

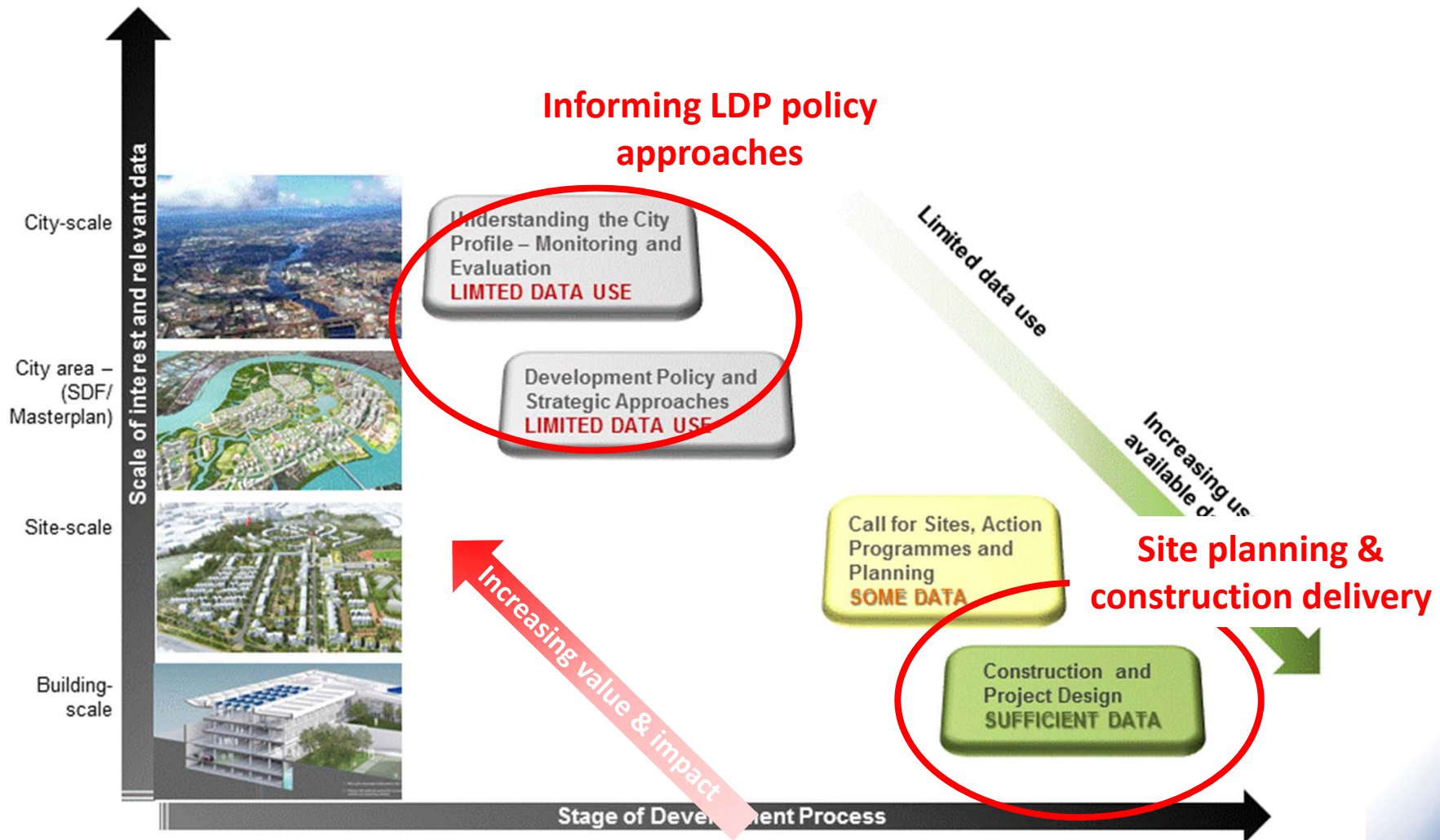
# New collaboration and evidence approaches in planning



**British Geological Survey**  
NATURAL ENVIRONMENT RESEARCH COUNCIL

**Helen Bonsor** [helnsob@bgs.ac.uk](mailto:helnsob@bgs.ac.uk)  
KE Fellow, The Lyell Centre  
British Geological Survey

# Environmental information in planning

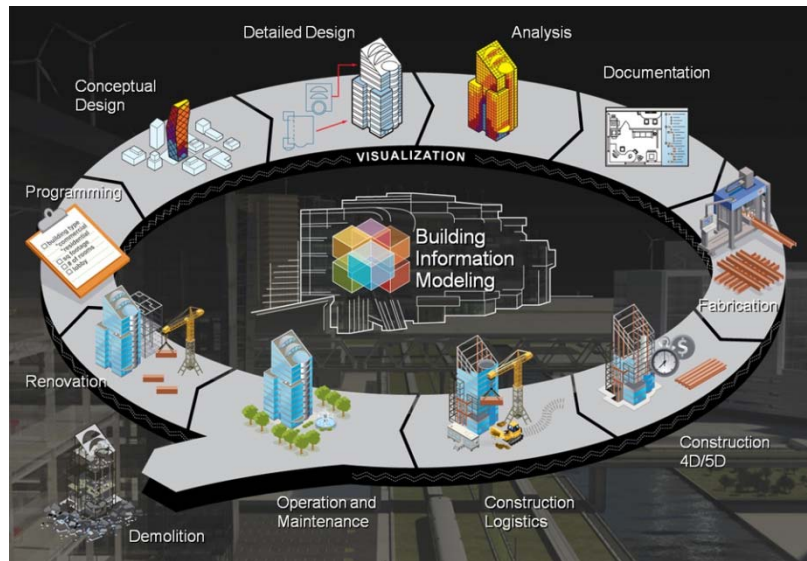


Bonsor (2017)

