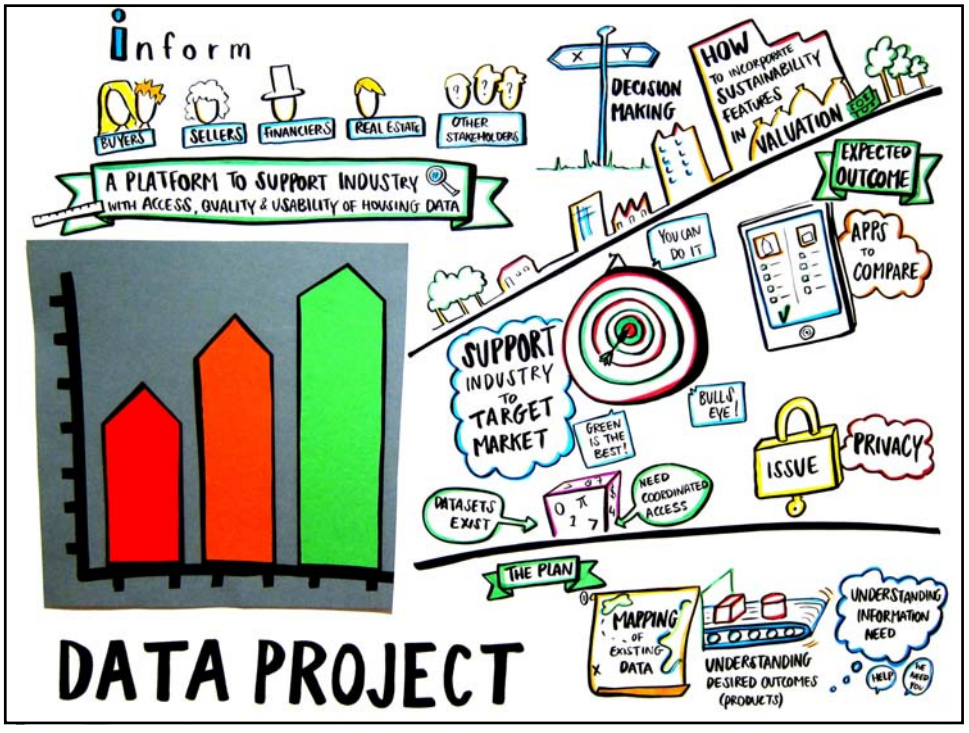
NSW GOVERNMENT | Office of Environment & Heritage

COLLABORATIVE SUSTAINABLE HOUSING INITIATIVE

DATA PROJECT WORKSHOP
5 MARCH 2015



What is the Data Project?

A platform to improve
access, quality and usability
of housing data through an
integrated, quality controlled system
designed to facilitate the provision of trusted information to consumers about the value of sustainable features.

Why a Data Project?

Potential for **comprehensive** & **trusted datasets** to:

- inform buyers, sellers, financiers, real estate agents and other industry stakeholders in their decision-making
- help determine how to incorporate sustainability features into the valuation process

Who could use the data?

Different people have different needs for data:

- Consumer – compare their home to 'social norm', inform purchasing and renovation decisions
- Business – could value add to data, create new innovative products to meet consumer demand
- Government – create evidence based policy, demonstrate & evaluate programs

What outcomes do we want?

- **Access** to datasets that describe & quantify sustainable housing
- Consumers can **benchmark** energy/water use and housing features against 'like' households
- **Embed** sustainability features in the valuation of properties

Who could be involved?

- Department of Planning (BASIX data)
- RP data/Residex
- Australian Property Institute
- Australian Bureau of Statistics
- Sustainable Building Research Centre
- Insurance Council Resilience tool
- Water Utilities
- Green Building Council of Australia
- Office of Finance & Services
- Queensland University of Technology programs
- Conveyancers
- App developers
- Building Verification Forum

Type of data we would like to share

- Basic structural information: age, size (floor area), number of storeys, orientation, etc;
- Construction details: style of dwelling, type of construction, materials, building elements, etc;
- Sustainability features; Energy and water systems within the home (e.g. hot water storage, PV systems, rainwater storage; electric vehicle charging);
- Energy and water ratings: e.g. BASIX rating, NatHERS rating,
- Historical records of electricity and water consumption.

