Humanitarian Data Exchange

A project by the United Nations Office for the Coordination of Humanitarian Affairs

Goals

> HDX aims to make humanitarian data **easy to find** and **use** for analysis.

Project Elements

Repository

The HDX Dataset Repository, where data providers can upload their raw data spreadsheets for others to find and use.

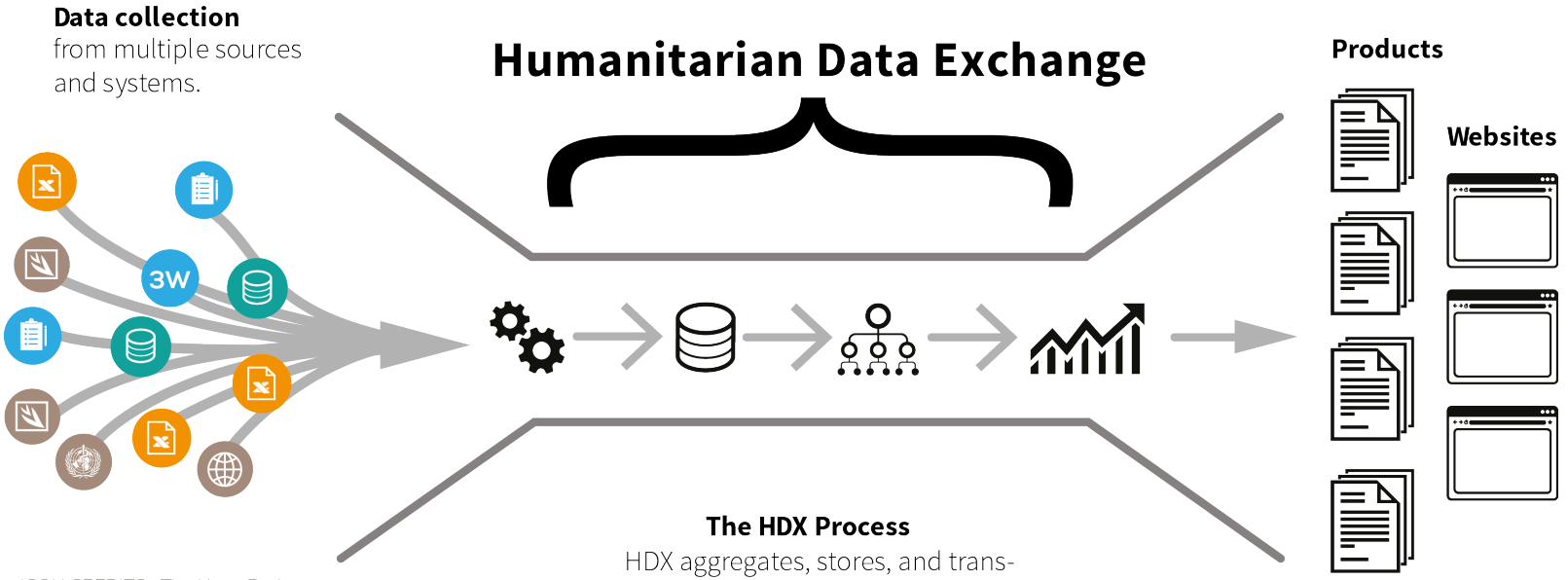
Analytics

HDX Analytics, a refined database of high-value data that can be compared across countries and crises, with web-based tools for analysis and visualisation.

