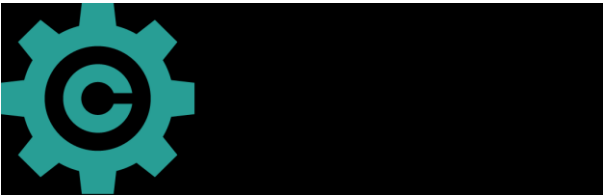


# The Copyright Hub and DOI

*'What is the Copyright Hub and how does it fit with the DOI ecosystem'*

Mark Hewis | Technical Architect  
@MarkHewis

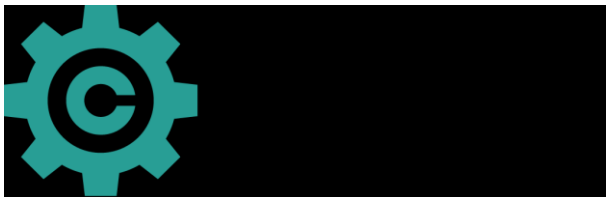
21<sup>st</sup> Nov 2014



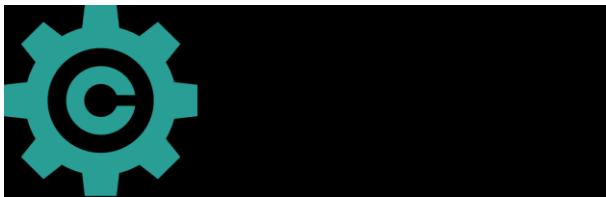
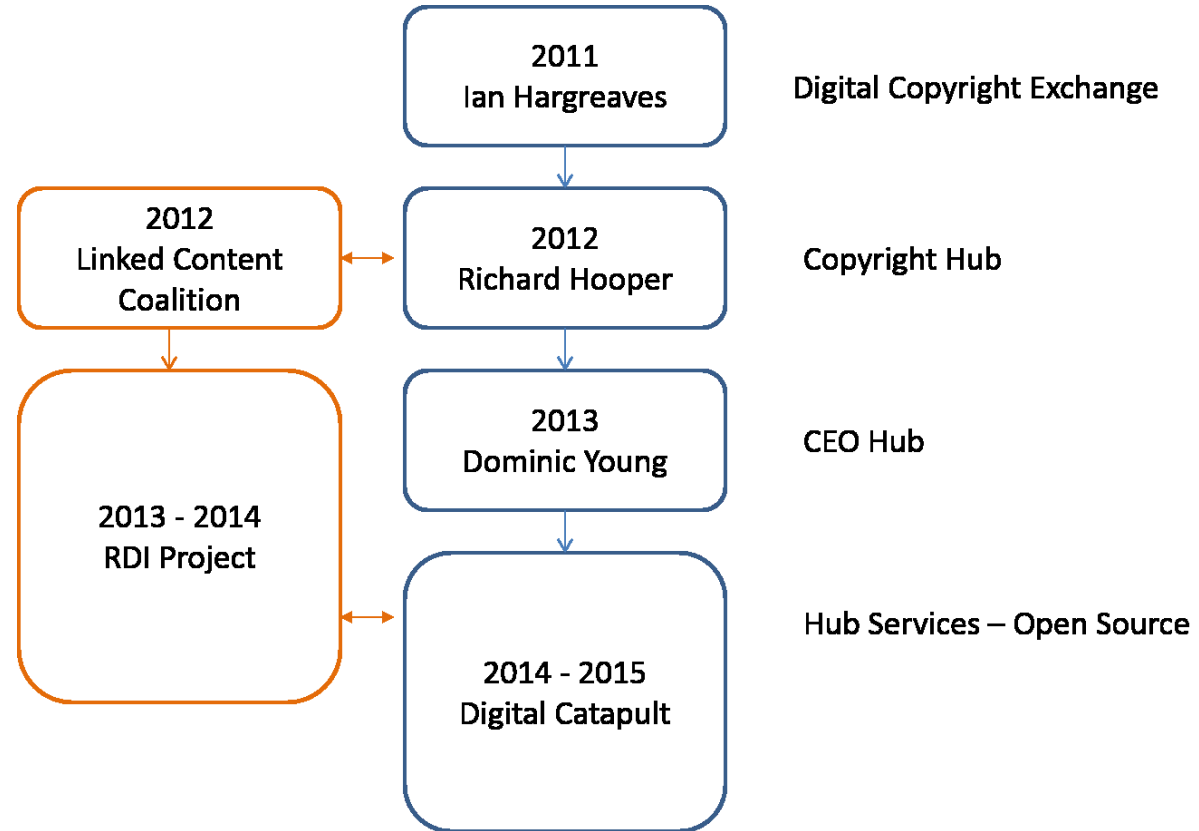
# Our Goal.....