This data is 'owned' by

- Department of Planning and Environment
- Land and Property Information
- Australian Bureau of Statistics
- Office of Environment and Heritage
- CSIRO – Chenath engine?
- Builders/Developers/Architects
- Product Manufacturers
- Electricity network providers
- Water utilities

NSW Open Data

"sharing data allows Government agencies to focus on delivering core public services. It encourages innovative solutions to our citizen's problems"

Hon. Dominic Perrottet

Minister for Finance and Services

Options to test the idea and build a business case

- BASIX data (bounded by single data set)
- University of Wollongong housing stock mapping (geographically bounded)

Pilot projects on the horizon…

BASIX data availability to third parties

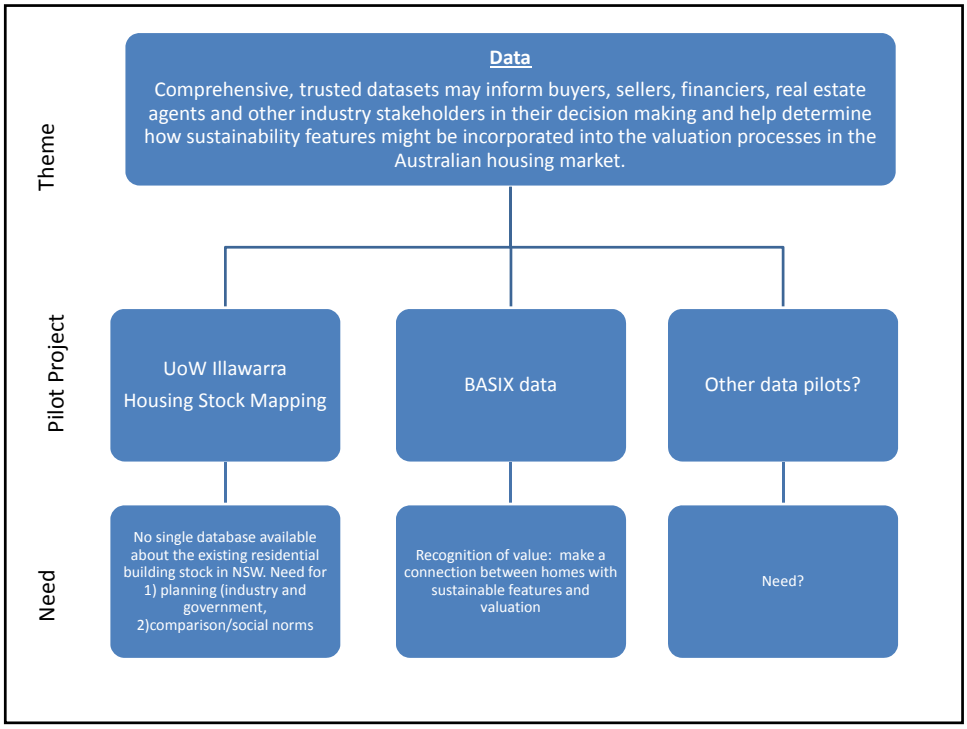
Department of Planning, OEH

- include existing energy & water efficiency data (post-2004) alongside health, education, infrastructure data (NSW Globe)

