

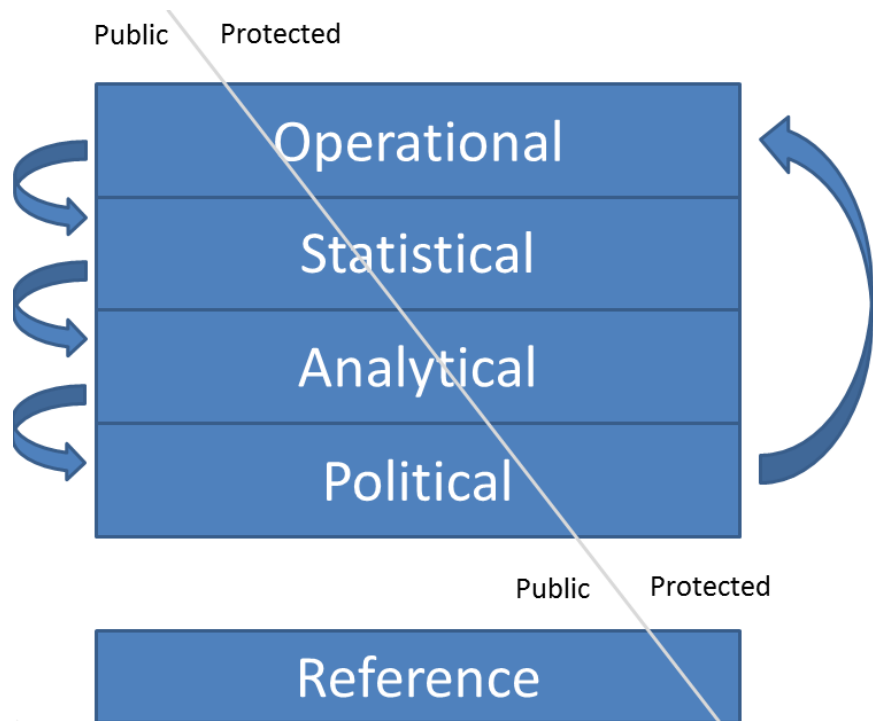
Getting more from Data with Standards

Improving Public Service Delivery through Open Data
London, 19th March 2015

Introduction to LeGSB

- Operating since 2006
- Funded by Central Government Departments – currently
 - Department for Communities and Local Government (*DCLG*)
 - Department for Work and Pensions (*DWP*)
 - Department for Business, Innovation and Skills (*BIS*).
 - Projects with Councils
- Mission
 - To promote Standards for Efficiency, Transformation, and Transparency of Local Services
- People
 - All personnel are employees of local authorities, and central government departments.
- Web Site
 - <http://www.legsb.gov.uk>

Context



Operational - about real people and places, with real needs and circumstances, using real services, e.g. case work;

Statistical - aggregated operational data, organised using common classifications and segmentations;

Analytical - the conclusions drawn from an analysis of statistical data;

Political - the decisions taken to shape services, e.g. budgets, strategies, priorities, targets etc;

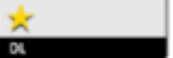


Reference - master data to give common identifiers and definitions to objects that can be used to link data;



Scope

- Semantics the meaning of information
- Syntax the format of information
- Data Quality the confidence to re-use information
- Rights permission to use information
- Trust who is accessing information
- Transport how to move information
- Information Governance - the behavior and culture to protect and exploit information

Standards for local Open Data

- Schemas
 - E.g. for Spreadsheets, column names, permitted values
 - Application Profiles
- Identifiers
 - Consistent references to refer to the same thing
 - e.g. Companies House Registration Number, a Ward, a Council
 - URIs. Using the Web to define a 'thing' and provide more information about it.
- Definitions
 - Ontologies, Relationships, Lists of Terms

