

# A sea of 'parliamentary big data': collaborative approaches to its navigation by the Australian Parliamentary Library Research Service

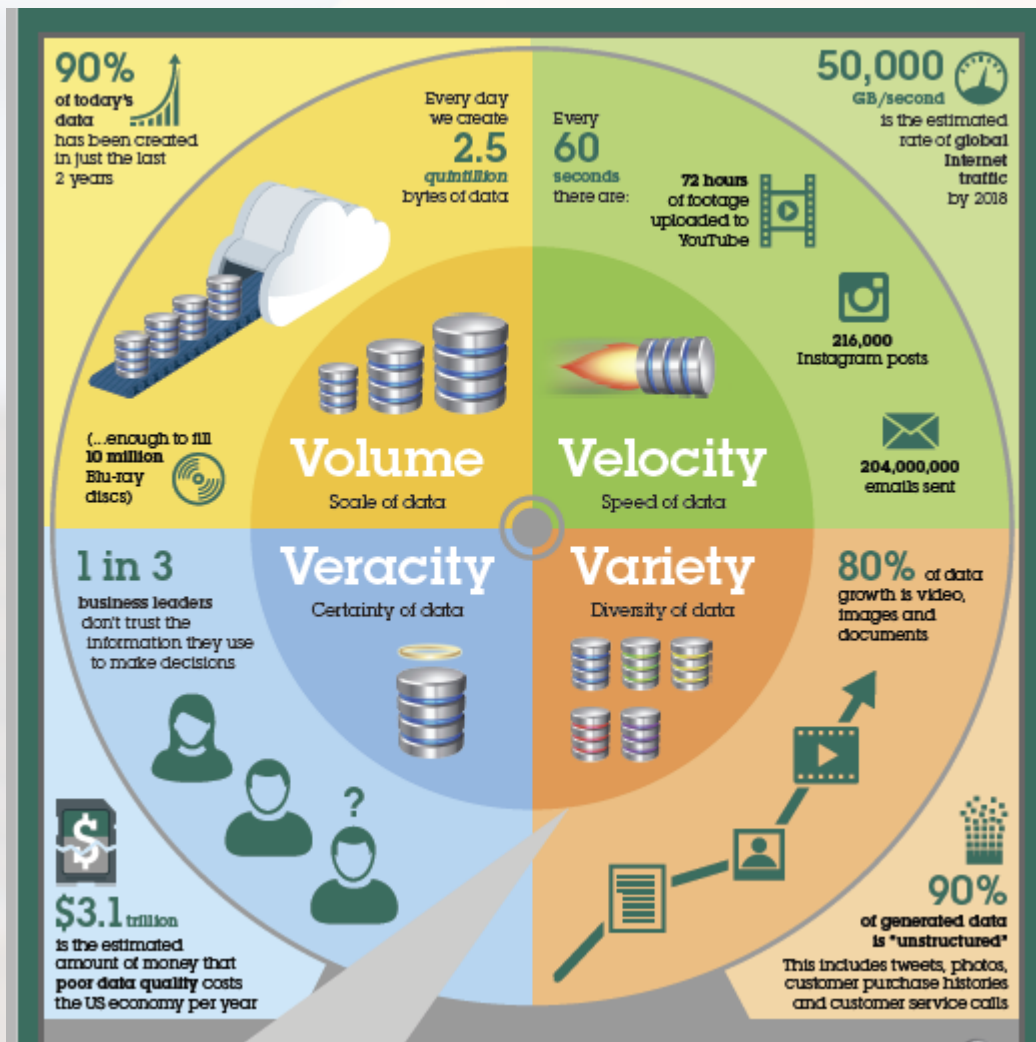
Catherine Lorimer, Senior Law Librarian,  
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Parliamentary Library



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Extracting business value from the 4 V's of big data (IBM)  
<http://www.ibmbigdatahub.com/infographic/extracting-business-value-4-vs-big-data>



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**The fifth "V"?**

Big data = the ability to achieve greater **Value** through insights from superior analytics

**Case study:** A US-based aircraft engine manufacturer now uses analytics to predict engine events that lead to costly airline disruptions, with 97% accuracy. If this prediction capability had been available in the previous year, it would have saved \$63 million.



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# Wordle of APH website



# Examples of 'Parliamentary Big Data'

## Public Data

- Hansard
- Notice Papers
- Votes and Proceedings
- Broadcasts of Parliamentary proceedings
- Parliamentary Committee reports
- Public Submissions to Committee Inquiries
- Media releases and press conferences
- Petitions



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# Examples of 'Parliamentary Big Data' continued...