NSW Housing Stock Mapping project

CSIRO, University of Wollongong, OEH

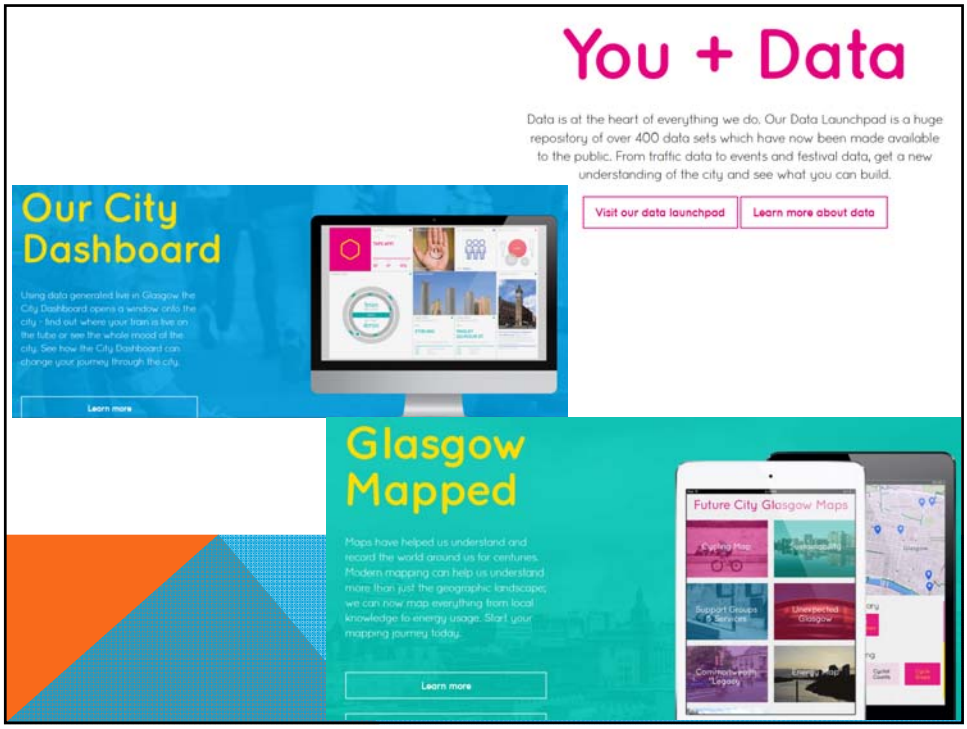
- A study aimed at increasing certainty about the content/quality of data available & what is involved converging these datasets

