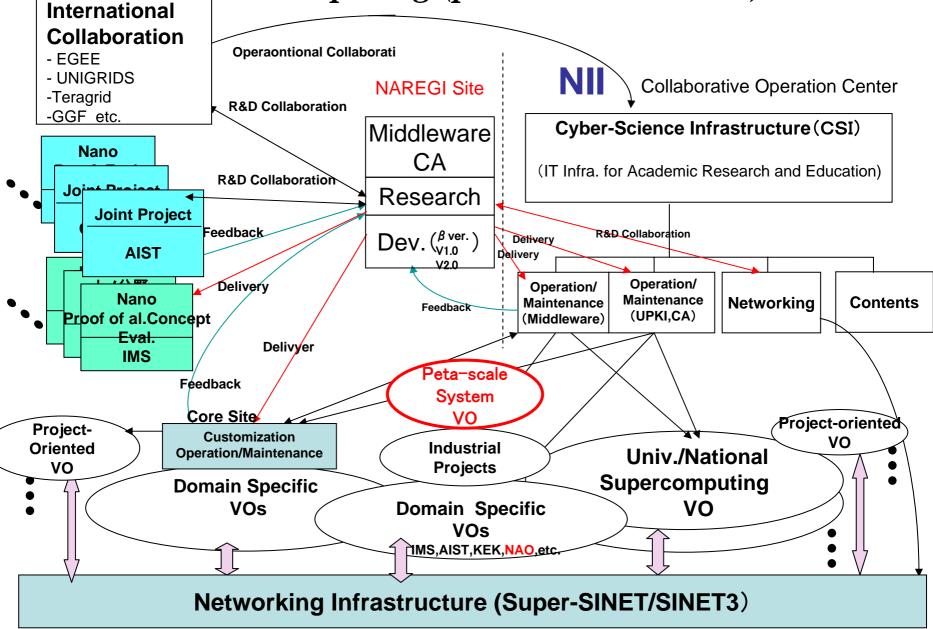
- MEXT, Kakenhi i providence
- NII, CSI project



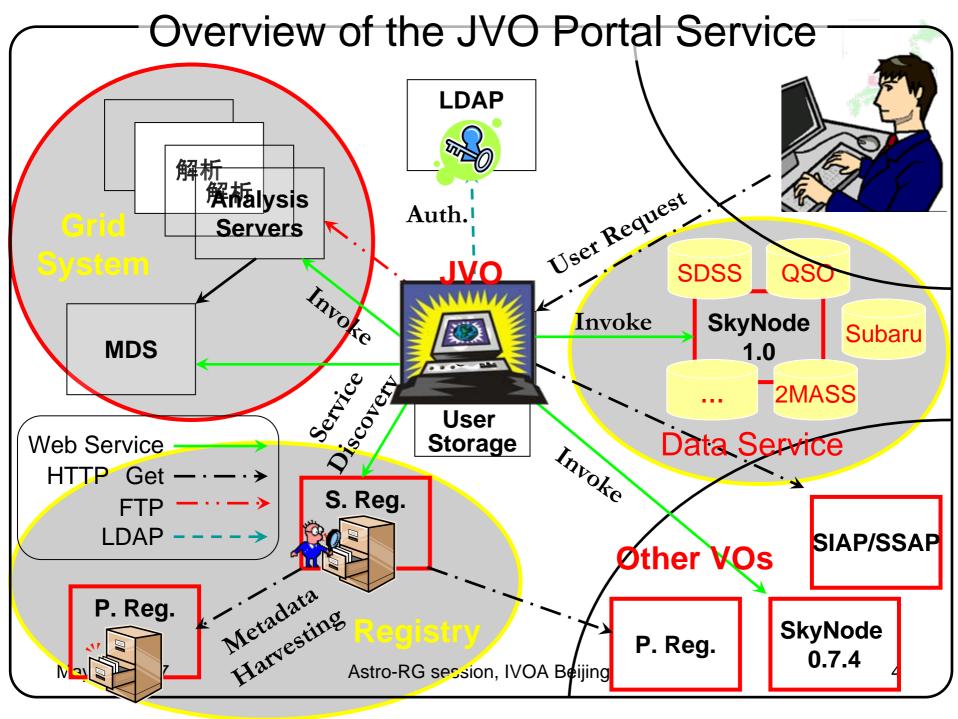
• NAOJ



Cyber Science Infrastructure toward Petascale <u>Computing</u> (planned 2006-2011)



