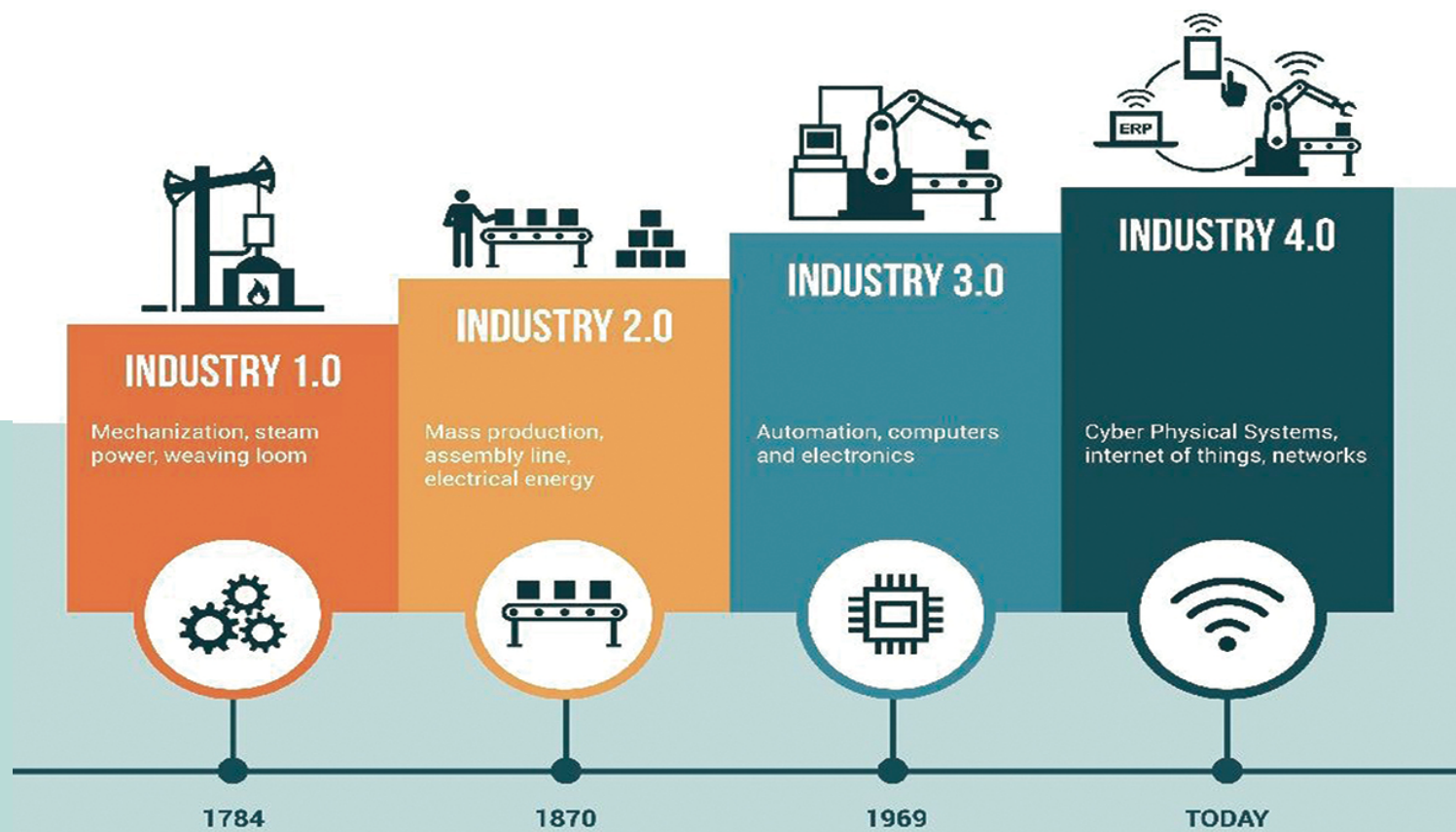
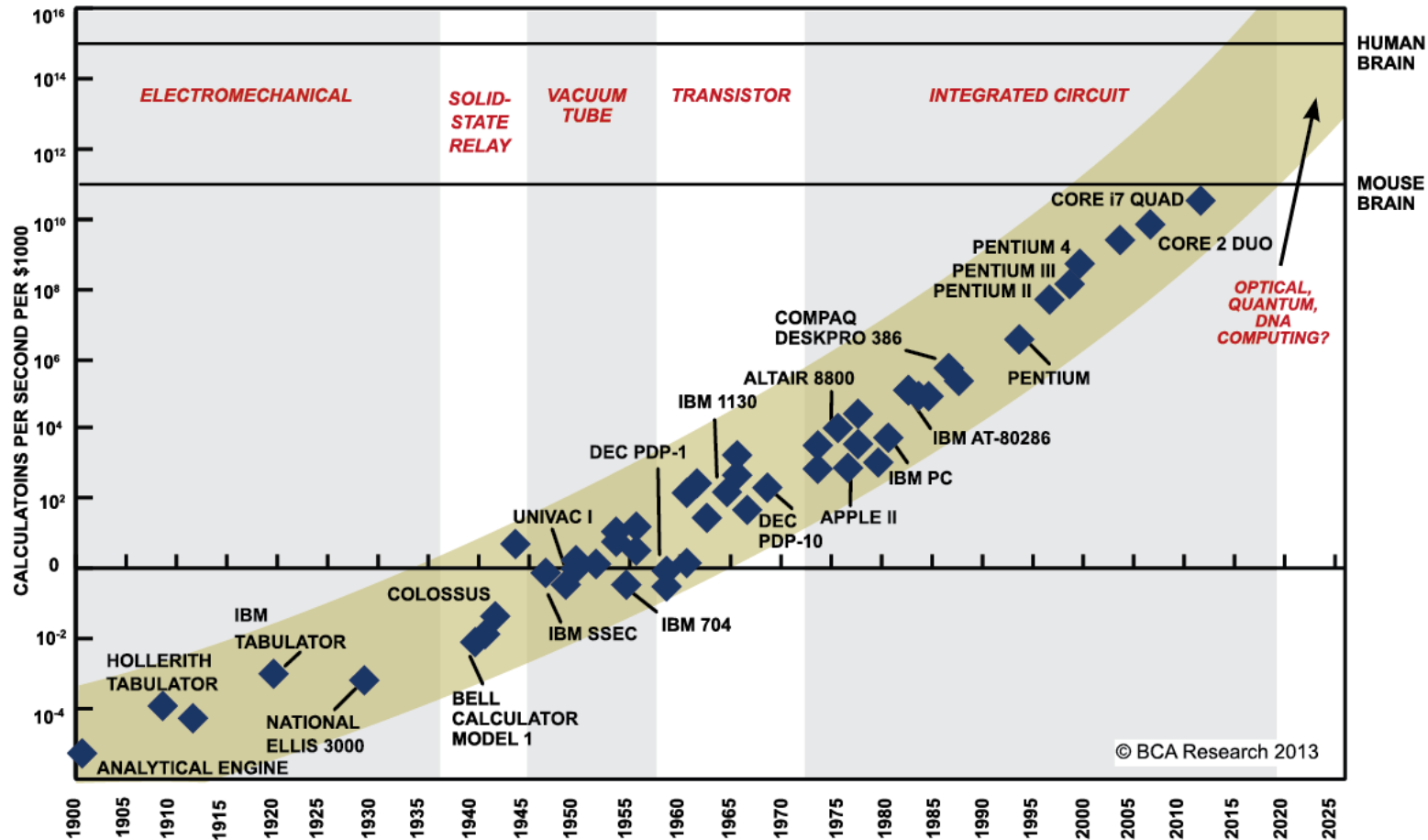


Better planning through technology

@euanmills

**CATAPULT**  
Connected Places





SOURCE: RAY KURZWEIL, "THE SINGULARITY IS NEAR: WHEN HUMANS TRANSCEND BIOLOGY", P.67, THE VIKING PRESS, 2006. DATAPOINTS BETWEEN 2000 AND 2012 REPRESENT BCA ESTIMATES.

**UNCERTAINTY IS AN  
UNCOMFORTABLE  
POSITION, BUT  
CERTAINTY IS AN  
ABSURD ONE**

**Voltaire**



Upgrade **how** we plan, **not what** we plan for.





## PLANNING



NASA LANDS ROVER ON MARS



TERRORIST ATTACK ON LONDON COMMUTERS



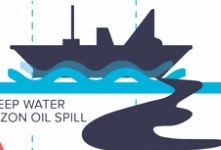
TWITTER LAUNCHES



APPLE LAUNCHES IPHONE



CLOUD COMPUTING GOES MAINSTREAM



DEEP WATER HORIZON OIL SPILL



REFUGEE MIGRANT CRISIS



EARTH'S CO2 PASSES 400 PARTS PER MILLION



## TECHNOLOGY



GEORGE BUSH JR. ELECTED U.S. PRESIDENT



KYOTO PROTOCOL COMES INTO FORCE



BARACK OBAMA ELECTED U.S. PRESIDENT



AIRBNB LAUNCHES



BICYCLE SHARING COMES TO LONDON



REFERENDUM FOR SCOTTISH INDEPENDENCE



DONALD TRUMP ELECTED U.S. PRESIDENT



WOMEN'S MARCH ON WASHINGTON

## POLITICS



TEN COUNTRIES JOIN EUROPEAN UNION



HURRICANE KATRINA DEVASTATES NEW ORLEANS



U.S. MORTGAGE AND CREDIT CRISIS



GLOBAL FINANCIAL CRISIS AND RECESSION



LONDON OLYMPIC AND PARALYMPIC GAMES



WOMEN ORDAINED IN THE CHURCH OF ENGLAND



BREXIT VOTE



## ECONOMY



LONDON'S POPULATION HITS RECORD 8.6M

2000

2005

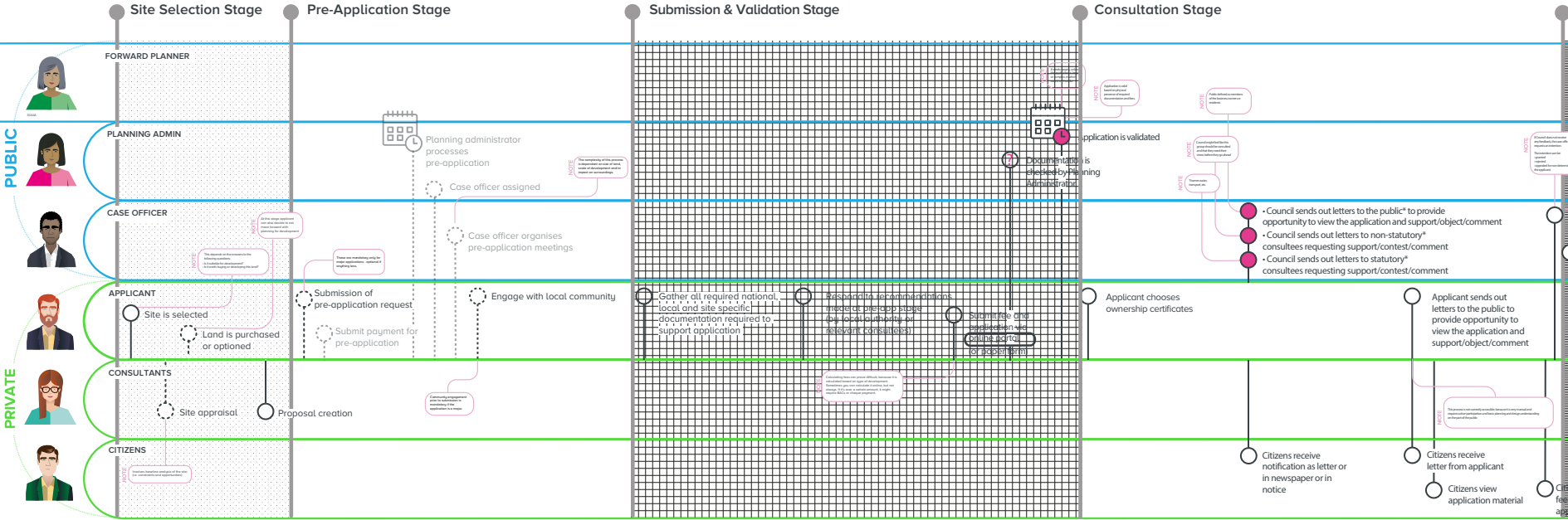
2010

2017

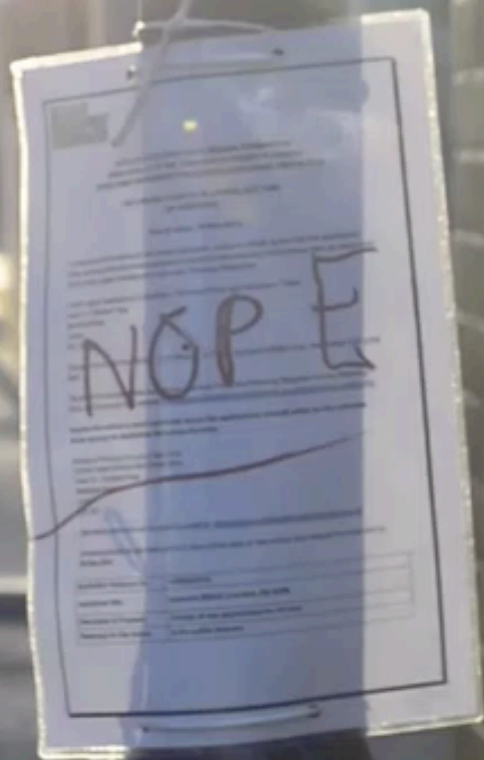
of which they form a part;

- (iii) Retain, enhance and/or create open spaces, views, land characteristic rooflines and other townscape features make a positive contribution to the character of the area;
- (iv) Improve legibility and movement through a site, and fragmented urban form and the pattern of a block or local
- (v) Be of a height and massing which responds to a compatible with the streetscape and adjacent building regard to heritage assets and to the particular circumstances the site;
- (vi) Optimise the distinctive character of the existing built landscape and topography;
- (vii) Provide and ensure adequate sunlight, daylight and aspects to all parts of the development and adjacent built and land and ensure that proposals are not obtrusive

# Journey Process







Team: PLC

Application Number: 16/01885/PRDE Date Received: 22/10/2014 14/10

Address: Earlwood, Plymouth Road, Plymouth, PL3 6EE

Fee Due £86

Receipt Details: 00205626 Received £ RM 86 Balance £ 86.00

Ward: Efford Hipson

Current Enforcement Case: No Employee/Member: No Pre application Received: No

Previous applications: SEE HISTORY SHEET ON WISDOM OR NO HISTORY

Booked in by (initials): SC

Constraints	Complete	Constraints	Complete
Conservation Area	X	Article 4	
Listed Building	X	Airport Safeguarding	
Setting of Listed Building	X	Classified Road	
Ad Zone	X	Strategic Cycle Network	X
Preservation number	X	Ancient Monument	X
Quality Management Area	X	Coastal	X
Conservation Zones	X		
Rights Removed (app no's)	X		
Other constraints:			

Allocated to: CC By: L. B Date: 29.9.16

Description: single storey extension

↓ TEAM LEADER TO COMPLETE ↓

↓ OFFICER TO COMPLETE ↓

ETR Code: 26

P-Code: 1016 P0810 Committee/Delegated Fast tracked: Yes / No

Is the application retrospective: Yes / No If yes, please notify your Team Leader

S106 - Delete app ack and send 'app ack DT received' letter  
Send copy of S106 memo, app form, ggp site plan and copies of title deeds to officer

Press Advert Reason(s)	Tick	Publicity and consultation:
Major		Site Notices required?
PP in a Conservation Area (also send press ad to EH)		Number of Site Notices (at least 2):
Listed Building Consent (also send press ad to EH)		Yes / No
Setting of a listed building (also send press ad to EH)		

**PLANNING**  
Plymouth City Council, Cn  
T 01752 304366  
E planningconsents@plym

Application for a  
Town and Cou  
Town and Country P  
You can complete and submit

Publication of applications  
Please note that the information  
Authority's website. If you require

Please complete using block capitals  
It is important that you read the acc

1. Applicant Name and Address

Title: MR First name: DAVIES

Last name: DAVIES

Company (optional):

Unit: House number:

House name: EARLSWOOD

Address 1: PLYMOUTH

Address 2: PLYMOUTH

Address 3:

Town:

County:

Country:



“Once a year, planning officers go on **bus** tours to count the developments.”