Star Rating ⁵	In practice	Pros	Cons
	<p>This is typically a static document, perhaps containing data as tables.</p> <p>Often this would be web page as html⁶, a document as pdf⁷, or an image.</p>	<ul style="list-style-type: none"> • easy to produce; • retains presentation and layout; 	<ul style="list-style-type: none"> • cannot further manipulate the data such as sorting, filtering, summing etc; • cannot join or compare to other data, or earlier versions;
	<p>This is typically data, such as a spreadsheet, published in the format of the tool that was used to extract it, such as xls⁸.</p>	<ul style="list-style-type: none"> • no new tools or skills necessary; • data can be downloaded and further processed and analysed. 	<ul style="list-style-type: none"> • assumes that the consumer has the same tool as the producer, or is able to use the format. • very large data sets might not be attractive to download.
	<p>This is typically 2* type data published using an open format, such as csv⁹ or xml¹⁰.</p>	<ul style="list-style-type: none"> • there is typically a choice of open source tools available for each open format 	<ul style="list-style-type: none"> • Some conversion necessary. • Where data has greater structure than a simple 2-dimensional table, many files may be necessary, which may become disconnected; • The meaning and scope of columns and rows can be hard to express.

	<p>This is explicitly about publishing data to the RDF¹¹ data model, and providing a query service using the SPARQL¹² language.</p>	<ul style="list-style-type: none"> • enables others to make statements over the web about individual lines of data; • can be queried over a data service so that a complete data set does not have to be downloaded; • gives precise definitions to the meaning of the data. 	<ul style="list-style-type: none"> • requires a skill set that most local authorities do not have yet; • not suitable to provide directly to residents. • Requires some infrastructure
	<p>This is Linked Data in the RDF model, that contains links to external datasets to describe the 'things' that the data refers to.</p>	<ul style="list-style-type: none"> • adds context; • can build into a 'data ecosystem'. • can enable 3rd parties to join data from many sources together to provide new targeted information services and insight. 	<ul style="list-style-type: none"> • requires a 'spine' of core reference data to make links to.

3* Example - Toilets

- A combined list of public toilets data, harvested from many councils who publish their data to a common 'csv' schema
 - <http://opendata.esd.org.uk/>
 - Schemas, Datasets, Inventories, URIs

organisationlabel	locationtext	coordinatereferencesystem	geox	geoy	category	radarkeyneeded	babychange
Waveney	Kensington Gardens (A12) Lowestoft South	OSGB36	654167	291323	Female and male	Yes	Yes
Waveney	Kensington Gardens Park Lowestoft South	OSGB36	654178	291235	Female and male	No	No
Waveney	Kirkley Cemetery Lowestoft South	OSGB36	653740	291266	Female and male	Yes	No
Waveney	Normanston Park Lowestoft South	OSGB36	653101	293469	Female and male	No	No
Waveney	Pakefield Street Lowestoft South	OSGB36	653646	290591	Female and male	Yes	No
Waveney	Royal Plain Lowestoft South	OSGB36	654773	292517	Female and male	No	Yes
Waveney	Jubilee Parade North (S) Lowestoft South	OSGB36	654443	291776	Female and male	Yes	Yes
Waveney	Nicholas Everitt Park Oulton Broad	OSGB36	651736	292645	Female and male	Yes	No
Waveney	Yacht Station The Boulevard Oulton Broad	OSGB36	651974	292709	Female and male	No	No
Waveney	Church Green Southwold	OSGB36	650835	276326	Female and male	Yes	No
Waveney	Ferry Road Southwold	OSGB36	650703	275688	Female and male	No	No
Waveney	Harbour Southwold	OSGB36	650422.89	274940.41	Female and male	No	No
Waveney	The Pier Southwold	OSGB36	651172	276723	Female and male	Yes	Yes
Suffolk Coastal	Fort Green Aldeburgh	OSGB36	646462	255995	Female and male	Yes	Yes
Suffolk Coastal	opposite Moot Hall Aldeburgh	OSGB36	646579.3	256852.1	Female and male	Yes	Yes
Suffolk Coastal	West Lane Aldeburgh	OSGB36	646430	256471	Female and male	Yes	Yes
Suffolk Coastal	Bawdsey Quay picnic area	OSGB36	633203	238094	Female and male	Yes	No
Suffolk Coastal	The Beach Dunwich	OSGB36	647889.9	270676.33	Female and male	Yes	Yes
Suffolk Coastal	Bath Tap Undercliff Road East Felixstowe	OSGB36	631033	234660	Female and male	Yes	Yes
Suffolk Coastal	opp Beach Station Road Sea Road Felixstowe	OSGB36	629504	233372	Female and male	Yes	Yes
Suffolk Coastal	Felixstowe Ferry	OSGB36	632907	237716	Female and male	No	Yes

