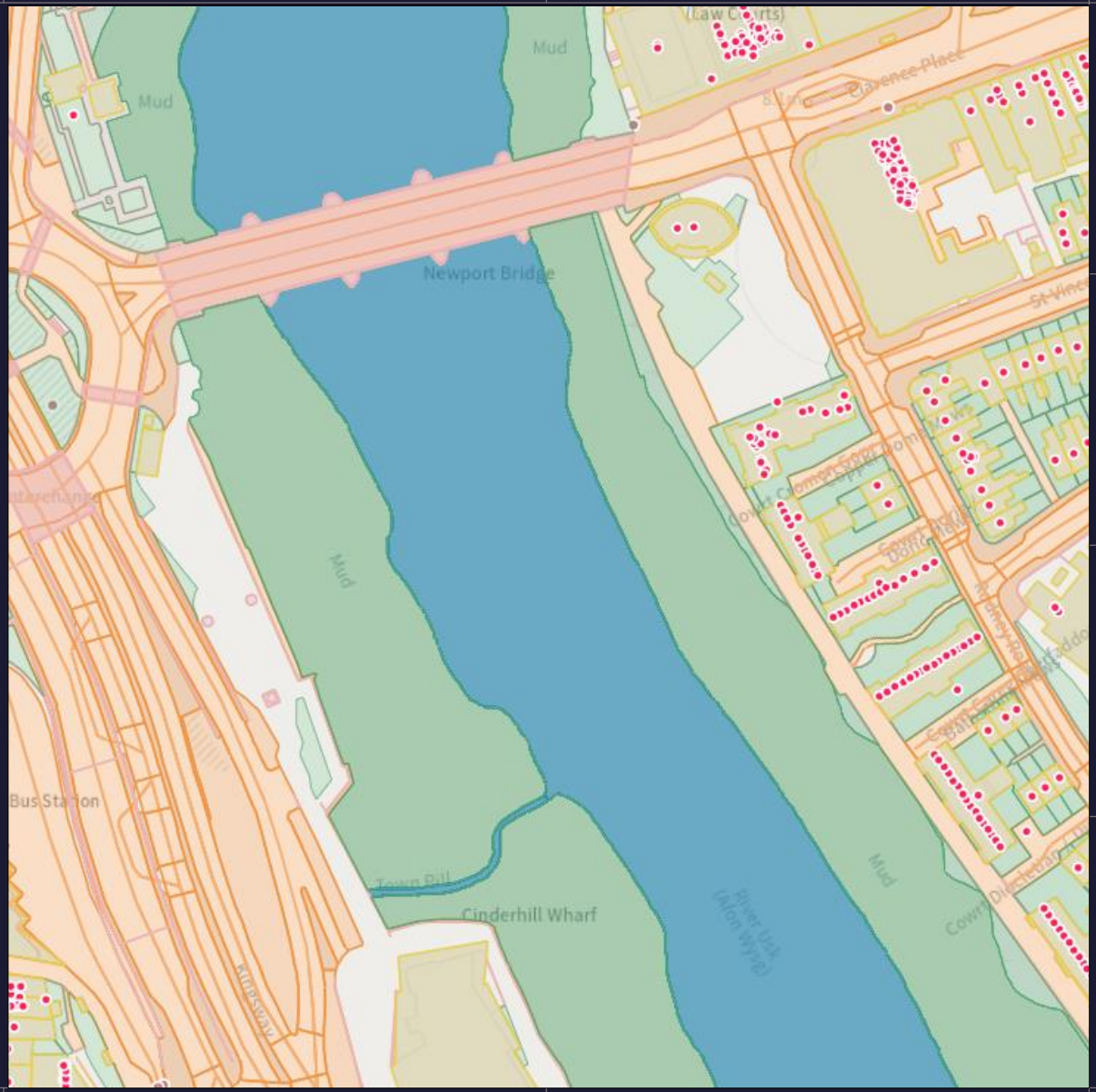
OS National Geographic Database (OS NGD) Workshop – the sequel



Aims

- The aim of the workshop is to explore and understand how OS NGD data can be used to answer analytical questions for different use cases.
- Shine a light on the content of OS NGD and its attribution

OS NGD Data

OS NGD Data

OS NGD Data

How is this going to work today?