— Local planning authority

- [background to development of the core strategy v6, 2010 \[pdf, 264.1Kb\]](#)
- [Bishopsgate Goods Yard Interim planning guidance 2010 \[pdf, 4.64Mb\]](#)
- [core strategy issues and options evidence appendix \[pdf, 353.89Kb\]](#)
- [Dalston area action plan 2013 \[pdf, 1.33Mb\]](#)
- [development management consultation report July 2013 \[pdf, 188.21Kb\]](#)
- [development management local plan - draft for public participation July 2012 \[pdf, 2.05Mb\]](#)
- [development management local plan - equalities impact assessment publication July 2013 \[pdf, 1.04Mb\]](#)
- [development management local plan - equality impact assessment - draft for public participation \(July 2012\) \[pdf, 135.9Kb\]](#)
- [development management local plan - habitat regulations assessment - draft for public participation \(July 2012\) \[pdf, 3.0Mb\]](#)
- [Development management local plan - sustainability appraisal - draft for public participation \(July 2012\) \[doc, 6.09Mb\]](#)
- [development management local plan - sustainability appraisal publication July 2013 \[pdf, 1.65Mb\]](#)
- [equalities impact assessment, 2009 \[pdf, 348.58Kb\]](#)
- [Hackney regeneration delivery framework 2009 \[pdf, 4.25Mb\]](#)
- [Hackney borough profile, 2006 \[pdf, 3.33Mb\]](#)
- [Hackney Central area action plan 2012 \[pdf, 3.66Mb\]](#)
- [Hackney core strategy \(adopted 2010\) \[pdf, 4.7Mb\]](#)
- [Hackney core strategy, a strategic alignment report, 2009 \[pdf, 704.13Kb\]](#)
- [Hackney infrastructure assessment and delivery plan 2011-14 \[pdf, 4.09Mb\]](#)
- [Hackney planning contributions supplementary planning document, 2006 \[pdf, 2.13Mb\]](#)
- [Hackney UDP saved proposals map \[pdf, 3.11Mb\]](#)
- [Hackney unitary development plan 1995 \[pdf, 1.4Mb\]](#)
- [Hackney Wick area action plan 2012 \[pdf, 12.26Mb\]](#)
- [Holman and N. Holman Torah, worship and acts of loving kindness: baseline indicators for the Charedi community in Stamford Hill, 2002 \[pdf, 745.7Kb\]](#)
- [annual monitoring report 2008/09 \[pdf, 3.21Mb\]](#)
- [authority monitoring report 2011-12 \[pdf, 2.21Mb\]](#)
- [letter from GLA regarding conformity, 2013 \[pdf, 30.44Kb\]](#)
- [Local development scheme 2010-13 \[pdf, 423.2Kb\]](#)
- [Local development scheme 2013 \[pdf, 209.91Kb\]](#)
- [local plans and the national planning policy framework - compatibility self assessment checklist - LBH saved policies \[pdf, 416.05Kb\]](#)
- [London plan 2011 \[doc, 1.78Mb\]](#)

- [London plan 2011 \[doc, 1.78Mb\]](#)
- [Manor House area action plan 2013 \[pdf, 3.14Mb\]](#)
- [notes on the protection and provision of traveller sites in London Borough of Hackney \[pdf, 199.48Kb\]](#)
- [open for business - development prospectus 2010 \[pdf, 1.49Mb\]](#)
- [proposed development management local plan - policies map \(July 2012\) \[pdf, 7.34Mb\]](#)
- [public realm SPD, 2012 \[pdf, 3.38Mb\]](#)
- [representations database with officers response \(July 2013\) \[pdf, 722.48Kb\]](#)
- [residential extensions and alterations SPD, 2009 \[pdf, 5.27Mb\]](#)
- [revised early minor alterations to the London plan \(October 2013\) \[pdf, 466.46Kb\]](#)
- [SALP equality impact assessment - draft for public participation July 2012 \[pdf, 309.67Kb\]](#)
- [SALP equality impact assessment - publication July 2013 \[pdf, 862.13Kb\]](#)
- [schedule of changes to the site allocation local plan at publication stage June 2013 \[pdf, 41.48Kb\]](#)
- [site allocations local plan - consultation report July 2013 \[pdf, 189.95Kb\]](#)
- [site allocations local plan - habitats regulation assessment draft for public participation July 2012 \[pdf, 934.82Kb\]](#)
- [site allocations local plan - sustainability appraisal draft for public participation July 2012 \[pdf, 1.85Mb\]](#)
- [site allocations local plan - sustainability appraisal July 2013 \[pdf, 2.1Mb\]](#)
- [site allocations local plan - draft for public participation July 2012 \[pdf, 3.44Mb\]](#)
- [South Shoreditch SPD, 2006 \[pdf, 2.71Mb\]](#)
- [statement of Licensing 2011 \[pdf, 920.31Kb\]](#)
- [sustainable community strategy 2008-2018 \(2009\) \[pdf, 5.37Mb\]](#)
- [Woodberry Down regeneration: A framework for regeneration, 2009 \[pdf, 10.98Mb\]](#)

[Back to top](#)

## Built environment

- [Hackney tall building strategy - phase 1 - baseline studies \[pdf, 1.72Mb\]](#)
- [Hackney tall building strategy - phase 2 - urban analysis and conclusion \[pdf, 2.6Mb\]](#)
- [Hackney tall building strategy - phase 3 - detailed area studies \[pdf, 2.59Mb\]](#)
- [Hackney tall building strategy - phase 4 - tall buildings design guidance and application checklist \[pdf, 1.64Mb\]](#)
- [London view management framework, 2012 \[doc, 468Kb\]](#)
- [The state of Hackney's historic environment, 2005 \[pdf, 2.13Mb\]](#)

## Tall buildings study

Please note: Although the material has been commissioned by Hackney, for Hackney and is on our website, these reports are the work of independent consultants and any recommendations contained in the reports should not be taken as approved Hackney policy.

## **Tall buildings study**

Please note: Although the material has been commissioned by Hackney, for Hackney and is on our website, these reports are the work of independent consultants and any recommendations contained in the reports should not be taken as approved Hackney policy.

- [Tall buildings summary report \[pdf, 12.92Mb\]](#)

## **Background report**

- [phase 1 - baseline studies \[pdf, 1.72Mb\]](#)
- [phase 2 - urban analysis \[pdf, 2.6Mb\]](#)
- [phase 3 - detailed area studies \[pdf, 2.59Mb\]](#)
- [Phase 4 - design guidance and policy recommendations \[pdf, 1.64Mb\]](#)

## **Employment**

- [Hackney employment growth options study update, 2010 \[pdf, 1.57Mb\]](#)
  - [Hackney employment growth options study: Comparison of 2006 and 2009 designations \[pdf, 4.23Mb\]](#)
  - [Hackney employment growth options study: Hackney areas \[pdf, 5.48Mb\]](#)
  - [Hackney employment growth options study: Recommended policy designations \[pdf, 4.53Mb\]](#)
- [Hackney employment growth options study final report , 2006 part 1 \[pdf, 4.61Mb\]](#)
  - [Hackney employment growth options study final report , 2006 part 2 \[pdf, 1.97Mb\]](#)
  - [Hackney employment growth options: appendices \[pdf, 719.8Kb\]](#)
- [review of live-work policy in Hackney, London residential research, 2005 \[pdf, 730.05Kb\]](#)
- [study of small business workspace provision in Hackney, 2006 \[pdf, 749.78Kb\]](#)

## **Employment growth options study**

Please note: Although the material has been commissioned by the Council, for Hackney and is on our website, these reports are the work of independent consultants and any recommendations contained in the reports should not be taken as approved Hackney policy.

- [evidence day employment presentation boards \[pdf, 1.17Mb\]](#)

Presentation boards are a summary of the work completed to date.

## **Executive summary**

- [employment growth options study executive summary report \[pdf, 91.81Kb\]](#)
- [employment growth options study executive summary map \[pdf, 3.18Mb\]](#)

## **Executive summary**

- [employment growth options study executive summary report \[pdf, 91.81Kb\]](#)
- [employment growth options study executive summary map \[pdf, 3.18Mb\]](#)

## **Full report**

- [employment growth options study main report - part 1 \[pdf, 5.06Mb\]](#)
- [employment growth options study main report - part 2 \[pdf, 6.52Mb\]](#)

## **Appendices**

- [employment growth options study appendices \[pdf, 719.8Kb\]](#)

[Back to top](#)

## **Environment**

- [air quality action plan 2006 \[doc, 7.98Mb\]](#)
- [air quality action plan update 2010 \[doc, 7.98Mb\]](#)
- [Bio-diversity action plan 2012-2017 \[pdf, 5.3Mb\]](#)
- [cleaning the air: the Mayor's air quality strategy 2010 \[pdf, 4.98Mb\]](#)
- [contaminated land strategy \[pdf, 703.48Kb\]](#)
- [heat mapping report \[pdf, 4.94Mb\]](#)
- [Hackney state of the environment report , 2008 \[pdf, 4.01Mb\]](#)
- [Hackney climate change strategy, 2009 \[pdf, 352.89Kb\]](#)
- [strategic flood risk assessment level 2 \[pdf, 2.98Mb\]](#)
  - [strategic flood risk assessment level 2:: appendix B data register \[pdf, 18.87Kb\]](#)
  - [strategic flood risk assessment level 2: appendix C GIS layers \[pdf, 34.67Kb\]](#)
  - [strategic flood risk assessment level 2: appendix D figures 4A-4C \[pdf, 2.86Mb\]](#)
  - [strategic flood risk assessment level 2: appendix D figures 5A-5C \[pdf, 2.87Mb\]](#)
  - [strategic flood risk assessment level 2: appendix D figures 6A-6C \[pdf, 1.76Mb\]](#)
  - [strategic flood risk assessment level 2: appendix D figures 7-9 \[pdf, 2.14Mb\]](#)
- [Hackney strategic food risk assessment sequential test, 2009 \[pdf, 1.56Mb\]](#)
- [strategic flood risk assessment level 1, August 2008 \[pdf, 935.5Kb\]](#)
- [the North London waste plan preferred options report, 2009 \[pdf, 1.69Mb\]](#)
- [surface water management plan 2010 \[pdf, 4.51Mb\]](#)

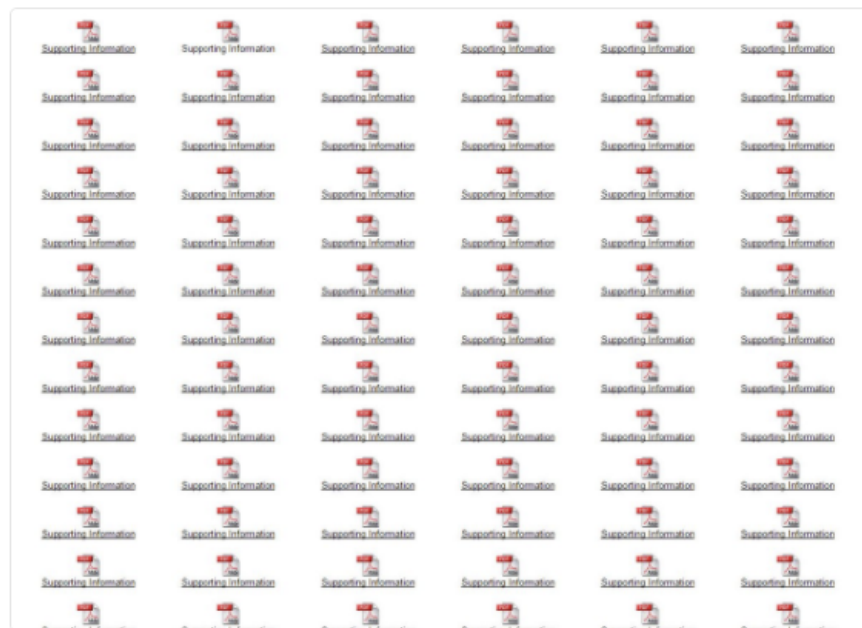


**Paul Wellman**  
@PaulWellman\_EG

Following



The planning pages for [@SuttonCouncil](#) really are the worst. Can't be bothered to name documents. Pot luck until you find what you're after.



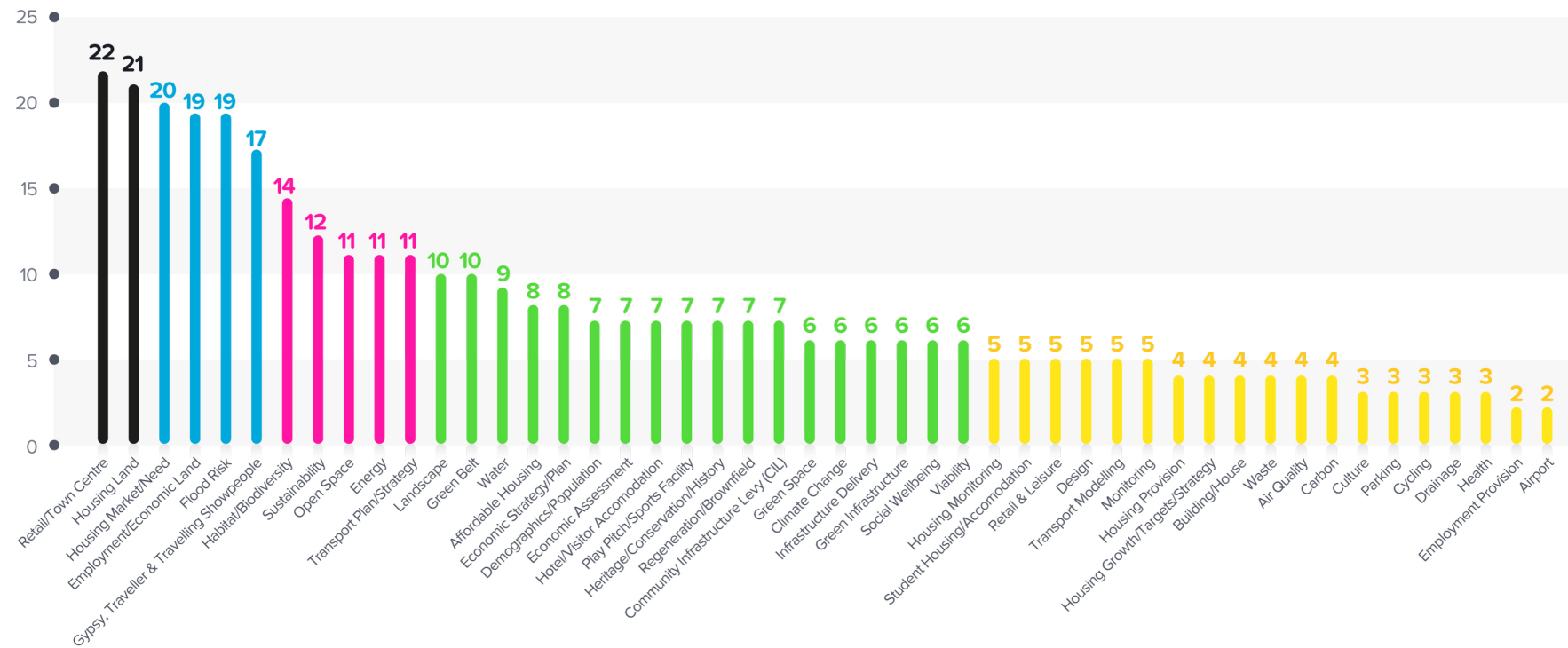


We can't rely on **19th century institutions** and **20th century tools** to plan for **21st century places**

