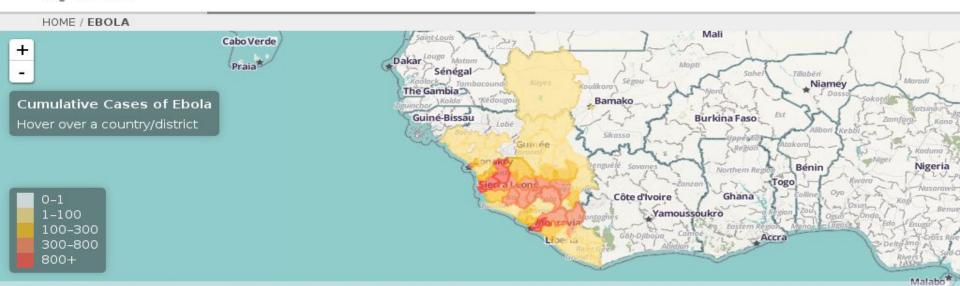
CKAN Tech Roadmap [Thoughts]

PRESENTED BY

Rufus Pollock





West Africa: Ebola Outbreak

Cumulative Cases of Ebola

27,987

WHO

Data - Explore - Aug 17, 2015

People Receiving Food Assistance

Cumulative Deaths from Ebola

11,299

WHO

Data - Explore - Aug 17, 2015

Open Ebola Treatment Centers

Response Plan Coverage

Gui

68.7%

OCHA FTS

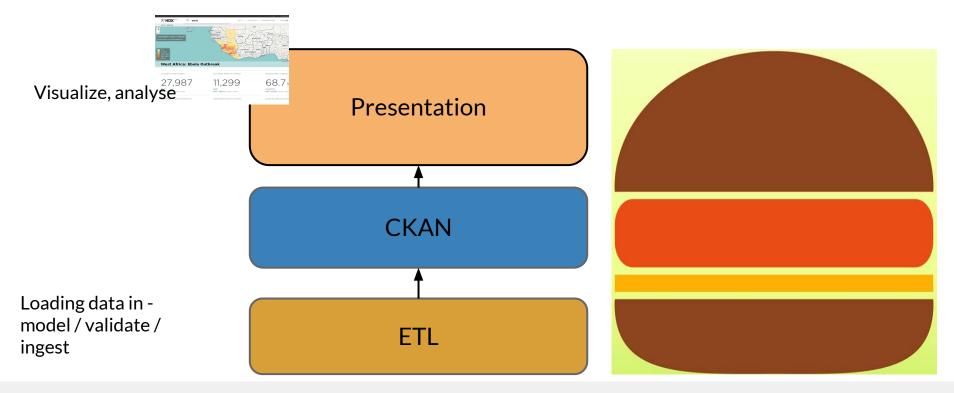
Data - Explore - Jul 21, 2015

Currently Affected Counti



Hamburger Analogy

- CKAN = meat in the hamburger.
- Presentation & ETL = "bun" around the burger
 - o modules outside of "core" code interacting via (web) API.
- Separation in tech architecture does **not** require they be separate experience for users -- the experience can be seamless (e.g. they could be built in JS + HTML and embedded into your CKAN webspace).
- But separating architecturally and separately makes it easier and faster to develop.





What's Working

- Very solid and mature platform
- Large number of deployments including many major, long-running ones
 - Respected backwards compatibility
- Metadata workflow very solid
- FileStore and DataStore now multi-year developments with subsantial deployments



Not working as well as we want

- Legacy: e.g. Pylons vs Flask, sqlalchemy-migrate, vdm
- Presentation
 - View creation and saving no way for visiting user to create and save views
 - Dashboards
 - Rich Data APIs
- Data import want to allow rich, powerful ETL integration
- Datastore (?)

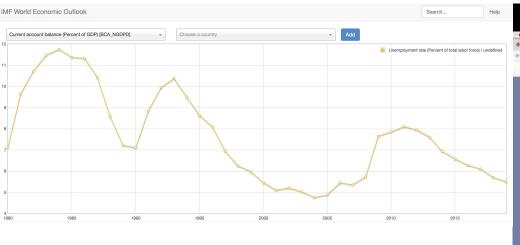


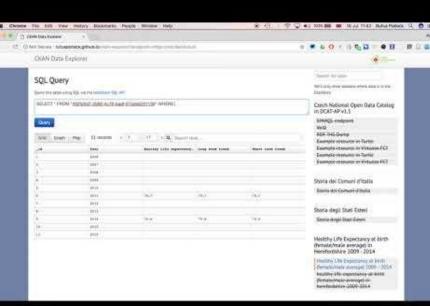
How Should Views Work

- Anyone (logged in) can create and save
- Wizard for creation
- Create using data from multiple datasets
- Massively improved version of (very crude)

http://dev.rufuspollock.org/ckan-explorer/?endpoint=https://old.datahub.io

http://dev.rufuspollock.org/imf-weo/







How should ETL work

- Analyse guess types
- Model
- Data validate
- Ingest

Data Packages

- Key feature of intermediate "(meta)-data bus" layer (CKAN) is providing standard set of metadata and way to access it.
- Adopting Data Packages would build on and improve what is currently there
- Key metadata:
 - a. Dataset and Resource (file) name, title, description etc
 - b. Data structure (syntax) fields, types etc
 - c. Quality information (e.g. validation errors, size, up-to-dateness)
- In current CKAN: (a) is well-covered, (b) is semi-covered by current
 DataStore implementation and (c) has been discussed but never formalized
- Data Package standardizes (a), Table Schema does (b) for tabular data,
 GoodTables has a start on (c) but much to do