<https://vimeo.com/111096150>

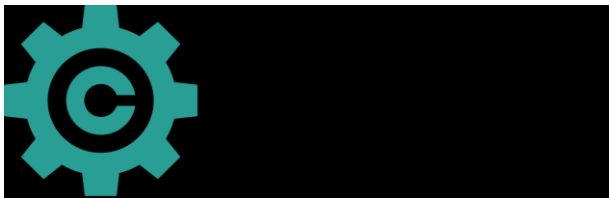
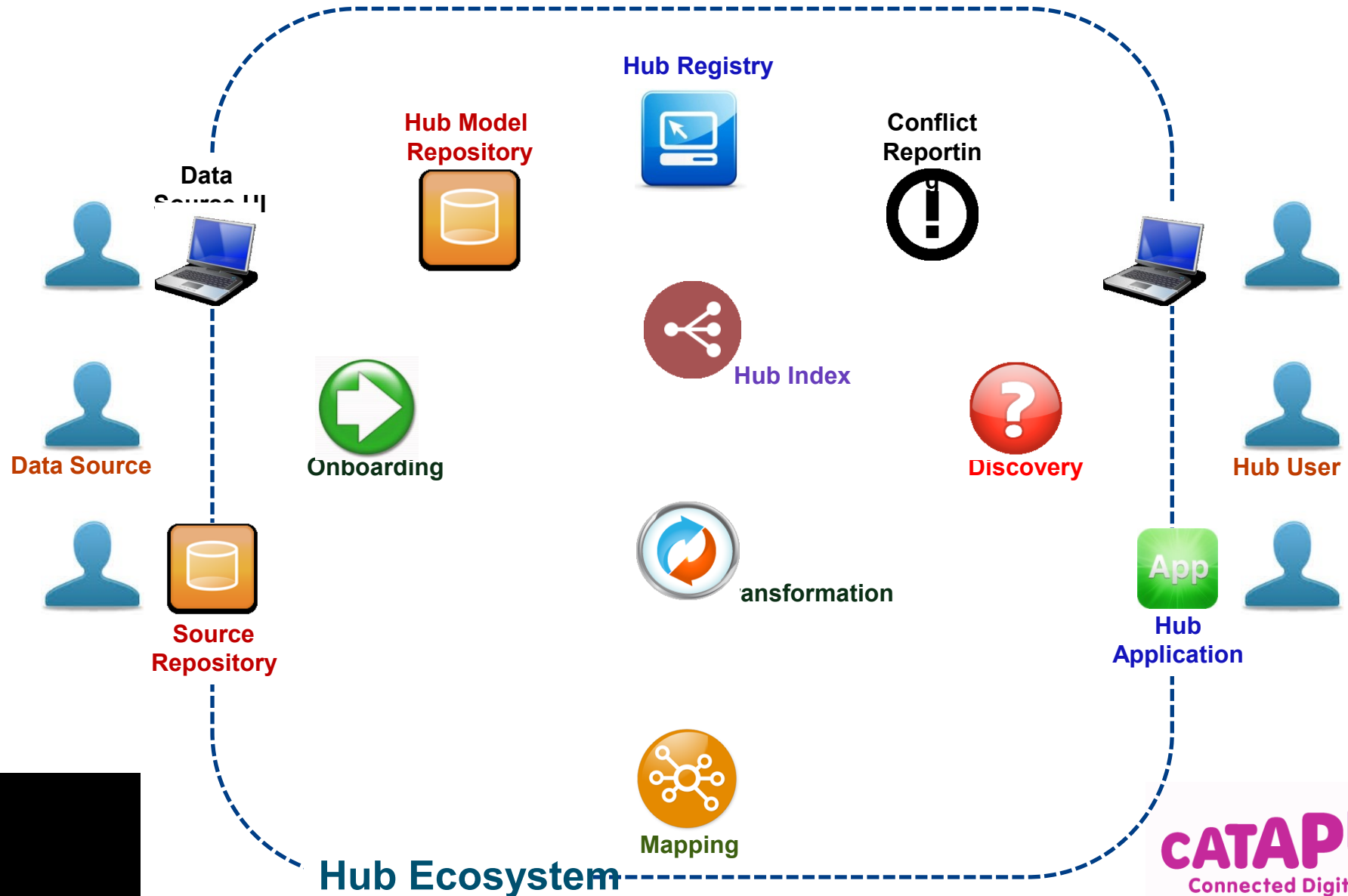
<http://copyrighthub.co.uk/video>



# Our History.....

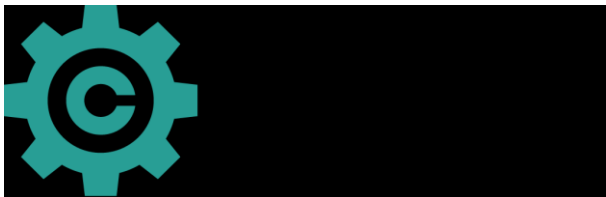


# Our Architecture...



# Key Terms.....

- **HubKey** –index key within Hub Ecosystem maps to specific Entity in a Repository
- **Source ID** – any identifier used by a Source which may also be “public” ( e.g. DOI,ISBN)
- **Service Resolution URL** – the API Endpoint at which a Service is found
- **Index Service** – routes requests using these IDs to Services – “hub of the Hub”
- **Registry Service** – maintains mappings and repository configuration used by above