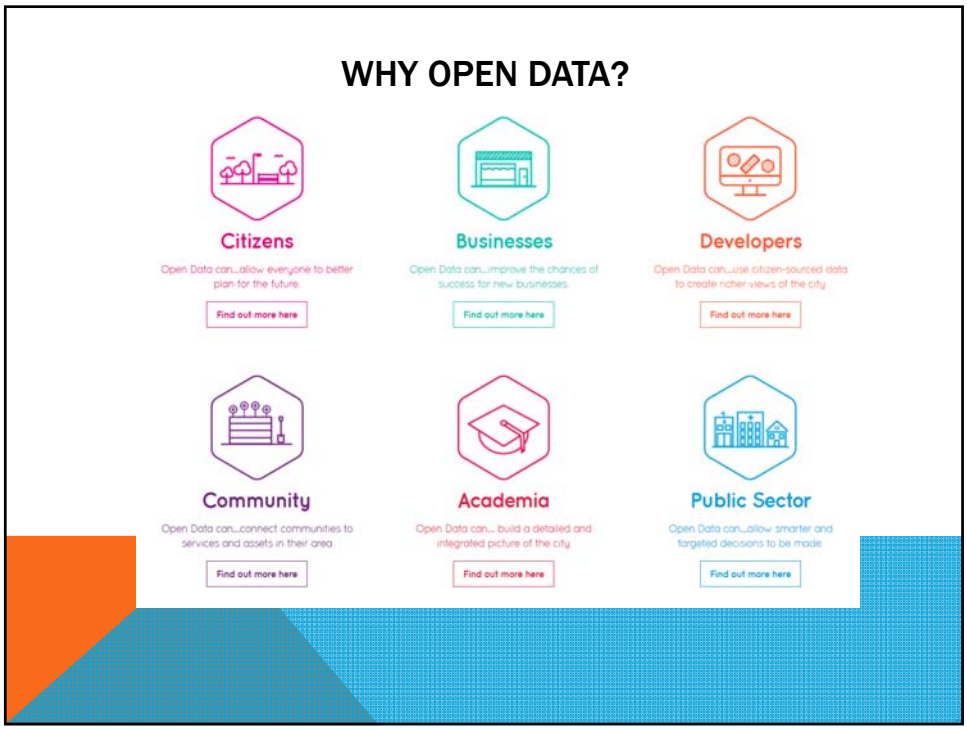

Theme
Data
Comprehensive, trusted datasets may inform buyers, sellers, financiers, real estate agents and other industry stakeholders in their decision making and help determine how sustainability features might be incorporated into the valuation processes in the Australian housing market.
Pilot Project
UoW Illawarra Housing Stock Mapping
BASIX data
Other data pilots?
Need
No single database available about the existing residential building stock in NSW. Need for 1) planning (industry and government, 2)comparison/social norms
Recognition of value: make a connection between homes with sustainable features and valuation
Need?

GLASGOW FUTURE CITY – OPEN DATA

- Rediscover the city through data
- Create a level playing field for people to build, develop or simply play on

OPEN Data. The gateway to exploring our city, helping you to understand and shape Glasgow in new and surprising ways.


You + Data
Data is at the heart of everything we do. Our Data Launchpad is a huge repository of over 400 data sets which have now been made available to the public. From traffic data to events and festival data, get a new understanding of the city and see what you can build.
Visit our data launchpad
Learn more about data
Our City Dashboard
Using data generated live in Glasgow the City Dashboard opens a window onto the city - find out where your train is live on the tube or see the whole mood of the city. See how the City Dashboard can change your journey through the city.
Learn more
Glasgow Mapped
Maps have helped us understand and record the world around us for centuries. Modern mapping can help us understand more than just the geographic landscapes; we can now map everything from local knowledge to energy usage. Start your mapping journey today.
Learn more
Future City Glasgow Maps


WHY OPEN DATA?
Citizens
Open Data can...allow everyone to better plan for the future.
Find out more here
Businesses
Open Data can...improve the chances of success for new businesses.
Find out more here
Developers
Open Data can...use citizen-sourced data to create richer views of the city
Find out more here
Community
Open Data can...connect communities to services and assets in their area
Find out more here
Academia
Open Data can... build a detailed and integrated picture of the city
Find out more here
Public Sector
Open Data can...allow smarter and targeted decisions to be made
Find out more here

DISCUSSION 2A: TERMINOLOGY

Discuss your perceptions of the meanings of the following terms:

- Building Passport
- Building File
- Building Certificate
- Building Performance Certificate
- Energy Performance Certificate
- Home Information File
- Home Information Pack

Which terms are static (i.e. snap shot picture) and which terms active (e.g. evolving)

Which term/terms do you think would be most applicable to a document system relating to a specific residential property? Why?

DISCUSSION 2B: BUILDING INFORMATION

Look at the survey you completed earlier. The first 2 sets of indicators (questions 1 and 3) come from ISO 21929-1 *Sustainability in building construction__ Sustainability Indicators. Part 1: Framework for the development of indicators and a core set of indicators for buildingsdescribing sustainable buildings.*

Discuss what characteristics you considered of limited or no importance, and why.

Are there any characteristics that you all agree are of primary or secondary importance?

Compare your responses to Questions 1 and 3 (relative importance) with Questions 2 and 4 (accessibility to information). Discuss

Questions 5-9 included building characteristics that are commonly included (in some form) on building and site documentation in Australia. Look at the characteristics you labelled of primary or secondary importance. Do you know where to find this information for your house? Why / why not?

Are there 'sustainability characteristics' that are not included in the ISO standard that are included in Australian regulations?

Are there 'sustainability characteristics' that are not included in any of the standards / regulations but should be? What? Why?