↑  
Need better utilisation of  
Research data

↑  
Need increased use of  
existing GI and Council data  
– integrated above-below  
ground design

# Site planning & construction delivery - Increasing need to maximise past investment in data

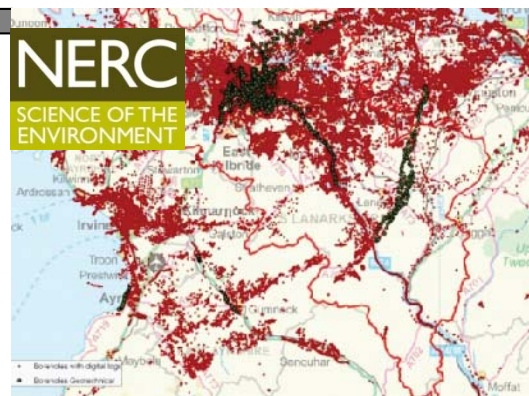


Increase certainty and unlock land

Reduce construction costs

To enable move to integrated BIMs and planning

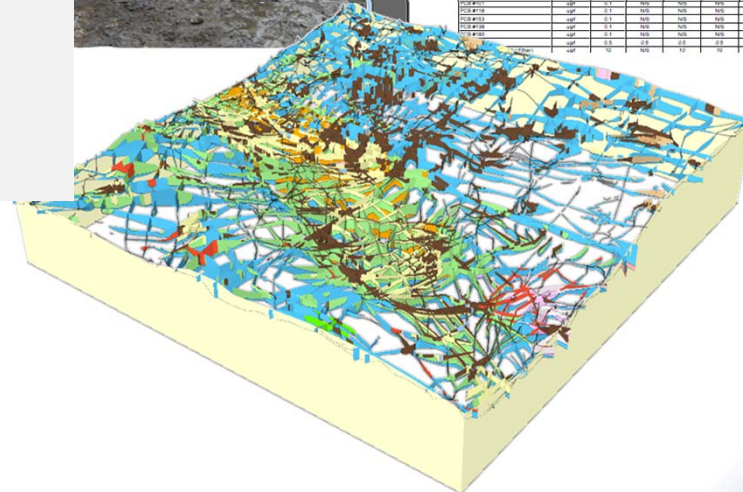
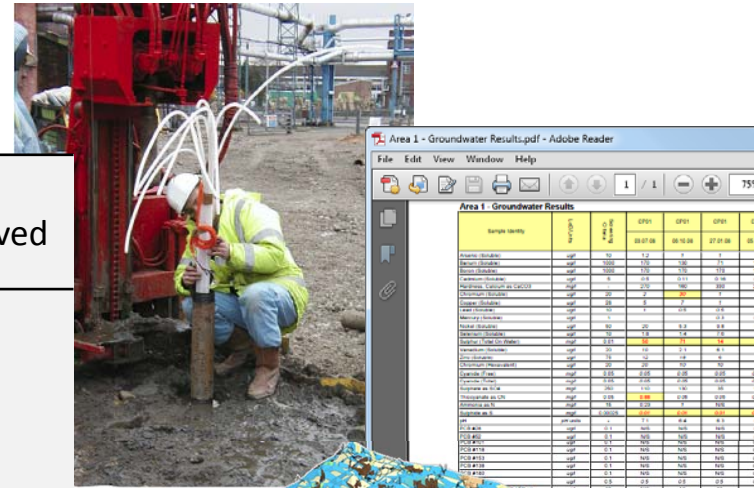
Informed planning – earlier realisation of opportunities and risks; integrated infrastructure delivery



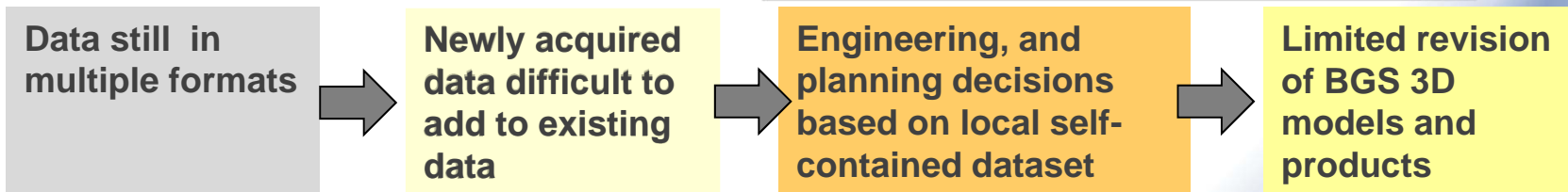
# Wealth of data is unaccessed

# Difficulty in re-access which limits re-use

	% BH reported for	% BH for which the data could be retrieved
BH grid ref	99%	100%
BH	45%	80%
BH screened interval	0%	71%
Datum of BH measurements	42%	58%



Only 18% of data from recent major infrastructure projects can be used with high degree of confidence