# How to Join:

## Hub Index

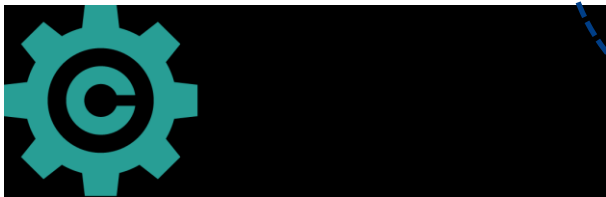
Hub Model  
Repository



Hub Index

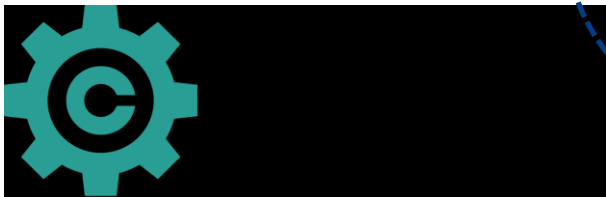
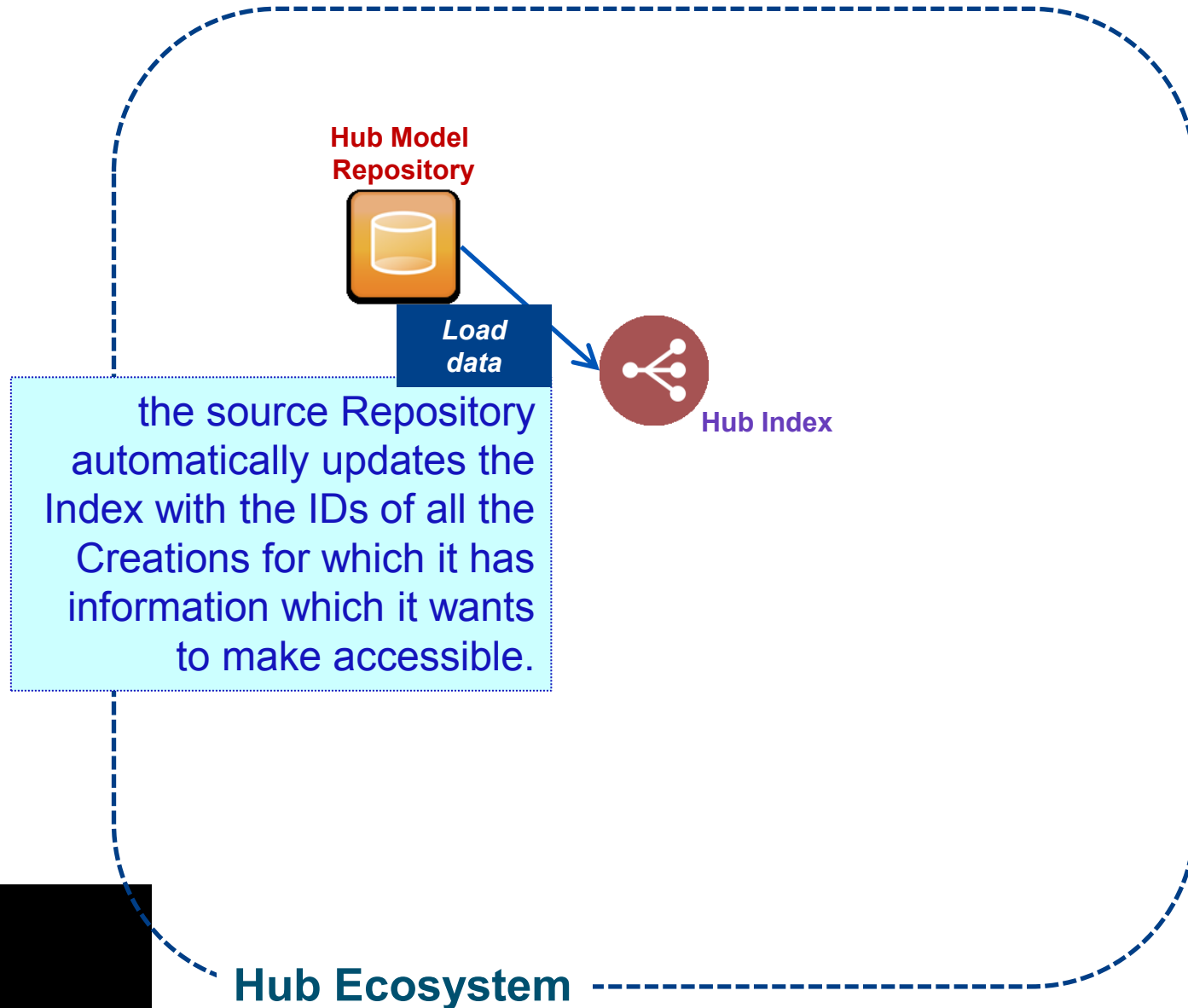
Now comes the process which is the key to the way the Hub is “bound together” - the **Hub Index**.