Standards

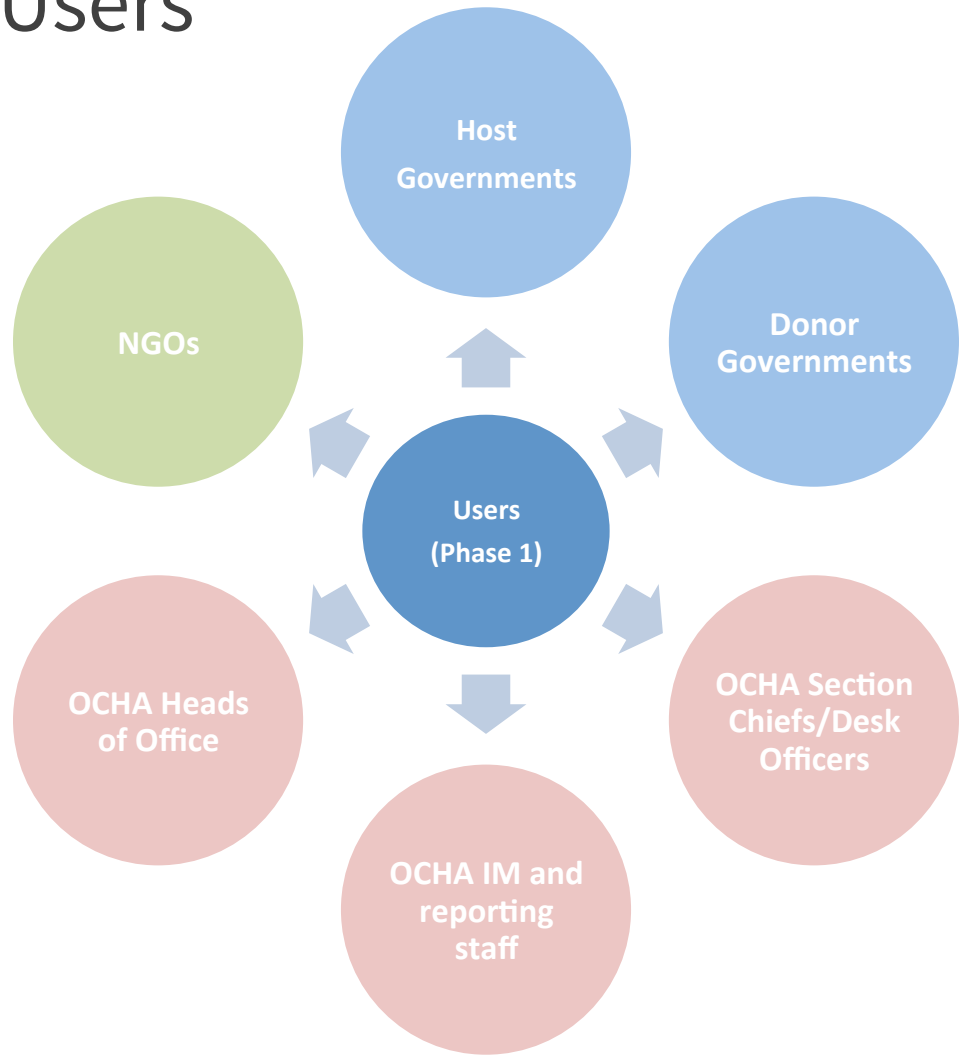
Standards to help share humanitarian data through the use of