Change Notification Architecture Walkthrough

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Background

There are many information systems contributing data

- ... with irregular update periodicity
- ... in different metadata formats
- ... stored and managed in very different platforms
- ... some of which will reference data in other systems
- ... and some of which will copy data from other systems

All of which needs to be discoverable via a single system







Technical Assumptions

Records can be made available as Web Resources

- ... either internal only, or also externally
- ... at stable URIs

Systems can generate a list of their Records

... and will be able to publish that list as a Web Resource

The Web is the Discovery Platform









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Requirements

Discovery data should be reasonably up to date ... where "reasonable" may differ between systems

Loading updated data should be automatic, not manual ... including addition of new systems

Discovery is broad and high level in the aggregate ... and provides deep links enabling specific queries

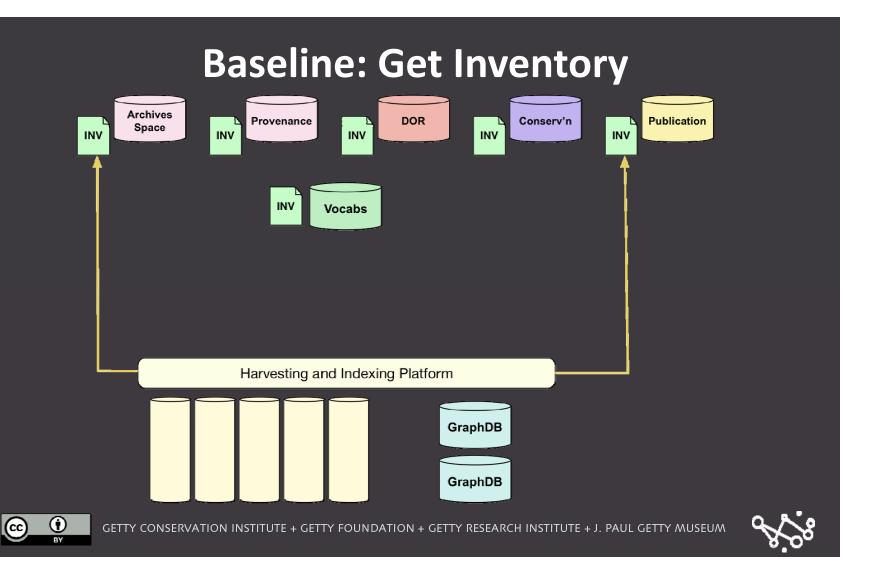
Discovery is about finding, not about researching