If attribution is not listed then a list of some of the real-world features in the dataset is shown

Cards are coloured according to their OS NGD Theme

THEME
Buildings

Collection: Building Features

Feature Type: Building

Attribution: *Basement Presence*
Self Contained Flat

OS N nal Geographic Database

Shows that this is a polygon dataset

THEME
Structures

Collection: S uctures

Feature Type: Structure Point

Includes: Lights
Posts
Electricity Sub Stations
Electricity Support Poles
Masts
Shafts

OS N nal Geographic Database

Shows that this is a point dataset

THEME
Transport

Collection: RAMI

Feature Type: Average and Indicative Speeds

Attribution: *Indicative Speed (mph and kph)*
Average Speed (split into 2, 3 or 6-hour brackets)

S National Geo phic Database

Shows that this is a line dataset

Attribution is always in *italics*

THEME
Land Use

Collection: Land Use Features

Feature Type: Site

Attribution: *Land Use Tier A*
Land Use Tier B
Matched UPRN
Address Classification Code
NLUD Code
Site to Address UPRN XRef

OS National Geographic atabase

Shows that this card has information about the **attributes** on a feature

If it has a UPRN it is in **blue**

How is this going to work today?

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

Attribution: *Basement Presence*
Self Contained Flat

OS N nal Geographic Database

Shows that this is a polygon dataset

THE
Struc

Collection:

Feature Type:

Includes:

Elect
Electri

OS N nal Geographic Database

Shows that this is a point dataset

THEME
Legend

The top band of each card is coloured by OS NGD Theme.
Cards will either list attributes in *italics* or a subset of the real-world features in the dataset.

Polygon feature types are shown with this symbol

Point feature types are shown with this symbol

Line feature types are shown with this symbol

Cards showing this symbol have **attributes** listed in *italics*

Access the OS Docs platform for more information

If attribution is not listed then a list of some of the real-world features in the dataset is shown

THEME
ansport

RAMI

Average and Indicative Speeds

Indicative Speed (mph and kph)
Average Speed (split into 2, 3 or 6-hour brackets)

S National Geo phic Database

Shows that this is a line dataset

Attribution is always in *italics*

Cards are coloured according to their OS NGD Theme

THEME
Land Use

Collection: Land Use Features

Feature Type: **Site**

Attribution: *Land Use Tier A*
Land Use Tier B
Matched UPRN
Address Classification Code
NLUD Code
Site to Address UPRN XRef

OS National Geographic atabase

Shows that this card has information about the **attributes** on a feature

If it has a UPRN it is in **blue**

There are 3 Building cards as there is too much attribution for one card, so it has been split out into groupings: Roof related, Basement related, Construction related

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

Attribution:
Roof Aspect
Roof Shape
Green Roof Presence
Solar Panel Presence
Flat Roof Area
Roof Material

ic Database

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

Attribution:
Building Age
Material
Building Height Construction
Number of Floors
Building Use
Connectivity
Building to Address UPRN XRef

OS National Geographic Database

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

Attribution:
Basement Presence
Self Contained Flat

OS National Geographic Database

THEME
Land Use

Collection: Land Use Features

Feature Type: **Site**

Includes:
Residential
Education
Medical
Commercial
Retail
Transport

OS National Geographic Database

THEME
Land Use

Collection: Land Use Features

Feature Type: **Site**

Attribution:
Land Use Tier A
Land Use Tier B
Matched UPRN
Address Classification Code
NLUD Code
Site to Address UPRN XRef