**"Data** is the most valuable asset on earth"

**Britanny Kaiser**

# Local Plan evidence documents

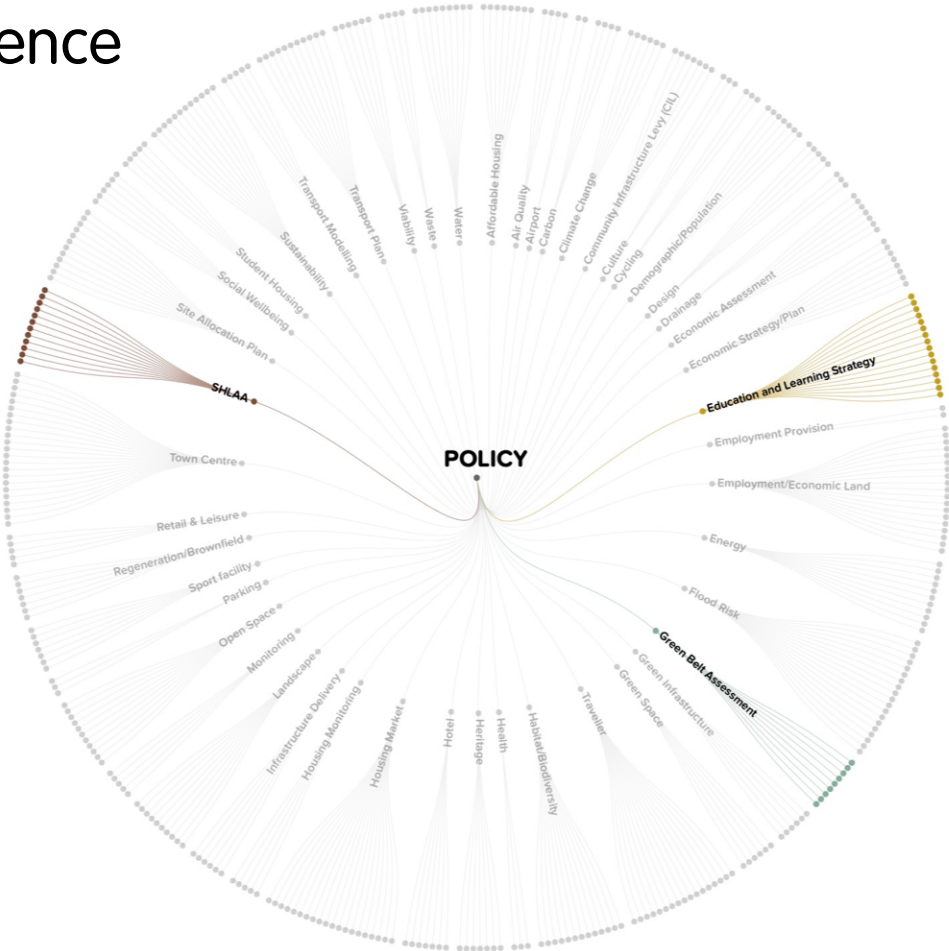


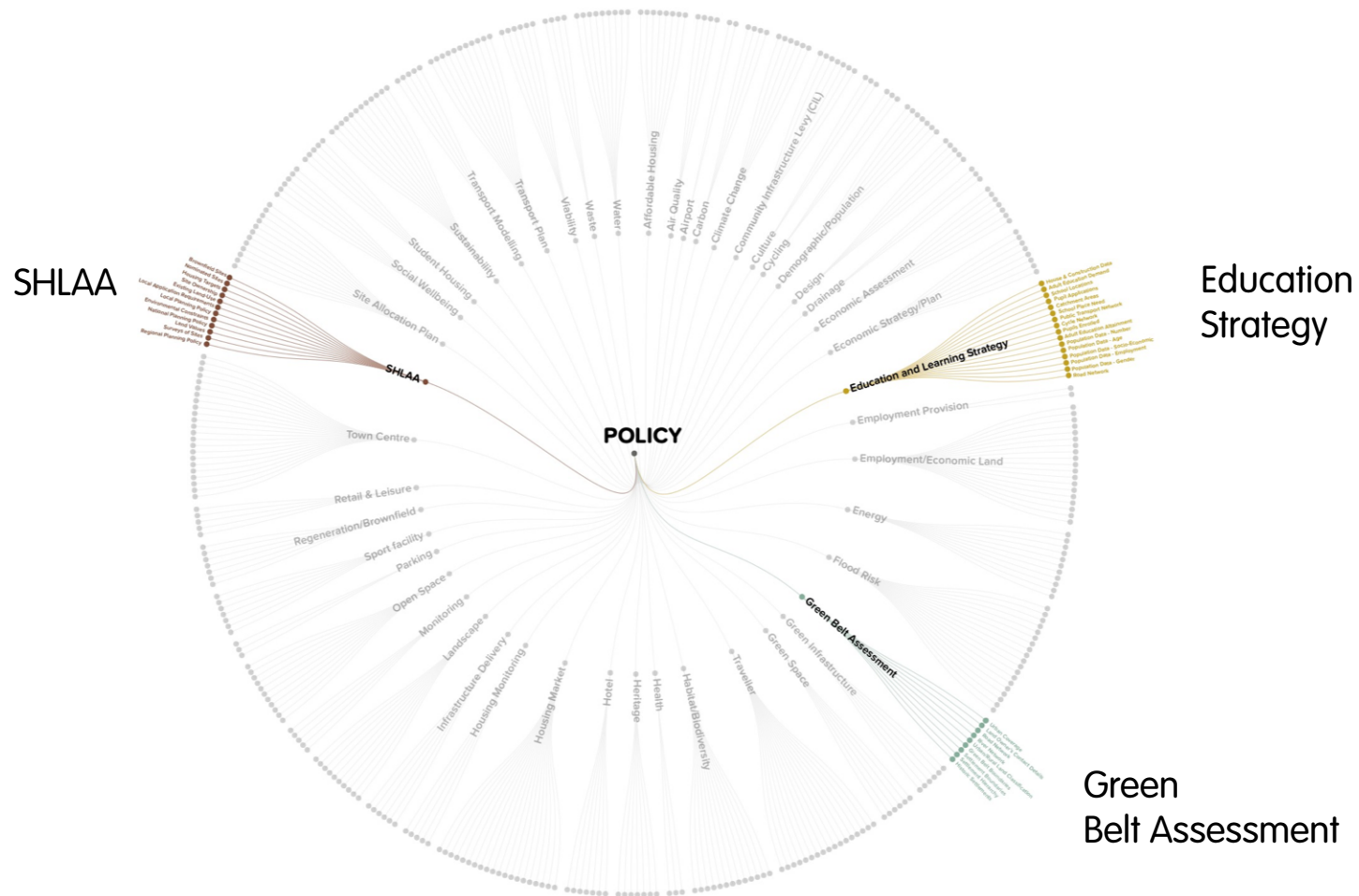
## Local Plan evidence

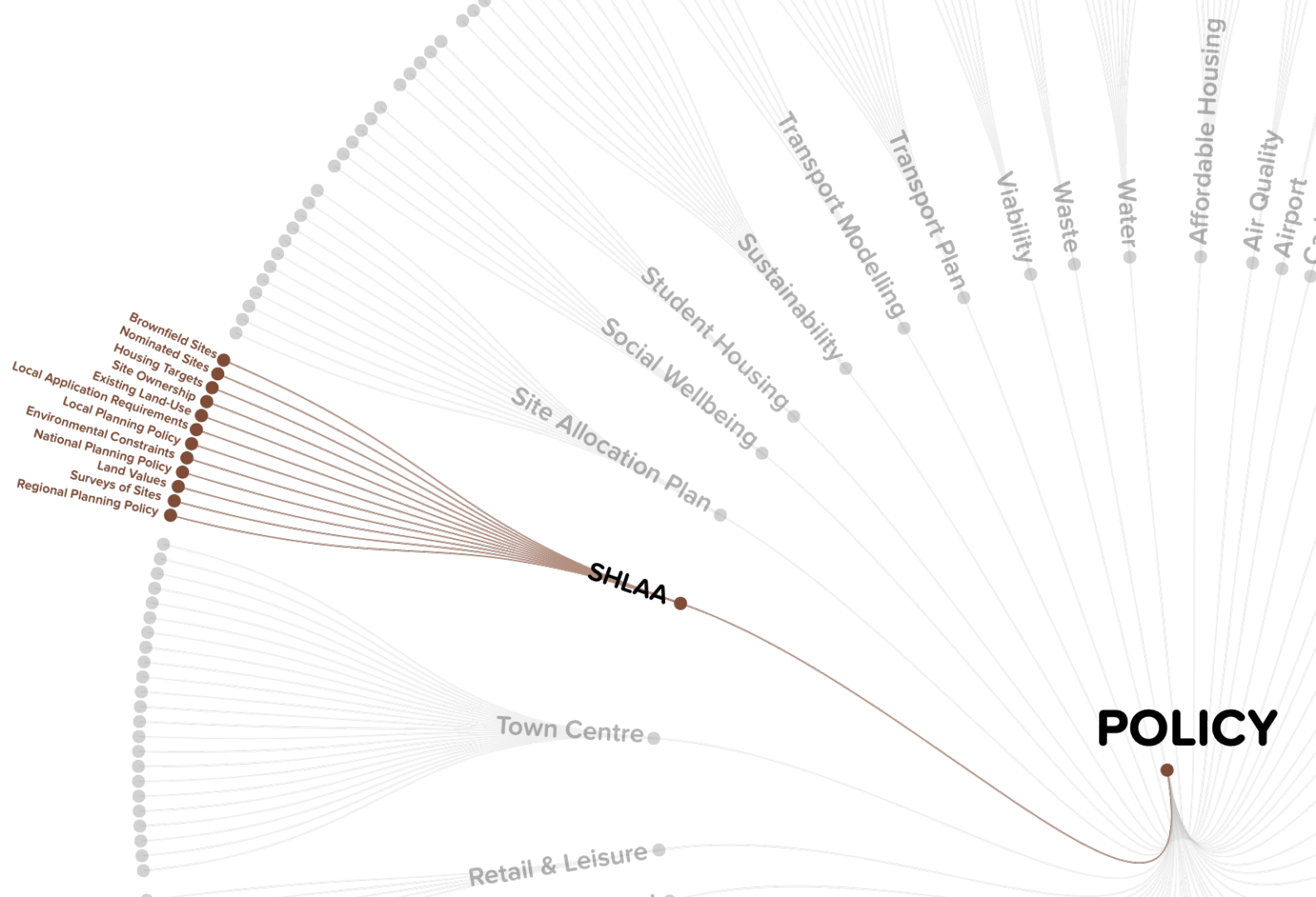


## 50± Evidence Base Report

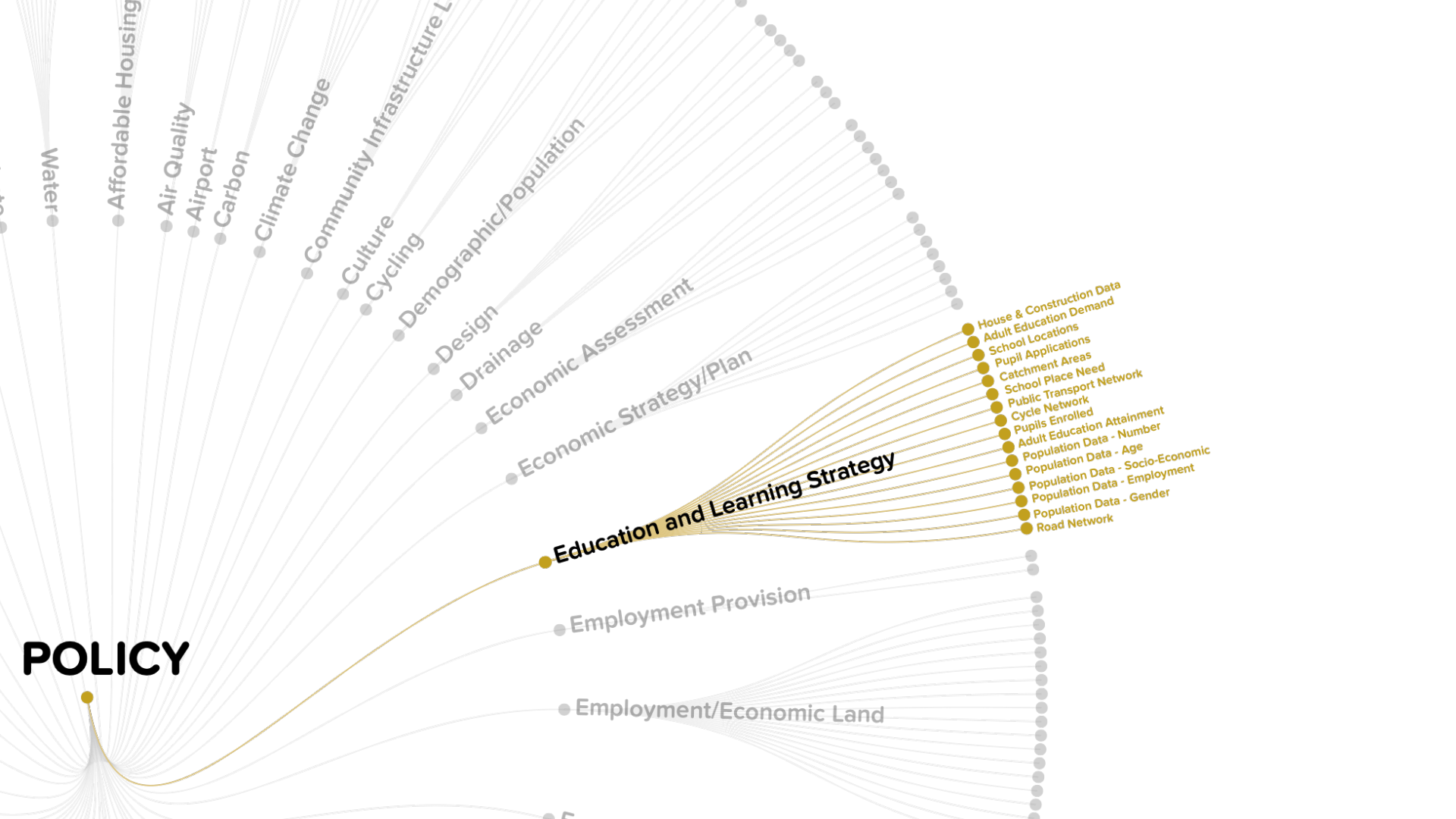
# Local Plan evidence



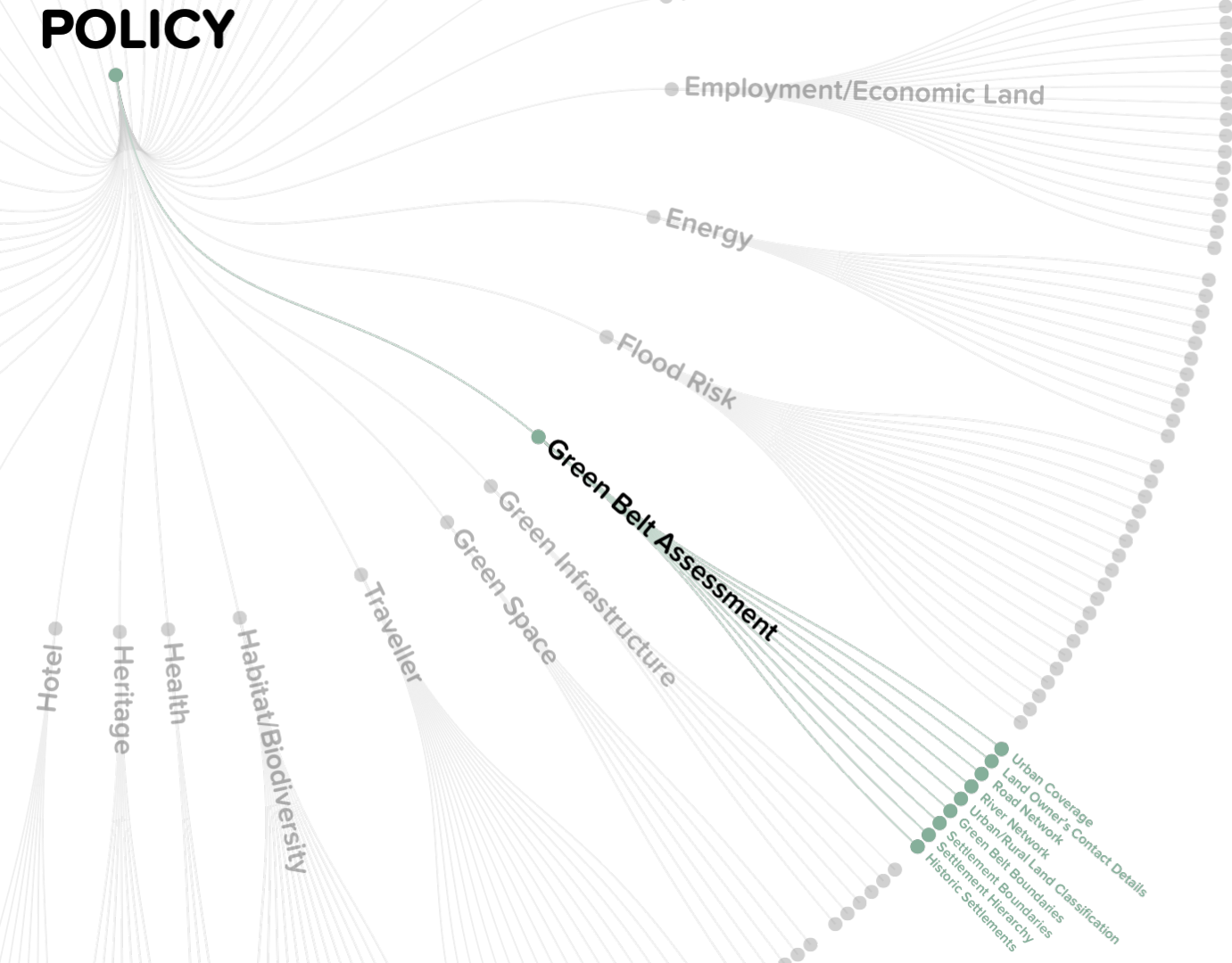


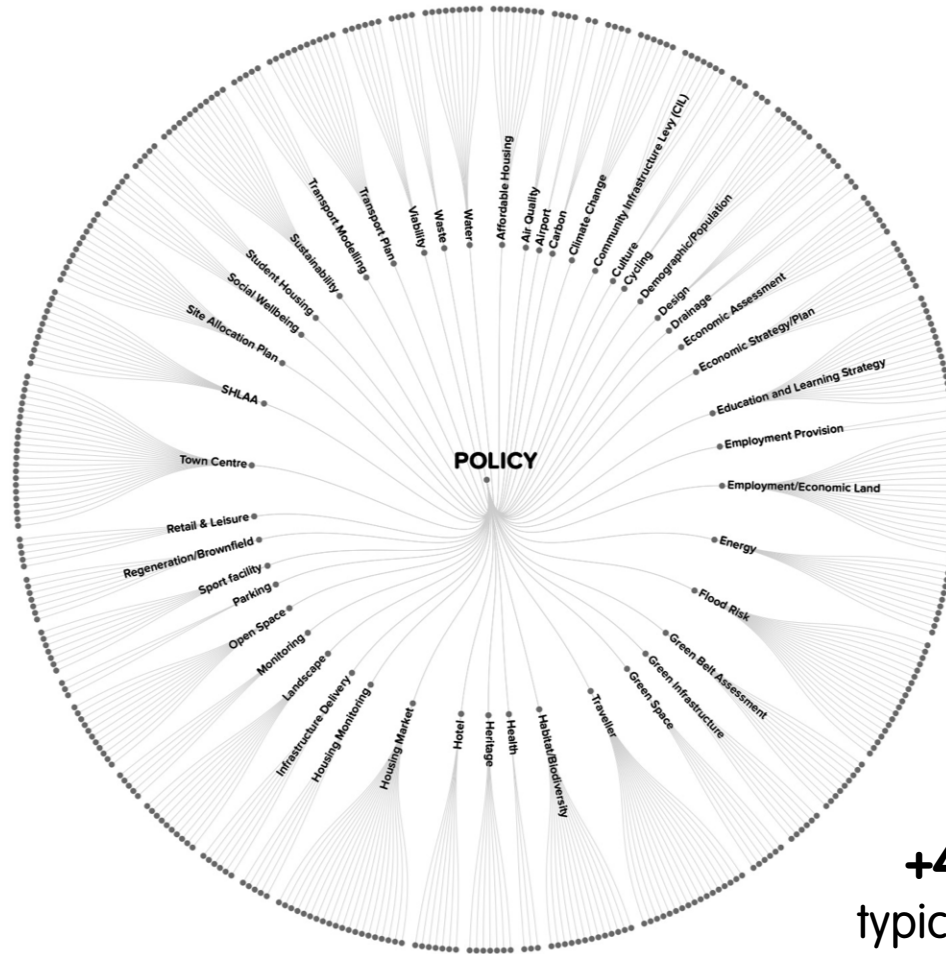


# POLICY



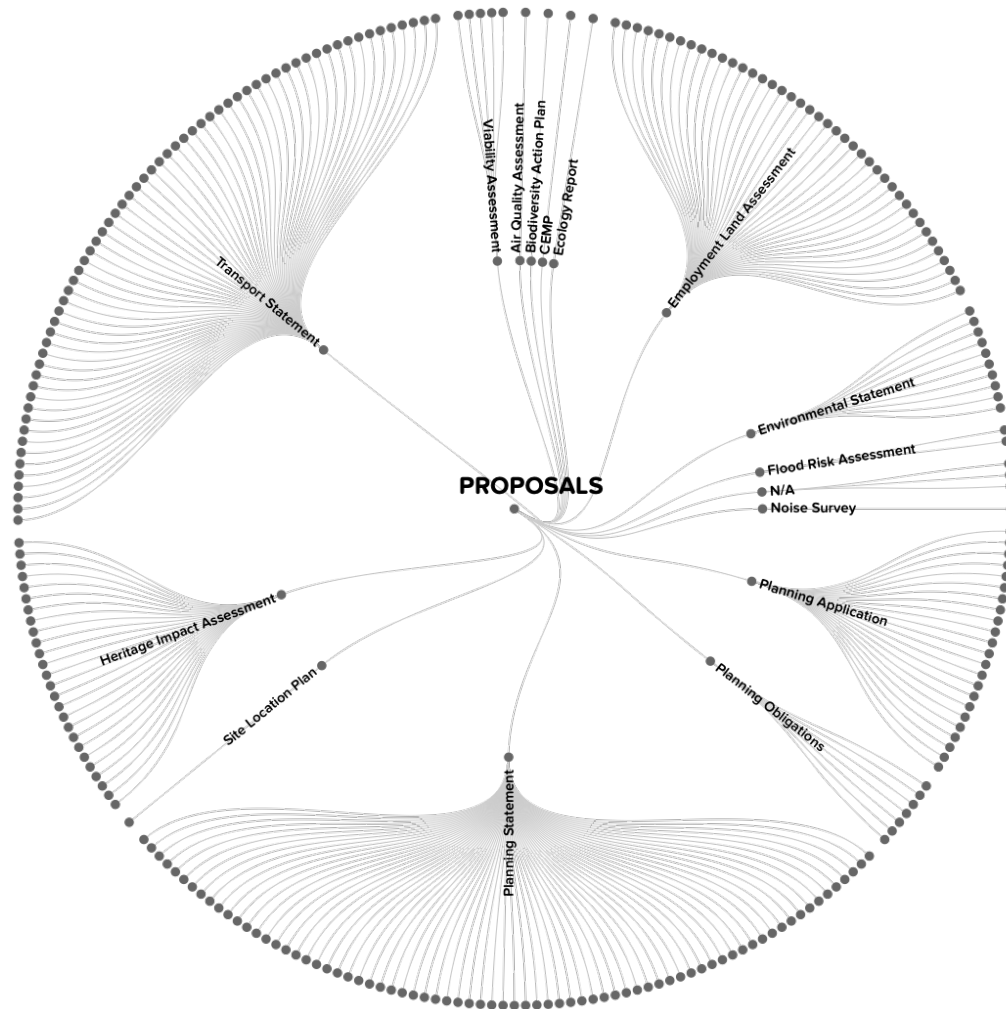
# POLICY





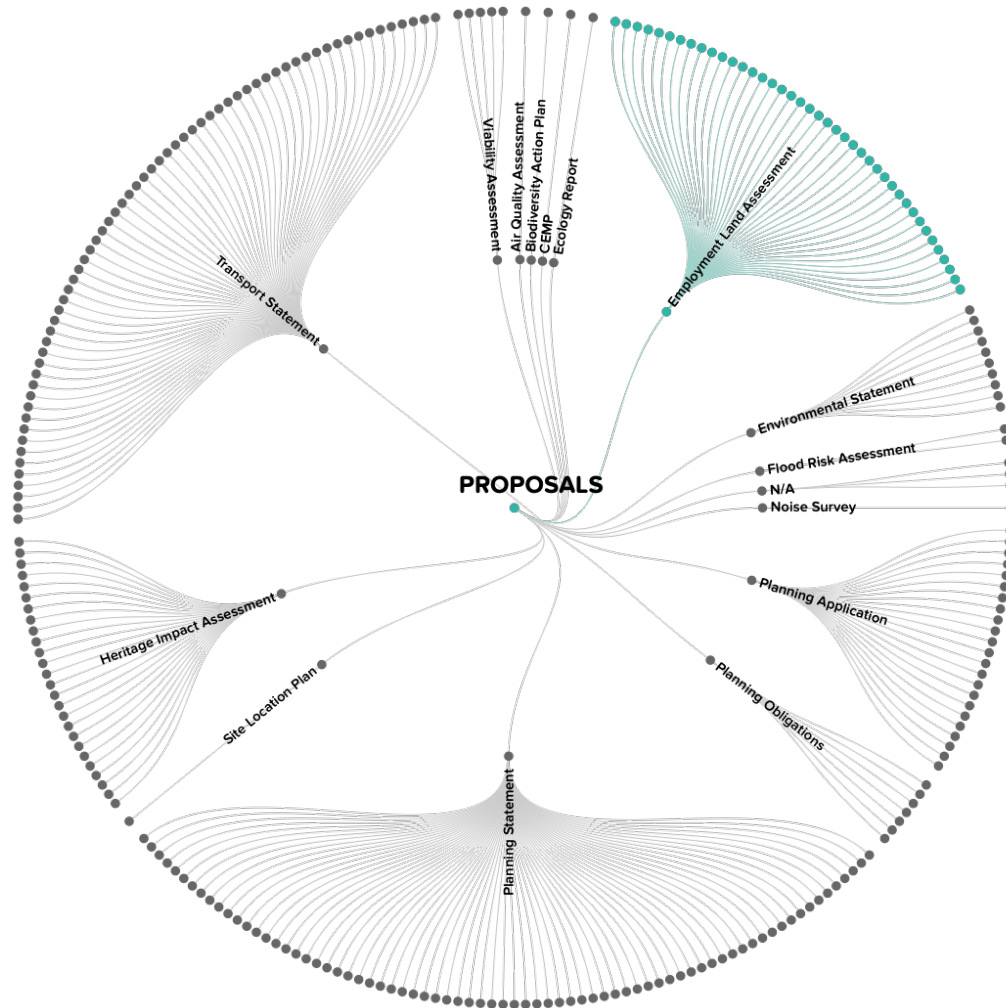
**+400** Data-Sets for a  
typical Local Plan Evidence

# Large Planning Application



## 350± Data-Sets

## 20± Documents

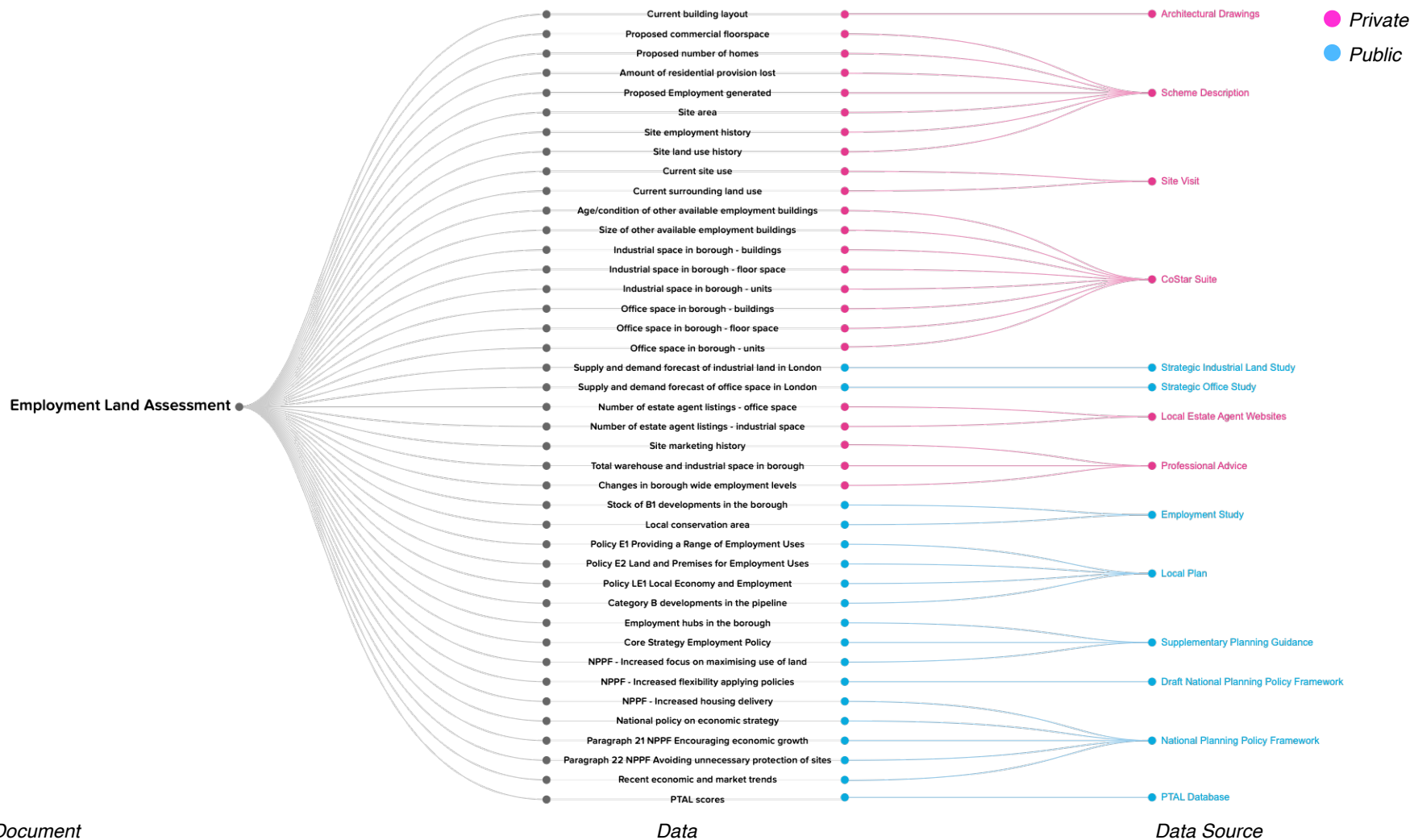


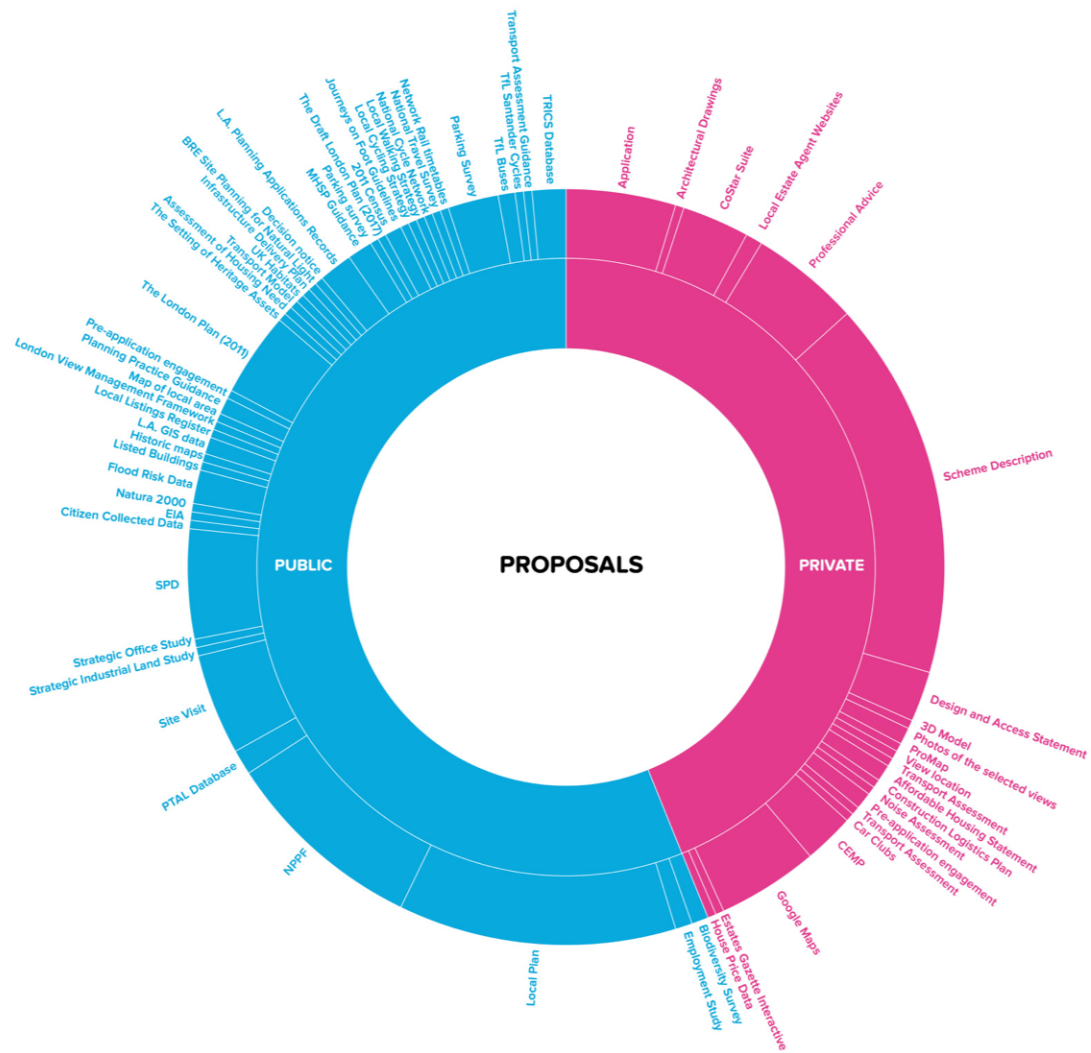
## Employment Land Assessment

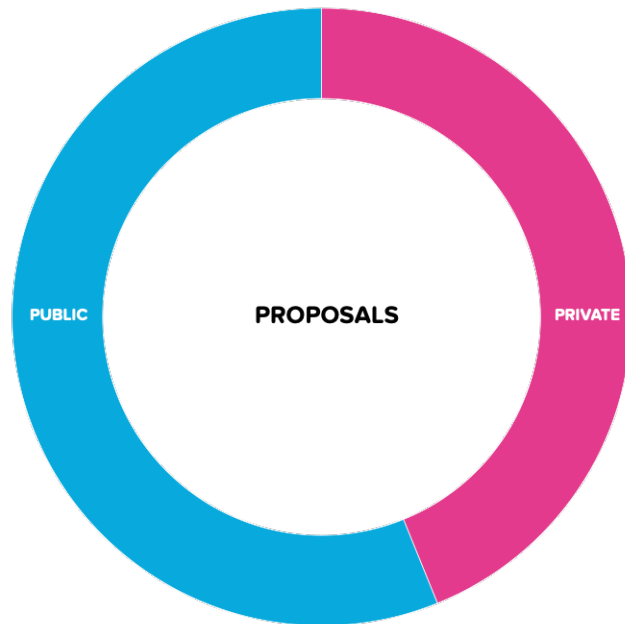
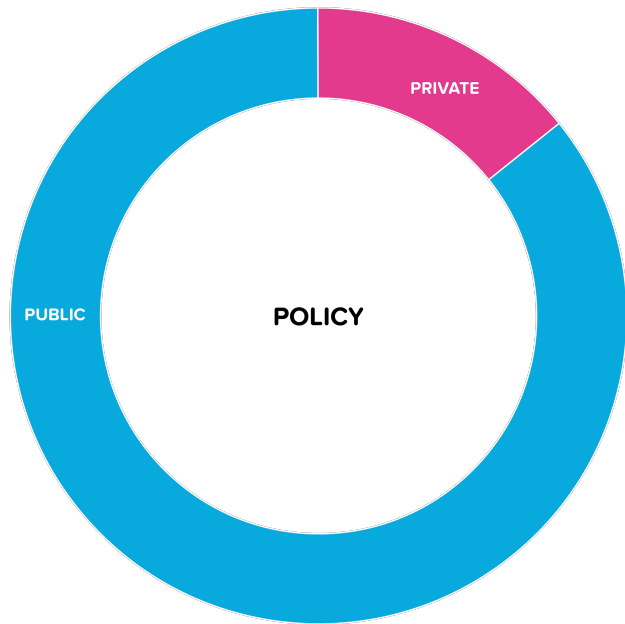
## Employment Land Assessment ●

- Current building layout
- Proposed commercial floorspace
- Proposed number of homes
- Amount of residential provision lost
- Proposed Employment generated
- Site area
- Site employment history
- Site land use history
- Current site use
- Current surrounding land use
- Age/condition of other available employment buildings
- Size of other available employment buildings
- Industrial space in borough - buildings
- Industrial space in borough - floor space
- Industrial space in borough - units
