Agenda

- Part 1: Data Skills in Academic Environments
- Part 2: Data Skills in Corporate and Specialized Environments
- Part 3: Data Skills in Public Libraries
Academic Libraries

Where it all began …

• Academic and research institutions
• Leaders in Canada:
  • Laine Ruus @ UTOronto
  • Wendy Watkins, Ernie Boyko @ Carleton
  • Chuck Humphrey @ UAlberta

• Data types:
  • Numerical
  • Text
  • Images
  • Maps
  • Multi-media
Academic Librarianship

Evolving Practice

- Data Reference Service
  - Statistics Canada, public and private data sources
- Research Data Management
  - Preservation, Publishing
  - Scholarly Communication
- Skills
  - Accessing a wide variety of systems where data reside
  - Procuring data, negotiating contracts
  - Working with students and researchers, and their data
  - Various degrees of analysis depending on service model and student/researcher needs
  - Research skills
Corporate & Special Libraries

Skills & Practice

Corporate:
• Market Research
• Competitive Intelligent
• Content Management
• Knowledge Management

Gov’t:
• Open Data Initiatives
• Policy Development

Skills
• Data interpretation
• Trend analysis
• Contextualization & Meaning
• Data Visualization
Public Libraries

Demonstrating Outcomes & Informing Practice

- Data from multiple systems – many are proprietary
  - Library systems, municipal, census, proprietary
- Establishing metrics / measures
- Trends – what are the data telling us?
- Planning – programs, space, services, open hours
- Program evaluation using qualitative & quantitative (mixed) methods
- Interpretation, contextualization, visualization
- Reporting
Data Skills

For every kind of information environment

Small to medium data sets
- Excel
- Filtering, formulas, pivot tables, charts, macros

Big(ger) Data, complex calculations
- SPSS, Stata, SAS, R

Visualization
- PowerBI, Tableau, ArcGIS, Google Data Studio
- Many others
Questions & Discussion
Thank You

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