Spatial Relational Dataset to a Spatial Linked Data Dataset

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Current State - Relational

- Number of dataset linked relationally with other information – including spatial information.
- Some values of fields come from pre-defined lists with application.
- Most data is key values linked to lookup tables.
- Spatial element is linked in the same way. Data is generally point or polyline.
Next step – first step on Linked Data path.

- Identify those fields that have pre-set values.
- Are they from a controlled set of data
  - For example – the number of lanes of road is defined in the Design Manual for Roads and Bridges along with an abbreviation – D2AR.
- Use the controlled data as a Controlled Vocabulary
  - Is the vocabulary available as a resource on line – does it have a URI to identify the possible values? If so use it, otherwise create the Controlled Vocabulary and publish it to a registry.
What about things that aren’t finite lists?

• This is where I start to struggle!

• In some cases we must be able to narrow the list down into a finite values – then follow the previous slide
  • In some cases a free text field like address could be narrowed into a finite (but long) list.

• Where we can’t?
  • What do we do – I hope this conference helps me here.
What about Spatial Information

- My datasets are mostly point and Polyline but some Polygon data as well.
- Assuming spatial information can be “coded” as LD – how do we go about?
  - Comparing
    - 2 points to show that they are the same
    - 2 Polylines to show that they are the same
    - 2 Polygons to show that they are the same
  - What tolerance should be used in the above process?
These two lines represent the same data but are not co-incident. How can we tell they represent the same information?
Conclusions

• Transport Scotland are taking small steps in the LD direction – path of travel

• Still some questions unanswered – this conference will answer some I hope

• Will we move to a LD enviroment
  • Not directly
  • In small manageable steps
  • To be determined timescle.
Thank you for your time!

- Questions – no more than 5 minutes