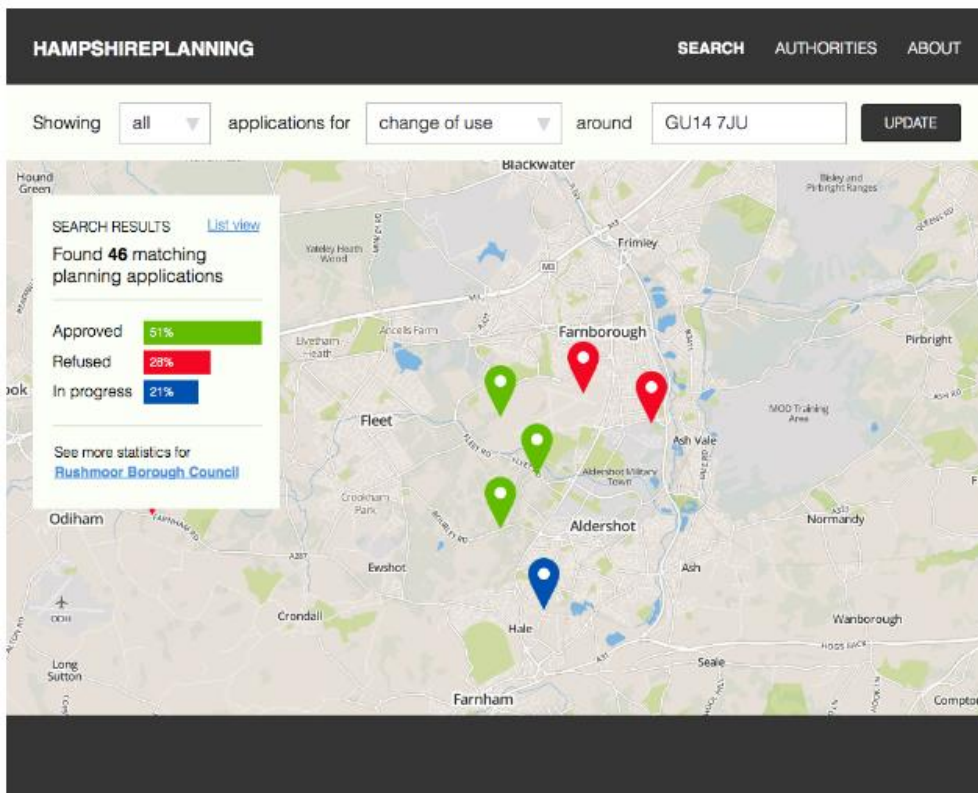
3* Example – Planning Applications

- A combined list of planning applications, harvested from many councils who publish their data to a common ‘csv’ schema
 - <http://opendata.esd.org.uk/>
 - Common Lists for ‘type of application’, ‘classification’
 - Thousands of records, historical and current
 - Status changing daily

