

# RAGLD

- Tools and services to aid application developers
- Simple, useful, reusable components
- Multiple formats, ease of access
- Making use of Linked Data functionality without the complexity
- Publish data so it is easily accessible

# **beta.ragld.com**

- The “bleeding edge” – under active development (your mileage may vary!)
- Project ends March next year
- A number of useful services already becoming available

**<http://beta.ragld.com/links.html>**

# <http://beta.ragld.com/services/>

- Follows RESTful services paradigm
- Easily accessible URL patterns
- HTTP GET (and PUT, POST, DELETE for admin)
- Each service has a /usage/ page
- More work to be done here
  - Metadata, provenance, licence

# Relationship Services

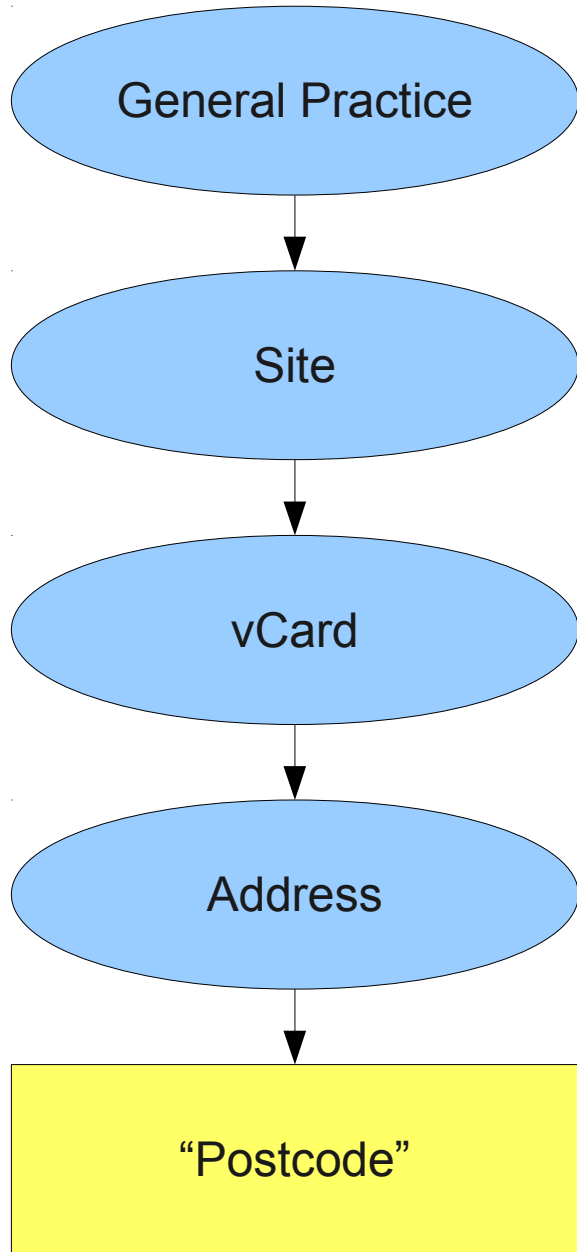
- Pairs of items (symbols)
- URI or text values
- “lookup” index – searching
- More complex relationships
  - Symmetric, Transitive, etc
  - Containment, Touches, sameAs