- Office space in borough - buildings
- Office space in borough - floor space
- Office space in borough - units
- Supply and demand forecast of industrial land in London
- Supply and demand forecast of office space in London
- Number of estate agent listings - office space
- Number of estate agent listings - industrial space
- Site marketing history
- Total warehouse and industrial space in borough
- Changes in borough wide employment levels
- Stock of B1 developments in the borough
- Local conservation area
- Policy E1 Providing a Range of Employment Uses
- Policy E2 Land and Premises for Employment Uses
- Policy LE1 Local Economy and Employment
- Category B developments in the pipeline
- Employment hubs in the borough
- Core Strategy Employment Policy
- NPPF - Increased focus on maximising use of land
- NPPF - Increased flexibility applying policies
- NPPF - Increased housing delivery
- National policy on economic strategy
- Paragraph 21 NPPF Encouraging economic growth
- Paragraph 22 NPPF Avoiding unnecessary protection of sites
- Recent economic and market trends
- PTAL scores







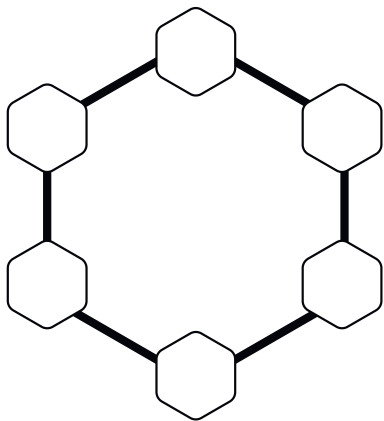


“Extracting **data from planning** can be like trying to get **eggs out of a cake**. And while cake is ideal for people who want cake, given the raw ingredients, we could also have pancakes, Welsh cakes and Yorkshire puddings.”

