



**Name:** Lesley Arnold

**Current Position:** Associate

**Key skills:** Spatial Data Infrastructures  
Strategic and action planning, policy frameworks  
Change Management and institutional reform  
Supply chain management  
Capacity building  
Cartography

## Profile

Dr Arnold is an independent consultant specialising in Spatial Data Infrastructures. Her career has progressed through a variety of roles from Cartographer to Principal Consultant and Director within leading SDI and geospatial organisations in Australia.

Lesley has many years' experience of Strategies and Action Plans for Strengthening Geospatial Information in Australia, Vietnam, Sri Lanka, Indonesia, Singapore, Fiji, Nepal, Tonga, Mongolia, Burkina Faso and Ethiopia.

Throughout her time at Landgate, Western Australia, (1984 to 2005) Lesley studied for her BSc in Cartography (First Class Honours), and latterly, a PhD in Spatial Science; her thesis beings: Dynamic Spatial Updating - A Centralised Scale-independent Approach to Spatial Data Management and Thematic Map Revision.

## Professional Experience

**2013 - 2020**                      **Geospatial Frameworks**  
**Principal Consultant, then Director**

Independent consultant specialising in Spatial Data Infrastructures including the development of strategies and action plans, policy frameworks, change management, institutional reform, supply chain management, and capacity building.

United Nations Integrated Geospatial Information Framework (IGIF) Parts 1 and 2, first author Strategic Pathways 1, 4, 5, 7, 8 and 9; and second author, Strategic Pathways 2, 3 and 6.

World Bank Online Learning Centre (OLC): three self-paced training modules for Strengthening Integrated Geospatial Information Management: Using the Integrated Geospatial Information Framework: (1) The Value of Geospatial Information; (2) Introducing the Framework; and (3) Solving the Puzzle: Understanding the Implementation Guide.



**2014 - 2018**                      **Cooperative Research Centre for Spatial Information (CRCSI)**  
**Senior Research Fellow**

Research: Next Generation Spatial Knowledge Infrastructure in the context of knowledge on-demand through machine-readable linked data, knowledge inferencing and semantic interoperability.

Research: Spatial Information Supply Chain Framework and Model based on Semantic Web Technologies to manage data complexity and create sustainable solutions by automating the supply chains from upstream to downstream activities.

**2009 - 2012**                      **Landgate, Western Australia**  
**Director, Location Knowledge Services**

Strategic and operational management of Western Australia's fundamental geographic data themes and the delivery of location-based products and services through the online Shared Location Information Platform.

Responsible for online property reports, topographic data, geographic names, street addressing, aerial photography, native title mapping, thematic atlases and map product, satellite remote sensing applications and cross-agency projects in location-based applications and systems.

**2008 - 2009**                      **Western Australian Land Information System (WALIS)**  
**Acting Director**

Responsible for directing, controlling and coordinating the Spatial Data Infrastructure Program for Western Australia; promoting effective relationships between government agencies and industry, with an emphasis on the Health and marine portfolios, development of data sharing-related policies, and whole-of-government adoption of Creative Commons copyright for spatial datasets.

**2005 - 2007**                      **Landgate, Western Australia**  
**Project Manager**

Responsible for spatial data and system improvement projects namely: Integration of Topographic and Geographic Naming databases, rationalization and integration of multiple street address systems into a single source of truth, development of 'Land Online' e-commerce system for spatial data, and the development of an integrated data model for geographic 'Features of Interest'.

**1984 - 2001**                      **Landgate, Western Australia**  
**Cartographer to Supervisor**

Various roles responsible for the production and dissemination of geographic information - thematic, cadastral and valuation mapping, and imagery services.



## Qualifications

- 2006 PRINCE2 Practitioner - Adaptive Frameworks, Perth, Western Australia
- 2002 - 2005 Doctor of Philosophy, Spatial Science. Curtin University of Technology, Western Australia
- 1987 - 1996 BSc (First Class Honours) Cartography. Curtin University of Technology, Western Australia
- 1984 - 1986 Diploma of Cartography, Wembley Technical College, Western Australia

## Awards

- 2006 D.B Johnston Award for Excellence  
Awarded by the Surveying and Spatial Sciences Institute (SSSI) Australia for excellence in Postgraduate Studies in Spatial Sciences.
- 1996 NS Bartlett Memorial Award for the Dux of the Bachelor of Science Cartography - awarded by Mapping Sciences Institute, Australia (MSIA)
- 1996 John Balodis Medallion for the Dux of the Bachelor of Science Cartography awarded by School of Spatial Sciences, Curtin University of Technology, Western Australia

**CV last updated: September 2020**