

### Thematic Areas – *Science Needs*

- (2) Aquatic
- (3) Cave/Kart and Minelands
- (4) Wetlands
- (5) Forest
- (6) Openlands
- (7) Working Lands
- (8) Human Dimensions (*incl. Env. Services/Env. Benefits*)
- (9) Climate Change
  
- (1) [ IT and Information Management – separate process / contract ]

### Portfolio Outline – *Standardized Structure*

Thematic Area [Mission: (*science objective*) (*management objective*)]

**A. Heading: Regional Level**

- 1. Program: Large-scale Disturbance & System-level Response

**B. Heading: Human Dimensions**

- 2. Program: Social Component

**C. Heading: System Level**

- 3. Program: Ecological Function of Managed/Human-Altered Systems
- 4. Program: Ecological Function of Natural/Intact Systems

**D. Heading: Community Level**

- 5. Program: Community-level (*description and function or basic comm. ecology*)

**E. Heading: Species/Population Level**

- 6. Program: Basic Biological Understanding (*species/population - biology*)

**F. Heading: "How (the LCC) Should Do Business"**

- Notes

## Portfolio Outline – Standardized Structure

Thematic Area [Mission: (*science objective*) (*management objective*)]

### A. Heading: Regional Level

1. Program: Large-scale Disturbance & System-level Response
  - (Grouping) – *Foundational/Stock-taking Assessment/Classification System*
  - (Grouping) – *Climate Change Science and abiotic or mechanical aspects*
  - (Grouping) – *Climate Change Impacts on Ecological Function and Response to Changes*
  - (Grouping) – *Energy and Related Infrastructure and Roads*
  - (Grouping) – *Urbanization, Population Growth and (Domestic or Industrial) Water Demands*
  - (Grouping) – *Agricultural Expansion and (Ag-related) Water Demands*
  - (Grouping) – *Effects of Air Pollution*
  - (Grouping) – *Cumulative Impacts*

### B. Heading: Human Dimensions

2. Program: Social Component
  - (Grouping) – *Value/Ecosystem Services and Conflict*
  - (Grouping) – *Recreational, Commercial, Subsistence Use*

### C. Heading: System Level

3. Program: Ecological Function of Managed/Human-Altered Systems
  - (Grouping) – *Foundational/Stock-taking Assessment/Classification System*
  - (Grouping) – *Barriers (flows and species movement)*
  - (Grouping) – *Mitigating Ag and Forestry Impacts*
  - (Grouping) – *Protection & Restoration Approaches*

## Portfolio Outline – Standardized Structure

Thematic Area [Mission: (*science objective*) (*management objective*)]

### C. Heading: System Level

4. Program: Ecological Function of Natural/Intact Systems
  - (Grouping) – *Foundational/Stock-taking Assessment/Classification System*
  - (Grouping) – *Effects of Fire on Ecosystems*
  - (Grouping) – *Relationship/ Ecological flows and Nutrient dynamics*
  - (Grouping) – *Ecosystem Integrity / Resiliency*

### D. Heading: Community Level

5. Program: Community-level (*description and function or basic comm. ecology*)
  - (Grouping) – *Basic Ecology/Ecological Relationships*

### E. Heading: Species/Population Level

6. Program: Basic Biological Understanding (*species/population - biology*)
  - (Grouping) – *Basic Biological Information*
  - (Grouping) – *At-Risk Species/Populations & Endemics*
  - (Grouping) – *Contaminants/Pollutants Effects on Species/Populations*
  - (Grouping) – *Invasive organisms effect on species and populations*
  - (Grouping) – *Effects of Disease (on a species or taxonomic group)*

### F. Heading: “How (the LCC) Should Do Business”

- Notes