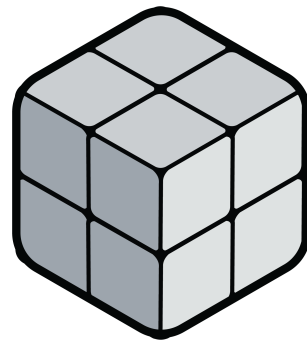
Paul Downey, MHCLG

# What could a 21st Century digital planning system look like?

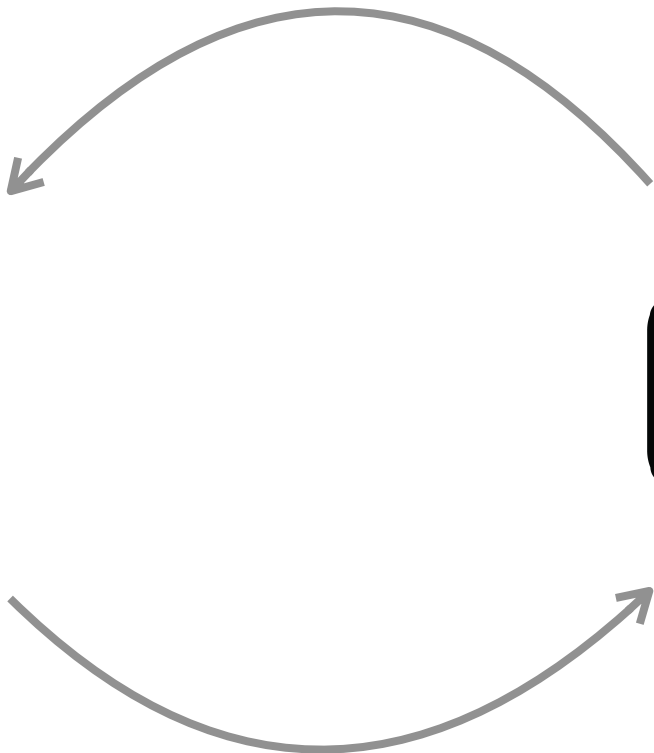
- a **federated** pattern **web** of digital planning **processes** and **data** -