a consensus Humanitarian Exchange Language.

System Diagram



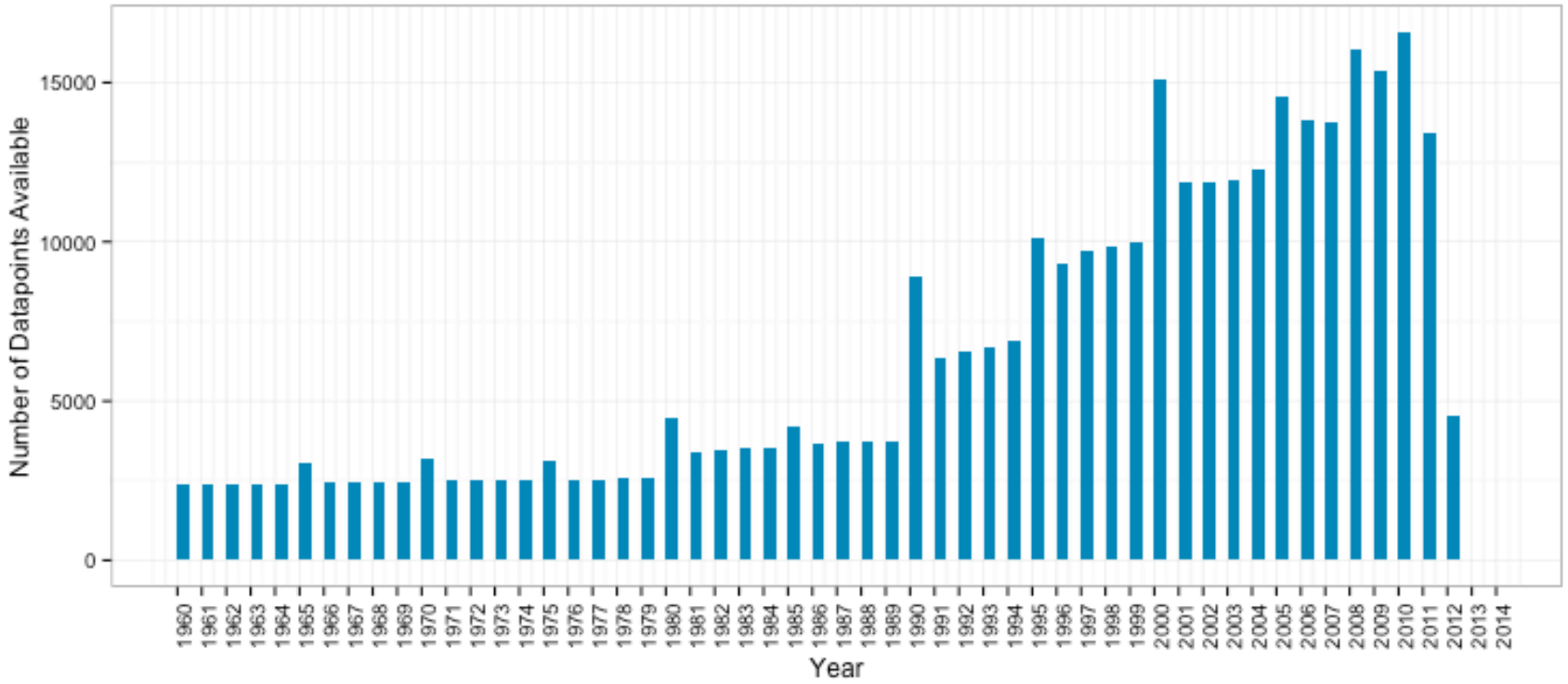
Phase 1:

