

### Abstract Form

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<b>Presenting author/s</b>	<ul style="list-style-type: none"> <li>• <b>Richard Walton – Manager, Cancer Information and Analytics/Bio-statistician</b></li> <li>• <b>Jamie Gabriel – Data Governance Manager</b></li> <li>• <b>Jeffrey Truong - Data Scientist, Cancer Information and Analysis</b></li> <li>• <b>Sheetal Challam – Multicultural Community Liaison</b></li> </ul>
<b>Organisation</b>	<b>Cancer Institute NSW</b>

**Title of abstract:** Cancer Institute NSW Multicultural Data App

**Authors:** Sheetal Challam – Multicultural Community Liaison

**Background:**

Cancer Institute NSW, through the NSW Cancer Plan, has a particular focus on improving cancer outcomes for culturally and linguistically diverse (CALD) communities. To facilitate this, the Institute commissioned an app that provides geo-demographic data on CALD communities (based on Australian Bureau of Statistics Census data) across local government areas and health districts. The app provides essential insights that assist in the delivery of culturally safe programs across the Institute,

**Aims:**

The Cancer Institute’s Multicultural Data App includes –

1. Profiles of top 50 Languages and Country of Birth, by sex, overlapping age groups, and number of each age group speaking the selected language (LHDs and Local Government Areas in NSW);
2. Trial population weighted average SEIFA (Index of Advantage/Disadvantage) score for each language group;
3. Age groups, and area selections broken down by Ancestry;

4. Narrative analysis for each language group from the top 20 languages for NSW (excluding English) as relevant to Institute's cervical, breast and bowel screening programs with a brief textual summary;
5. Assumed growth rates due to births and migration, an estimate of the number of people in the top 20 language groups in the 50-74 age range (up until 2026); and
6. Indigenous profile for NSW.

**Method:**

This will be a hands-on interactive workshop where attendees will get to explore the multicultural diversity of NSW through a data visualization app

27.6 percent of the NSW population is born overseas and nearly half the population is either born overseas or has a parent born overseas (2016 ABS data).

The workshop will allow participants to understand the cultural diversity of NSW and the way it will change over time with the current rates of migration. The information can be used for a variety of purposes including policy, program and service development, research and for general interest.

**Results:**

This app showcases an innovative web approach that can be adopted to rapidly develop interactive user experiences, that is increasingly typical of modern data science approaches. It also demonstrates how the Institute can leverage internal expertise to add value to planning practices that inform cancer monitoring and control planning, as well as to the analytics community more generally.

**Implications that impact on your project:**

The app allows the Institute to appropriately plan services that are evidence based through understand of the demographics. The availability of the app to the Institute's external partners will influence local service delivery across the cancer spectrum, and therefore improve cancer outcomes of multicultural communities.