organisationlabel	CaseReference	CaseDate	servicetypelabel	ClassificationLabel	CaseText
Barrow-in-Furness	B21/2011/0539	10/08/2011	Residential planning applications	Q21 Other householder developments	Extensions to side and rear elevations (single storey) an
Barrow-in-Furness	B28/2011/0745	24/10/2011	Full planning applications	Q30 Trees	Submission of details to comply with Condition No. 3 (A)
Barrow-in-Furness	B21/2011/0527	28/07/2011	Residential planning applications	Q21 Other householder developments	Enlargement of existing garage to form double garage.
Barrow-in-Furness	B28/2011/0746	07/11/2011	Full planning applications	Q30 Trees	Submission of details to comply with Condition No. 3 (C)
Barrow-in-Furness	B16/2011/0712	25/10/2011	Full planning applications	Q16 Minor retail and service	Proposed re-development and extension to existing ret
Barrow-in-Furness	B18/2011/0579	25/08/2011	Full planning applications	Q18 Minor all other minor developments	Installation of 1 50kW Endurance E-3120 wind turbine wi
Barrow-in-Furness	B21/2011/0587	16/09/2011	Residential planning applications	Q21 Other householder developments	Erection of a two storey rear extension forming ground f
Barrow-in-Furness	B21/2011/0470	07/07/2011	Residential planning applications	Q21 Other householder developments	Erection of a conservatory to the rear elevation.
Barrow-in-Furness	B21/2011/0555	12/08/2011	Residential planning applications	Q21 Other householder developments	Erection of a rear ground floor extension forming additic
Barrow-in-Furness	B21/2011/0448	27/06/2011	Residential planning applications	Q21 Other householder developments	Raised rear decking area to rear yard.
Barrow-in-Furness	B21/2011/0407	10/06/2011	Residential planning applications	Q21 Other householder developments	Removal of existing conservatory and erection of a repla
Barrow-in-Furness	B22/2011/0408	10/06/2011	Advertisement control	Q22 Other advertisements	Advertisement Consent to display 1 No. fascia sign and l
Barrow-in-Furness	B23/2011/0412	13/06/2011	Listed building consent	Q23 Other listed building consents (alter-e:	Listed Building Consent for demolition of detached stor
Barrow-in-Furness	B21/2011/0413	13/06/2011	Residential planning applications	Q21 Other householder developments	Erection of a front porch and sun room extension - resu
Barrow-in-Furness	B18/2011/0410	06/06/2011	Full planning applications	Q18 Minor all other minor developments	Erection of a first floor bedroom/ensuite extension for a

- Hampshire Planning Applications

- <https://www.mysociety.org/2014/09/30/making-planning-applications-more-open-with-the-hampshire-hub-partnership/>
- We'll be helping people answer some of the most common questions they have about planning applications: What applications are happening near me? What decisions have been made in the past on applications like mine? How likely is it that my application will be dealt with on time?



- Devon Community Register

- <http://www.directory.devon.gov.uk/kb5/devon/directory/home.page>

home | about us | help | contact us | my shortlist (0) | what's on

Devon Community Directory



search by and/or

[add entry](#) | [sign in/register](#)



Advice and advocacy



Family support



Things to do



Getting out and about



Health and wellbeing



Money matters



Staying safe



Looking after someone



Learning, working and volunteering



Registered childcare



Housing and care homes



Care and support at home

- Also available as data, in CSV format, and XML format.

1	Name	Description	Contact	WebPage	Venue	Occurs	Cost
2	0 - 18 months Stay and Play a	<p>SeaMoor Children's Cent	Vicky Rawlings	http://www.southhamschild	SeaMoor Children's Centre	Wednesday: 1.00pm -	Free.
3	1 Church Road				Wembdon		
4	1-4 Windsor Drive	<p>Residential care provider	Mrs. D Fogden	http://www.dchs.org.uk	Exeter Road	24-Jul	
5	10 to 13 Session at Bungalow	<p>The Bungalow Youth Proj	newton.youth@devon.gov.uk	http://www.devonyouthser	Victoria Park Lodge	Wednesday: 6.00pm -	50p per sess
6	100 Club	<p>The 100 Club provides ac	john.antat@devon.gov.uk	http://www.devonyouthser	100 Club	Please contact for details.	
7	10th Exeter (St James) Scout	<p>The Scout Association			St James Church Hall	Monday: 6.15pm - 7.45pm	
8	10th Exeter Boy's Brigade Co	<p>The Boys'	Roger Lentle	http://www.boys-brigade.or	Heavitree United Reformed	Thursday (during term	£70 per year
9	11am Sunday Morning at Uffi	<p>Twice a month during 11:	selina@thegarner.me.uk	http://www.squarefish.org.uk	St Mary's Anglican Church	Sunday: 11.00am onwards	Free.
10	121 Fitness	<p>121 Fitness are a	info@121-fitness.com	http://www.121-fitness.com	142		Single gym u
11	12th North Devon (Pilton) Sc	<p>12th North Devon	Terry Chaplin	http://www.scouts.org.uk	Pilton Church Hall	Tuesday: 6.00pm - 7.15pm	£25 per terr
12	13 to 19 Session at Bungalow	<p>The Bungalow Youth Proj	newton.youth@devon.gov.uk	http://www.devonyouthser	Victoria Park Lodge	Tuesday and Thursday:	50p per sess
13	The 16-24 Work Club	<p>Offering support and adv	Anji Chant		Ilbert Road	drop in: 1:30pm-3:30pm. Mol	Free