Priority Users



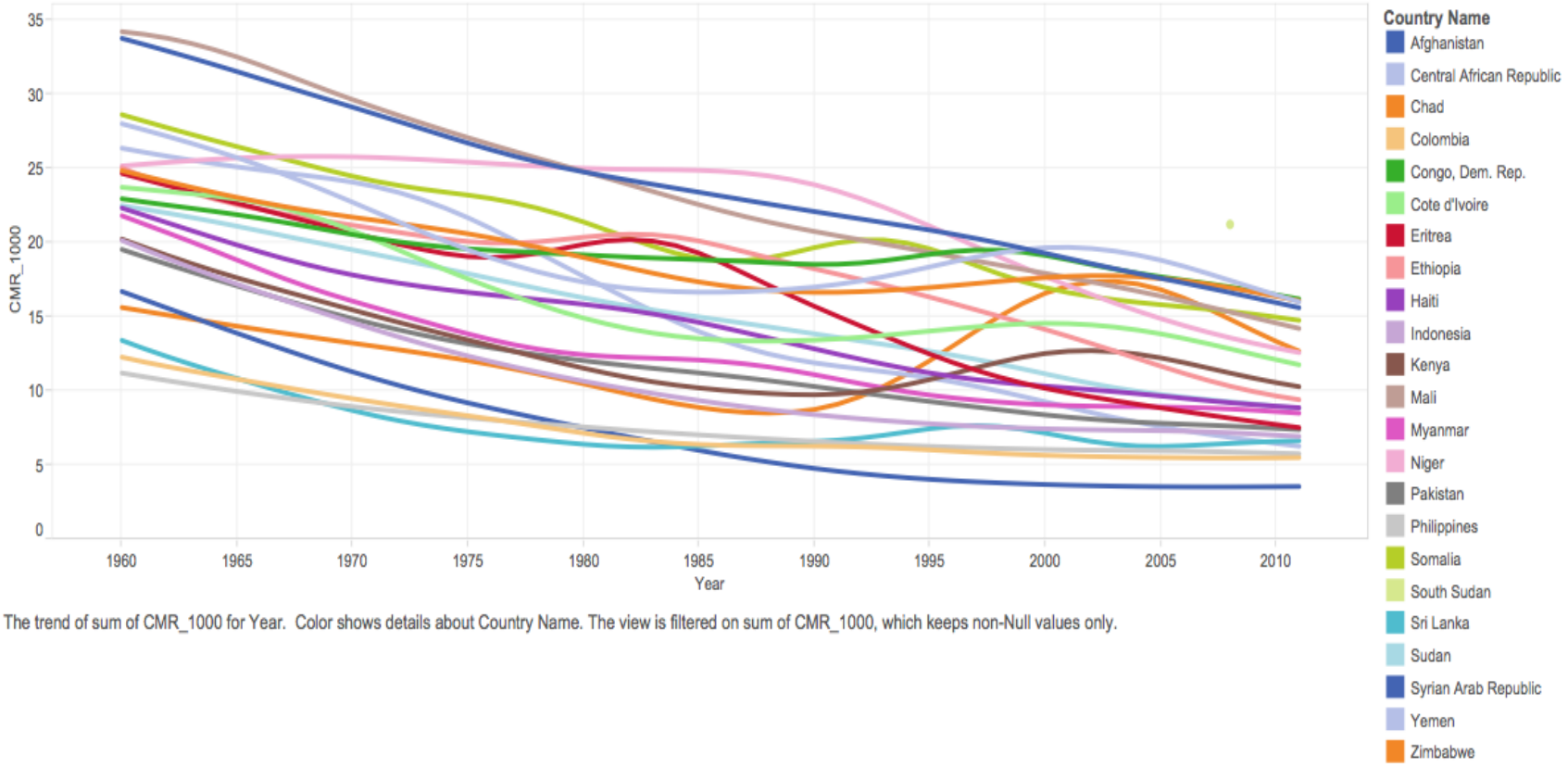
Data Aggregation

300,000+ data points collected

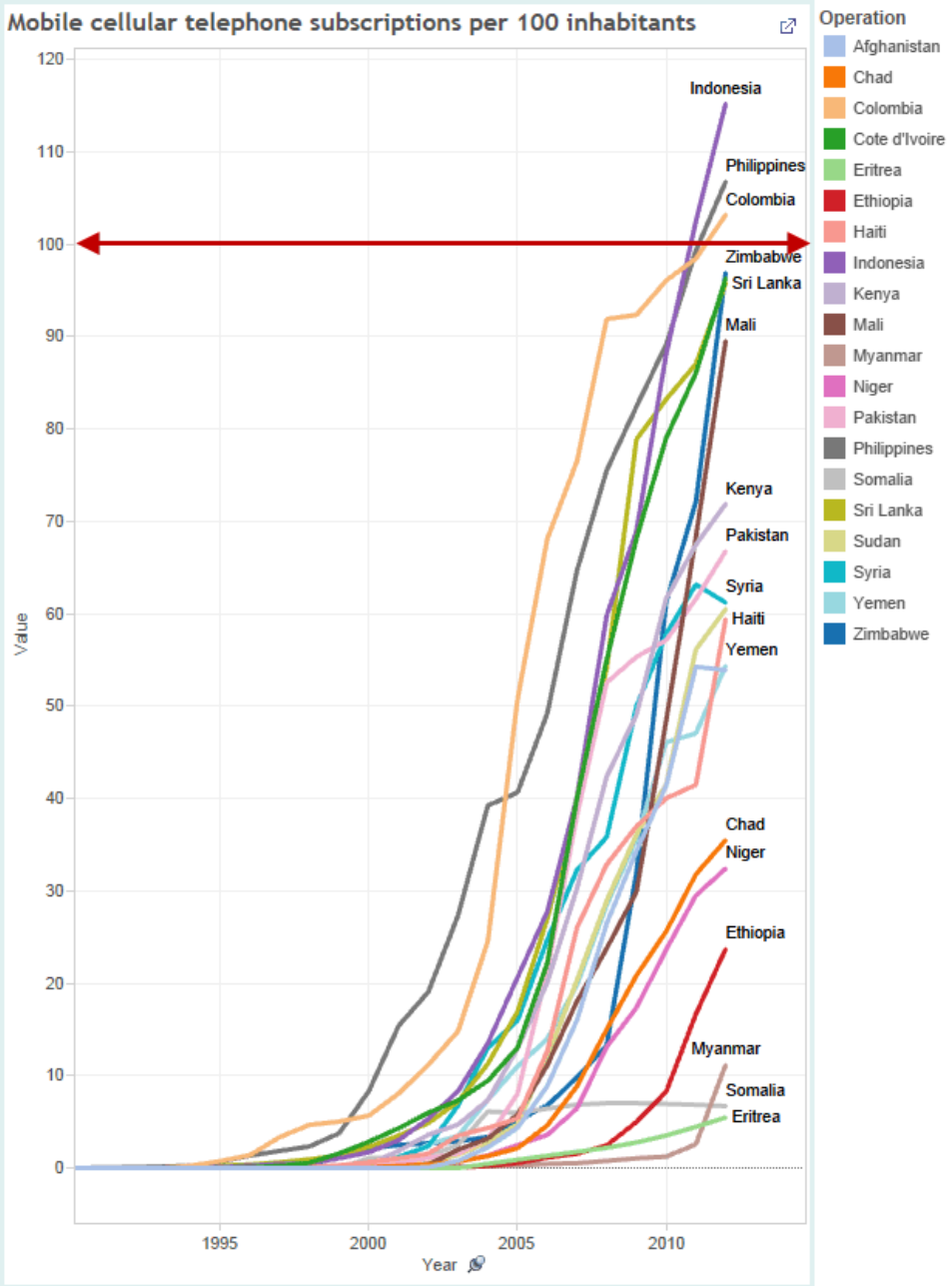


Example:

Crude Mortality Rate (past 50 years)
24 OCHA Country Offices



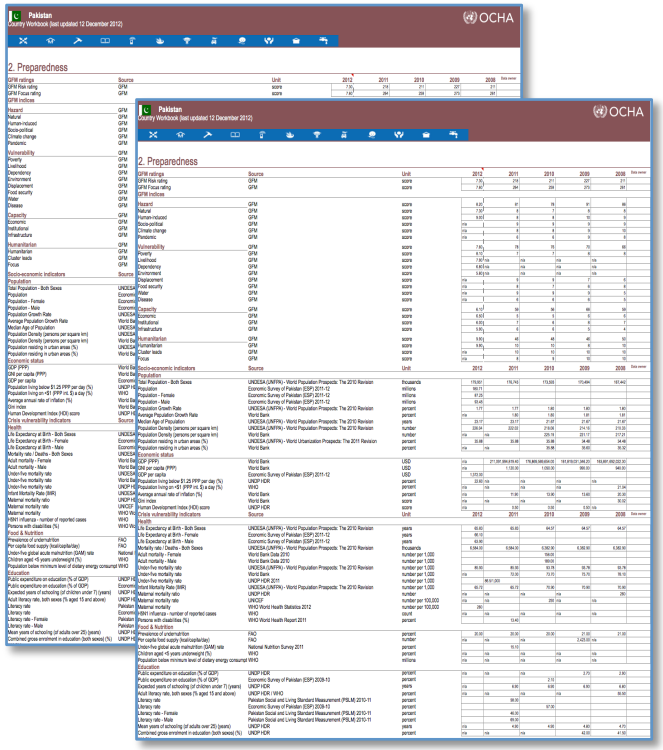
The trend of sum of CMR_1000 for Year. Color shows details about Country Name. The view is filtered on sum of CMR_1000, which keeps non-Null values only.



Example:

Mobile phone subscriptions per 100 people (past 17 years) -
24 OCHA Country Offices