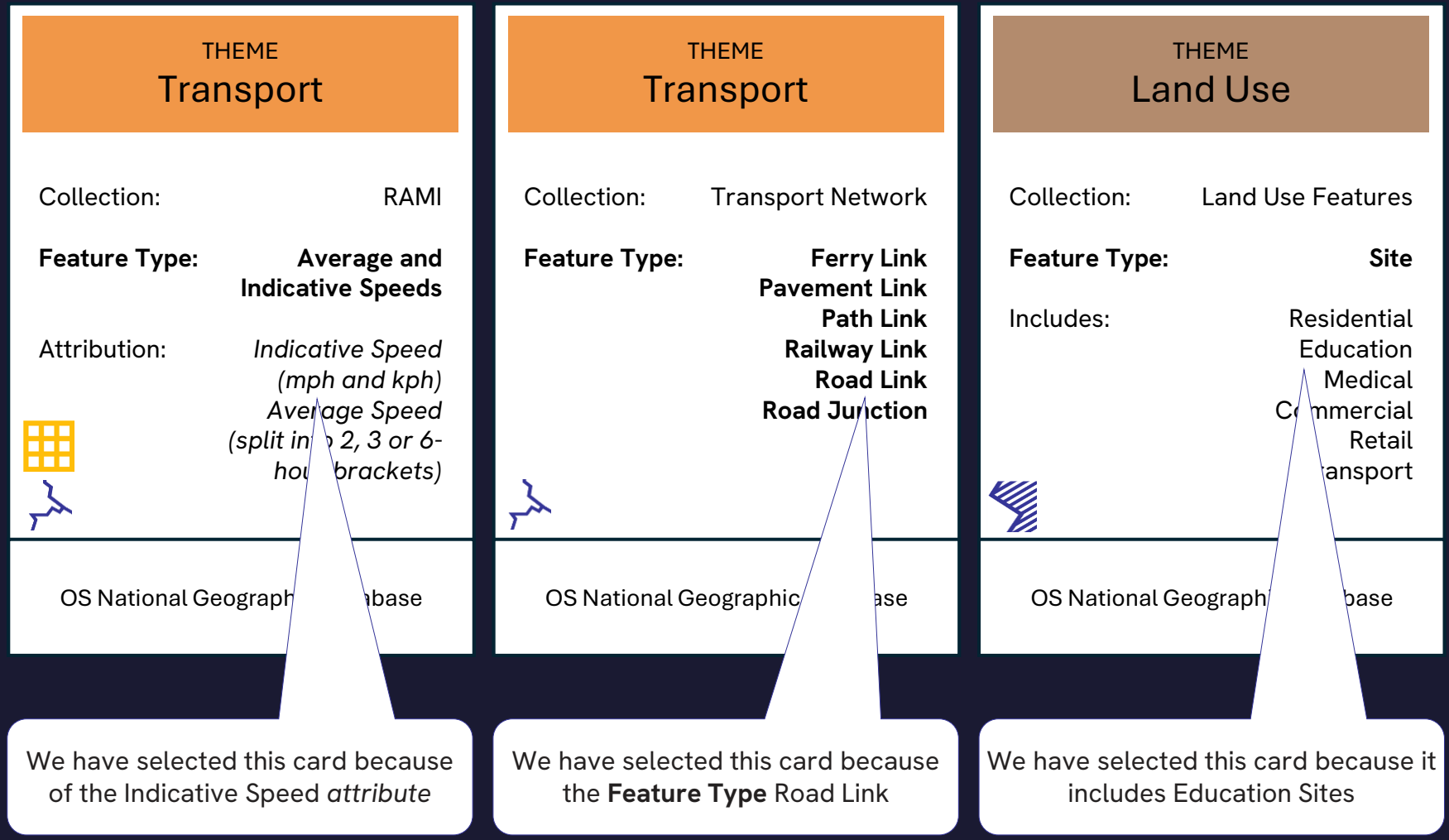
OS National Geographic Database

There are 2 Land Use cards, one has a subset of what it includes taken from the description attribute (Residential, Commercial, etc). The other has a list of the *attributes* on the feature.

An example

Identify the speed limits on roads within 100m of a school with a view to making 20mph zones

A possible solution...



Scenarios

Scenario 1

Retro-fitting solar panels to existing housing stock

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

Attribution:
Roof Aspect
Roof Shape
Green Roof Presence
Solar Panel Presence
Flat Roof Area
Roof Material

OS National Geographic Database

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

Attribution:
Building Age
Material
Building Height Construction
Number of Floors
Building Use
Connectivity
Building to Address UPRN XRef

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THEME
Address

Collection: GB Address

Feature Type:
Built Address
Pre-Build Address
Historic Address
Street Address
Royal Mail Address
Non-Addressable Object