- Also as 5* data to query, without having to download

Find Services for 'Looking after someone' in Teignbridge

name	description
"Action on Hearing Loss"	"<p>Action on Hearing Loss works to change the world for the UK's"
"Assist Teignbridge"	"<p style=line-height: normal; margin: 0cm 0cm 0pt;><span style=fc"
"AUCHID (Autistic Children in Devon)"	"<p>A small charity run by parents of autistic children that offer"
"Bluecross Adoption Centre"	"<p>The Bluecross provides a rehoming service for dogs and cats at"
"Bright Futures - A Devon Young Carer's Project"	"<p>Helping Young Carers across Devon aged 14-24 by supporting the"
"Care Direct - MyDevon - Customer Service Centre"	"<p>Telephone support service for older people vulnerable adults a"
"Carers Development Officer - Devon Carers"	"<p>Carers Link developing services, supporting, involving and inf"
"Carers Support - Mental Health"	"<p>Details of Devon wide support groups and workers for carers of"
"Cinnamon Trust"	"<p>The Cinnamon Trust works to keep elderly owners and those in f"
"Counselling for Carers (C4C)"	"<p>We provide one-to-one counselling for carers aged 18 ns"
"Creating Change Arts Therapy: Therapies in Schools Service"	"<p><span style=line-height: 115%; font-family: 'Arial','sans-eri"
"Devon Carers"	"<p>Devon Carers provides information and support for carers livir"
"Devon County Council"	"<p>For enquiries about Devon County Council services see <a href=
"Devon Learning Disability County Carers Forum"	"<p>A forum to obtain Carer's opinions and concerns and address De"
"Devon Partnership NHS Trust"	"<p>Serves Devon. We work closely with other health and social car"
"DICPA - Devon Independent Care Providers Association"	"<p>Devon Independent Care Providers Association - DICPA - is a nc"
"Dogs Trust Rehoming Centre, Ilfracombe"	"<p>Formerly known as National Canine Defence League, Britain's la"
"Douro Court Extra Care Housing"	"<p>An Extra Care Housing Scheme offering the services of a 24 hou"
"DownSouth Down's Syndrome Support Group"	"<p>We are a group that has been formed by parents and carers to s"
"The Fostering Foundation"	"<h3>What Is Fostering?</h3>\n<p>Fostering means caring for childr"

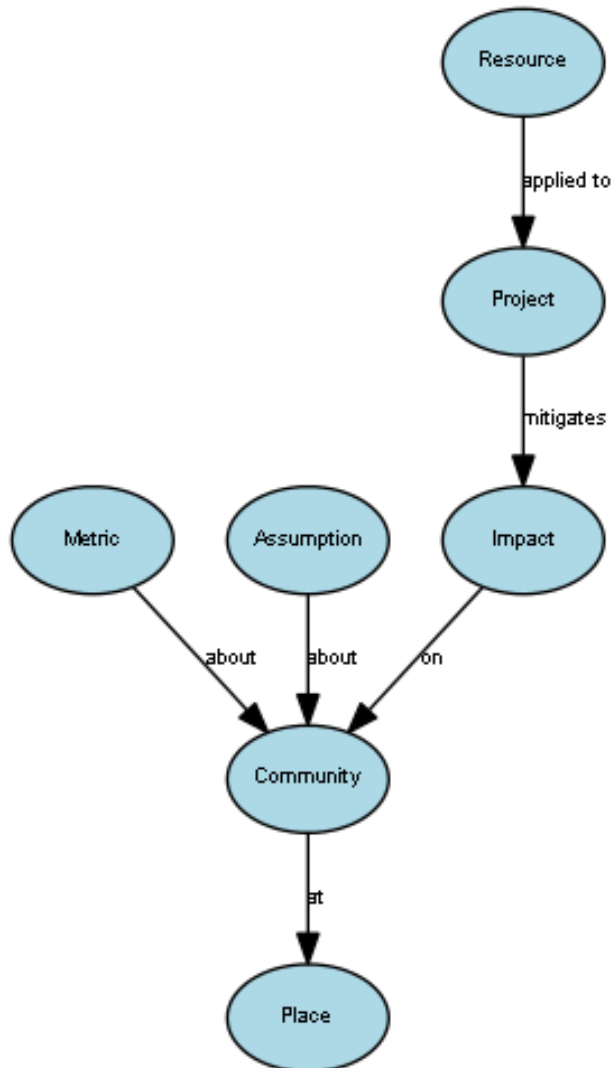
- “The increase in vehicles travelling to the HPC Site during construction will increase the potential for collisions on the local road network as well as causing congestion. Given the limited route choices for those living within the village, this will increase local journey times and cause disruption to local road users”