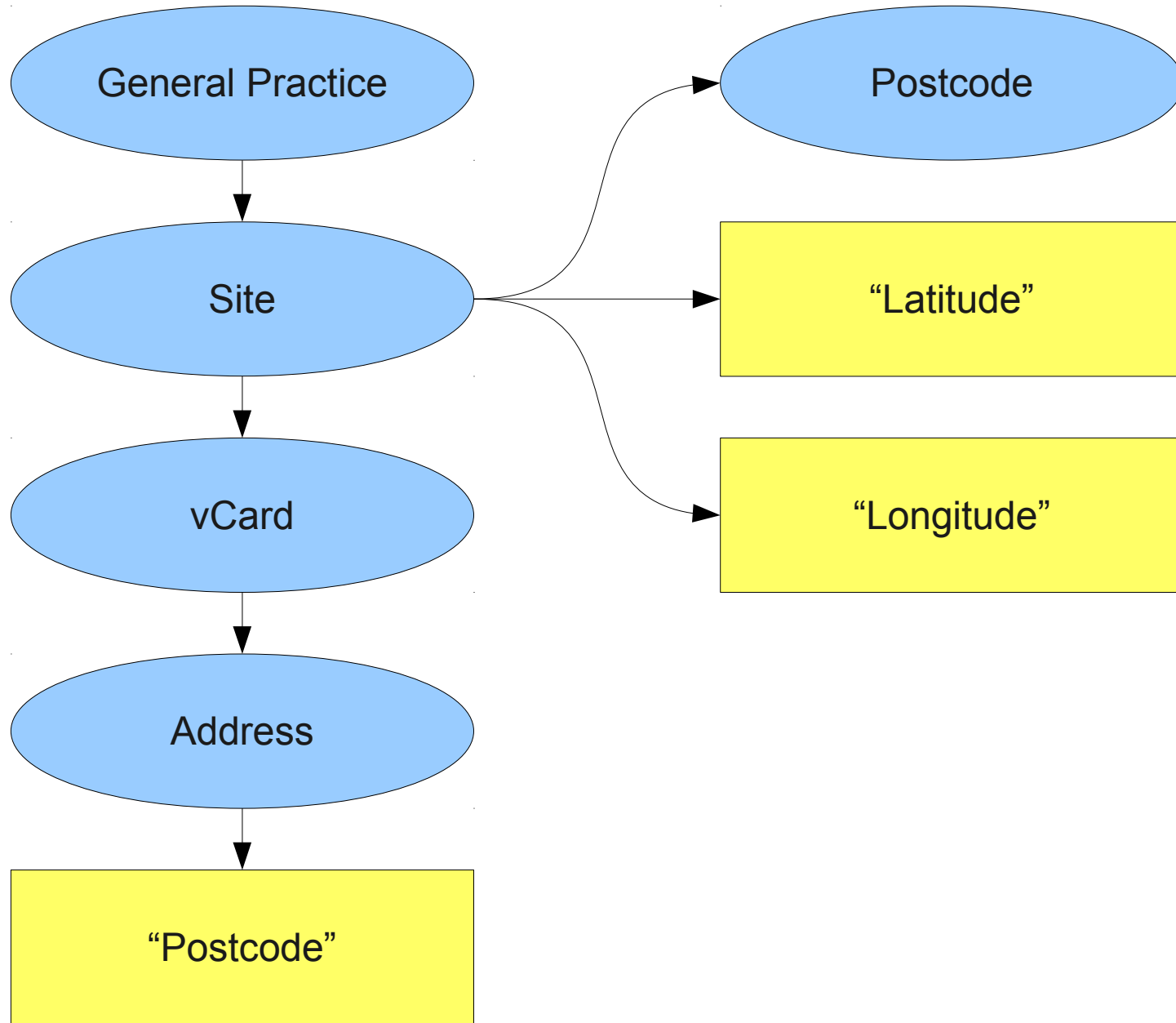
## ***/services/postcodes/***

- See usage page for full info
- Reconcile from strings to URIs
  - Postcode or GSS code → URI
- Strong identifier is link to external resource... with lots more data