The Common Humanitarian Dataset



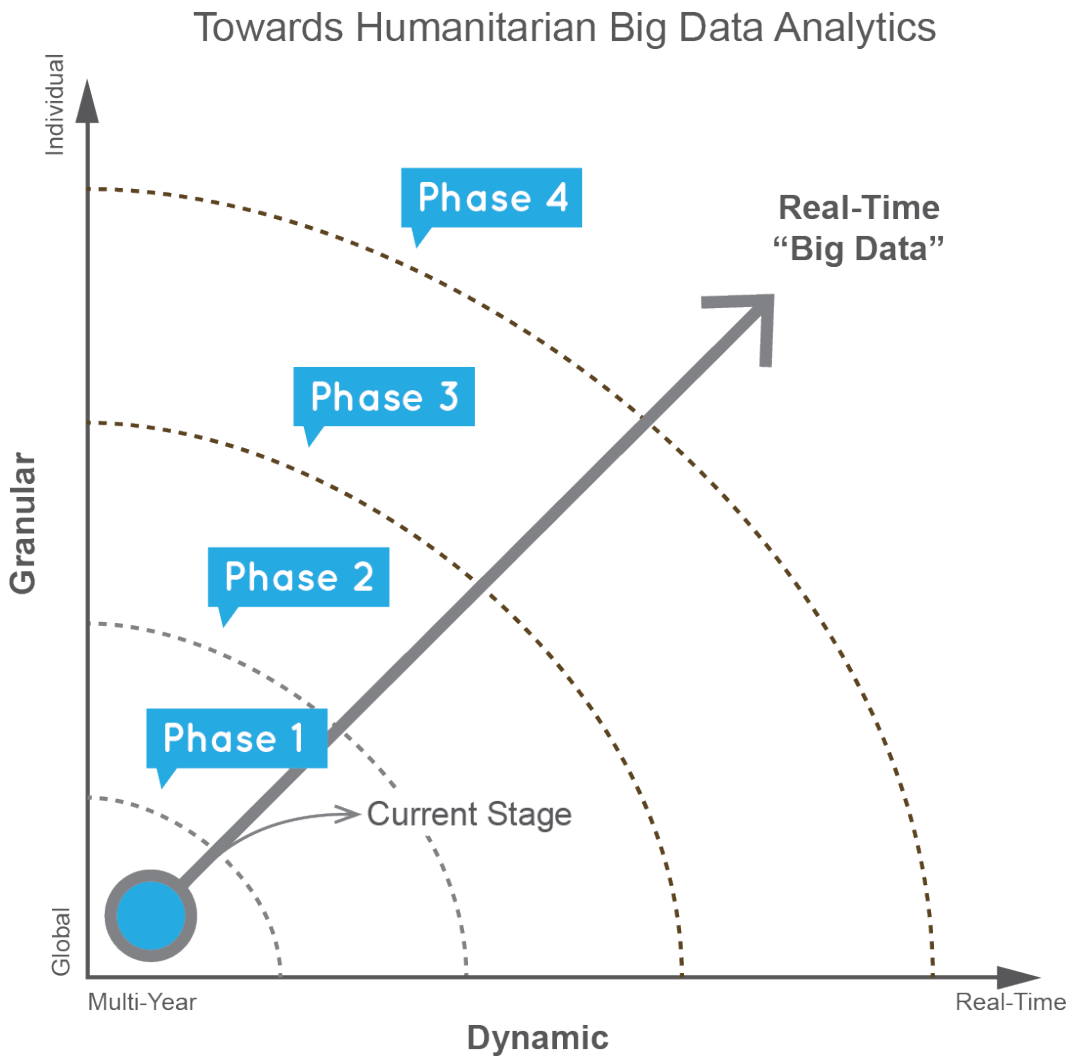
- **600 indicators from over 30 data sources**
- **Includes data from *across the programme cycle*:**
- Country context (languages, currency, office locations, etc)
- Preparedness data
- Operational data
- Humanitarian financing
- Geospatial data
- Access data

Quality assurance framework

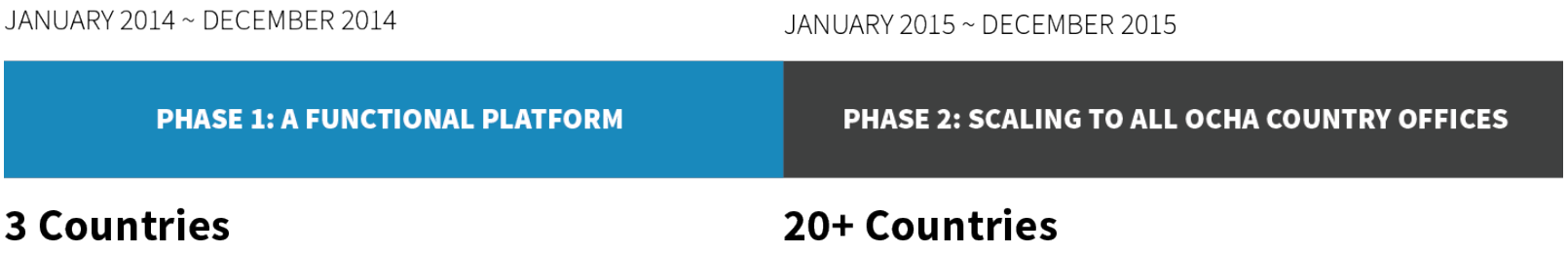
Quality dimensions:

1. **Relevance** - the degree to which it meets the current and potential future needs of the clients
2. **Accuracy** - the degree to which the information correctly describes the phenomenon it was designed to measure.
3. **Timeliness** - the delay between when the data is collected and released for use.
4. **Accessibility and interpretability** - the ease with which data can be obtained from the data sources and the availability of the supplementary information (metadata) needed to utilize and understand the data effectively.
5. **Comparability** - the degree to which data can be brought together with other statistical data within an analytical framework.