Processes



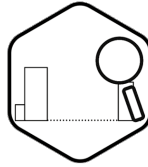
Datasets



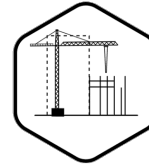
Planning Permission



Feasibility



Construction



Property life cycle



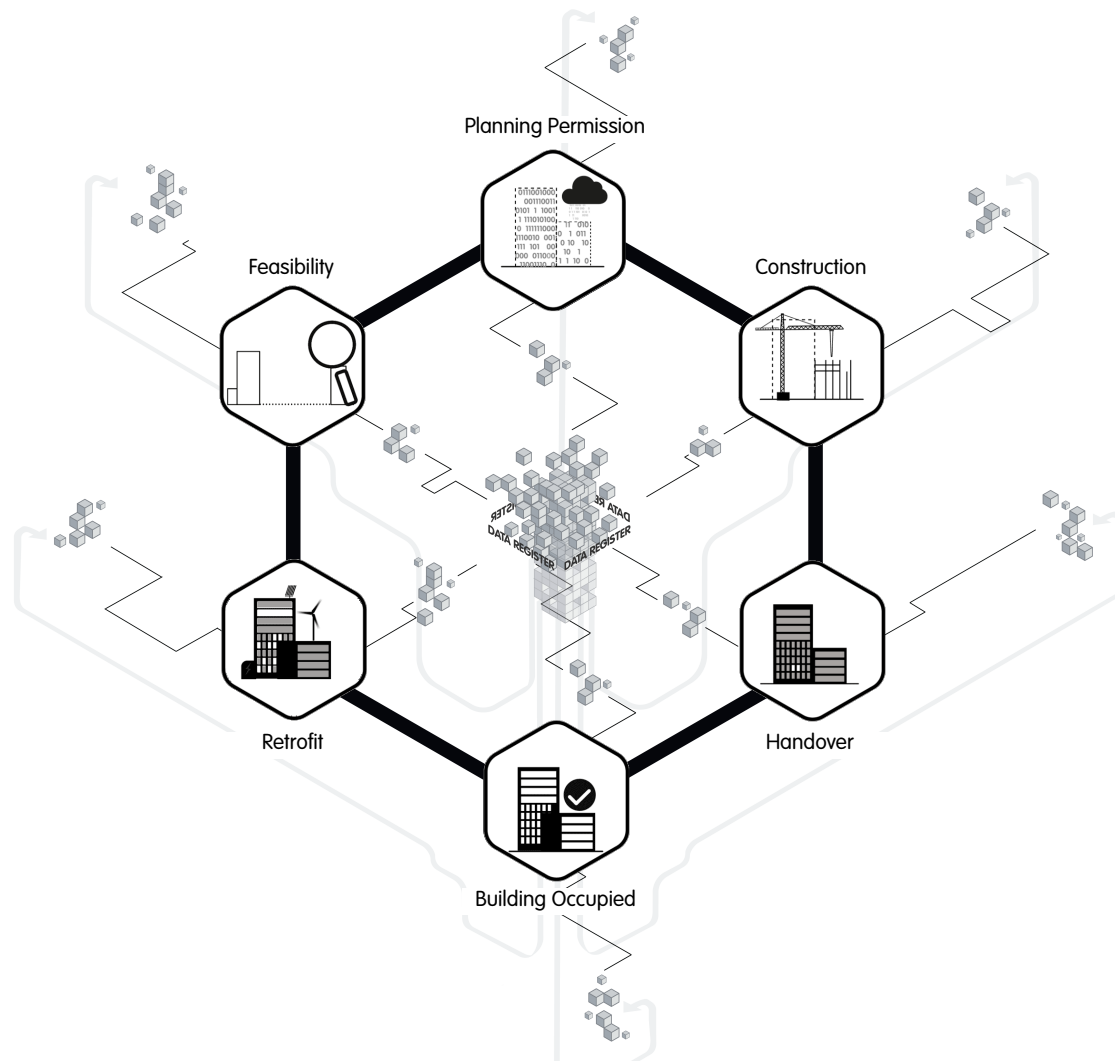
Retrofit



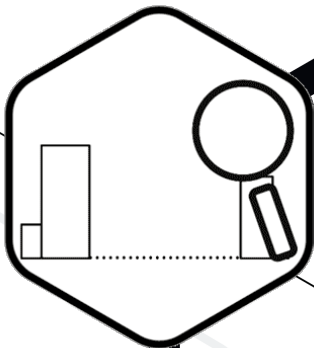
Handover



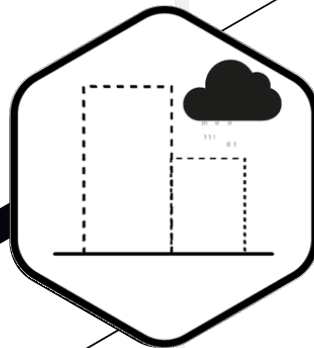
Building Occupied



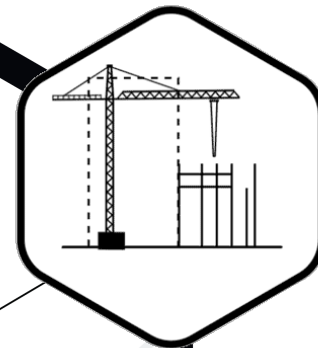
Feasibility



Planning Permission



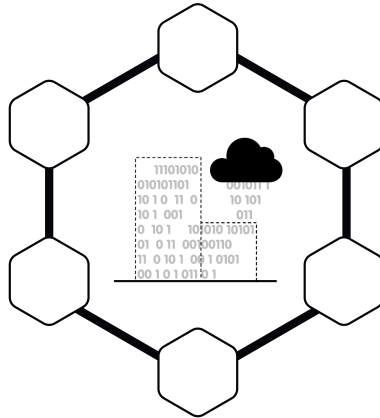
Construction

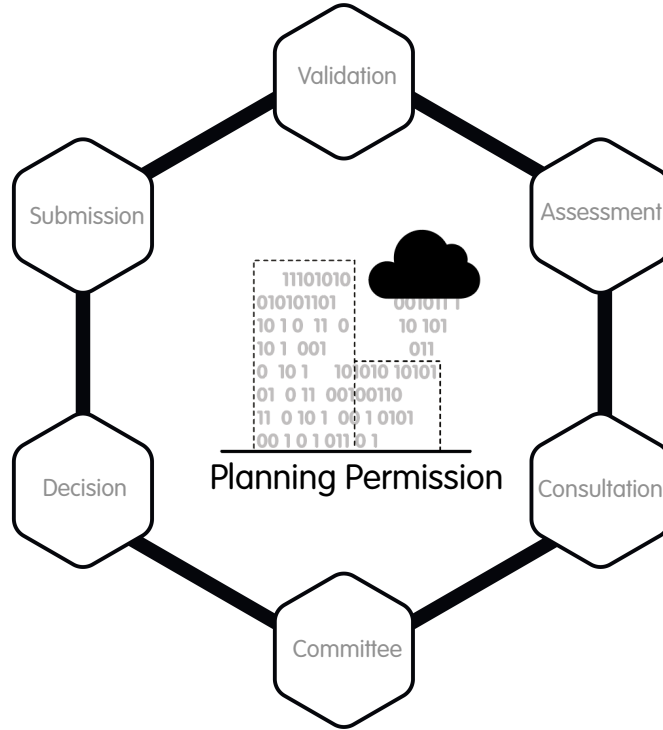


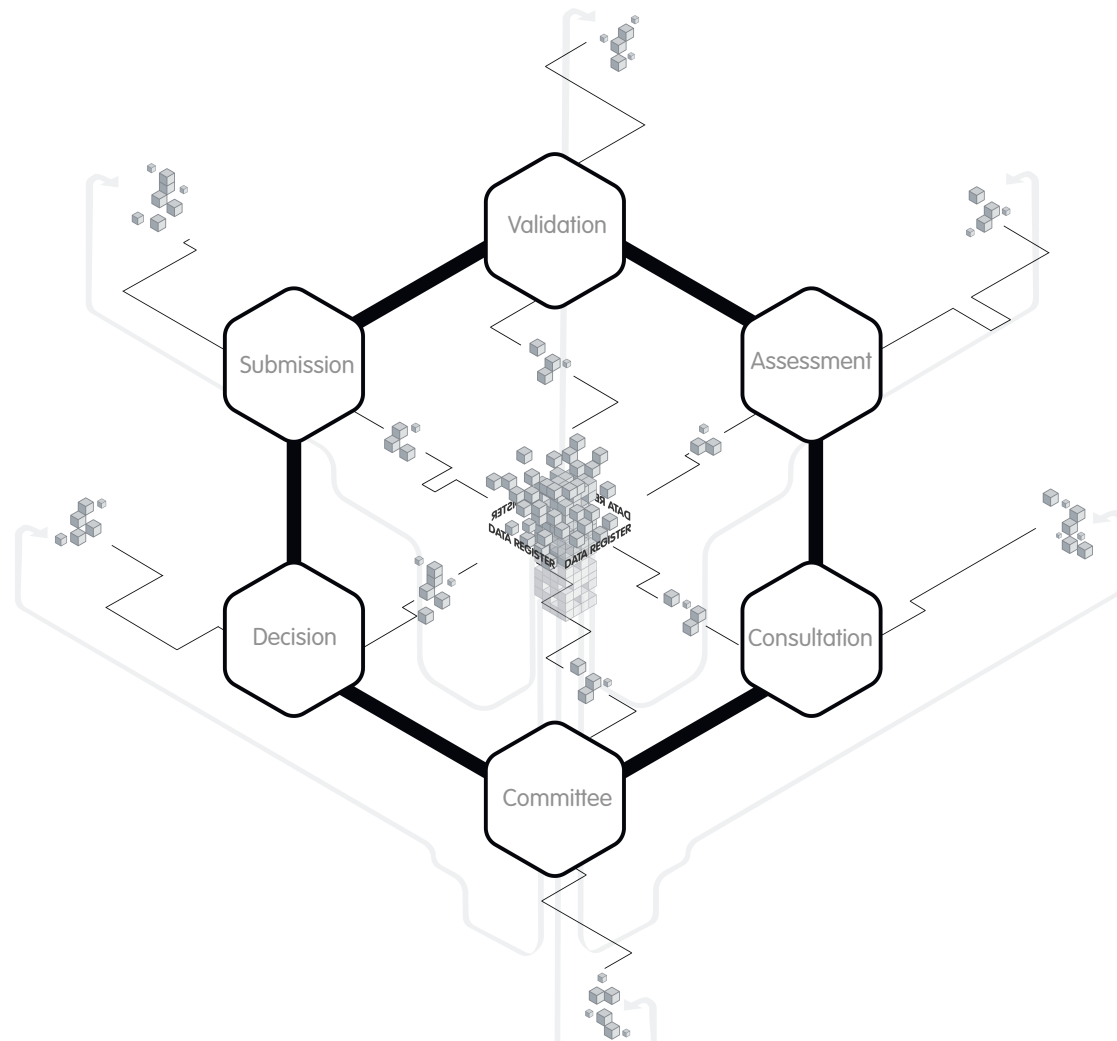
## Planning Permission

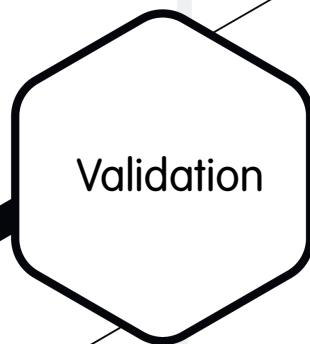


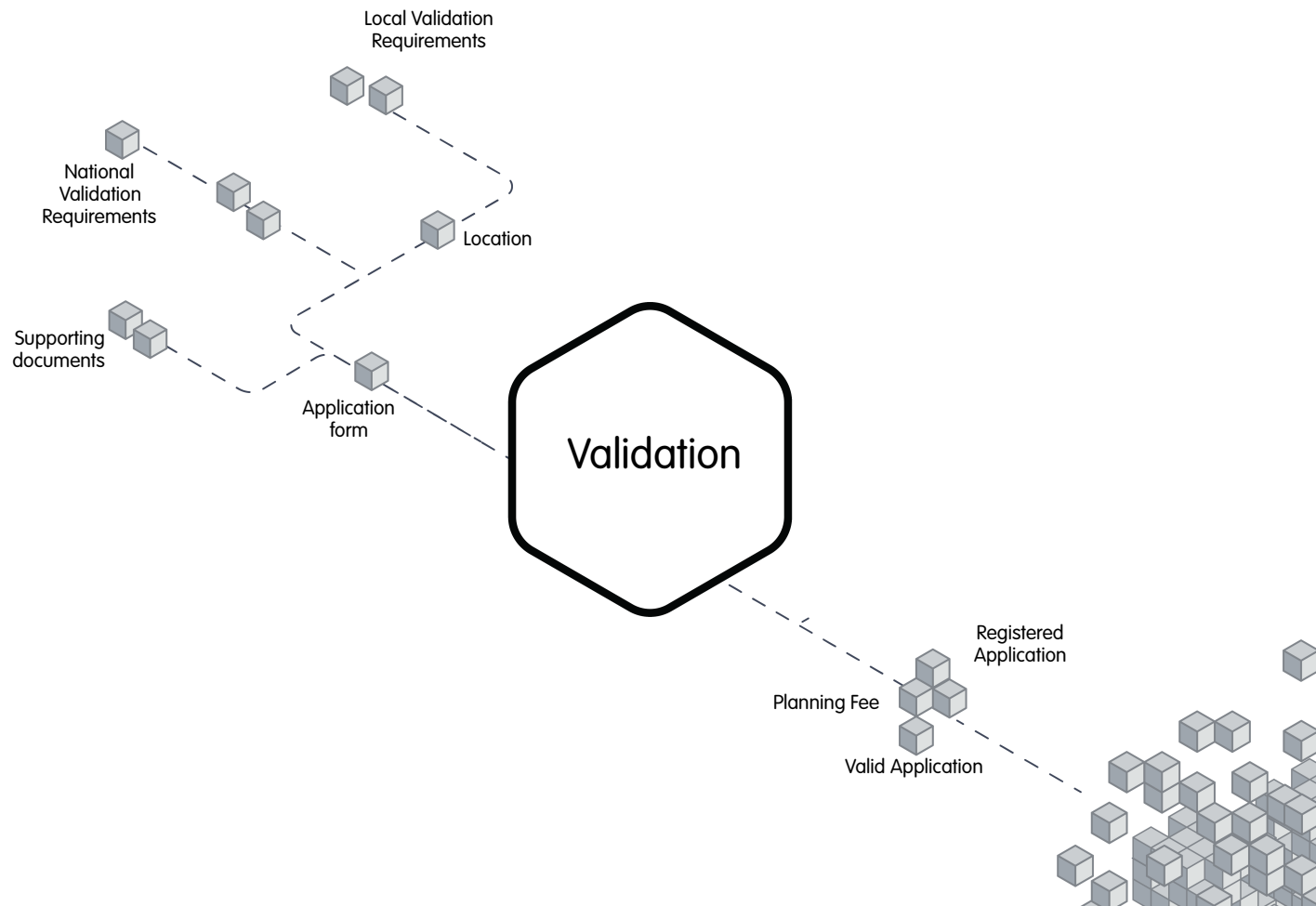
## Planning Permission

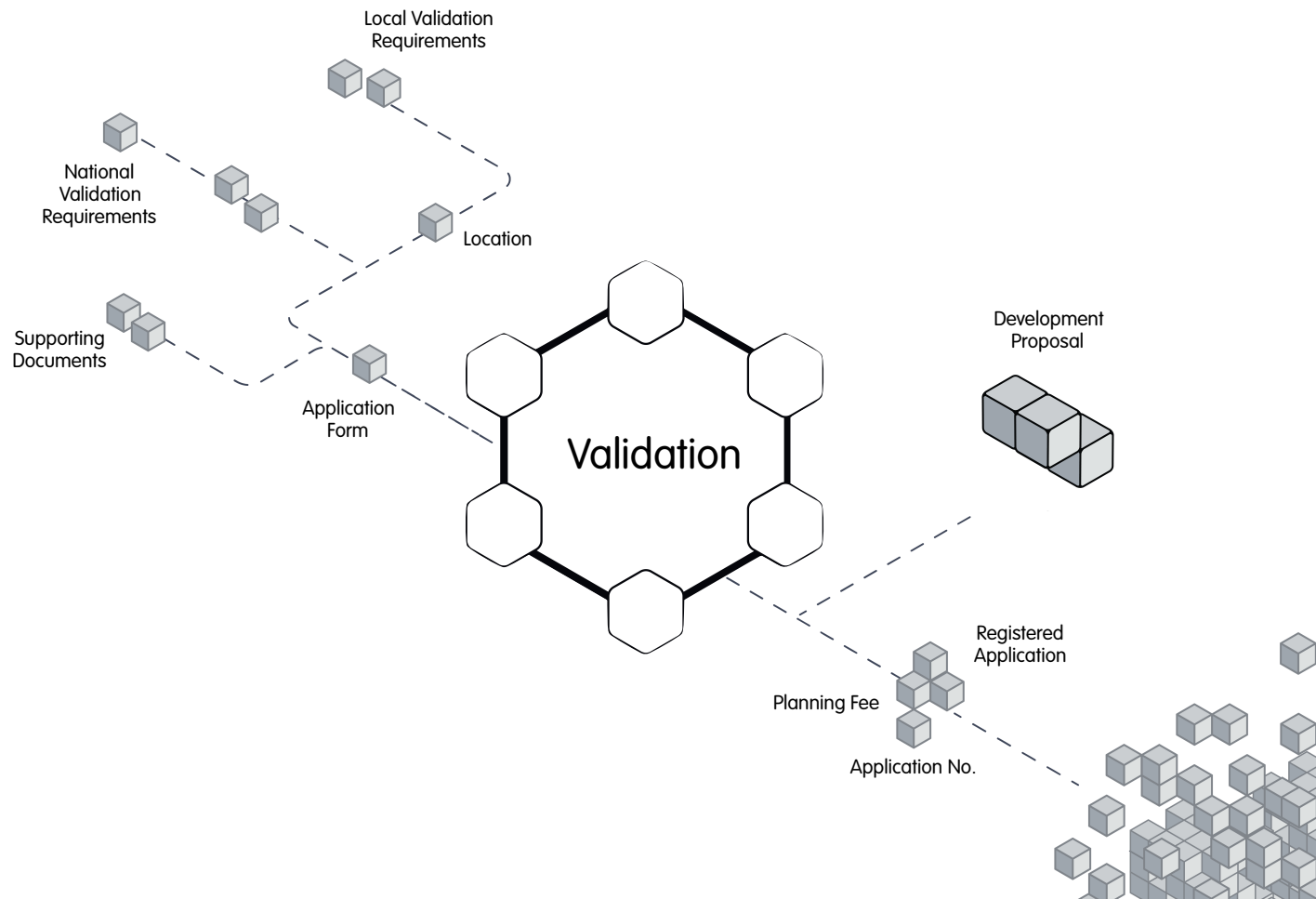


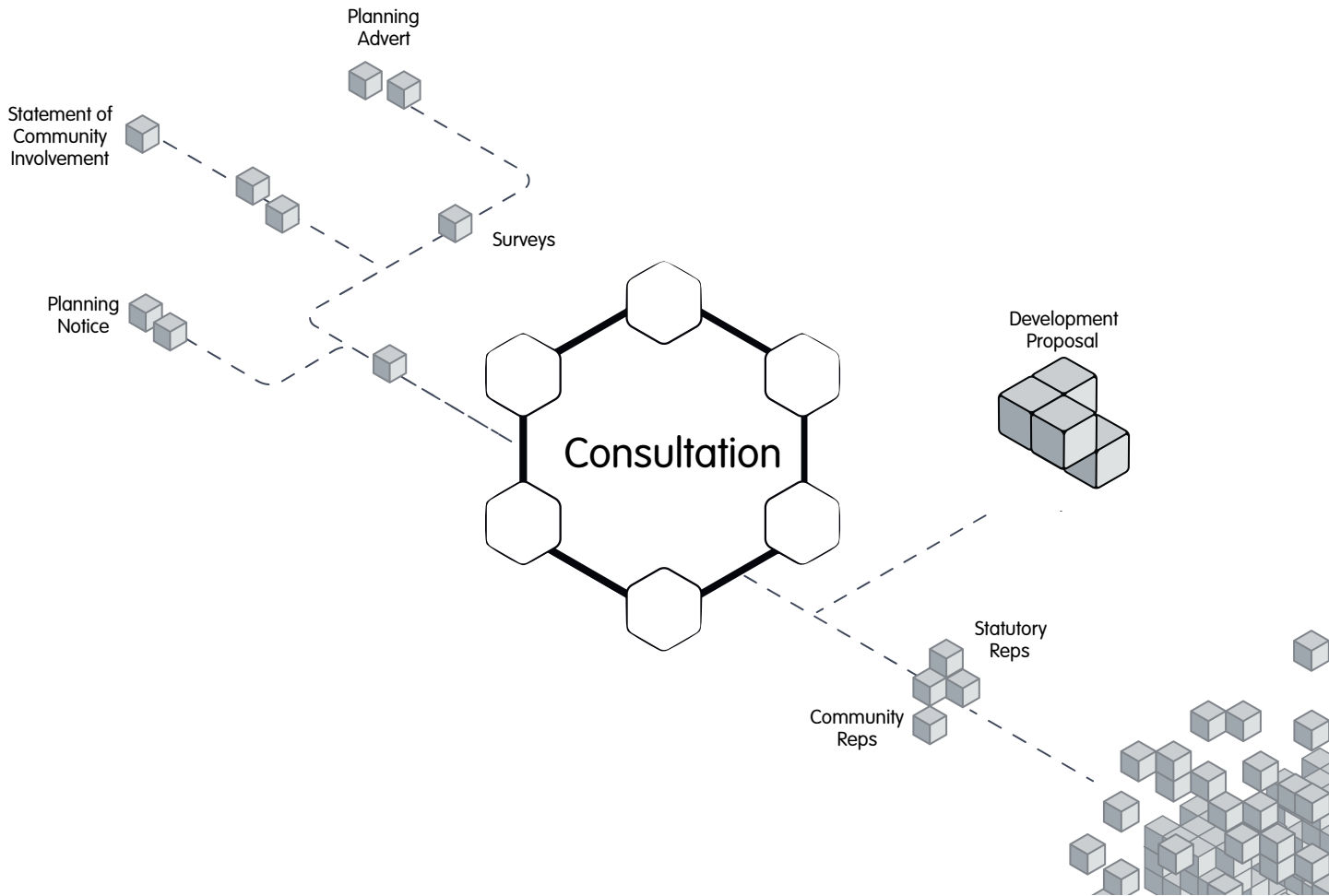


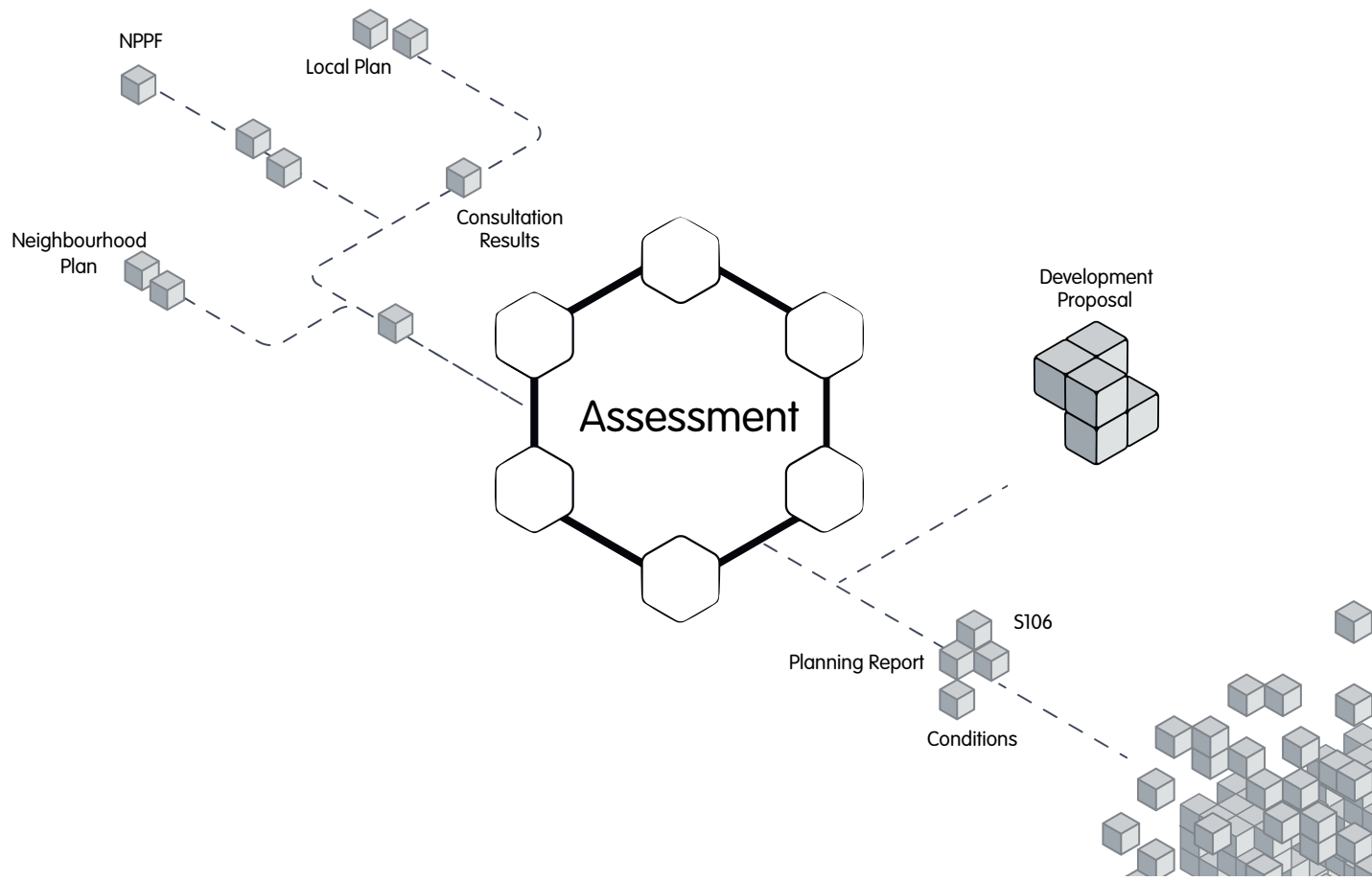


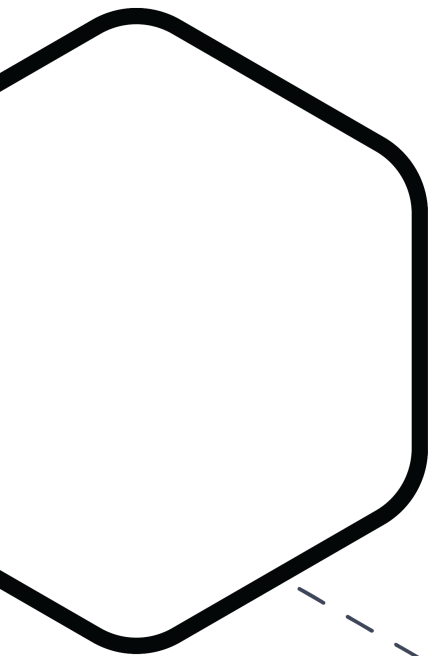




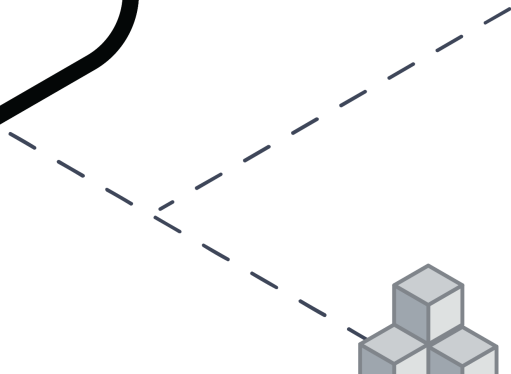
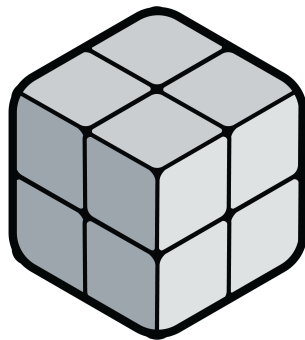