Local Impact Report – page 103, referring to Combwich

- <http://www.sedgemoor.gov.uk/CHttpHandler.ashx?id=9845&p=0>
- <http://data.sedgemoor.gov.uk/id/impact/12>

A repeatable structure

- Sedgemoor - Impacts of Hinkley Point C
 - <http://data.sedgemoor.gov.uk>



Residents of Stockland Bristol

Category:
residents

Place: [Stockland Bristol](#)

More Information:
[Stockland Bristol Planning Advice](#)

Impacts

Impact

[Resilience - potential to be cut off from vehicle access](#)

[Increased noise](#)

[Volume of Traffic](#)

[Nature of Vehicles](#)

[Light pollution](#)

[Reduced air quality](#)

[Working hours](#)

[Disturbance](#)

[Vibration](#)

[Traffic impacts](#)

[Dust](#)


Linked data API
☰

Stockland Bristol

<http://data.sedgemoor.gov.uk/id/location/5>

a **Location**

description

Stockland Bristol is a small rural parish that is located in the countryside. Approximately half of the parish is located within flood zone 3 and is therefore at high risk of flooding. The sole point of access in to Stockland Bristol is via the C182. The area is flat and open in nature with clear and uninterrupted views of Steart and Hinkley Point.

label

Stockland Bristol

same as

[7000000000010637](http://data.ordnancesurvey.co.uk/id/7000000000010637)

[NN461a](http://id.esd.org.uk/neighbourhood/NN461a)

see also

[Stockland Bristol Planning Advice](#)

```

<primaryTopic href="http://data.sedgemoor.gov.uk/id/location/5">
  <description lang="en">Stockland Bristol is a small rural parish that is located in
    the countryside. Approximately half of the parish is located within flood zone 3
    and is therefore at high risk of flooding. The sole point of access in to
    Stockland Bristol is via the C182. The area is flat and open in nature with clear
    and uninterrupted views of Steart and Hinkley Point.</description>
  - <label>
    <item lang="en">Stockland Bristol</item>
  </label>
  - <sameAs>
    <item href="http://data.ordnancesurvey.co.uk/id/7000000000010637"/>
    <item href="http://id.esd.org.uk/neighbourhood/NN461a"/>
  </sameAs>
  - <seeAlso href="http://data.sedgemoor.gov.uk/id/reference/2">
    - <label>
      <item lang="en">Stockland Bristol Planning Advice</item>
    </label>
  </seeAlso>
  - <type>
    - <item href="http://purl.org/dc/terms/Location">
      - <label>
        <item lang="en">Location</item>
      </label>
    </item>
  </type>
</primaryTopic>
  
```

```

<http://data.sedgemoor.gov.uk/id/location/5> a dcterms:Location ;

    rdfs:label                "stockland Bristol"@en ;
    rdfs:seeAlso              <http://data.sedgemoor.gov.uk/id/reference/2> ;
    dcterms:description      "stockland Bristol is a small rural parish that ..."@en;
    owl:sameAs              <http://id.esd.org.uk/neighbourhood/NN461a> ,
                              <http://data.ordnancesurvey.co.uk/id/7000000000010637> .
  
```

What do we know about Stockland Bristol?