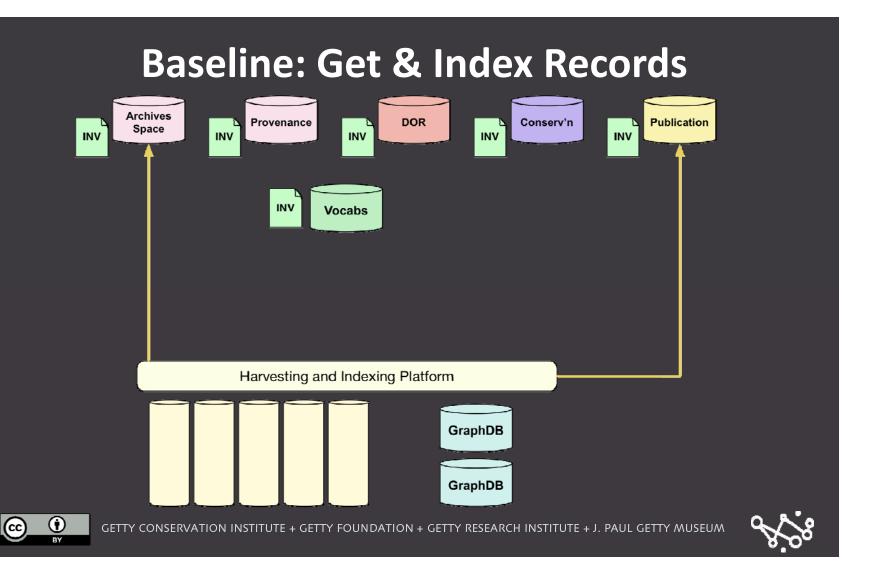


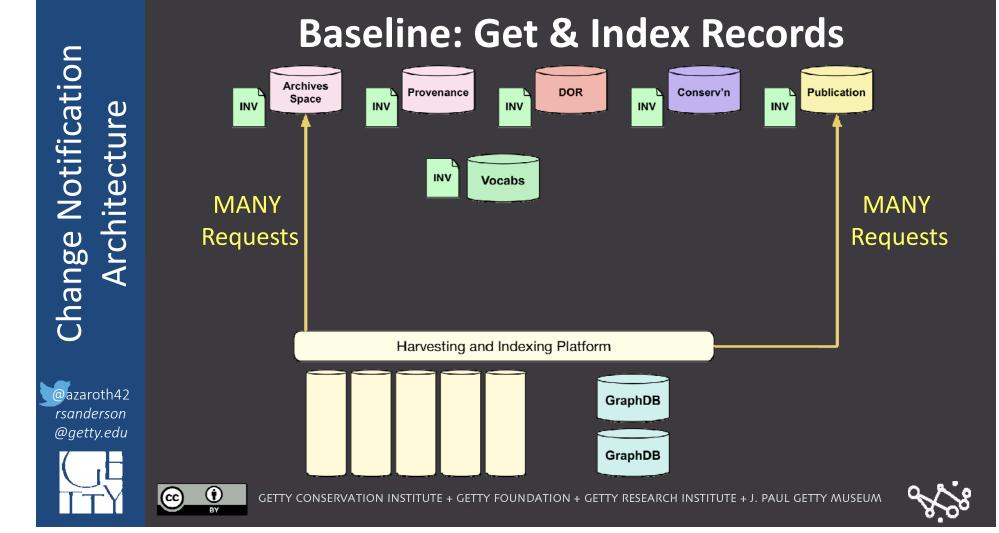




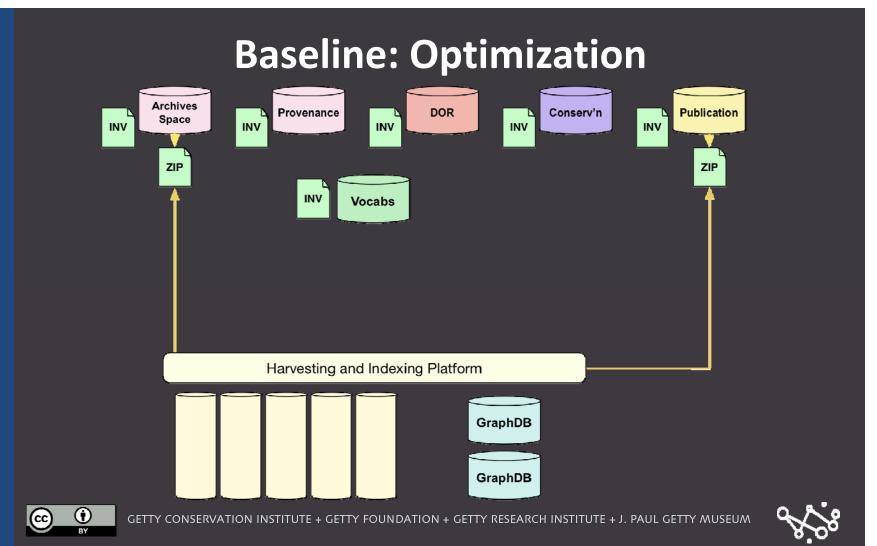






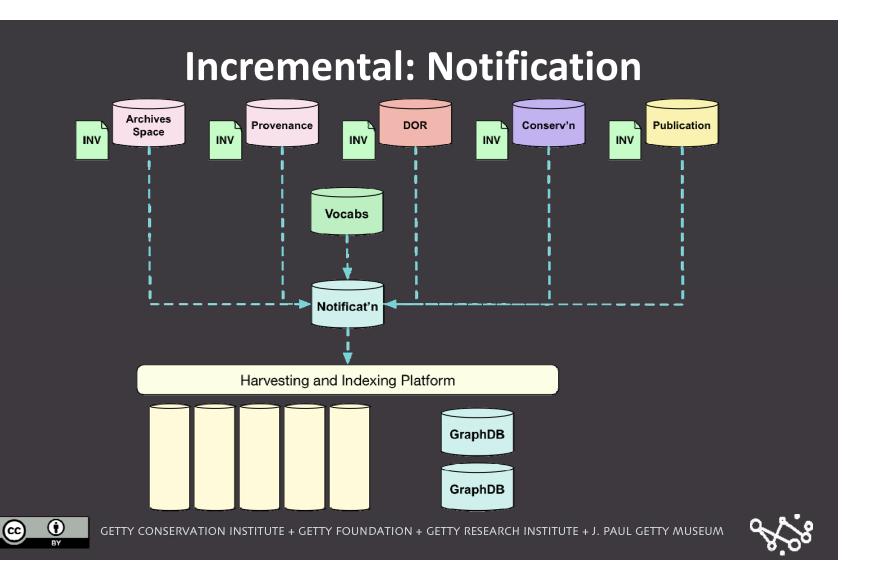


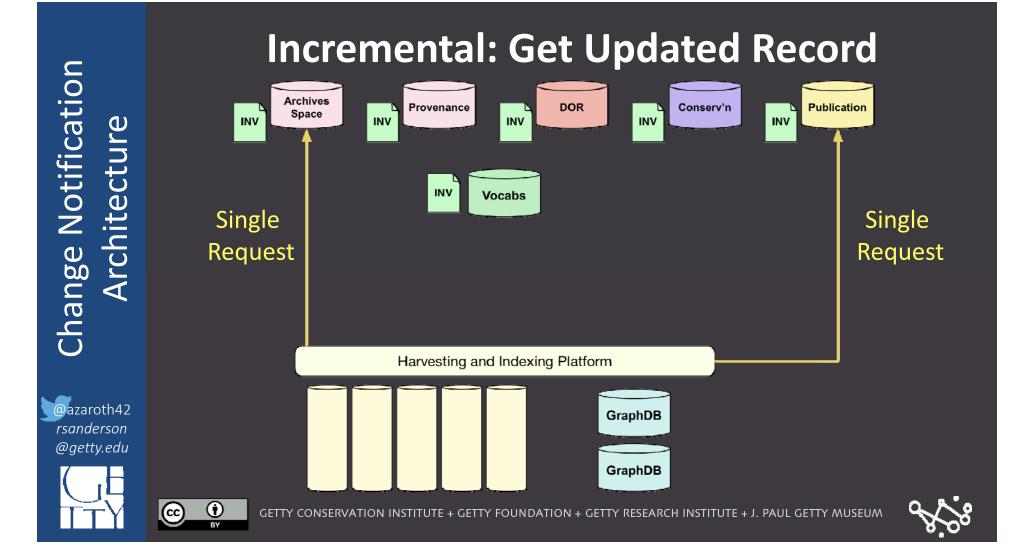






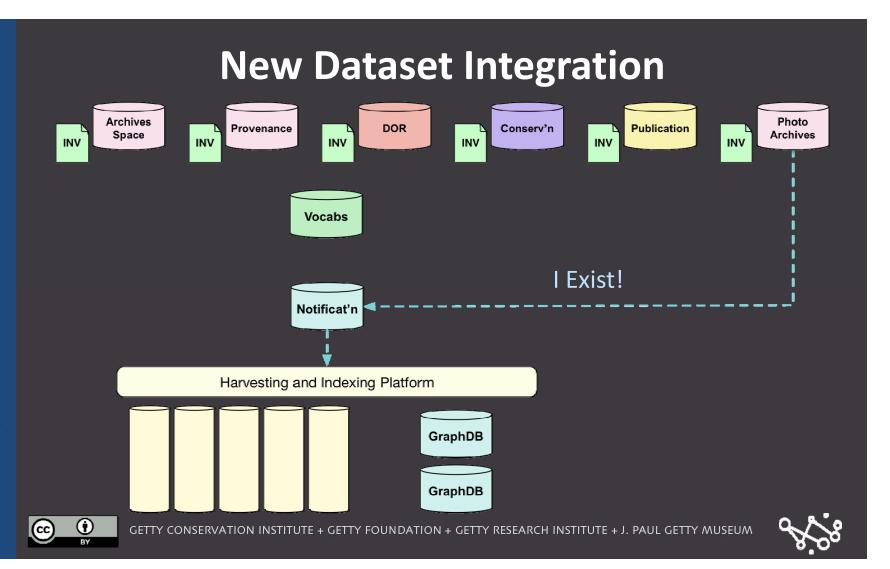












Wait ... Wut?







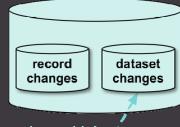






(C)