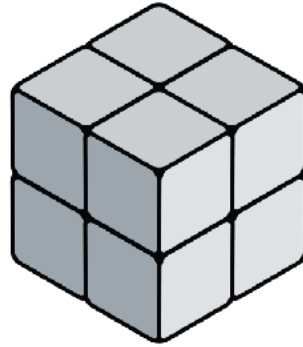


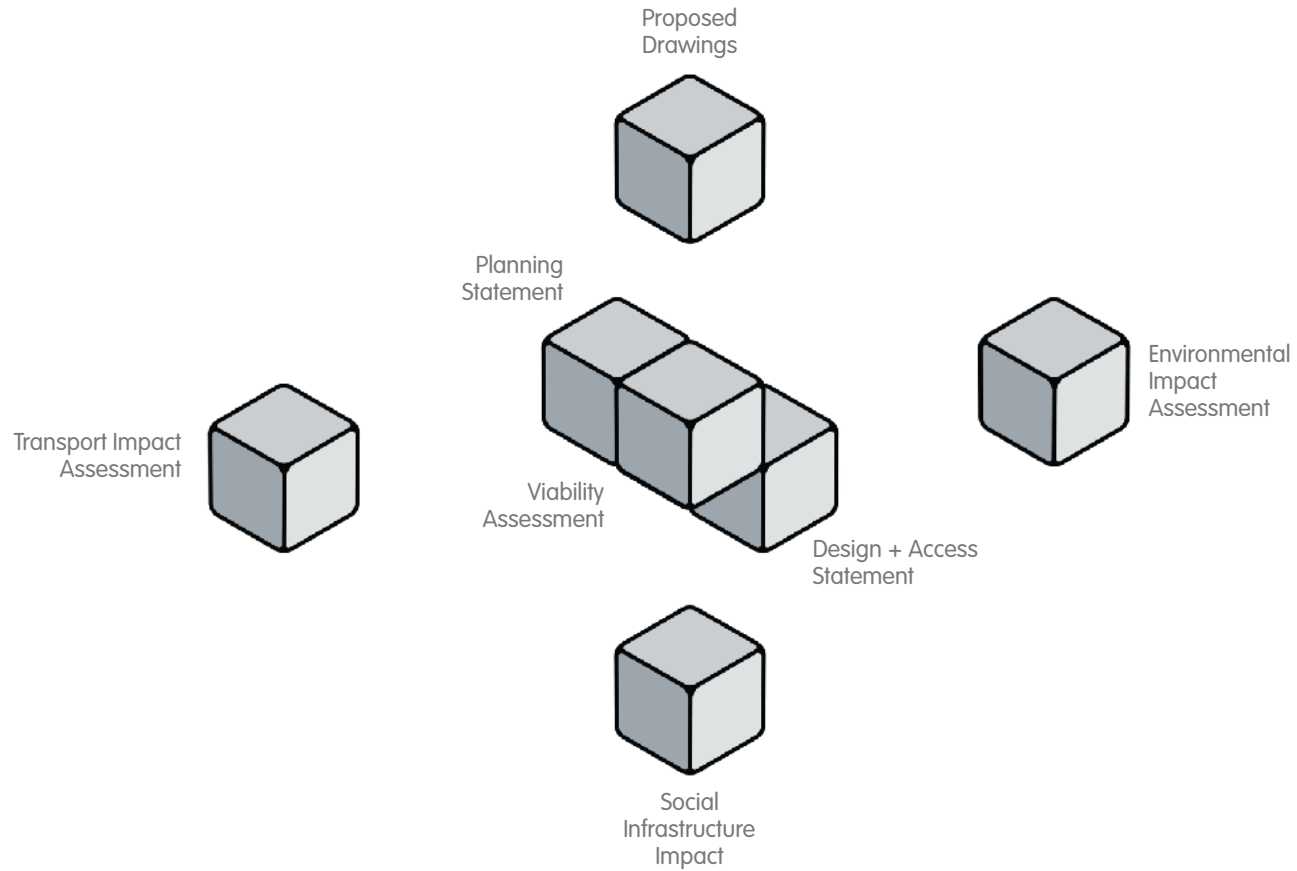


Development  
Proposal

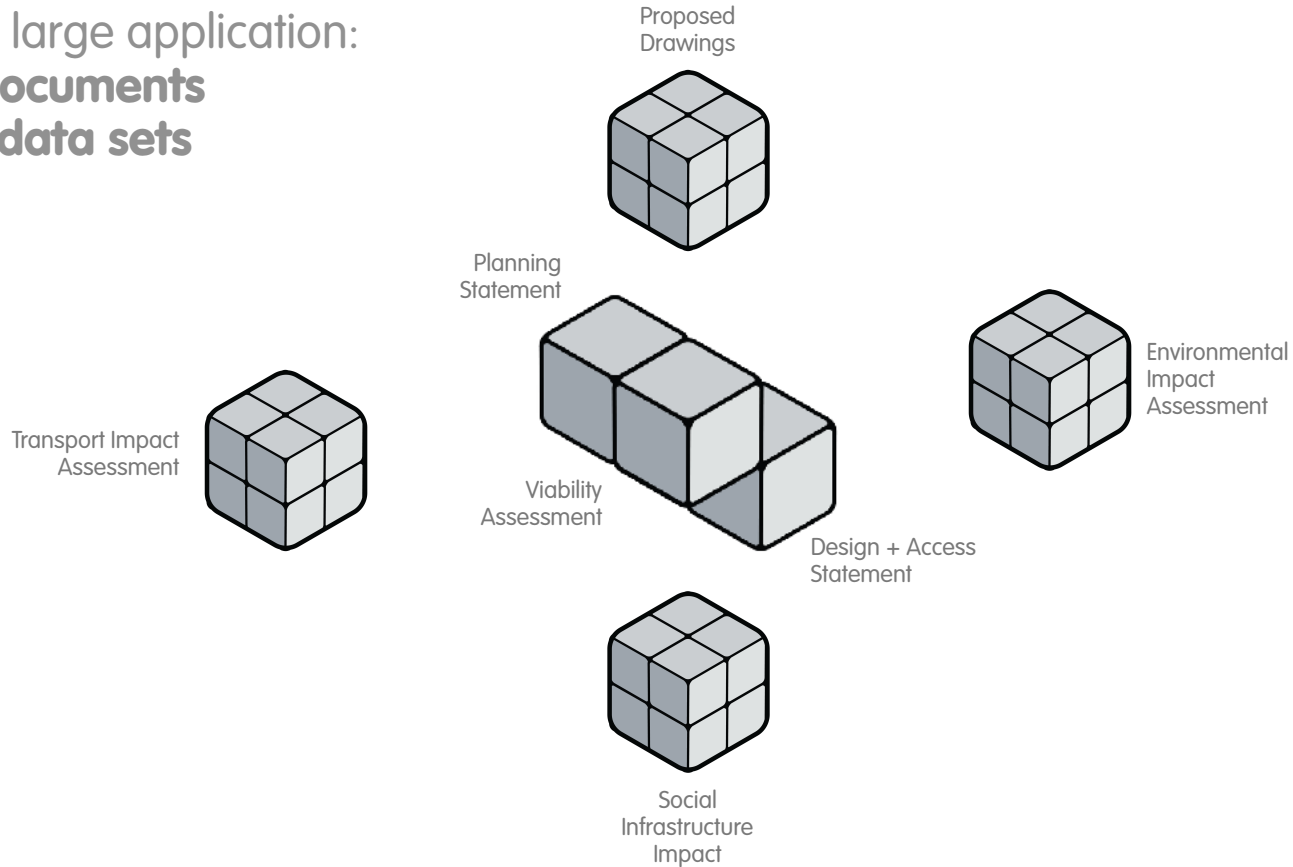


Development  
Proposal

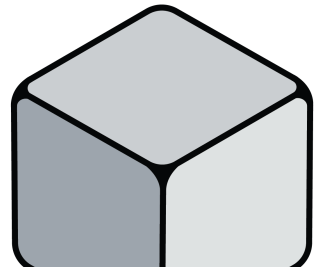
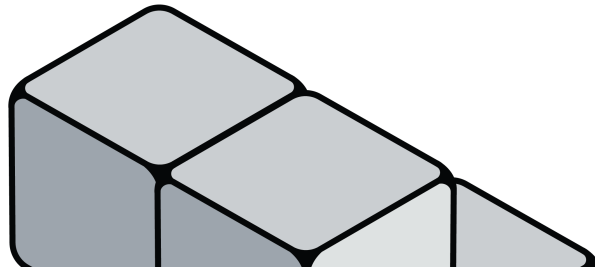
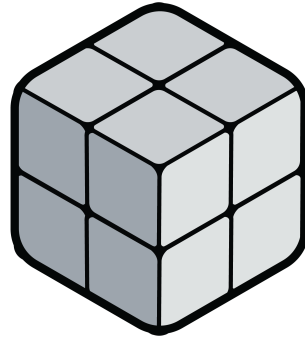




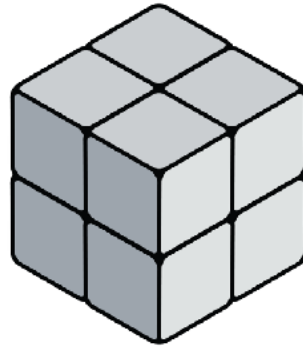
Typical large application:  
**+ 20 documents**  
**+ 350 data sets**



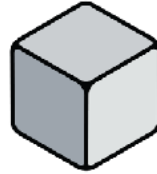
Proposed  
Drawings



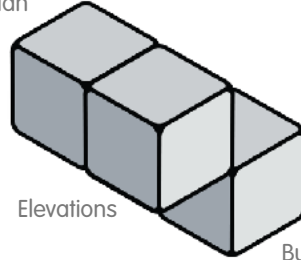
Proposed  
Drawings



Floor Plans



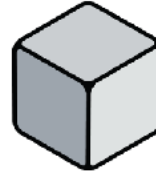
Site Plan



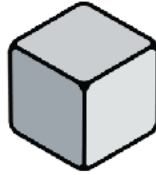
Elevations

Building footprint

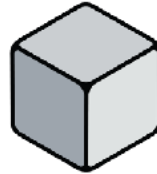
Site

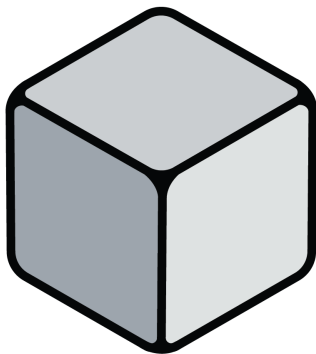
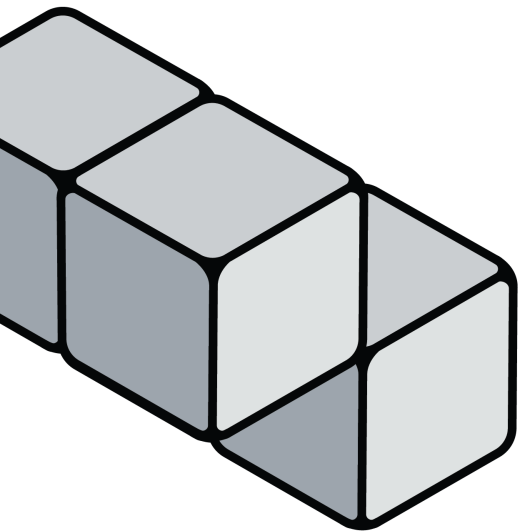
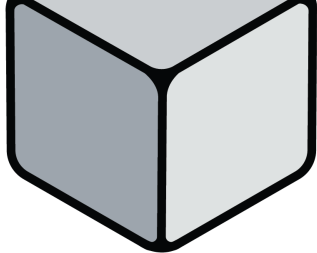


Sections

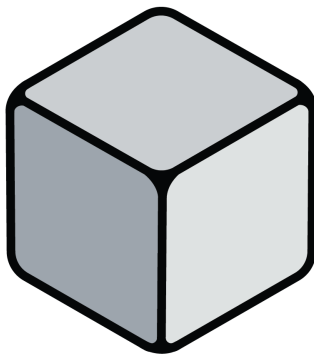
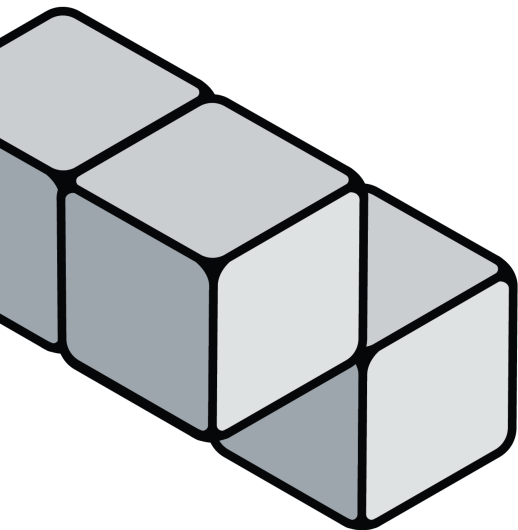
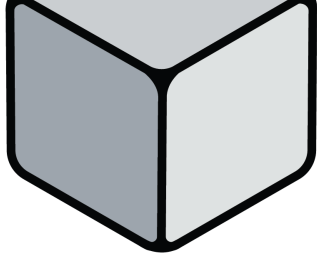


3D renderings



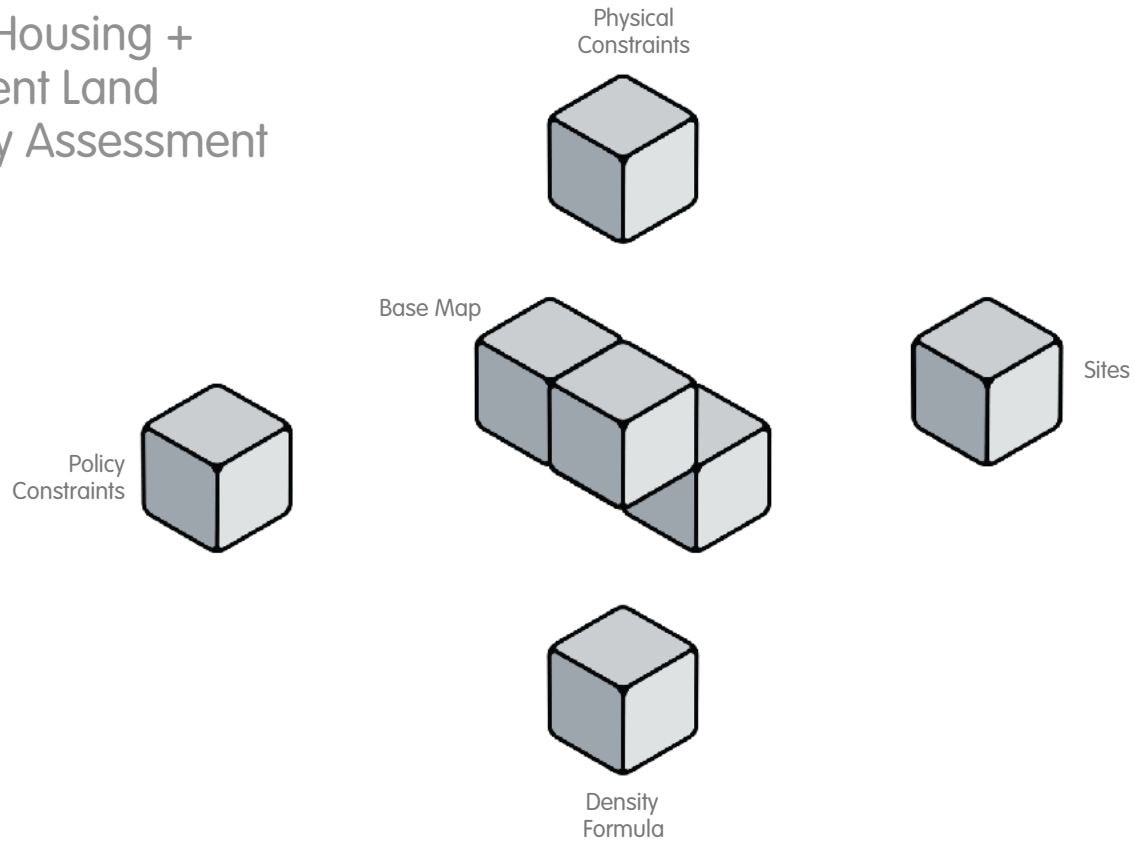


Site

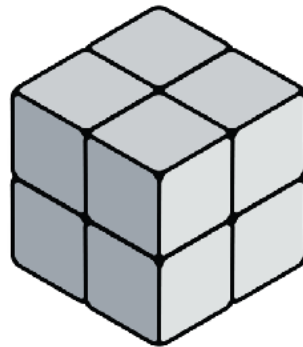


Site(s)

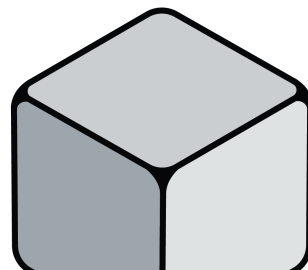
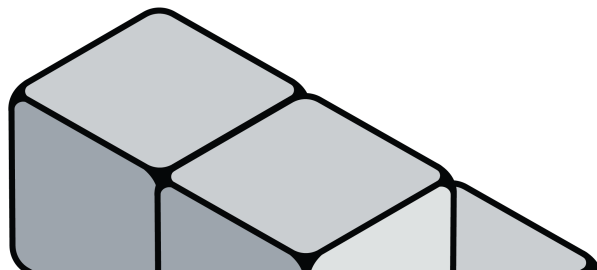
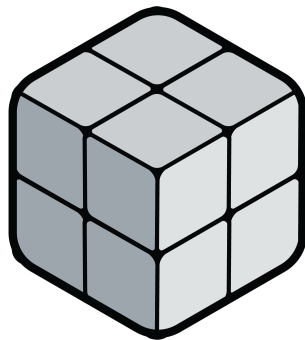
# Strategic Housing + Employment Land Availability Assessment



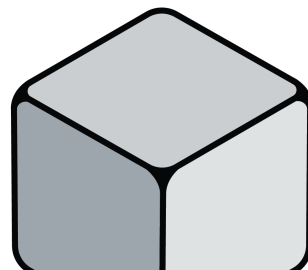
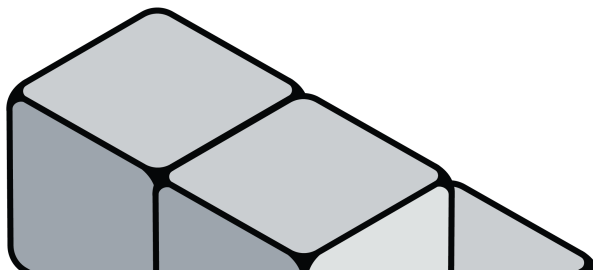
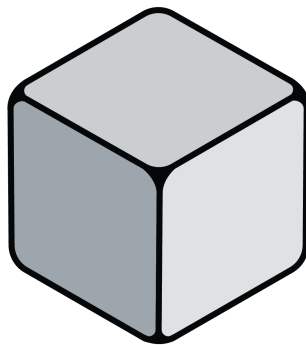
SHELAA