# New UK Digital Data Portal

Centralised standardised data repository

<http://transfer.bgs.ac.uk/ingestion>

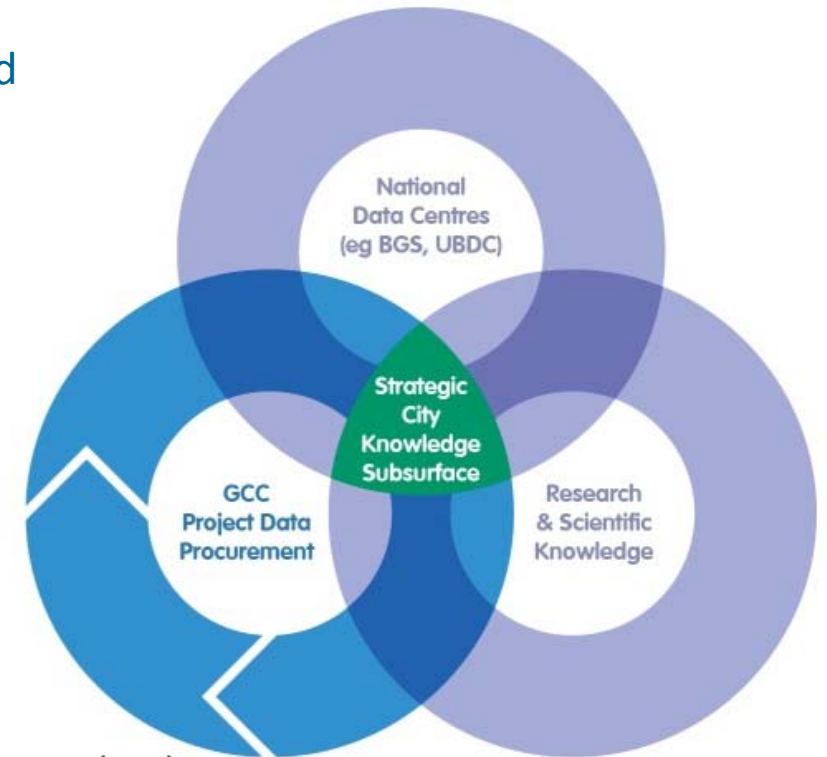
## ASK Network

Public, private and research sector engagement, and adoption of new data pathways

- National stakeholders uptake - framework contracts
- Enabling connected web-services and models

The screenshot shows the 'NGDC Digital Data Deposit Application' page on the British Geological Survey website. It includes a navigation menu, a search bar, and a main content area with a progress bar for the application process: Guidelines, Ownership, Data description, Data access, Upload files, and Confirmation. Below the progress bar, there is a section titled 'How to use the NGDC Data Deposit Application' with a list of instructions and a 'File size/quantity recommendations' section. At the bottom, there is a 'I'm not a robot' CAPTCHA box.

© NERC All rights reserved



Central NGDC/BGS data repository


Delivery of more user relevant data products

Engineering, and planning decisions based on wider datasets & understanding

# Re-accessing deposited data – a national open resource

<http://webservices.bgs.ac.uk/accessions>

🔍
Home | Data | Research | Services | Contacts | Discovering geology | News and events | Hosted sites

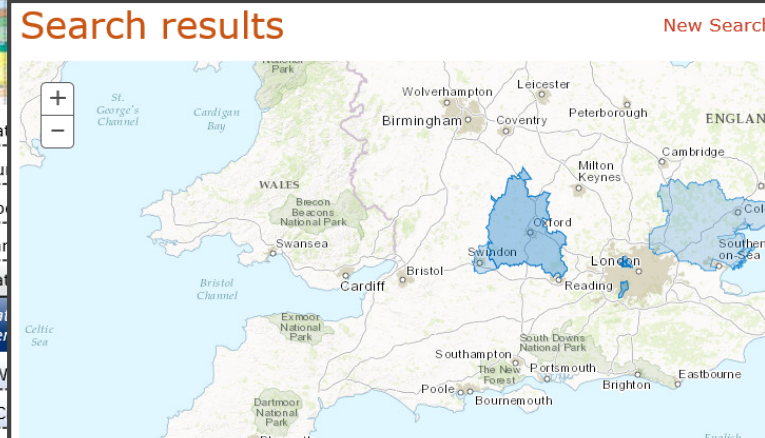

British Geological Survey  
NATURAL ENVIRONMENT RESEARCH COUNCIL
Gateway to the Earth

Home » Our data » National Geoscience Data Centre » Data deposited

### Our data

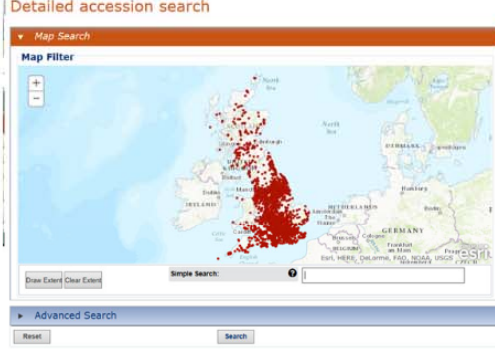
## Data deposited | detailed accession search

### Search results



New Search

### Detailed accession search



Detailed accession search screen grab

### Sighthill Phase 2 Ground Investigation

Back to Results | New Search | Refine Search

**Title** Sighthill Phase 2 Ground Investigation  
**Description** AGS Data  
**Subjects** Geology ; Laboratory tests ; Boreholes  
**Source**  
**Depositor** Glasgow City Council  
**Place name** NS66NW ; NS56NE  
**Nat Grid Ref**  
**Coordinates**  
 Digital files available

File name	File size	File format	Select files for download
GCC_19934-3_Sighthill_Phase2SI_30.01.14_CHISremoved.ags	6.3 MB	ags	<input type="checkbox"/>

Download Back to Results Deselect All | Select All

Some of our digital data has access restrictions, if this is the case please contact [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk).

### Organisational programme

- ▣ Informatics

### Our services

- ▣ Enquiries
- ▣ Data management
- ▣ Discovery metadata
- ▣ OpenGeoscience

### See also

- ▣ Deposit data with NGDC
- ▣ BGS MEDIN Data Archive Centre
- ▣ Depositing Association of Geotechnical and Geoenvironmental Specialists (AGS) data
- ▣ Preferred digital formats
- ▣ NGDC contacts
- ▣ NGR: temporary closures in Edinburgh
- ▣ Relocating UKCS Core

### External links

- ▣ NERC Open Research Archive (NORA)

© N Government Licence. reproduced BGS. tion text provided or s". benefit others.