OS National Geographic Database

Scenario 2

Emergency Planning ahead of a storm that is due to hit in 2 days' time

THEME
Structures

Collection: Structures

Feature Type: Structure Line

THEME
Water

Collection: Water Features

Feature Type: Water

THEME
Buildings

Collection: Building Features

Feature Type: Building Access

THEME
Administrative and Statistical Units

Collection: Boundaries

Feature Type: Ward
Polling District
Enumeration District

THEME
Structures

Collection: Structures

Feature Type: Structure Point

THEME
Water

Collection: Water Features

Feature Type: Tidal Boundary

THEME
Buildings

Collection: Building Features

Feature Type: Building

THEME
Transport

Collection: Transport Network

Feature Type: Ferry Link
Pavement Link
Path Link

THEME
Structures

Collection: Structures

Feature Type:Compound Structure

THEME
Land Use

Collection: Land Use Features

Feature Type: Site Access Location

THEME
Buildings

Collection: Building Features

Feature Type: Building

Attribution: *Basement Presence*
Self Contained Flat

OS National Geographic Database

THEME
Structures

Collection: Structures

Feature Type: Structure

THEME
Land Use

Collection: Land Use Features

Feature Type: Site

THEME
Address

Collection: GB Address

Feature Type: Built Address

Attribution: *UPRN*
USRN
Description
Floor Level
Classification Code
Classification Description
Address

OS National Geographic Database

Scenario 3

Response to an incident of a Fire next to a Stadium where an event is happening

THEME
Transport

Collection: Transport Network

Feature Type: **Ferry Link**
Pavement Link

THEME
Transport

Collection: RAMI

Feature Type: **Restriction**
Routing Hazard

THEME
Geographical Names

Collection: Named Features

Feature Type: **Crowd Sourced**
Name Point

THEME
Land

Collection: Land Features

Feature Type: **Land**

THEME
Structures

Collection: Structures

Feature Type: **Structure**

THEME
Structures

Collection: Structures

Feature Type: **Structure Point**

THEME
Land Use

Collection: Land Use Features

Feature Type: Site Access Location

THEME
Land Use

Collection: Land Use Features

Feature Type: **Site**

THEME
Buildings

Collection: Building Features

Feature Type: **Building Access**

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

Attribution: *Basement Presence*
Self Contained Flat

THEME
Address

Collection: GB Address

Feature Type: **Built Address**

Attribution: *UPRN*
USRN
Description
Floor Level
Classification Code
Classification Description
Address