Note: names of VO are tentative)

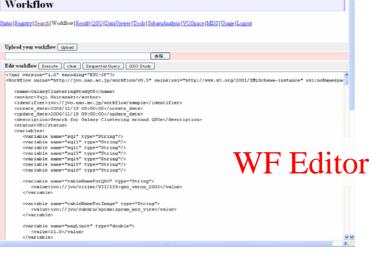


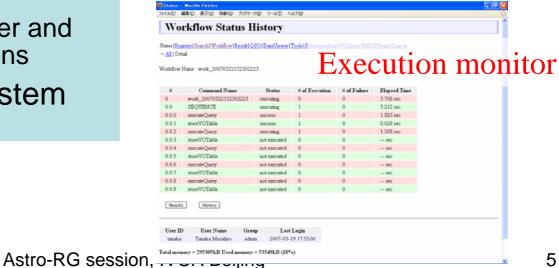
Improvement of Work Flow system

ルモン 編集(E) 表示(L) 移動(L) ブックマーク(B) ツール(D) ヘルブビ

Items in FY2006

- Improvement of WFDL
 - Shorten the volume of DL
 - Array definition
 - Awk-like description (loop description in a single line)
 - and so on
- Built-in functions
 - Available to register and use built-in functions
- Status and Log system

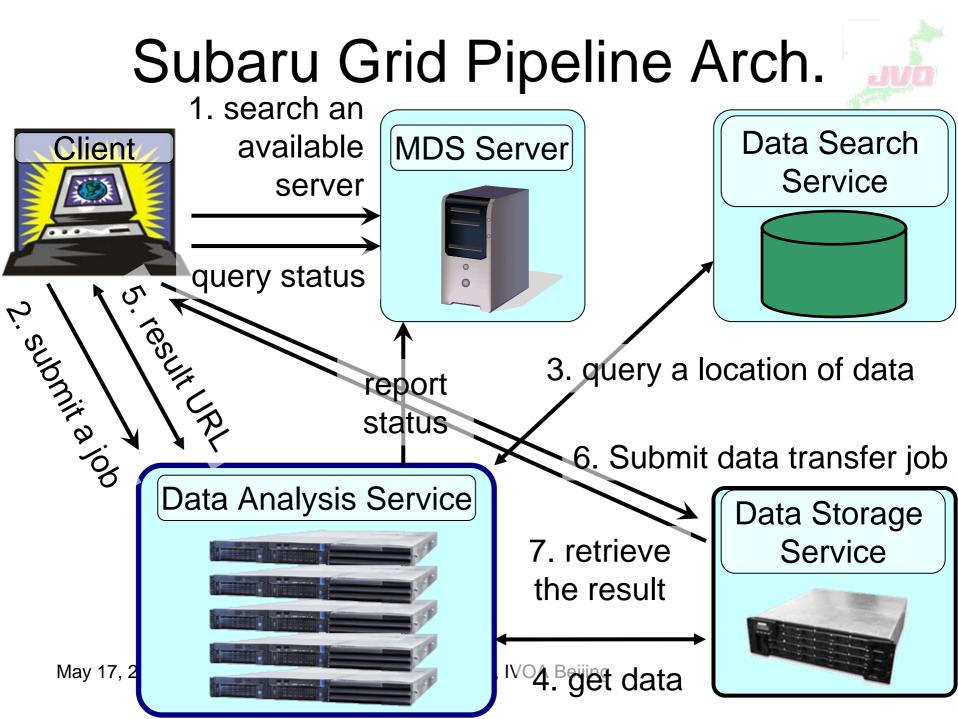




Grid Service on VO

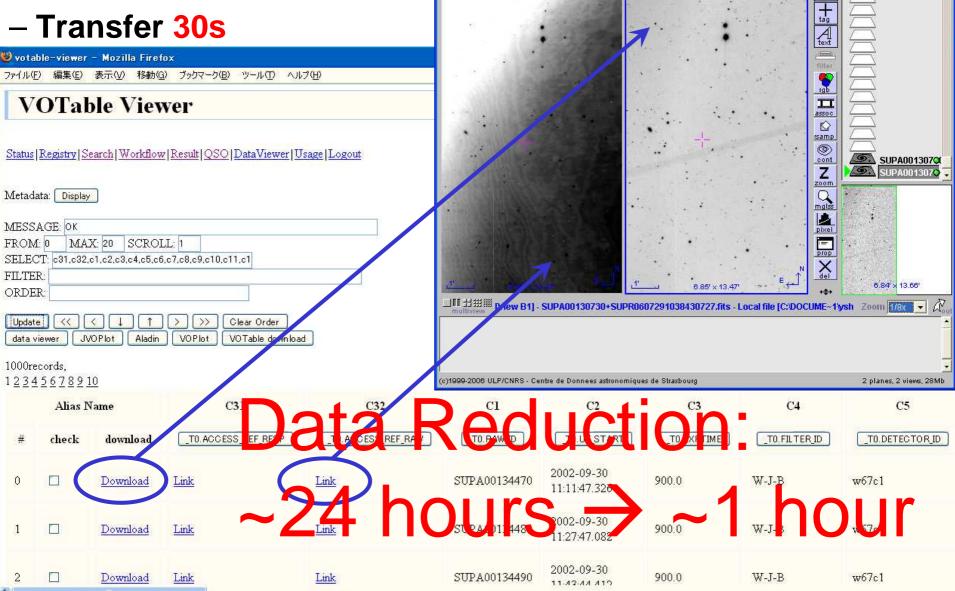


- Subaru data reduction pipeline system
 - Web service based GRID
 - Generates calibration data (Super-Flat) for all the SuprimeCam data in a week
 - On-the-fly data reduction with the pre-prepared Super-Flat
 - Users can access to the data reduced with the most recent algorithm
 - Also support the older version of pipeline
- Backend computing system of the JVO
 - catalog generation
 - photo-z calculation
 - Image arithmetic



– Reduction 10s (Bias+Flat+Distortion+ Astrometory)

- Transfer 30s



🎯 Aladin v3.7 multiview

