

# AVH Trust funding proposal

*Complete the web based APC/APNI user interface to a stage where it is possible to the migrate APNI/APC content, functionality, work flows and the public interfaces to the new application environment.*

## Deliverables

- A functional APNI/APC application
- Data migrated and tested
- APNI/APC project activity migrated
- Web interfaces migrated and deployed
- Census development and maintenance implemented
- An APNI/APC development roadmap
- Project reports - mid-term & completion.

## Background

APNI/APC provides infrastructure and content essential to the operation of AVH.

The existing APNI/APC content management and web delivery systems are 20 years old.

- Technology will become obsolete 2014-2017
- Some already have difficulties supporting Java versions required.
- Maintenance is becoming expensive

The new interface is based on ALA funded National Species List (NSL) infrastructure.

The new application presents a powerful web based editor for the maintenance of APNI/APC content.

It provides for creation and maintenance of:

- Nomenclatural events
- Bibliographic content and linking
- Taxonomic instances
- Taxon profile overlays
- A persistent classification framework
- APC

Significant progress made already with ALA and CANB/IBIS support:

- Mature data model.
- Test dataset migrated

- NSL services migrated
- APNI/APC services migrated
- Nomenclatural events
- Bibliographic content and linking
- Taxonomic instances
- Back-end tree services

The application is designed for collaborative and community editing of names, concepts, profiles and the creation and maintenance of (virtual) checklists and classifications - de novo or derivative using copy, graft and prune operations over the Australian Plant Census.

It will provide essential infrastructure for the production of a state or regional census or used as the basis for checklist and flora development.

The user interface is 3-4 months of development and testing from the level of usability required for migration of a working APNI/APC to the new data model.

#### **Work required:**

- Incorporation of user authentication and authorisation modules.
- Integration of the tree manager for APC assignment and version control
- Completion of the basic taxon profile editor.
- Asynchronous support for long running queries
- Keyboard navigation
- Final data migration and testing
- Must have user refinements.
- Cut-over and user acceptance

#### **Estimated project cost:**

In-kind contribution from CANB & ABRS:

- Project management
- Architectural oversight
- Database and system services
- Data migration , cleaning and testing
- User acceptance testing and quality assurance
- Workplace facilities, and personnel services
- 350 hours

Application development and testing:

- 580 hours @ \$100.00/hour = \$58,000.00
- 400 ruby/rails/html5/sql
- 180 java/xml/rdf/sql

. Work to be interleaved with ANBG web and AFD projects to allow for punctuated, iterative development and containment of costs.

**Proposal**

That the AVH trust contribute \$58,000.00 for a deployed APNI/APC replacement.