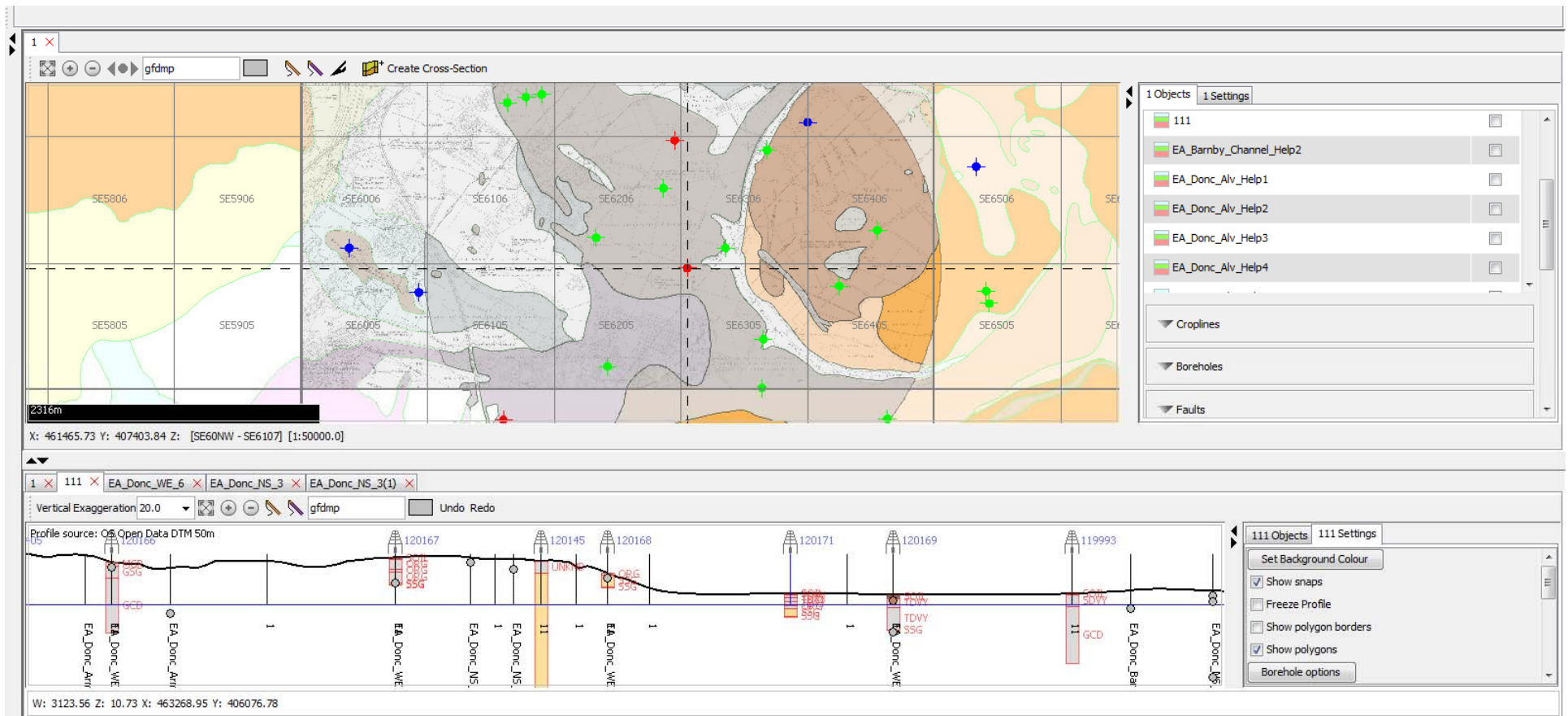


# Connecting web services

Groundhog Desktop GIS

free tool for geological interpretation and visualisation

<http://www.bgs.ac.uk/research/environmentalModelling/groundhogDesktop.html>

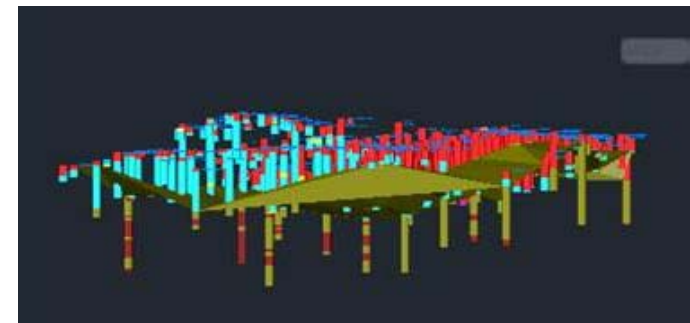


# Impacts and benefits – UK

ASK Wales, ASK NI

More effective mapping of above & below-ground data through master-planning and development decision process

