Our Unknown Unknown is now a Known Unknown.

Can we make it a Known Known?

Clare Hadley
Chair, UKLP’s Business Interoperability Working Group
“There are known knowns; there are things we know that we know.

There are known unknowns; that is to say, there are things that we now know we don't know.

But there are also unknown unknowns – there are things we do not know we don’t know.”

Donald Rumsfeld, US Secretary of Defense, 2002
“There are unknown unknowns – there are things we do not know need fixing.

There are known unknowns; that is to say, there are things that we know need fixing but we don't know how to fix.

There are known knowns; there are things we know need fixing and how to fix (and are hopefully in the process of fixing……)”

Clare Hadley, Open Plagiarist, 2013
Applying Donald to our problem …
The days of the Unknown Unknown

Problem? What problem?
Applying Donald to our problem ...

Knowledge of the problem

Unknown
Unknown

Known
Unknown

Knowledge of the solution
• Services have come on line …

.....and problems emerge .....
There’s a bit of a problem ...
Uncovering the Unknown

Ah, we hadn’t thought of that…. 
Uncovering the Unknown

Services have come on line …

…..and problems emerge …

Many different responses …

…but no standards or interoperability …

Problem seen as technical or legal …

…but rarely both …

General feeling that it will go away …

…but someone else will do something about it …
Uncovering the Unknown

That’s a tricky one – what to do?
Applying Donald to our problem …
Getting to the Known Known

Will someone tell me what to do?
Getting to the Known Known

• The challenge is:
  – Understanding the problem
  – Assessing the current landscape
  – Talking to all stakeholder groups
  – Looking for the motivators to act
  – Articulating the options
  – Communicating the recommended action
  – And making it happen!

• The story from the UK so far ....
What is UK Location doing about it?

• Business Interoperability Working Group (BIWG) set up
• Around 15 members from across government
• Initial programme of work:
  – to consider options for UK Location to address this problem:
    – State of Play Review
    – Survey of UK Location stakeholders
    – Use cases
    – Future state requirements
    – Options
Stakeholder Survey

United Kingdom Location Rights Management Study Survey

The purpose of this questionnaire is to understand the current situation among UK Location (UKL) stakeholders concerning the access and use of spatial datasets.

It is one of the activities of the UKL Rights Management Study where the overall expected outcome is a set of options for implementing integrated and interoperable solutions for rights management within UK Location.

Please answer the questions below to the best of your understanding, feel free to add any further details that might help us understand the current situation, and how we might improve the way that spatial datasets are accessed and used with the UK Location Information Infrastructure.

Note: "you" and "your" are used in the questions for brevity, however please read these as meaning "your organisation" and answer from your organisation rather than your own personal perspective.
Do you have specific lessons learned from managing access and use of datasets, which would be of benefit to others?

“It can still be frustrating gaining permissions to use public sector data in a way that meets the requirements of customers who see electronic transmission as the only way forward in 2012.”

“It is not really practical to extend the methods we used for managing and protecting rights in the last century to the service-based environment we now find ourselves in. We need a paradigm shift and to use new methods.”

“We have found that the main challenge is not in approach to data licensing, but more in actually getting organisations to deploy resources to manage their data properly and make their data available.”
What recommendations can you make for building an integrated and interoperable solution for rights management within UK Location?

“We need to start with the low hanging fruit - simple access management and the move on to use management. Government needs to involve itself with standards not implementation, and let the market take care of the implementation.”

“More harmonised licensing terms - keep it simple to understand and implement”

“A new expensive rights management system is likely to become a white elephant before it recovers its costs …”
Workshops
Use Cases

16 use cases gathered

Some on the current state (i.e. sub-optimal) and some best practice showing what could be done

Cross-referenced with our future state requirements
Future State requirements

A selection:

• The user shall be able to consume multiple data sources through single sign on
• The User shall be appropriately presented with details of release conditions and caveats
• Access and reuse to data clearly defined based on user groups rather than individuals.
• The solution is capable of being implemented/deployed relatively quickly to meet initial requirements
• Comply with design principles of the UKL Infrastructure Blueprint where appropriate
• The system shall provide a management framework, which shall be web-enabled and federated
• The system shall provide a mechanism for protecting sensitive and restricted data
• Able to be integrated with existing security solutions in the UK (where possible)
• Easy to use and quick response times
• Governance to manage overarching framework with overall leadership of one government department.
We had a lot of information …

Anyone got any indigestion remedies?
Making the known unknown manageable

Let’s focus!
Focus has been on:

**Access control (authentication and authorisation)**

rather than rights management (tracking and controlling the use of content, rights, licences and associated information)

**Government to government supply of data and services**

followed in priority by government to business and government to citizen

**OGC web services**

WMS, WFS etc as these are required by INSPIRE
The Position Statement

data.gov.uk/library/uklp-access-control-and-rights-management-position-statement
Options and Recommendations

Option 1: Do nothing

Option 2: Centralised access control to services

Option 3: Federated access control to services
Getting to the Known Known

We know what we know!
Well, that’s easy then - let’s implement!
Implementing the Known Known

Can’t I just tell them to do it?

There’s more to do?
What next?

• In UK our next steps are:
  – Awareness raising
  – Engagement with wider government initiatives in this field
  – Further scoping work and a roadmap
  – Consideration of specific issues – e.g. government security levels, interoperability of various solutions
  – Consideration of short term tactical measures

• Elsewhere
  – Several examples from Workshops earlier in the week
  – ISA Programme and ARE3NA (previously the Reusable INSPIRE Reference Platform RIRP) survey at

Making our newly known knowns known by those who thought they were known unknowns or even unknown knowns – that’s our challenge now.

Well if you put it like that, it makes sense
Thank you!