## Private Data

- Personal correspondence, emails, tweets
- Minutes of meetings
- Appointment diaries
- Constituent correspondence
- Cabinet documents
- Departmental briefings



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# Australian Parliamentary Research Branch

- Economics
- Foreign Affairs, Defence and Security
- Law and Bills Digest
- Politics and Public Administration
- Science, Technology, Environment and Resources
- Social Policy
- Statistics and Mapping



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**Search**

Search

**Step 1: Search Collections**

- All Parliamentary Collections
- All Parliamentary Collections and External Media Resources
- My Profile List of selected Collections All Parliamentary Collections ▾
- One or More Parliamentary Collections (Click [Q](#) to browse a subcollection)

- House of Representatives**
  - Members [Q](#)
  - Chamber Documents
    - Daily Program [Q](#)
    - Notice Papers [Q](#)
    - Votes and Proceedings [Q](#)
    - Hansard [Q](#)
    - This week in the House [Q](#)
    - Last week in the House [Q](#)
  - Procedural Documents
    - House of Reps Practice [Q](#)
    - Standing Orders [Q](#)
    - Other Documents [Q](#)
  - ParView (audio-visual records) [Q](#)
- Committees**
  - Reports
    - Senate [Q](#)
    - House of Representatives [Q](#)
    - Joint [Q](#)
  - Hansard Transcripts
    - Senate (Including Estimates Reports) [Q](#)
    - House of Representatives [Q](#)
    - Joint [Q](#)
    - Estimates (Excluding Estimates Reports) [Q](#)
  - ParView (audio-visual records)
    - Senate (Including Estimates) [Q](#)
    - House of Representatives [Q](#)
    - Joint [Q](#)
- Media**
  - Press Releases [Q](#)
  - Newspaper Clippings [Q](#)
  - Radio and TV [Q](#)
  - ParView (audio-visual records) [Q](#)
- Library**
  - Catalogue [Q](#)
  - Articles [Q](#)
  - Political Party Documents [Q](#)
  - History of the Federal Capital and Parliament House [Q](#)
- Senate**
  - Senators [Q](#)
  - Chamber Documents
    - Order of Business (the 'Red') [Q](#)
    - Notice Papers [Q](#)
    - Journals [Q](#)
    - Hansard [Q](#)
    - Senate Daily Summary [Q](#)
  - Procedural Documents
    - Odgers' Australian Senate Practice [Q](#)
    - Standing Orders [Q](#)
    - Procedural Information Bulletins [Q](#)
    - Guides to Procedure [Q](#)
  - ParView (audio-visual records) [Q](#)
- Bills and Legislation**
  - Bills of the Current Parliament
    - Bills of Previous Parliaments [Q](#)
    - Bills Digests [Q](#)
    - Bills Lists [Q](#)
    - House Disallowable Instruments Lists [Q](#)
    - Senate Disallowable Instruments Lists [Q](#)
    - Tariff Proposals [Q](#)
  - Links
    - [Commonwealth Legislation \(Federal Register of Legislation\)](#)
    - [How to get print copies](#)
    - [Proposed Legislation \(PM&C\)](#)
- Constitution**
  - Australia Constitution [Q](#)
  - 1890s Federal Conventions [Q](#)
  - Australia Act 1986 [Q](#)
  - Statute of Westminster [Q](#)
- Publications**
  - Senate Publications [Q](#)
  - House of Representatives Publications [Q](#)
  - Tabled Papers Register [Q](#)
  - Parliamentary Papers Series [Q](#)
  - Library Publications, Seminars and Lectures [Q](#)
  - Parliamentary Handbook
    - Biographies [Q](#)
    - Current Parliament [Q](#)
    - Previous Parliaments [Q](#)
  - Budget Papers [Q](#)
  - Education [Q](#)

**Step 2 (Optional): Search Parameters**

**Search Fields**

Search for  in  ▾  
 using  ▾

Search for  in  ▾  
 using  ▾

Search for  in  ▾  
 using  ▾

Thesaurus [Click for Subject search](#)

**Date Options**

Please enter dates in the format dd/mm/yyyy

From

To

Predefined Date  ▾

**Results Options**

Results per Page  ▾

Order by  ▾



## Number of public submissions to Parliamentary Committee Inquiries-examples

- Racial Discrimination Amendment Bill 1992-646 submissions
- Aircraft noise in Sydney (1995)-5,200 submissions
- Euthanasia Laws Bill 1996-over 12,000 submissions
- Child custody arrangements (2003)-over 1,700 submissions
- Marriage Equality Bills (2012)-over 276,000 responses to an online survey, including over 213,000 general comments, plus a further 2,300 written responses.



