# Who is TPAC?

- Tasmanian Partnership for Advanced Computing
   Partner in APAC (Australian Partnership for Advanced Computing)
   Expertise centre for Earth Systems Science (ESS)
   Provides expertise & educational programs, as well as HPC facilities
- Located at University of Tasmania, Hobart
- Partnership between:

University of Tasmania CSIRO Atmospheric Research CSIRO Marine Research Australian Maritime College

Australian Antarctic Division Antarctic Climate & Ecosystems CRC

Bureau of Met. Research Centre



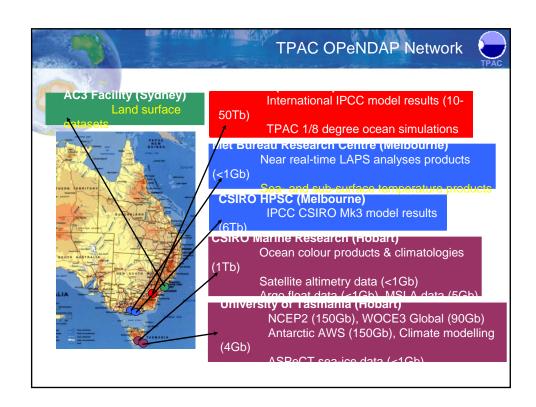


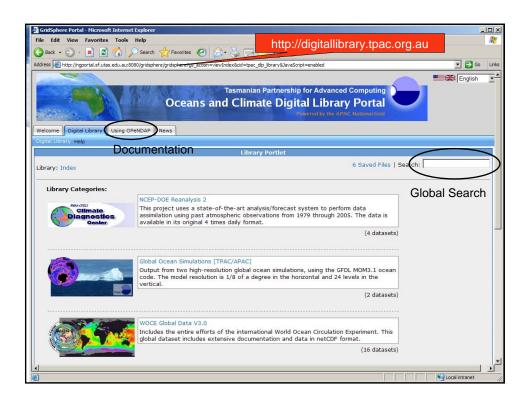


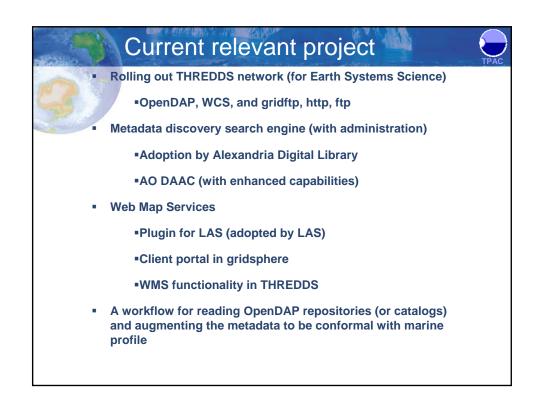


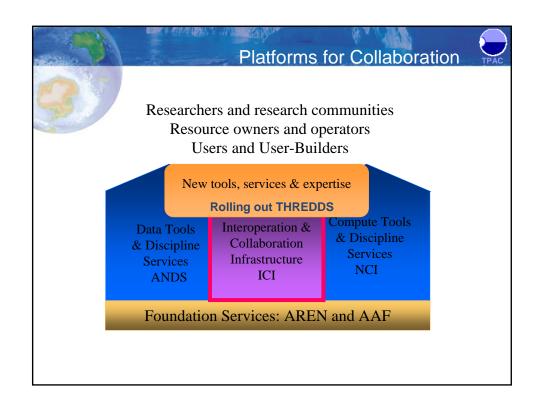


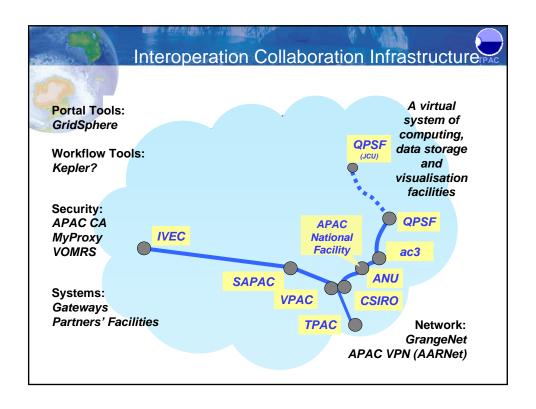












# ICI activities



Operational aspect -

- Information, Portals & Collaboration Services
- Data management and Data Transport Services
- Job submission, Gateway VMs, AAA
- Help desk