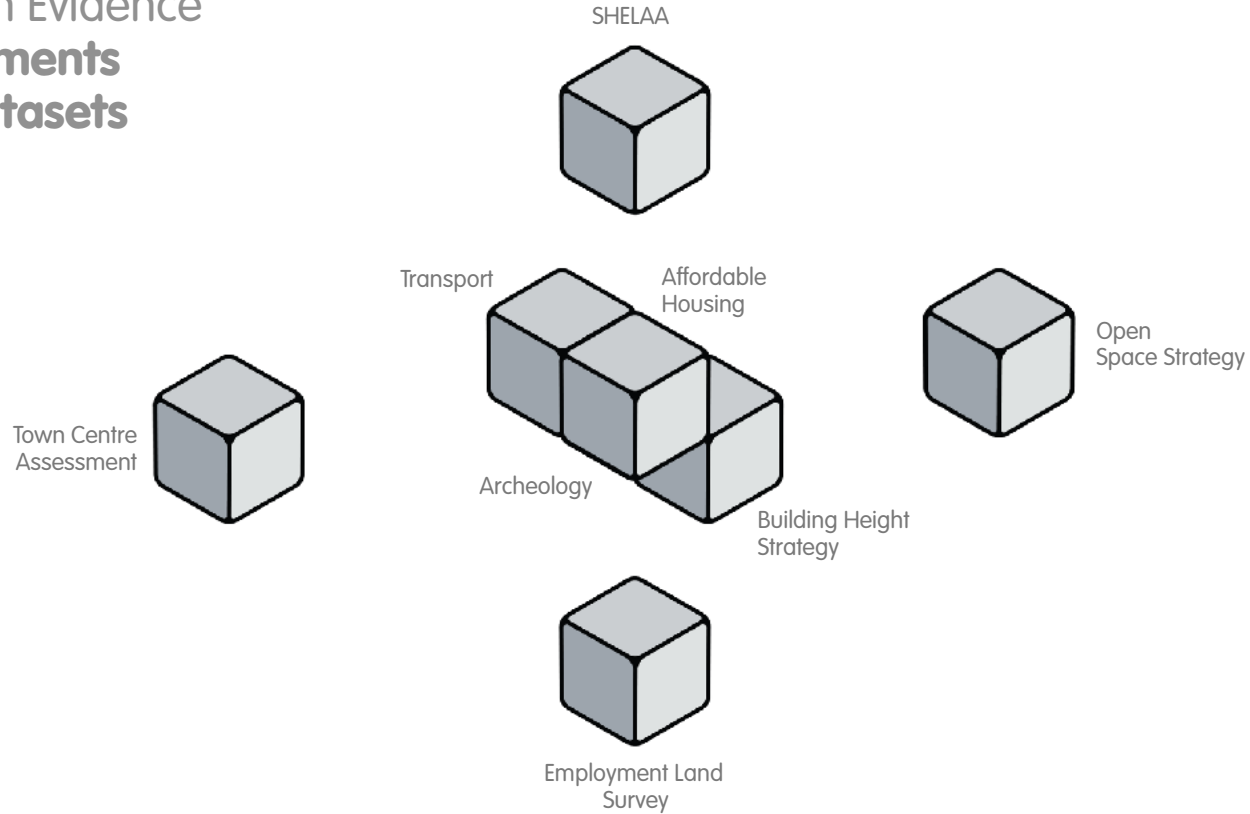
SHELAA



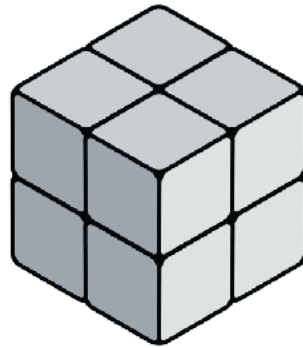
SHELAA

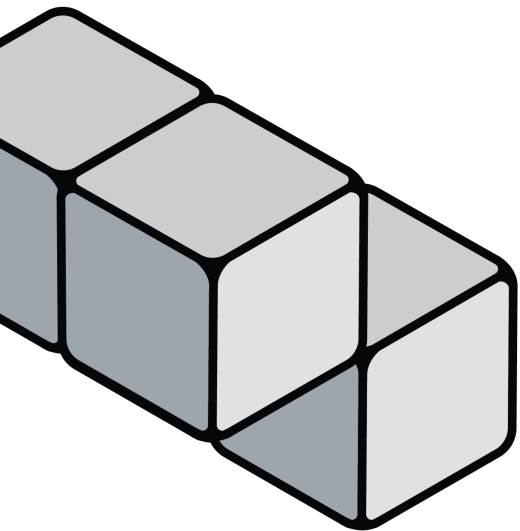
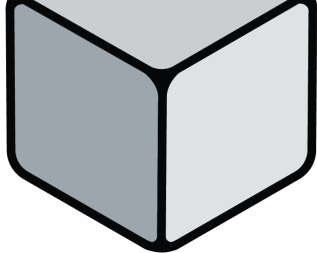


Local Plan Evidence  
**40 documents**  
**+400 datasets**

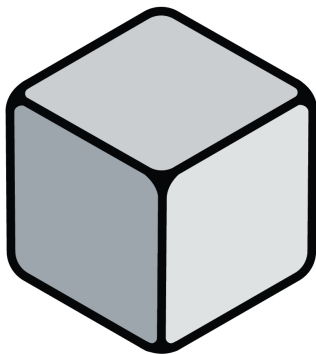


Local Plan

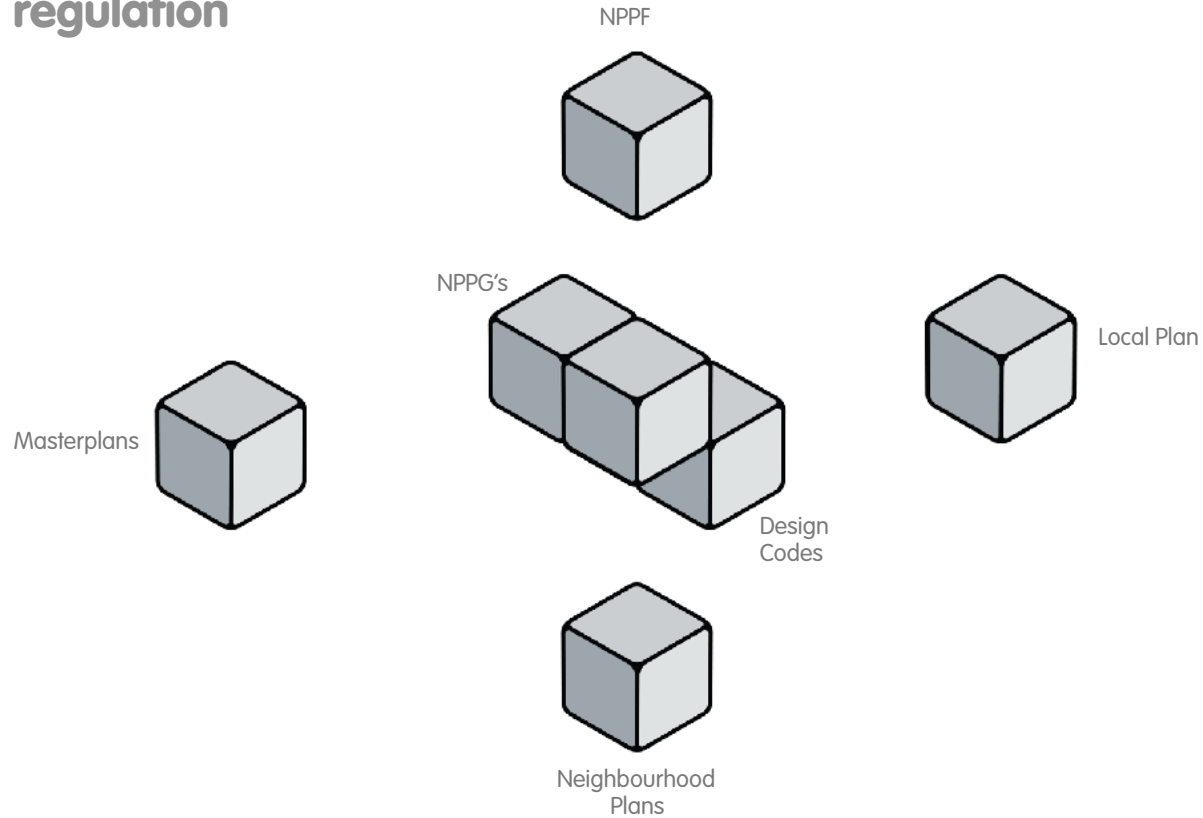




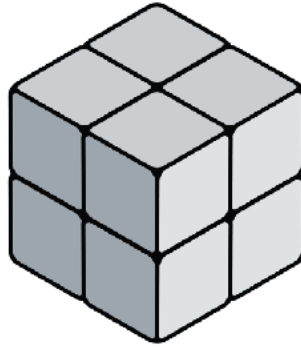
Local Plan



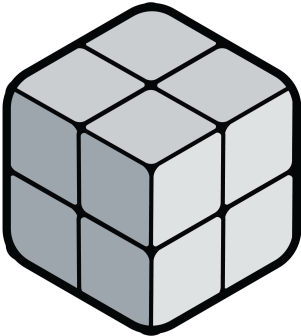
# Planning regulation



Planning regulation



PLANNING REGULATIONS



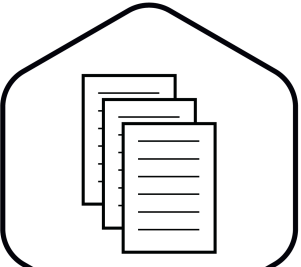
NPPF

Statutory Consultee 1  
Statutory Consultee 2  
Statutory Consultee 3  
Statutory Consultee 4  
Statutory Consultee 5

Local Plan  
SPD

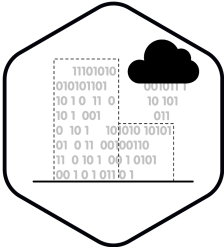
Policy 1  
Policy 2  
Policy 3  
Policy 4

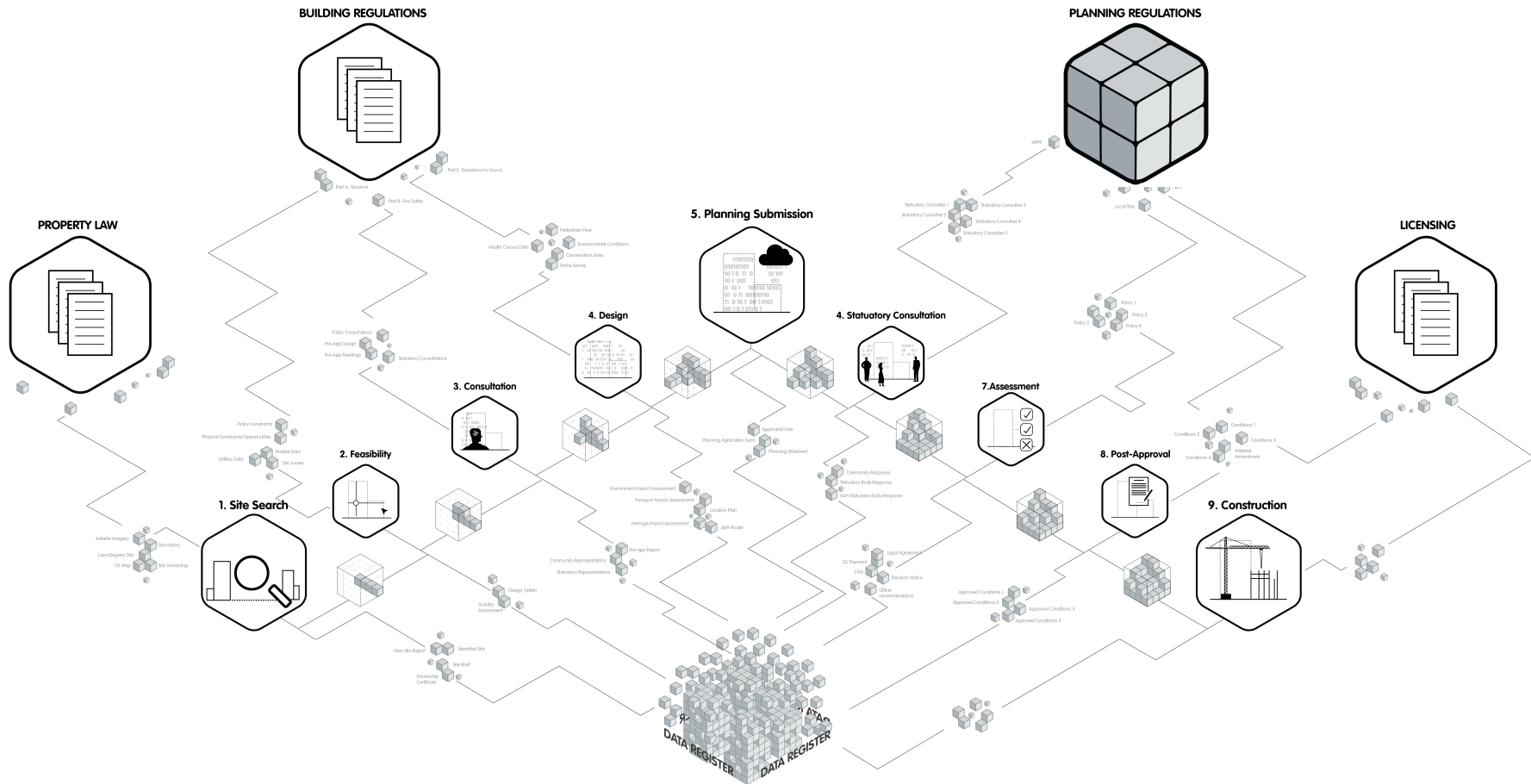
LICENSING

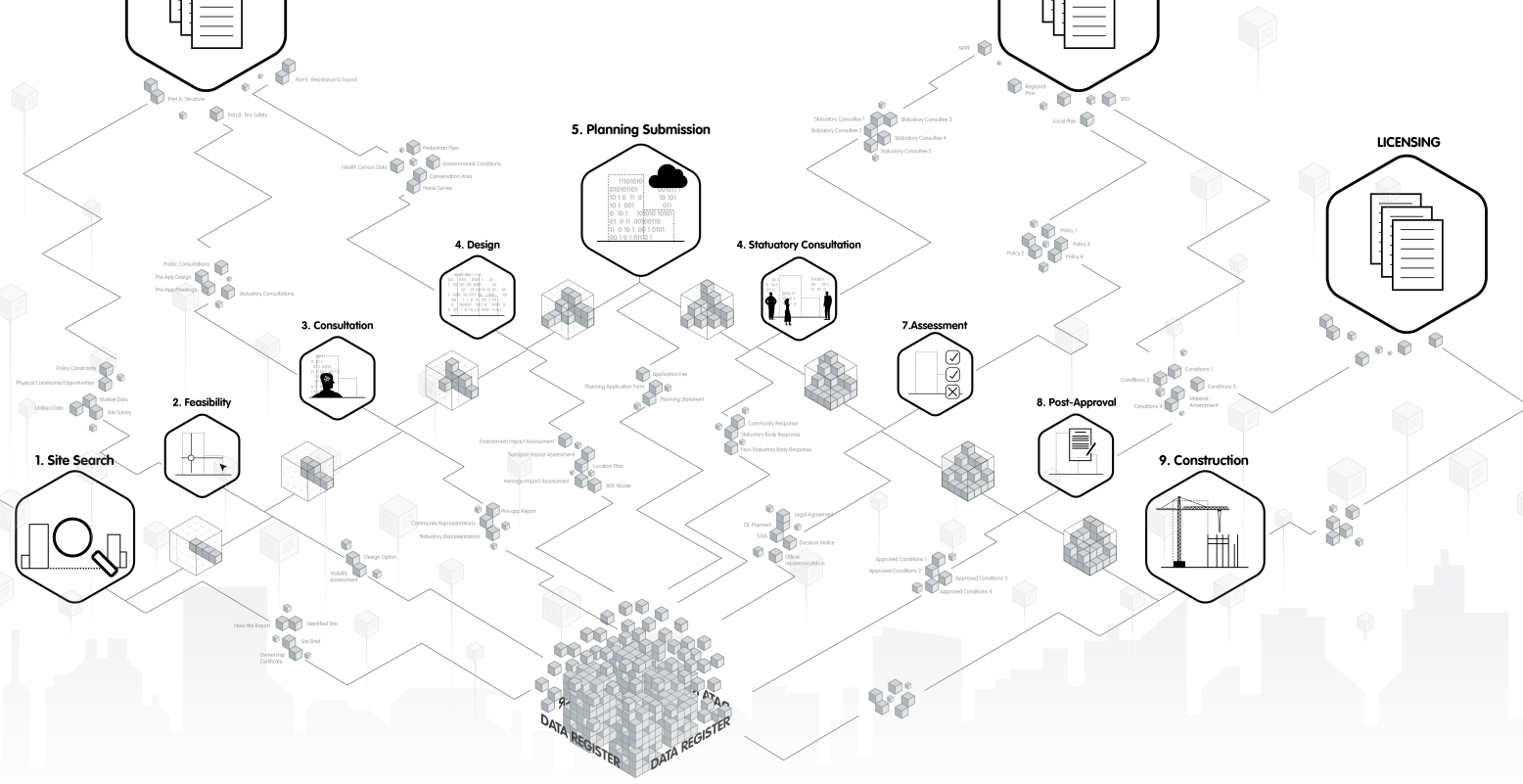
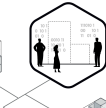
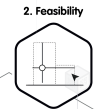
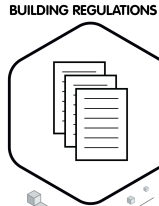


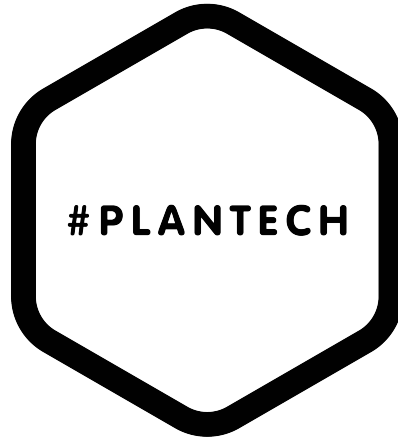
4. Statutory Consultation

5. Planning Submission









@euanmills

**CATAPULT**  
Connected Places