THEME
Administrative and Statistical Units

Collection: Boundaries

Feature Type: **Ward**
Polling District
Enumeration District

ESG

Includes: Geographic Names
Bridges
Tunnels
Road Junctions

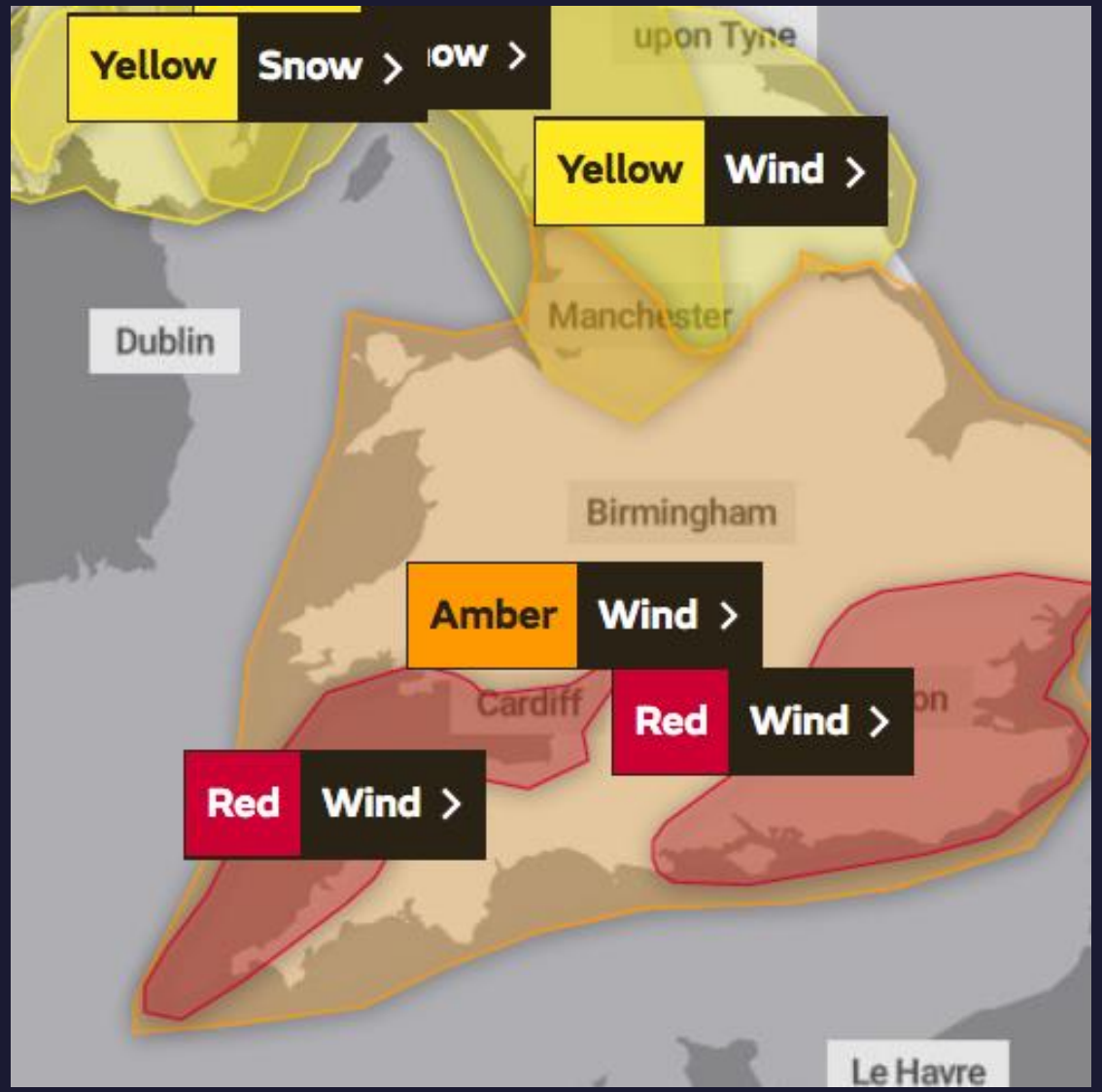
OS National Geographic Database

OS National Geographic Database

Storm Eunice

In February 2022 Thames Valley Local Resilience Forum contacted our Mapping For Emergencies helpline asking for a set of data ahead of the storm arriving for use during response when it hit:

- Tall buildings
- Electricity Sub stations
- Major roads
- Railway lines
- Railway stations
- Pylons
- Electricity Transmission Lines
- Airports
- Bridges
- Phone masts
- Rivers
- Residential and Commercial addresses



OS NGD Solution to Storm Eunice data needs

THEME
Address

Collection: GB Address

Feature Type: **Built Address**

Attribution:
UPRN
USRN
Description
Floor Level
Classification Code
Classification Description

THEME
Water

Collection: Water Network

Feature Type: **Water Link**

Attribution: *River Widths*

THEME
Transport

Collection: Transport Network

Feature Type:
Ferry Link
Pavement Link
Path Link
Railway Link
Road Link
Road Junction
Tram on Road
Bus Lanes

THEME
Buildings

Collection: Building Features

Feature Type: **Building**

Attribution:
Building Age
Building Height
Construction Material
Number of Floors
Building Use
Connectivity

OS National Geographic Database

THEME
Land Use

Collection: Land Use Features

Feature Type: **Site**

Includes:
Residential
Education
Medical
Commercial
Retail
Transport

OS National Geographic Database

THEME
Structures

Collection: Structures

Feature Type: **Compound Structure**

Includes:
Bridges
Tunnels
Underpasses
Viaducts
Dams
Leisure Piers

OS National Geographic Database

THEME
Structures

Collection: Structures

Feature Type: **Structure**

Includes:
Pylons
Tanks
Masts
Wind Turbines
Solar Panels
Glasshouses
Chimneys

OS National Geographic Database

Key Takeaways

- Highlighting the wide range of attribution and features in OS NGD
- What feature types and collections you can find them in
- There is a whole lot more to OS NGD than you might have thought
- Making recipes in OS Select+Build is like you choosing the cards for each scenario
- For more info go to https://docs.os.uk/

Any questions?