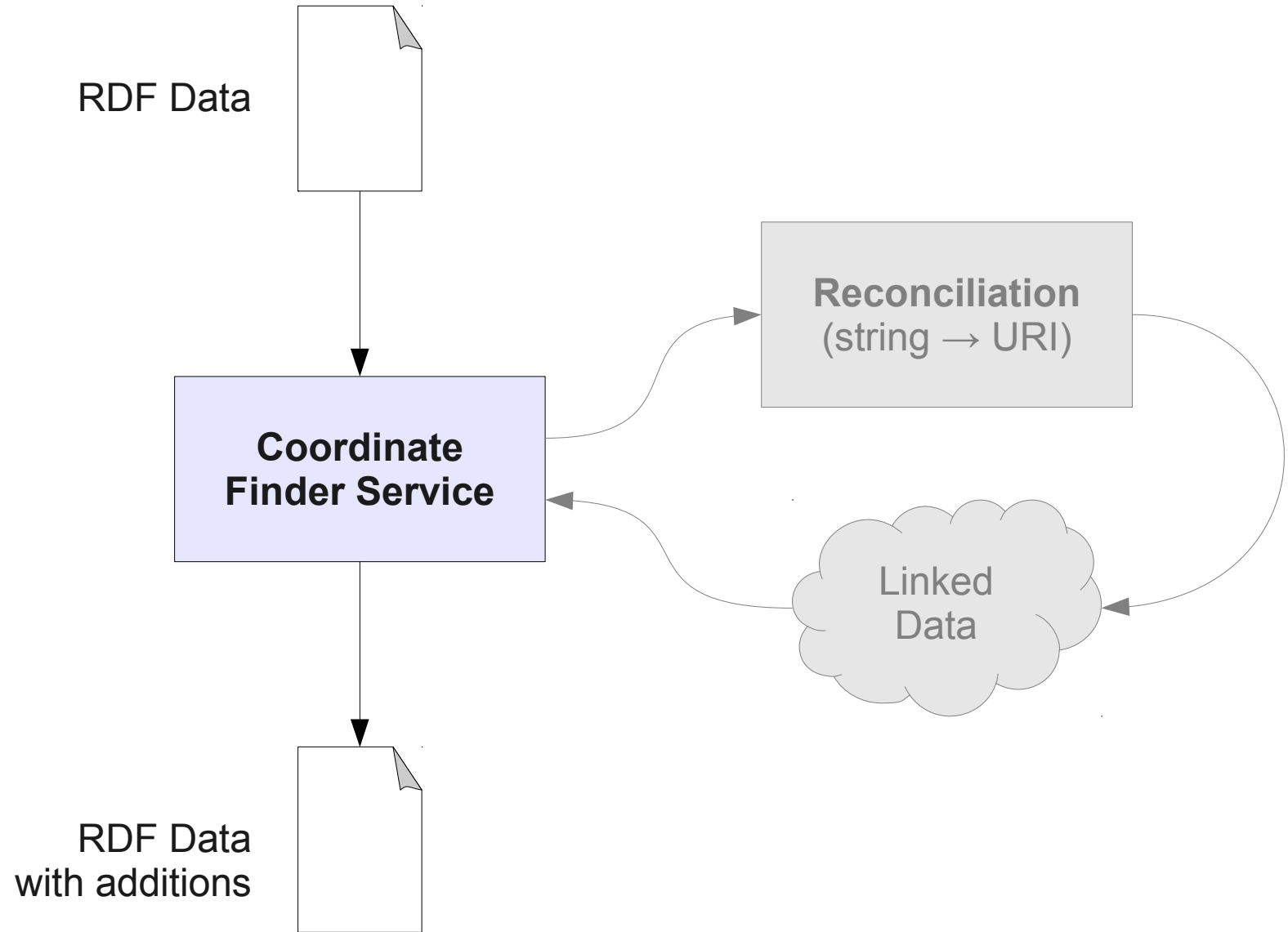
**<http://nhs.data.seme4.com/>**

- Dataset describing structure of NHS
  - Health authorities
  - GP Surgeries
  - Addresses
- Obvious task, plot locations on map
  - ... but the addresses are strings









# Plotting on a map

- Hundreds, thousands of locations...
  - clustering and heatmap (density)
  - actual point locations
- Often interested in smaller areas
  - within current viewport
  - what is nearby?

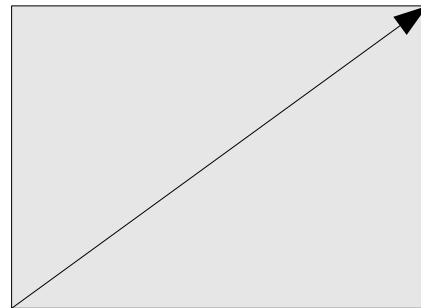
# [nhs.data.seme4.com/geospatial/](https://nhs.data.seme4.com/geospatial/)

- See usage page
  - Bounding box
  - Nearest
  
- We are at “NG7 2RJ”
  - Can you find our coordinates?

[nhs.data.seme4.com/geospatial/](https://nhs.data.seme4.com/geospatial/)

52.938939 -1.203275

52.95,-1.15



52.92,-1.25

# <http://apps.seme4.com/ragld.js/>

- Demonstration of “points on map”
  - Very easy to initialise map
  - Pass URL of data points
  - Specify optional customisations

# [beta.ragld.com/services/](http://beta.ragld.com/services/)

- Other relationship services
  - containment
  - within
  - sameAs
- Label finder
- Coordinate transforms

# Ongoing work

- Geospatial computation services
  - is point within polygon?
  - bounding polygon(s)
  - do polygons overlap/cover/etc
- Statistical operations
  - aggregation, normalisation
- Additional visualisation components

# Concluding remarks

- Services, tools and visualisation components to aid developers
- Harness power of linked data without the complexity of semantic web stuff
- If you are interested, please keep in touch. (we need stakeholder group)
- Keep an eye on [beta.ragld.com](http://beta.ragld.com)