Hub Ecosystem



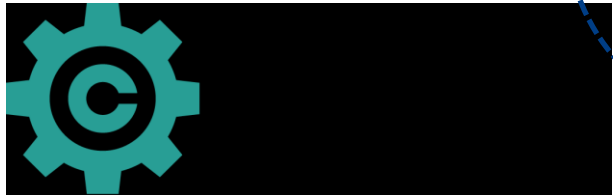
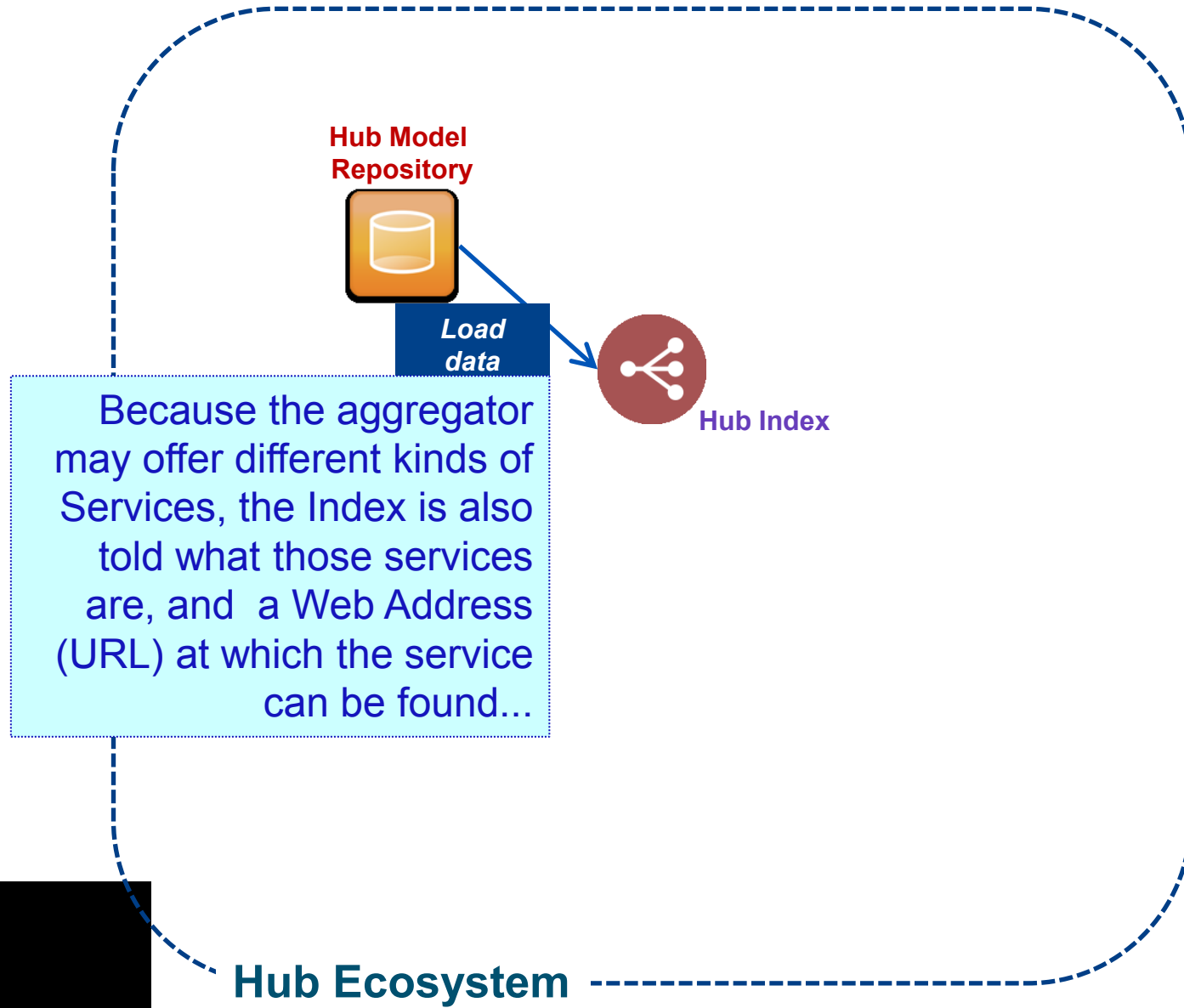
# How to Join:

# Hub Index



# How to Join:

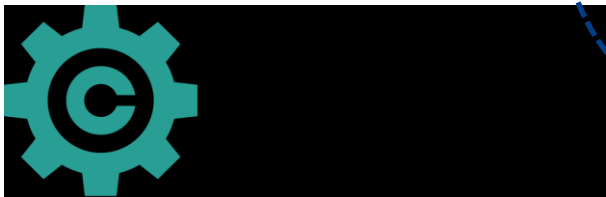
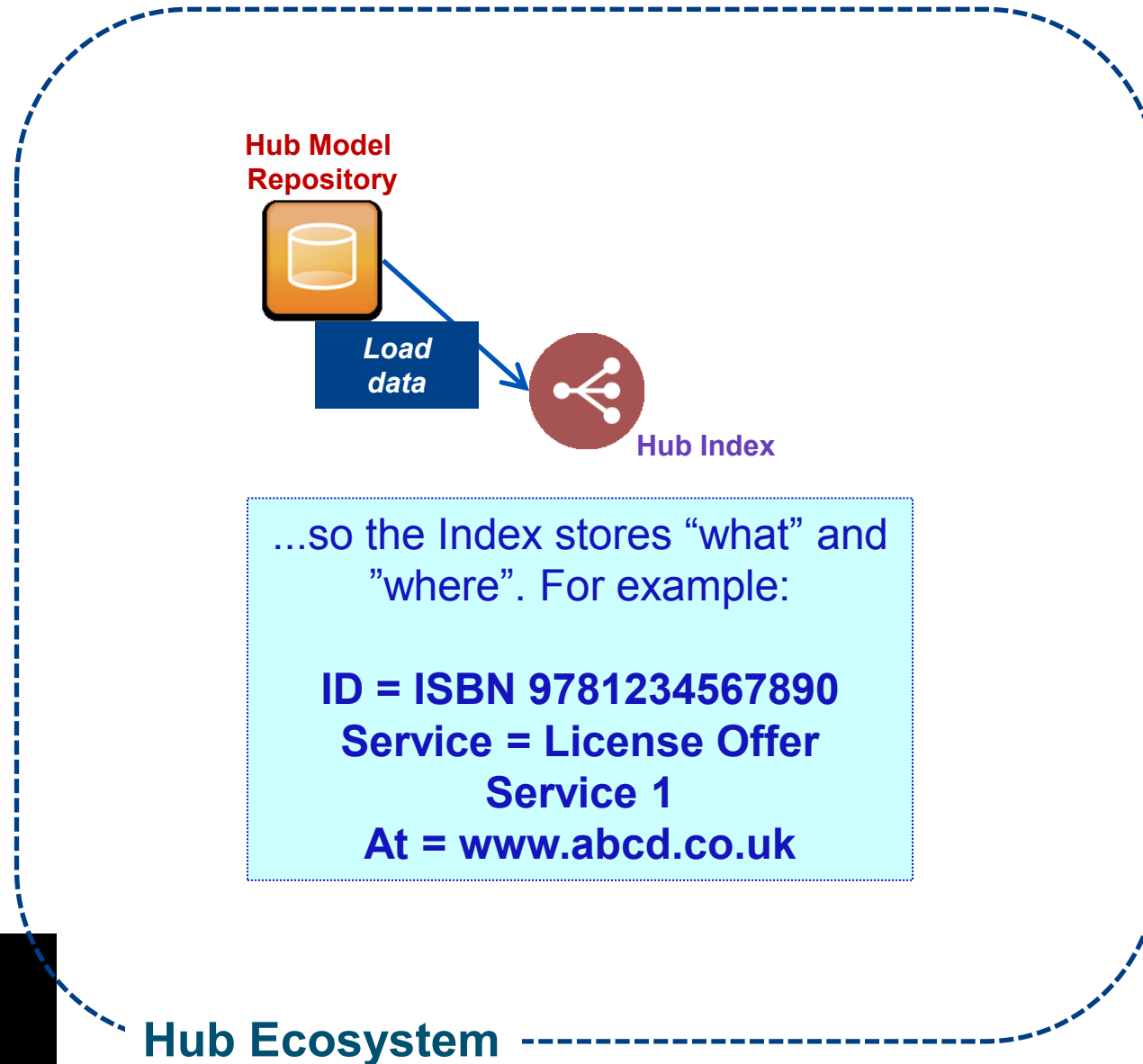
# Hub Index