- URIs

- <http://data.ordnancesurvey.co.uk/id/7000000000010637>

AsGML

```
<gml:Polygon xmlns:gml="http://www.open
gis.net/gml" srsName="http://www.opengi
s.net/def/crs/EPSG/0/27700"><gml:exteri
or><gml:LinearRing><gml:posList srsDime
nsion="2">323833.1 141908.7 323831.5 14
1880.7 323827.8 141828 323819.3 141826.
2 323800.8 141830.2 323793 141829.5 323
783.8 141826.5 323775.6 141822.5 32375
2.3 141805.5 323738.3 141795.1 323723.9
141785.2 323697.2 141774 323690.2 14177
```

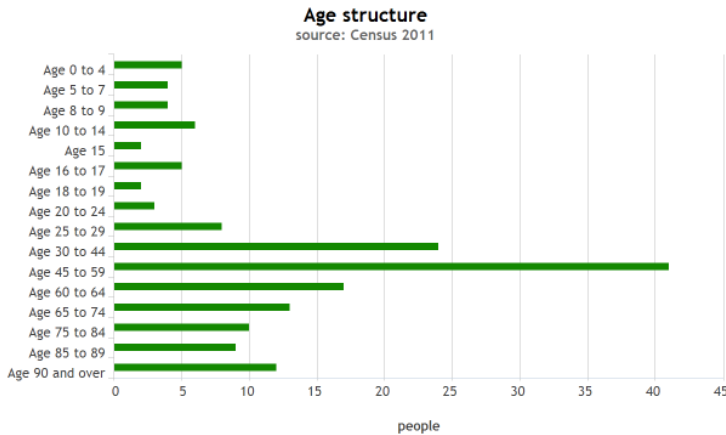


Objects related to "Stockland Bristol"	
Extent	10637-401
In European Region	South West
Within	Sedgemoor
In County	Somerset
In District	Sedgemoor
Touches	Fiddington Stogursey Otterhampton Cannington
Same As	E04008647

- <http://id.esd.org.uk/neighbourhood/NN461a>

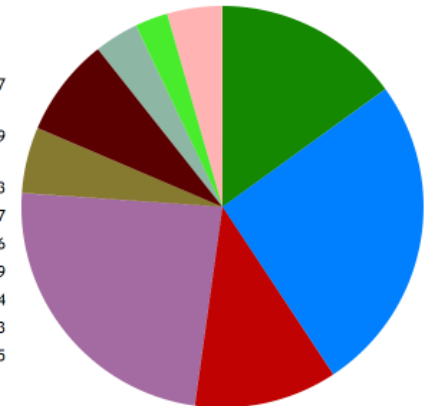
Age

The mean age of the Stockland Bristol Impact Area (DRAFT) Community Impact Mitigation areas (DRAFT) population is 50 years compared to a mean age of 42 years for residents in the whole of Sedgemoor. The predominant age band in Stockland Bristol Impact Area (DRAFT) Community Impact Mitigation areas (DRAFT) is Age 45 to 59 which represents 24.85% of the population.