Subscription to Channels



I want to hear about this!

Harvesting and Indexing Platform









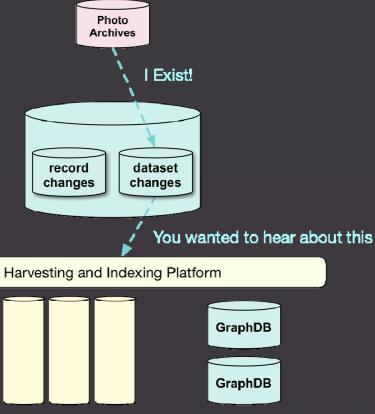




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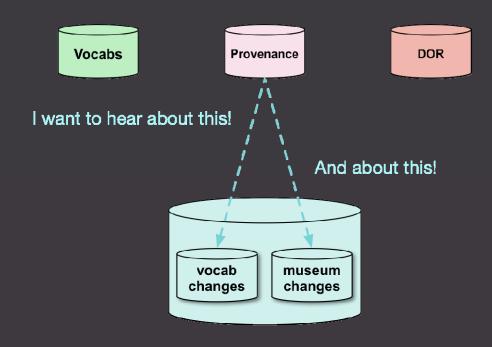
Notifications go to Channel Subscribers







Channel per Content Provider



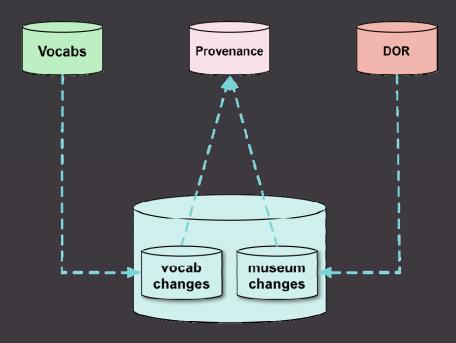








Channel per Content Provider



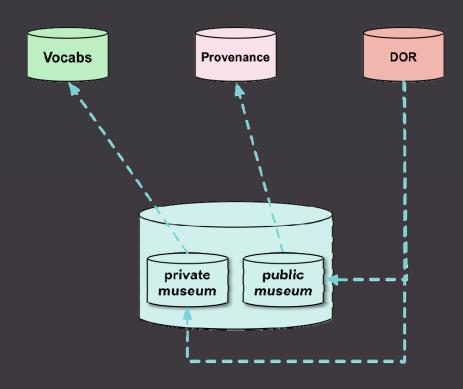








Multiple Channels per Content Provider











Standards

Subscription:

W3C WebSub

Notification:

W3C WebMention or W3C LDN

Inventory:

Google Sitemaps with NISO ResourceSync

Zip:

(duh) with NISO ResourceSync manifest







Discuss!







