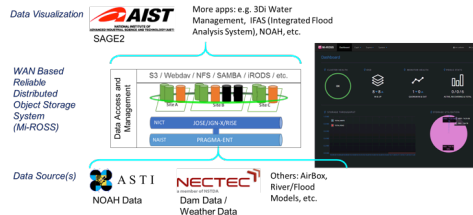


Reports from Resources WG

Philip Papadopoulos (UCSC)

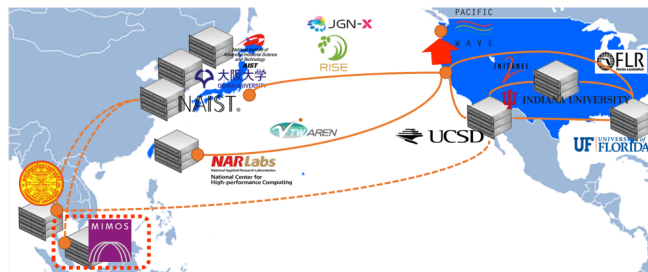
Yoshio Tanaka (AIST)

Integration of many “threads” of activity



**Software Defined Storage
+ Visualization**

PerfSONAR

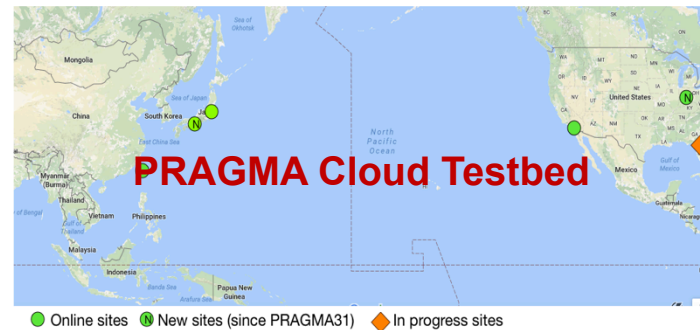


PRAGMA-ENT

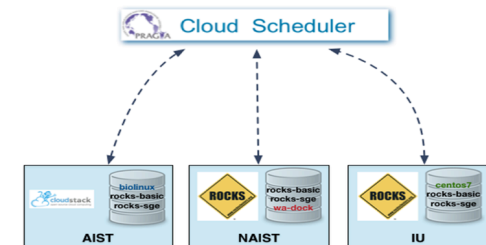


AirBox

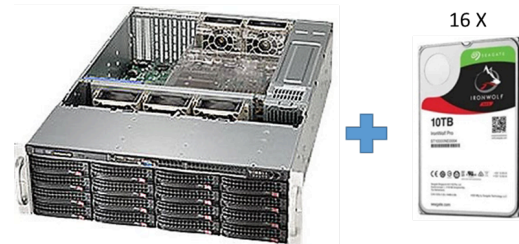
GRAPLER lake modeling



Cloud Scheduler



PRAGMA Clusters



PRAGMA Storage



GPU

PRAGMA Cloud: Goals for PRAGMA 33

- Integrate Thammasat Cloud Scheduler GUI
- Finish Clonezilla repository integration with different drivers (e.g., Cloudstack)
- Add Openstack PRAGMA Boot driver
- UCSD will add GPU nodes.
- Finish PRAGMA-ENT integration and add more resources
 - Add resources from AIST and NCHC
 - Finish integration of University of Florida
 - Add UCSD Rockstar resource
- More applications
 - GRAPLEr lake modeling
 - Airbox virtual cluster image (CENTRA)

PRAGMA Cloud Storage

- Prepare 160TB S3 enabled storage
 - UCSD, AIST, UF (minimum). NICT (JOSE), (possibly NCHC)
 - Store data (e.g. AirBox)
 - Integrate with PRAGMA-ENT
 - Evaluate performance.
 - Nakagawa-san's experiments on PRAGMA Cloud Storage and demo @ PRAGMA33.
 - UCSD will figure out appropriate S3 software.
 - Need to consider Simple ID management.

Lifemapper: Research Projects

- **PRAGMA 33: NA flora/Comet** project (Charlie)
 - Work with SDSC to request enough Comet resources for Charlie job
 - Nadya and Aimee debug Comet job workflow, storage (June/July)
 - Nadya and Aimee complete computations **by PRAGMA 33**
- **PRAGMA 33: Taiwan** instance
 - Work with Fang Pang to find interested Taiwanese researchers
 - Aimee assemble high resolution environmental data, Taiwanese species occurrence data
 - Work with Taiwanese researchers to define biogeographic hypotheses
 - Nadya and Aimee travel to NCHC to deploy on OpenStack at NCHC (**July/Aug 2017**)
 - Queryable dataset by PRAGMA 33

Life Mapper: New Technologies

- **PRAGMA 33: SAGE2 Visualization**

- Work with Jason Leigh lab and other PRAGMA SAGE sites to install hardware and software at Kansas
- Send LM programmer to work with Dylan Kobayashi at either Hawaii (May) or AIST (July)
- Work with Dylan and Jason to create visualization tools for Global PAM or subsetting outputs, linked spaces in a browser (late summer 2017)
- Small demo by PRAGMA 33

- **PRAGMA 33: PID proof-of-concept**

- Work with IU to define data types and metadata/provenance to capture
- Work with IU to create PIDs and catalog Taiwan-data PAM, metadata and related data types (no services)
- Discuss results at PRAGMA 33

Life Mapper: Outreach/broaden community

- Develop session at PRAGMA 33 / eResearch Australasia on Lifemapper, to recruit biodiversity researchers from Australia to participate.
- Organize workshop of like-minded researchers looking to understand species along west coast of north and south America. (P Soltis)

Human resources

- Phil and Yoshio will step down from co-chairs.
- Will identify new co-chairs in few months.