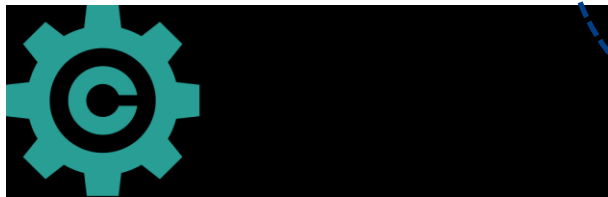
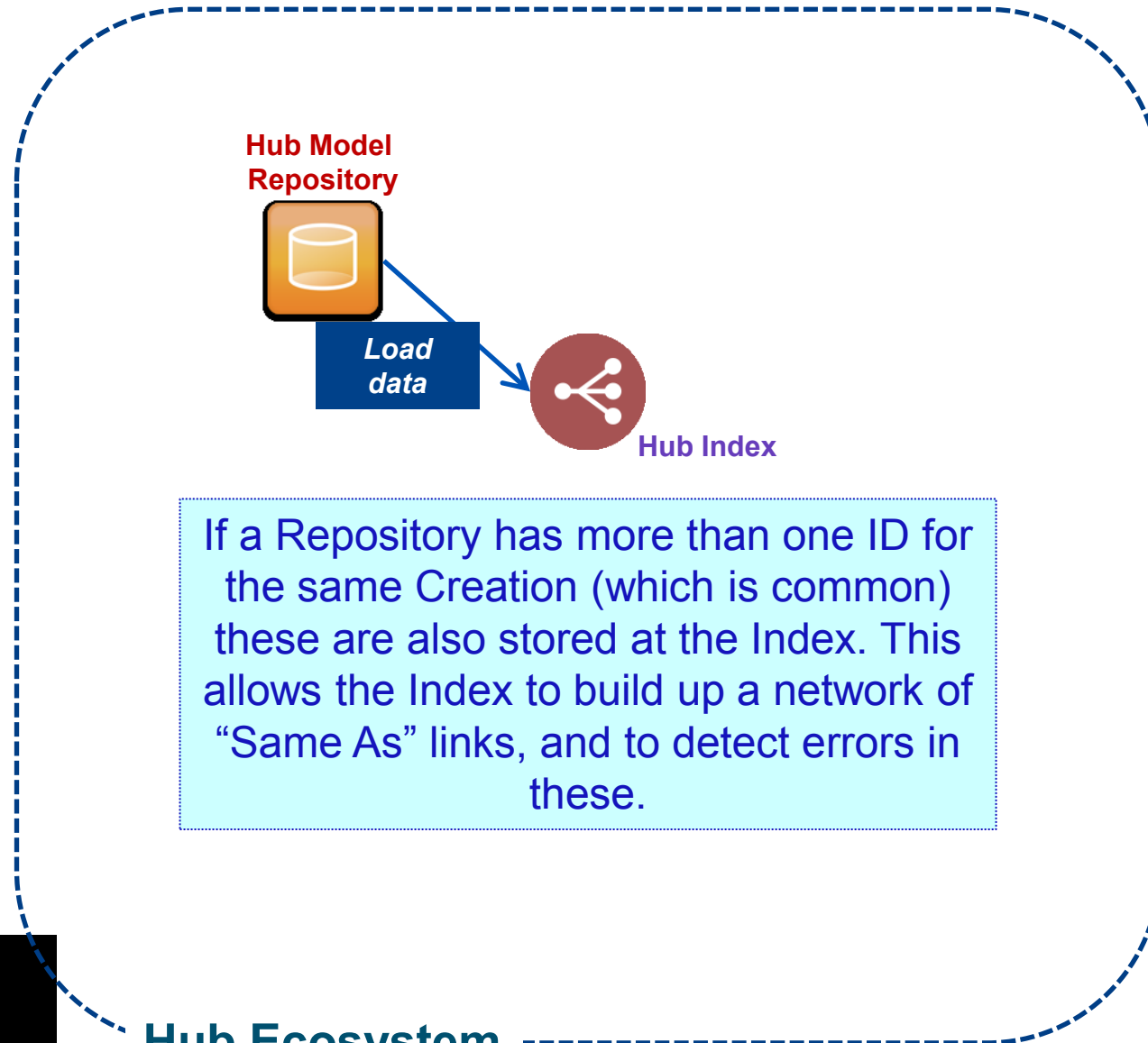
# How to Join:

## Hub Index



# How to Join:

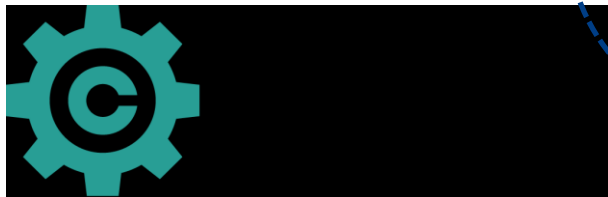
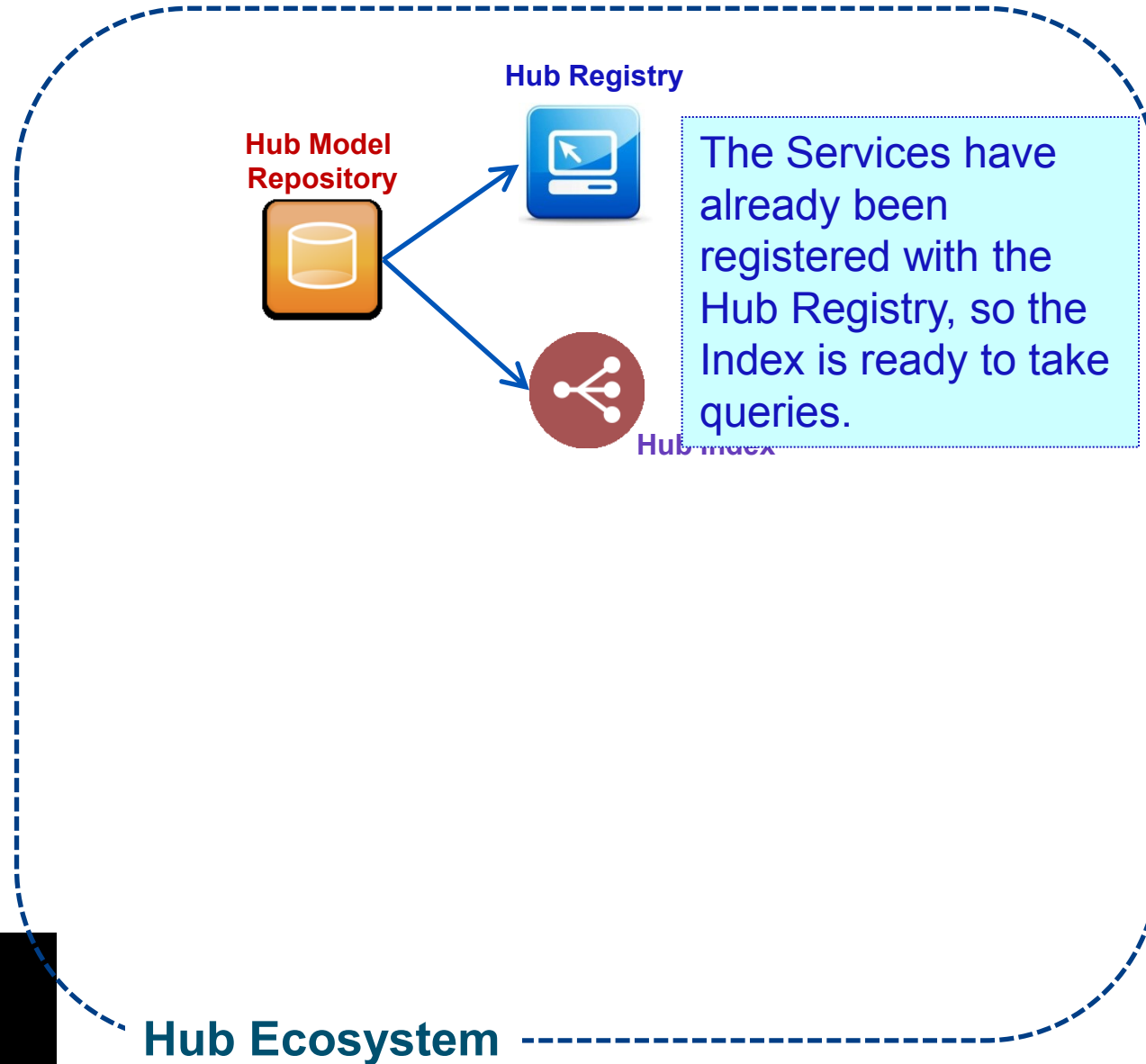
## Hub Index



