Implementing the National Information Infrastructure

ODUG Comment on Twitter #UKNII 22-July-2014

Scope of the NII Review

The NII is intended to 'contain the data held by the government which is **likely to have the broadest and most significant economic impact if made available and accessible outside of government**'.

The current NII on data.gov.uk lists 233 datasets, of which 66 are unpublished. The criteria for selecting these 233 datasets are not clear and many datasets which are fundamental to a NII are not listed. For those datasets which are identified there is no indication as to the priority for their release.

Our approach

- We have outlined a basic structure of what we should know, rather than a reflection of the data *currently* available. This structure covers the requirements for transparency, economic growth, social good and the underlying connector information.
- We have demonstrated the value of the NII for the wider public benefit as well as the needs of specific personas.
- The next step is to identify what data is actually available as either open or closed data – particularly the core reference data.
- We will set out proposed priorities for future open data releases of what the NII should contain and proposed sector priorities based on a demand-led open data approach.
- Finally we will make suggestions for future improvements to the NII. Metadata and other quality standards are important, and will be identified along with any other data publication requirements (use of core identifiers, minimum publication standards etc.).



ODUG Defining a National Information Infrastructure

- Defining Infrastructure: "The basic facilities, services and installations needed for the ٠ functioning of a community or society."
- Defining the Information Infrastructure: "the core data assets describing this physical and ٠ digital infrastructure"



CORE NII DATA

RELATED DATA TYPES

Potential for future NII data once core in place

Event /

Transaction

Data

Performance

Information

Big Data

Illustrating this with Health

NOTE: Any identifiers for Open Data would not include personal identifiers, as Open Data would only be on an anonymised basis. This increases the importance of other non-personal identifiers e.g. location data to make links

CORE NII DATA

RELATED DATA TYPES



Basic Gap Analysis: Current Health data in the NII

There are currently 32 datasets in the NII under 'Health & Social Care', currently 3 fit the above definition of Core NII Data - see Clinical Commissioning Group reference data (locations, size), The Casemix Service (healthcare activity classifications) and National Library Medicine Catalogue (pathology reference data)

What aspects of society should be considered?

The current NII 'themes'	For comparison: <u>COFOG</u>
From the <i>NII narrative</i> on Gov.uk	the UN's Classification of the Functions of Government
 Government Accountability & Democracy Global Development Crime & Justice Companies & Business Development Transport & Infrastructure Science & Research Energy & the Environment Health & Social Care Education Social Mobility & Welfare Society & Culture Other eg Defence, International Relations 	 General Public Services (eg legislative and executive, foreign aid) Public Order and Safety (eg police, fire, law, prisons) Economic Affairs (eg transport, communication, energy) Environment Protection (waste, pollution) Housing and Community Amenities (eg housing development, local amenities) Health (eg medical products, outpatient services, public health services) Recreation, Culture and Religion (eg broadcasting, publishing) Education (eg primary, secondary, tertiary) Social protection (eg family, children, unemployment) Defence (eg military and civil)

COFOG should be a guide as an independent, international standard but potentially customised for the UK. Consideration also of the ESD (Effective Services Delivery) toolkit for the Local Government sector.

"Big Thinking": What will the NII lead to?



The importance of Core Reference Data - the "Where", "What" and "When" to make connections

Leaps in Public Health

See Longitude Prize 2014 from NESTA

Q. What has happened, where and when?

Q. How does that compare to other areas?Q. What is distinctive about those localities?



Social Enablement

Quality of Life Indicators

Q. Where are my local public services?Q. How does their proximity and our population/ demographic compare to other communities?Q. What combinations work best and where? Can we replicate them?

Better Use of Public Services

Avoidable Contact

Q. Where are services located?

Q. Where are the exemplars of Education, Health, Employment services around the

country and why?

Q. What is the demand on the **local** A&E/ Police/ benefits systems?



Continuity Planning

Mitigating Disruptions

Q. What happened, where and when? E.g.: Which *roads/addresses* are prone to flooding? *Where* are accident blackspots? Q. Where are the local services and supplies?

Q. Where should services be better located and configured?

Finding Economic Opportunities

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Better Investment Decisions

Q. Where is the available land for development?

Q. What is the **proximity** to transport links, skilled workforces etc?Q. How successful have similar businesses, especially small local businesses been **here**?



Connected Public Services Better Customer Service

Q. How can we be sure we are talking about the same **place/ location** between different organisations?

Q. Who owns the single record of truth?

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dementia

Social Enablement

I want to innovate

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Who needs the NII and why?



- I need raw data that I can link so I can identify efficiencies across the organisations and services used by my customer groups

Rita

Join the debate – feedback@ Twitter #UKNII

- Views on Health Core NII Data as set out here?
- Thoughts on Core NII Data for other sectors?
- Which Core Reference Datasets will unlock the most value?
- What does the Government need to do?
- Other Big Questions open data can help answer?
- Who else needs the NII?
- The quality characteristics /service levels required for viable business consumption of open data?
- How can we better measure the benefits of open data?
- Other thoughts and feedback?