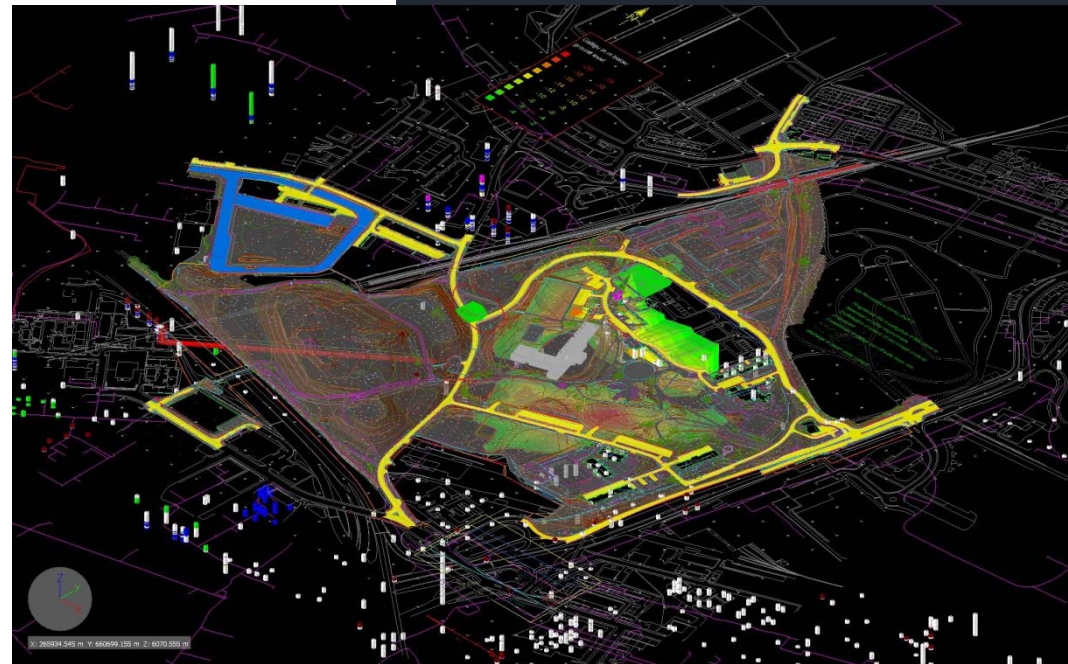
Shared cross-sectoral data platforms to de-risk and unlock development



From this....

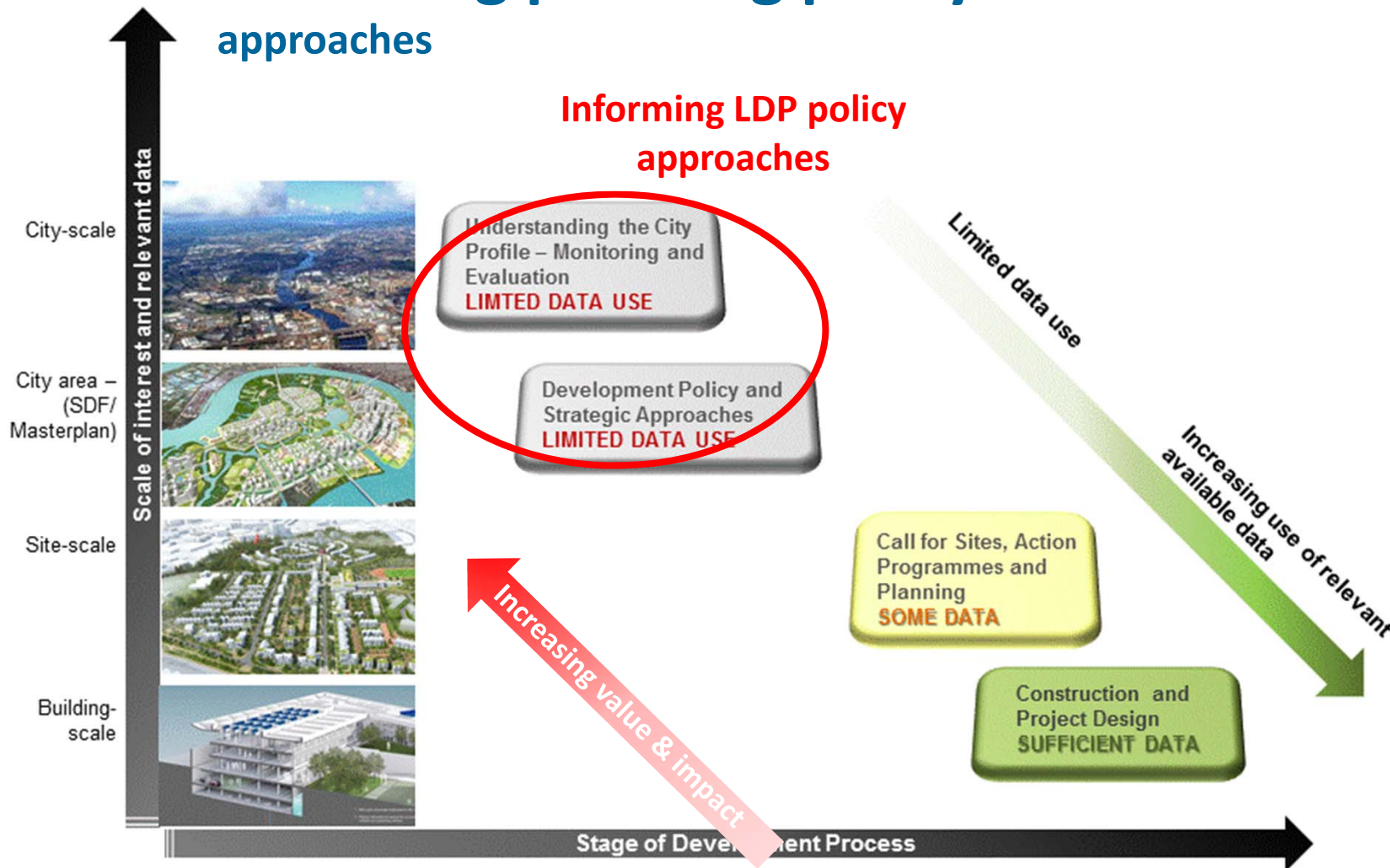


To this...