Hub Ecosystem

# How to Join:

## Hub Index

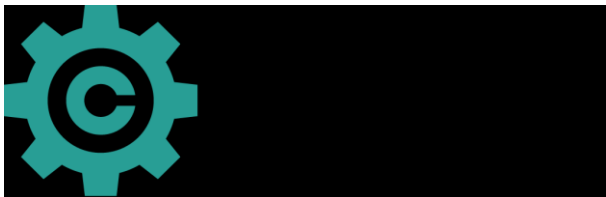
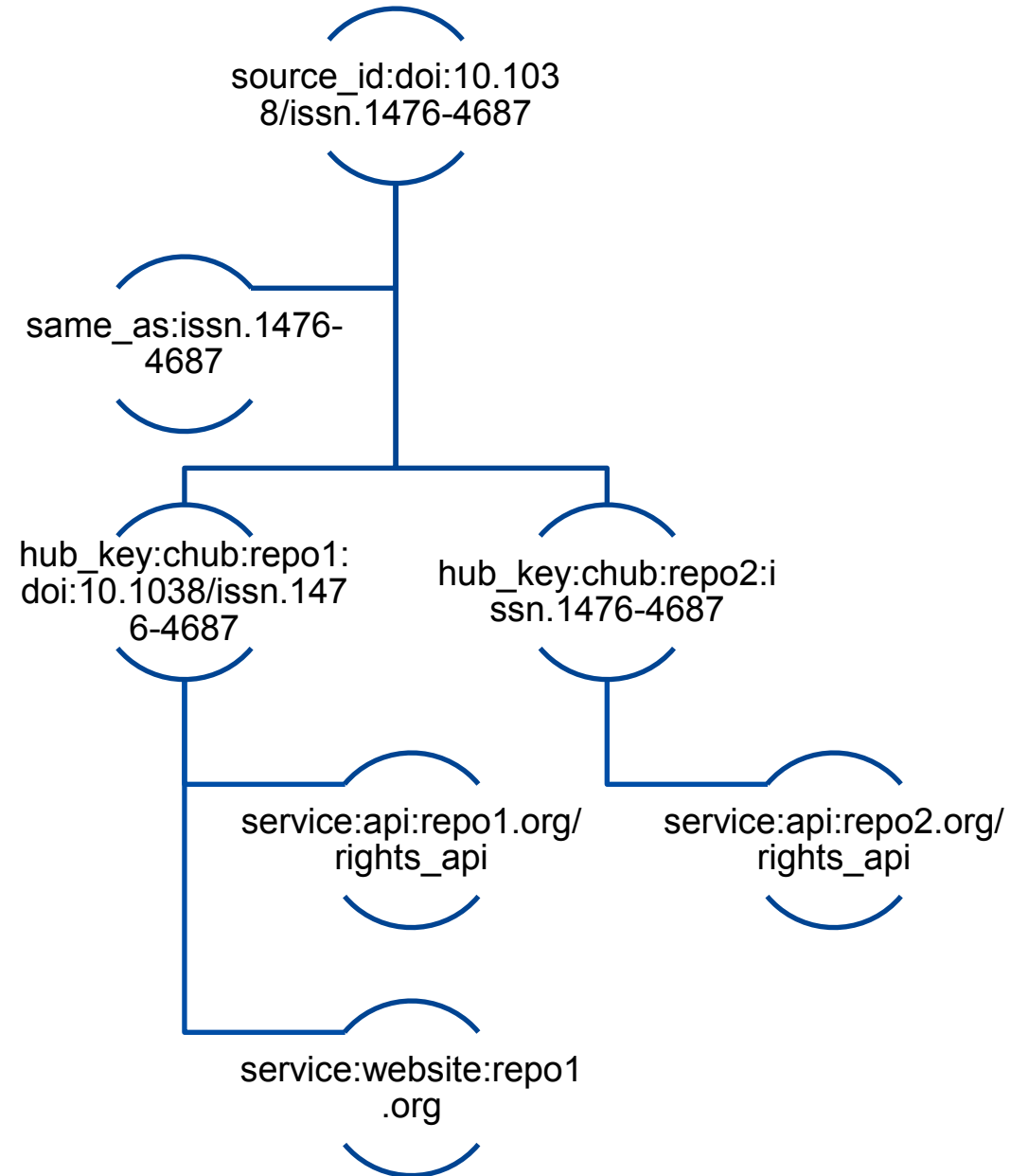