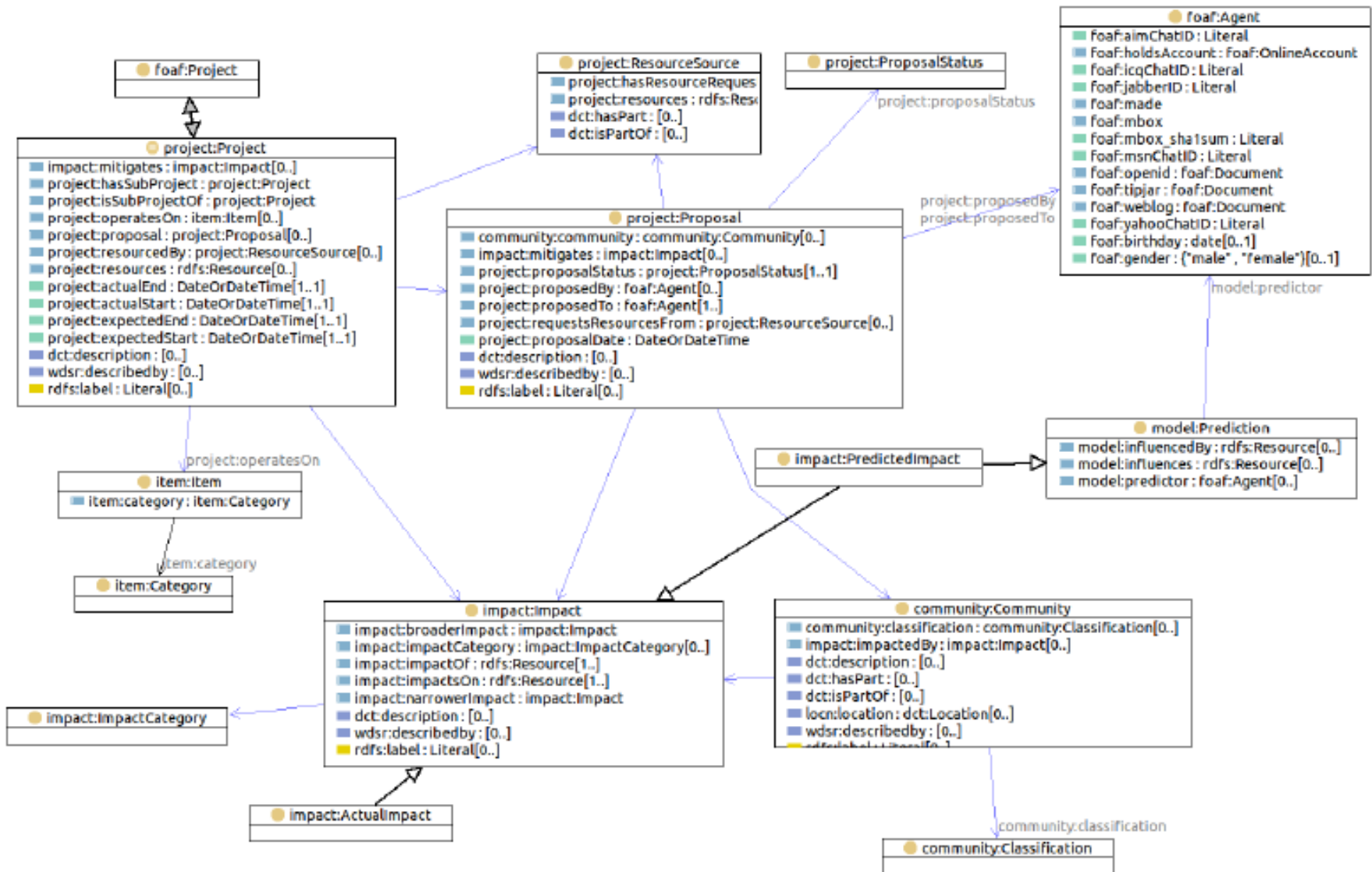


Residents by NS-Sec (count)

- NS-Sec: Higher managerial, administrative and professional 17
- NS-Sec: Lower managerial, administrative and professional 29
- NS-Sec: Intermediate 13
- NS-Sec: Small employers and own account workers 27
- NS-Sec: Lower supervisory and technical 6
- NS-Sec: Semi-routine occupations 9
- NS-Sec: Routine occupations 4
- NS-Sec: Never worked and long-term unemployed 3
- NS-Sec: Not classified 5



The data model



- What impacts have been identified for the residents of Stockland Bristol?

```

SELECT DISTINCT ?label ?statusLabel ?agentLabel {
  ?proposal community:community <http://data.sedgemoor.gov.uk/id/community/1>.
  ?proposal a project:Proposal .
  ?proposal rdfs:label ?label .
  OPTIONAL {
    ?proposal project:proposalStatus ?status .
    ?status rdfs:label ?statusLabel .
  }
  OPTIONAL {
    ?proposal project:proposedBy ?agent .
    ?agent rdfs:label ?agentLabel .
  }
}

```

6 results in 0 min 0.775 s

Show entries Search:

?label	?statusLabel	?agentLabel
Footpath / cycleway enhancement	suggested	Sedgemoor District Council
Green space and open space enhancements	suggested	Sedgemoor District Council
Invest in public and community buildings/services	suggested	Sedgemoor District Council
Noise insulation for dwellings and buildings	suggested	Sedgemoor District Council
Planting/ screening/ community woodland/ orchard	suggested	Sedgemoor District Council
Stear Coastal Path	suggested	Sedgemoor District Council

Showing 1 to 6 of 6 entries

Thank you

- Paul Davidson
 - paul.davidson@sedgemoor.gov.uk
 - Director of Standards for the Local eGovernment Standards Body (LeGSB)
 - <http://www.legsb.gov.uk>