

Introduction to linked data

# Data, Applications and Users



# Thinking 'downstream'

- **Data Discovery**
  - Metadata catalogs
  - Crawlers and registries...
- **Supporting Users**
  - data model and API documentation
  - build a self supporting community
- **Access**
  - Direct URI access
  - SPARQL Access
  - Applications and Widgets
- **Format's**
  - RDF/XML, Turtle, XML, CSV, JSON, JSON-LD

# Consuming Data

**Bathing Water Data Explorer**

Powered by Ordnance Survey

meets the higher standard  
meets the minimum standard  
fails to meet the minimum standard

© Crown copyright and database rights 2014 Ordnance Survey.

creating a better place



**Good Beach Guide**  
because clean seas mean great beaches

**Great British BEACH CLEAN**

**Woolacombe Village**  
Woolacombe, Devon

**MCS Recommended**

**Water quality**

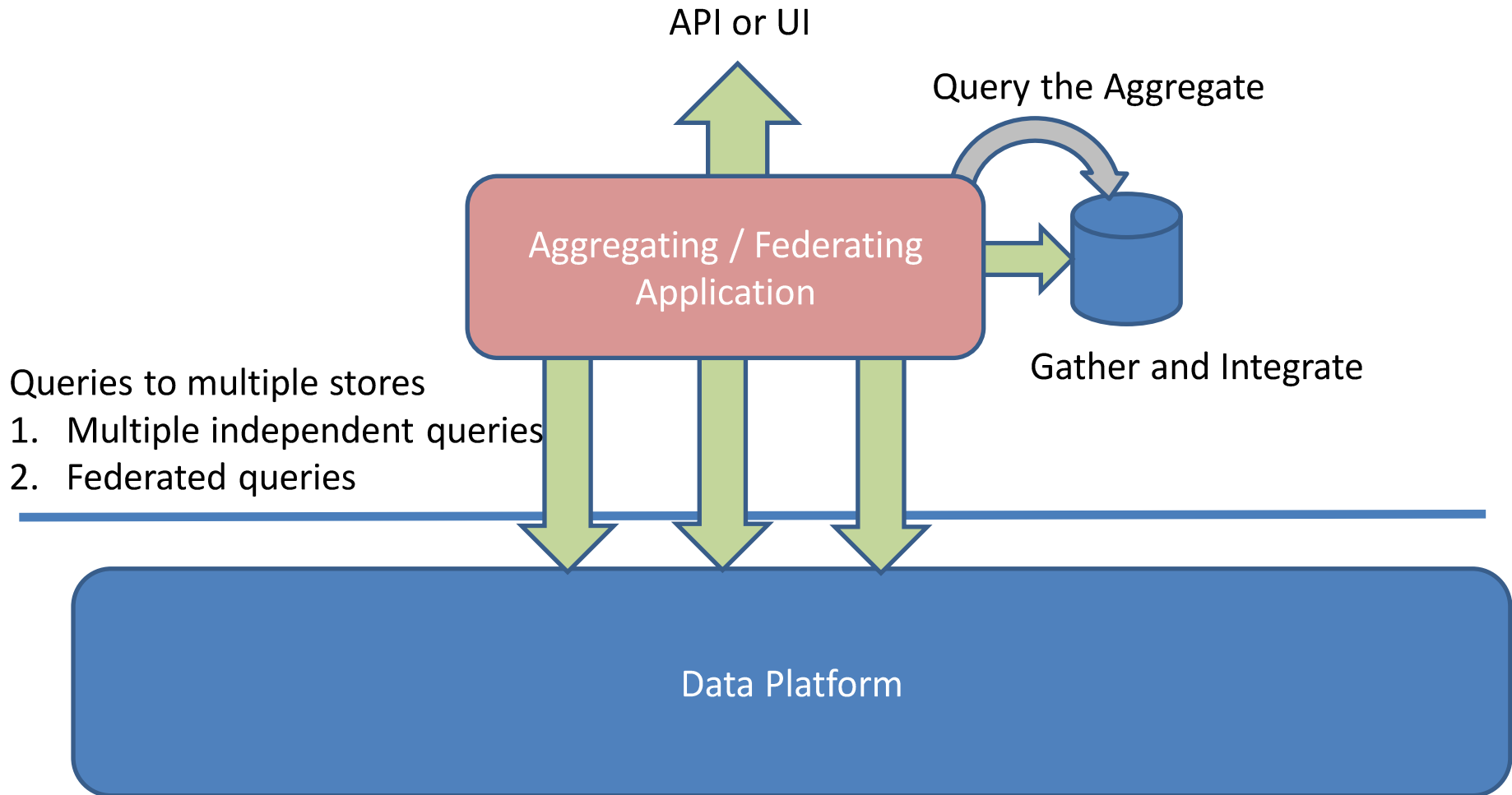
Year	Quality
2009	Higher
2010	Higher
2011	Higher
2012	Higher
2013	Higher
2014 (predicted)	No prediction

Information provided by Environment Agency. We use this data to produce our water quality information but our results use information from the previous year, so our results for 2014 are the same as the Environment Agency's results for 2013.

Data Platform

# Consuming Data

Aggregation and Federation



# Discussion

- Open Data / Linked Data
  - Why?
- Who are the likely users of your data?
  - What do you want them to be able to do with your data?
  - How do you plan to support them? Do you?
  - What commitments are you making to them?
    - Longevity, means of access, 'freshness'...
  - Data Licensing (next slide)
- What are the challenges for you in supporting them using your data?

# Licensing

- Intellectual Property Rights
  - Copyright – creative works (eg. Web content)
  - [Database Rights](#) (EU and Mexico)
- Open Licence – only two sorts of restriction allowed
  - Attribution
  - Share-alike wrt derivative works
    - Specifically **no** other limitations on usage (Commercial or otherwise).
- ODI recommend Creative Commons 4.0 Licence for both Content and Data
  - CC-BY 4.0
  - CC-BY-SA 4.0
- More Guidance
  - <https://theodi.org/guides/publishers-guide-open-data-licensing>
  - <https://theodi.org/guides/reusers-guide-open-data-licensing>
  - <http://opendefinition.org/licenses/>



[www.epimorphics.com](http://www.epimorphics.com)