# Joining workflow in Summary

- Repository registers with Registry Service – includes information below
  - ID Types they support
  - Method to update Index Service ( push, pull , live )
  - URLs to Repository API endpoints and types
  - Authentication and Security Information
- Index service
  - Updated by 'push' from repository or 'pull' based on schedule in registry
  - Matches source\_IDs between different repositories
  - Alerts on conflicts in particular incorrect 'same\_as' assertions
  - Optimised for multiple ID lookups
  - Can Query repositories in real time if desired ( live )

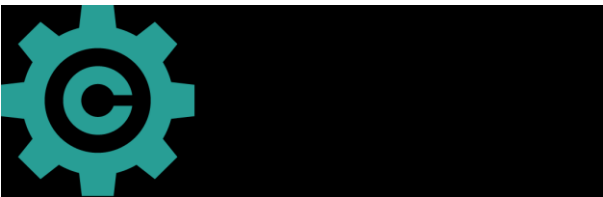


# Sample Record in Index service



# Querying workflow in Summary

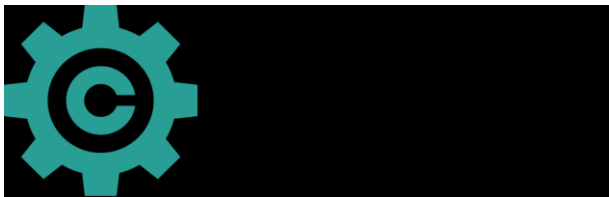
- User or service queries index service with a 'source ID' or 'Hub Key'
- Index returns with following depending on type of query
  - Web page to present rights information based on ID if via a web browser
  - API response containing related IDs, Hub\_Keys and service URL endpoints which can provide rights information or services within the eco-system



# What we are investigating

- Underlying technology behind DOI ( Handle ) – can it be used for Index Service?
- Resolution ‘types’ model supported by Handle/DOI
- More complex assertions of ID relationships beyond ‘sameAs’

Find out from yourselves - DOI Operators and Registries - about how it works in practice

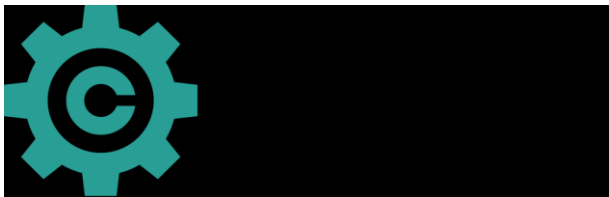


# Summary

## What the Hub is:

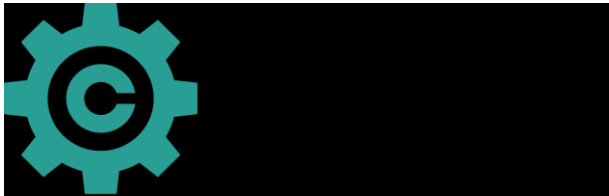
- A core set of Open Source Services
- An eco-system of Companies and Services connected to above – the Hub(s)
- Route Rights/License Information between services in eco-system
- Mapping of Rights/License between different formats using the LCC model

**Current Status:** Completed Alpha phase working on Beta now using Agile/Continuous Pipeline methodology





Any questions?



# More Information

- The Digital Catapult: [www.cde.catapult.org.uk](http://www.cde.catapult.org.uk)
- The Copyright Hub: <http://www.copyrighthub.co.uk/>
- Mark Hewis: [mark.hewis@cde.catapult.org.uk](mailto:mark.hewis@cde.catapult.org.uk) @Mhewis

Contact myself to join the Copyright Hub Technical Working Group

- Further information from Dominic Young [Dominic.Young@copyrighthub.co.uk](mailto:Dominic.Young@copyrighthub.co.uk)