# Informing planning policy - new collaboration & evidence approaches



Bonsor (2017)

**Strategic**

↑

Need better utilisation of Research data

**Realisation**

↑

Need increased use of existing GI and Council data – integrated above-below ground design



**Inform & strengthen capacity of local development policy to deliver infrastructure priorities and within holistic place-making approaches**  
– investment, transformation, risk mitigation  
**Cascading benefit to planning system, and cost savings to design and construction**

© GCC

© NERC All rights reserved





©West Lothian Council



# 3 year Fellowship

– a UK first , 3yrs 50% (2015-18)

**Cross Agency** - involving Key Agencies Group Scotland, all 32 local governments, national parks, Scottish Government

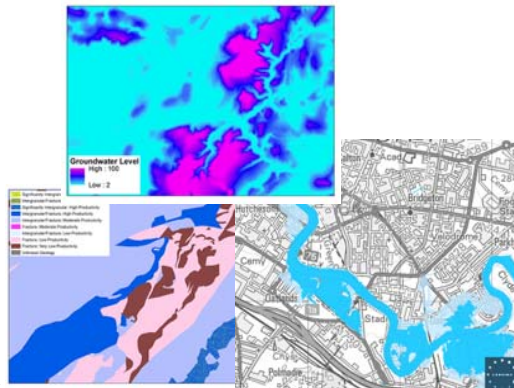
## Key findings

### Need Improved understanding:

- Types and scales information required to deliver policy priorities
- How information can be more accessible to local government
- How do we improve communication and connectivity
- New approaches to use evidence
- Developing confidence and transparency

**Need new wider collaboration to do this**

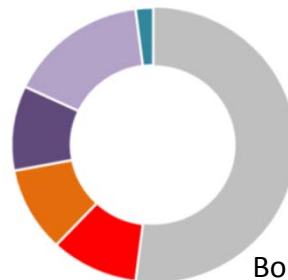
**SURVEY**



© NERC All rights reserved



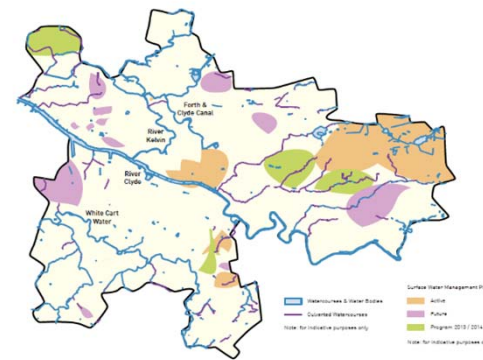
**ANALYSIS**



Bonsor (2017)



**POLICY PLAN**



# National information has a key role to play – at national, regional & local planning policy

## Local LDP policy – informing & enhancing capacity to deliver priorities

helping unlock land assets,  
Delivering housing alongside good places, low carbon emissions, resilient communities

## Regional planning & partnerships

## High-level strategic national infrastructure & planning frameworks

Planning key infrastructure (transport, housing) with low carbon targets CC delivery  
Multiple pathways for Renewable heat, equity and resilience of communities  
Linking terrestrial and marine planning, hinterland infrastructure



3D Models and Data  
Sharing Platforms ...

only part of the solution  
& investment required

**High quality evidence, not DDS tools**

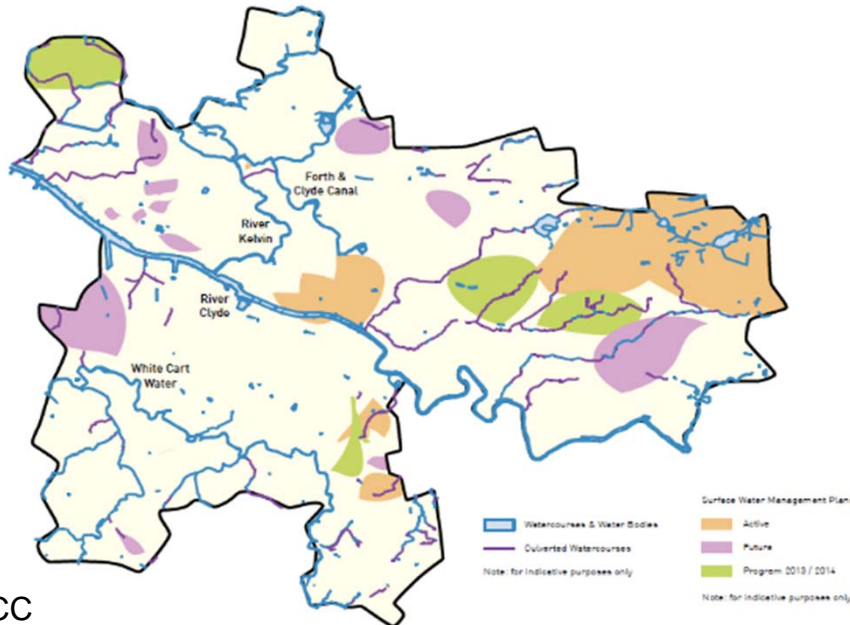
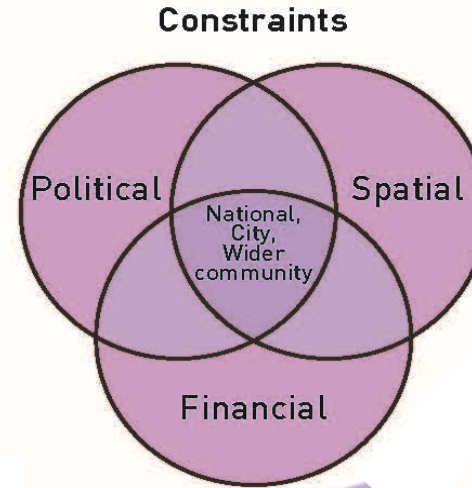


# Developing new evidence approaches to delivering housing

## Findings:

Demonstrated value to informing LDP policy approaches and required investment for delivery

Provided practical method to utilise cross-agency and research information – increasing capacity of LDP policy to deliver vision



Developing this new approach took significant time to understand what pieces, and scales, of information were appropriate