SUPA00130730.fits

Load ...

Position J2000

Save...

-

Tools...

SUPA00130730+SUPR0607291038430727.fits

02:19:05.43 -04:55:01.9

Print..

Pixel 8 bits 🔻

Help...

select

dist

draw

-

Quit

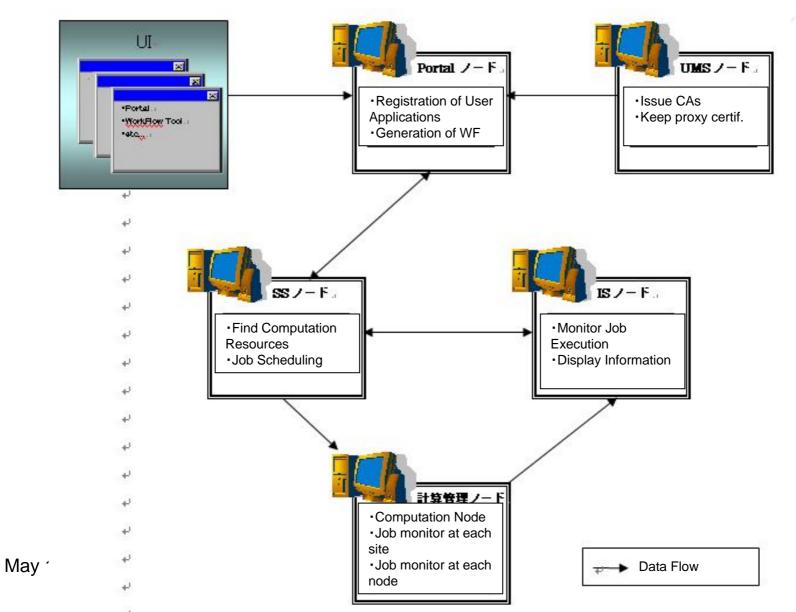
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A.

Introduction of the NaReGi middleware into JVO

- NaReGi middleware version β 1.0.2
- Trial introduction into the Subaru Grid pipeline
 A part of middleware deployment program by the NII
- To evaluate how easy it is to use the middleware
- To find which components may be used for Virtual Observatories
 - SSO, Apps interface, and so on

NAREGI Grid environment



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Requests to Improve

- Items to be improved toward version 1.0
 - Make it easier to install
 - Make it much faster to install
 - Need to support OSs other than RHEL
 - and so on
- DONE ! May 16, through Telecon These requests were reflected to the modified road map of NaReGi.

Good Findings

- Good Graphical WF builder
 - Plan to import to the JVO system
 - Maybe referred to by the IVOA