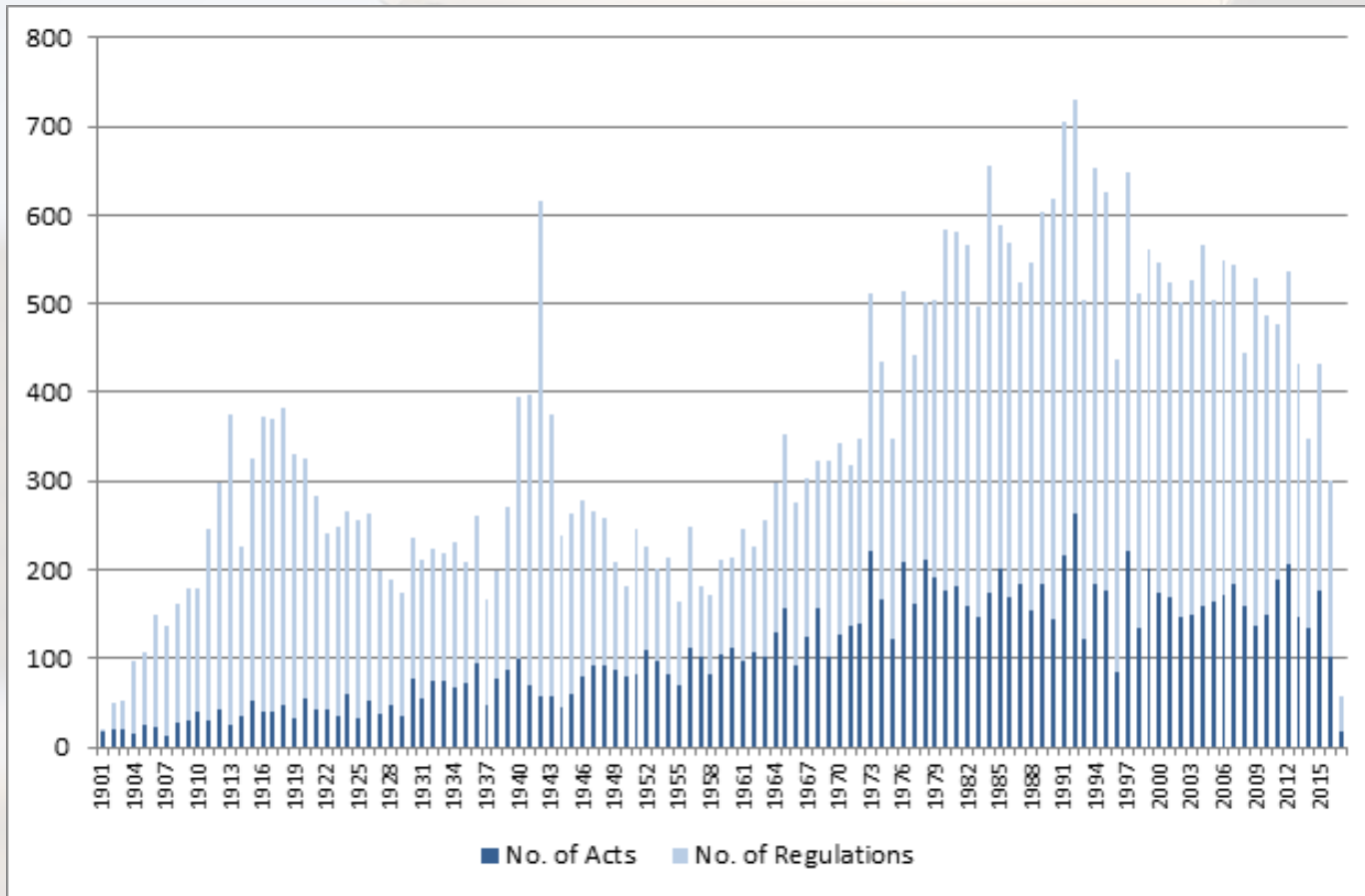
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# Law and Bills Digest Section Commonwealth Legislation passed since 1901



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# Collaboration

- Within the Research Branch
- With Parliamentary Committees
- With State and Territory Parliamentary Libraries
- With international Parliamentary Libraries
- With external experts



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## Future directions

- Data mining software
- Visual data analytics
- Further develop networks with colleagues



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