# Similar new international approaches in planning

OSLO

Depth to groundwater  
Depth to bedrock  
Fluvial flood risk  
Soil – clay / peat  
\*Subsidence rates  
\*Coal mining

**Different drivers – but similar required evidence & collaboration approaches**

AAS-JAKOBSEN  
VIANOVA  
Statens vegvesen

# Developing new required collaboration & connectivity in planning

## To develop:

- Coordinated dialogue and understanding
- Appropriate connectivity to information (SEweb & SGov SSDI)
- Interpretation guidance
- Stronger knowledge pathways *between organisations*
- Platform for future training and guidance – significant impact



First national workshop –  
Jan 2017, Glasgow  
BGS, Improvement Service



May 2017: COSLA  
With all 32 LG's, Regional  
planning frameworks,  
RTPI, Sgov



**NEXT: 28<sup>th</sup> Feb 2018, COSLA Edinburgh**  
**-Co-organised by key statutory**  
**environmental agencies, research bodies &**  
**Scottish Gov, for all 32 LG's and NP**



# What has this led to?

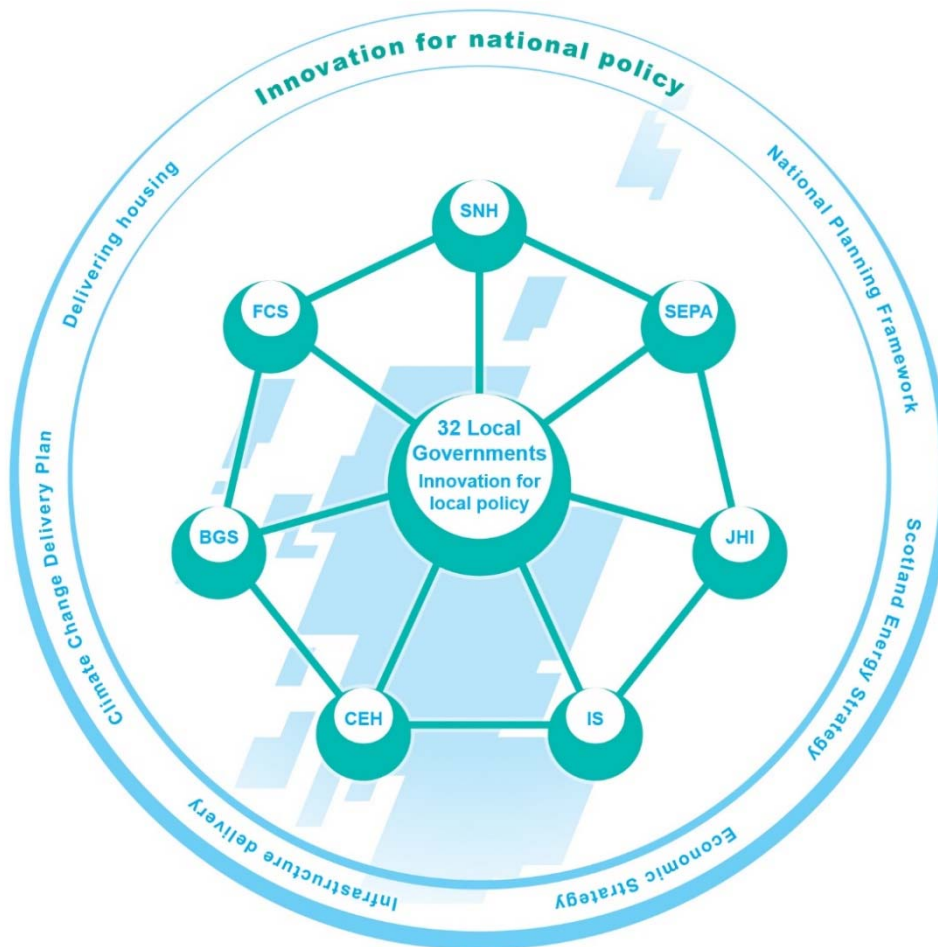
## Key Agency sub-group

Transformative culture change in collaboration

New centralised, interactive & coordinated dialogue between Scotland's statutory environmental agencies, key research bodies, Scottish Gov, and all 32 local gov

– informing:

- Future internal approaches on what evidence and accessibility
- SGov digital transformation TF
- Secondary legislation processes of Planning Bill (2017) – e.g. LDP evidence gate-check

