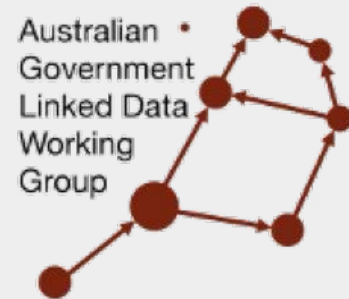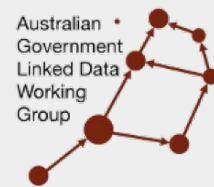# Intro to the proposed PID Catalogue/Registry tool

By Nicholas Car
For AGLDWG, April 2025 Monthly Meeting
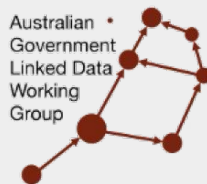
# Outline

1. Current tool problems

2. Proposed solution - conceptual

3. Solution demo

4. Next steps

Australian
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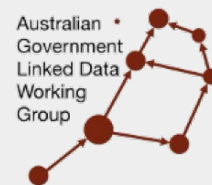Linked Data
Working
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# Current tool problems

- Register and redirect config are separate
    - Not automatically kept in sync
    - Lots of disjoints found for this work

- Register cannot notify Control Body
    - No email support

- Register software unsupported
    - ARDC have no other instances of Drupal
    - ARDC cannot allow tool updates, which are sorely needed

- Register contents not available as Linked Data
    - Reputational issue for AGLDWG

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# Proposed solution - conceptual

- A joint Register and redirect source code repository
  - Redirect service (web server) will not change but the supply of config to it will

- A Linked Data-based solution
  - RDF Database

- Notifications facilitated through GitHub workflows and notifications

- Common software used
  - GitHub
  - Prez Linked Data API

- Publication of Register content via Linked Data API software

Australian
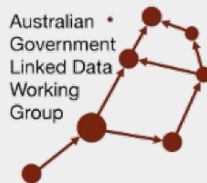Government
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# Solution demo

- PID Register data source repository:
  - [https://github.com/AGLDWG/pid-register](https://github.com/AGLDWG/pid-register)

- PID & Org catalogue online in demo system:
  - [https://demo.dev.kurrawong.ai/catalogs](https://demo.dev.kurrawong.ai/catalogs)

PIDs by Sponsor
[https://demo.dev.kurrawong.ai/sparql](https://demo.dev.kurrawong.ai/sparql)

```
PREFIX schema: <https://schema.org/>
PREFIX pid: <https://linked.data.gov.au/def/pid/>

SELECT *
WHERE {
  ?pid
        a pid:PID ;
        schema:name ?name ;
        schema:sponsor ?sponsor ;
    .

  ?sponsor schema:name ?sname .
}
ORDER BY ?sponsor ?name
```

# Next steps

- Final data checks of catalogues' content - April

- System test on a stand-alone Prez system - April

- **Approval from AGLDWG members required - May meeting**

- **Approval from ARDC required - May**

- Development of workflows - June
  - PID request workflow
  - DB to conf file workflow

- Development of resolution testing - June
  - For further PID cleanup
  - Extending on previous work

- Development of PID allocation API - by July