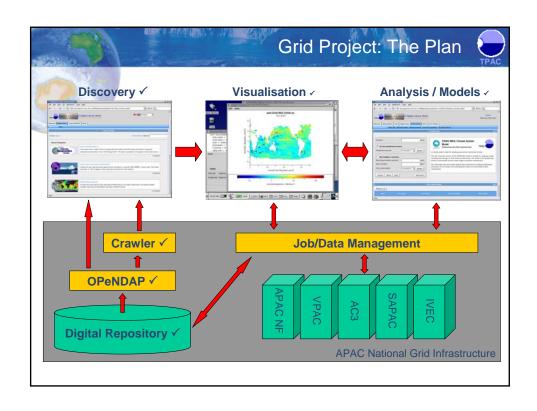
Development aspect -

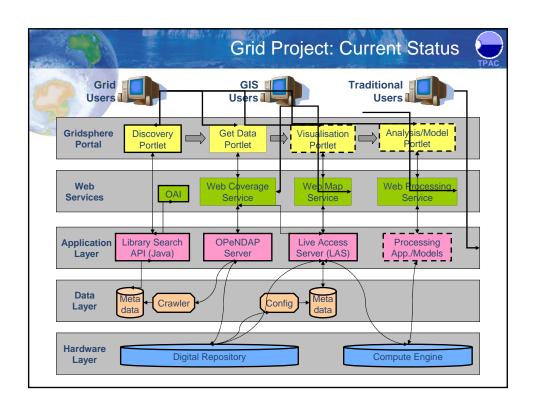
- Next generation tools and services
- NEAT determined

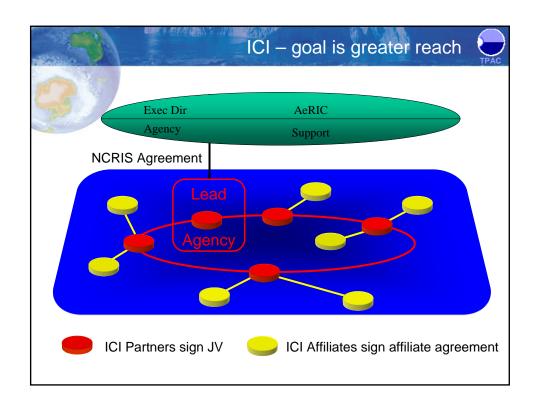
### Opportunities with ICI and ANDS

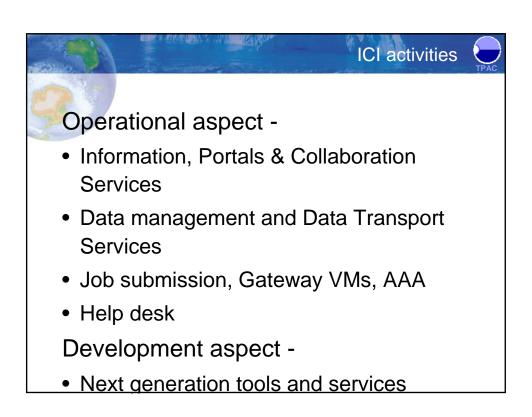


- PfC must support NCRIS streams (ie IMOS)
- ICI is operational (and funded June 2007, UJV)
  - ICI infrastructure (TPAC, IVEC, QCIF hosting data)
  - Affiliation with ICI partners
- NEAT
  - Approximately 56 EFT's to deliver applications to solve problems eg related to MEST's, portals, servlets, inclusion of legacy data, federations and virtual file systems, ontologies.
  - Projects, carried out by ANDS and ICI staff with durations of 1, 2 years, and with ~2-4 eft's
  - 6 monthly milestones





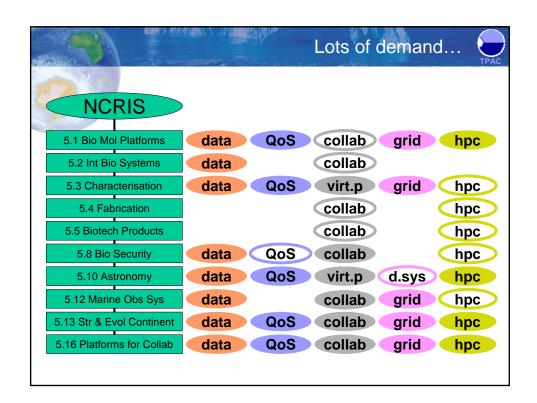


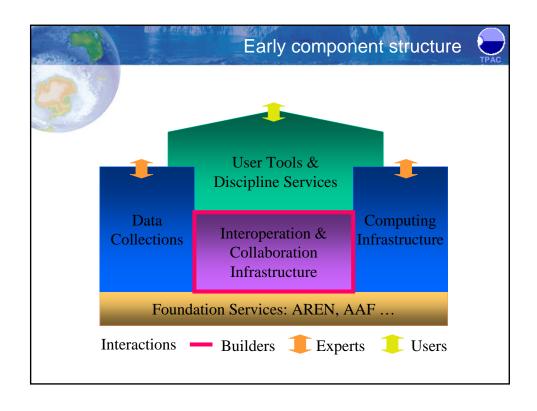


## Platforms for Collaboration



- Data access and discovery, storage and management
- Grid enabled technologies and infrastructures
- Technical expertise
- High performance computing
- High capacity communication





# \*Data and Collaboration" opportunities (TPAC+partners) Australian Model simulations and related data (ICI) accessible to researchers Development of tools related to data (ICI+ANDS) Free movement of data nationally and internationally (ICI) Eg IPCC, ECCO, SODA, SOPHOCLES, NCASS, Cape Grim, other simulations (ENACT) Analysis Tools (on ICI infrastructure) Other NCRIS platforms IMOS (eg data, and data discovery and access) TERN + BLUENET Collaboration services (Wiki's, code repositories,