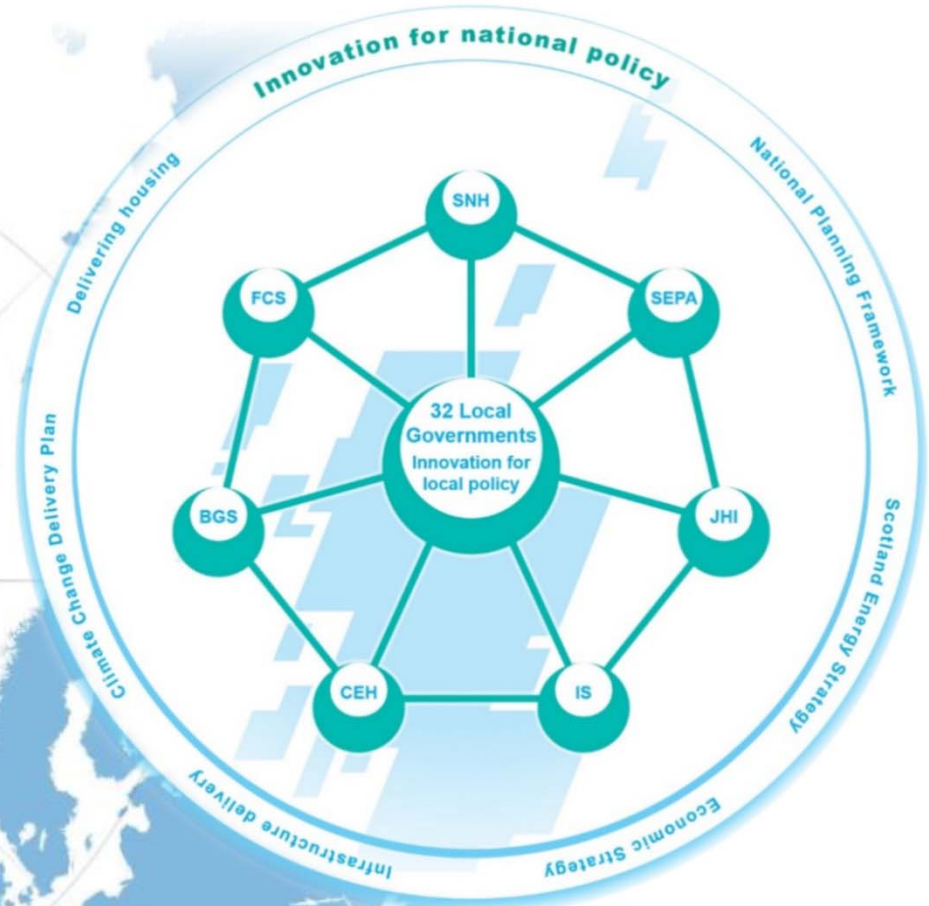


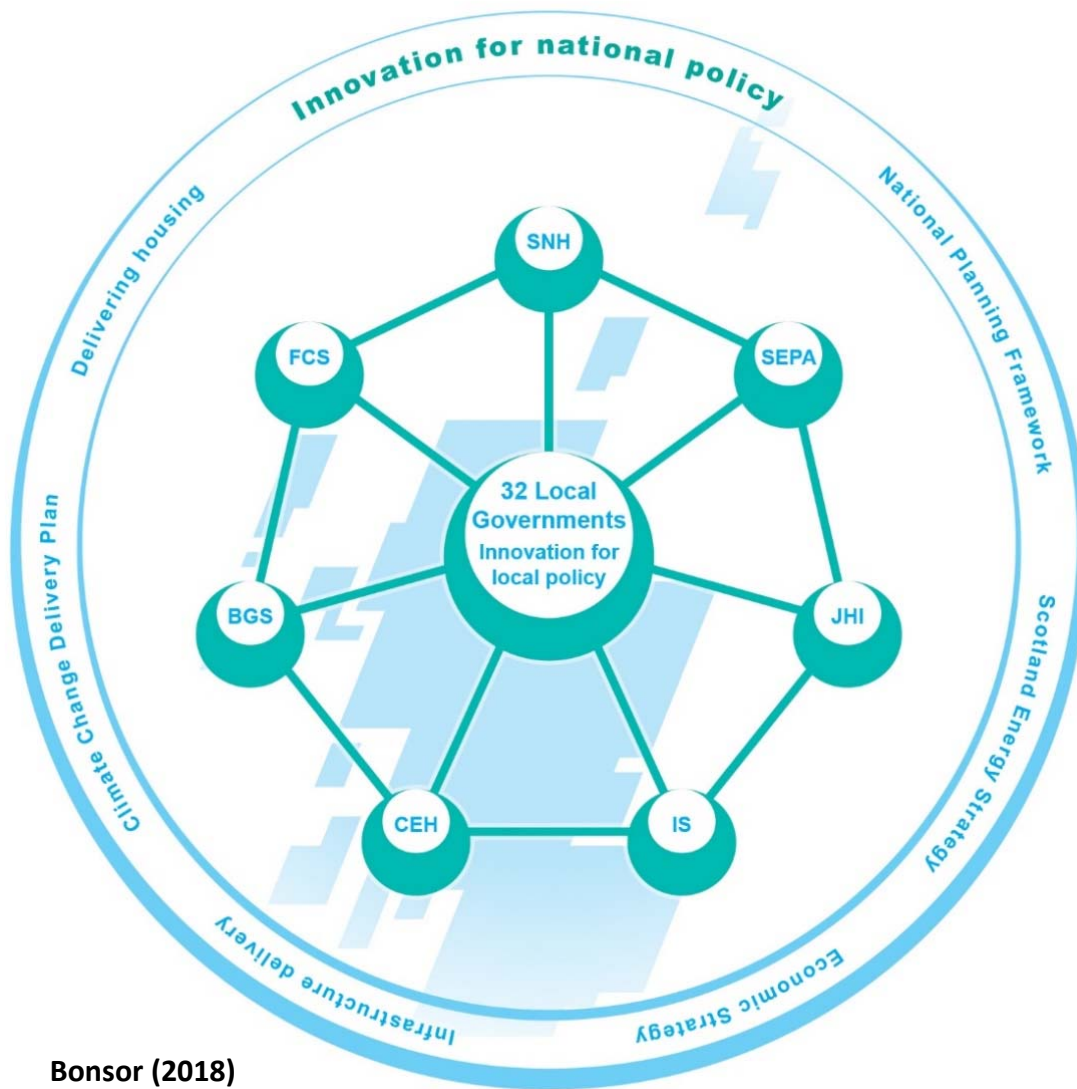


New evidence and collaboration approaches  
in local and national planning

Central to next SPP and NPF  
And delivering Scotland's Energy  
strategy, Climate Change delivery plan  
and Economic strategy

# SCOTLAND AND THE NEW NORTH





**Bonsor (2018)**

## Collaboration is essential

Opens possibility of coordinated internal strategies

Develops confidence and transparency in evidence approaches

Appropriate & accessible information to inform land use and delivery planning policies – cascades benefit down through planning