Towards real-time, granular data



Project Scope and Timeline

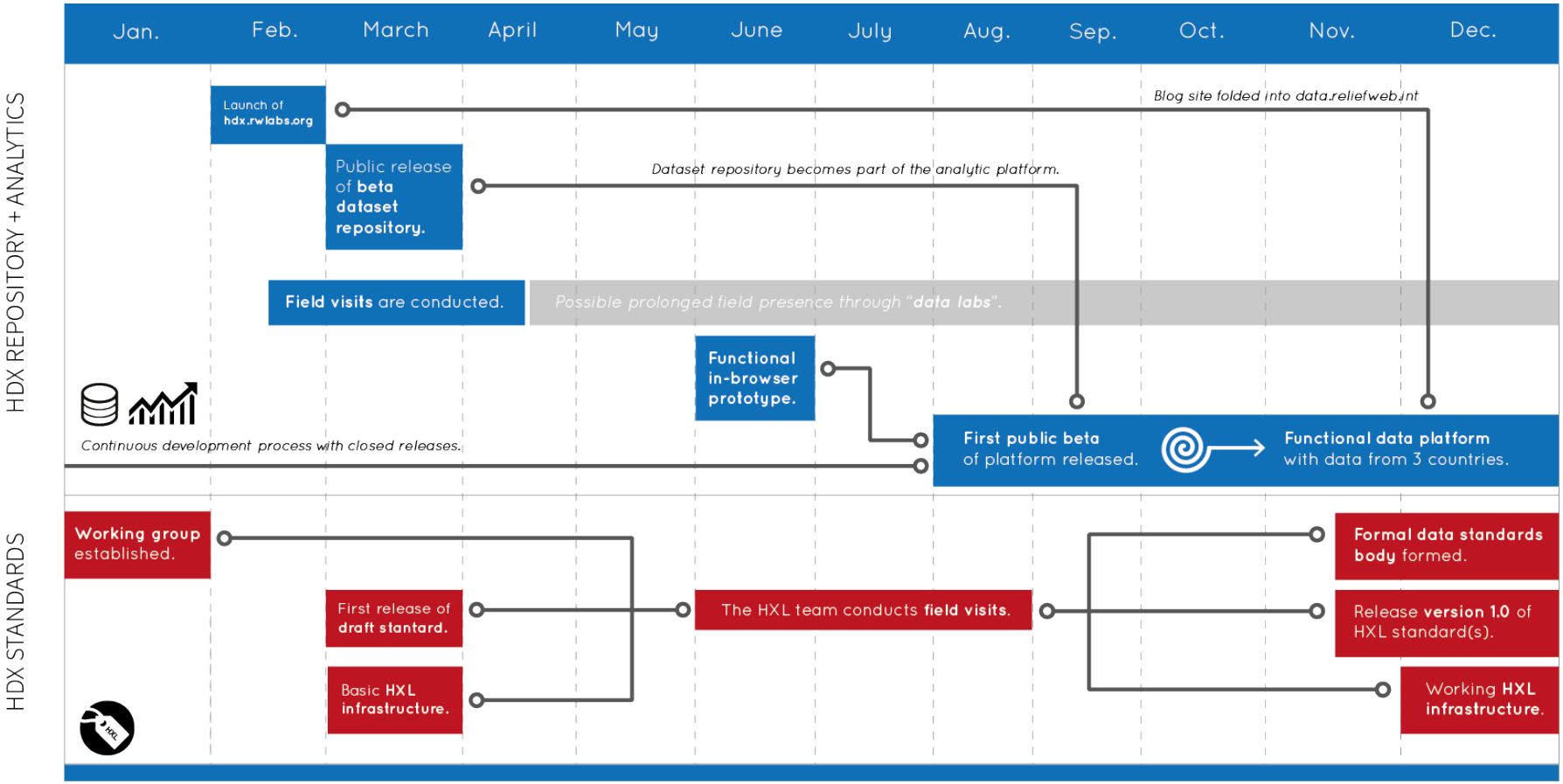


Phase 1 will develop a functional platform for 3 countries.

Phase 2 will scale the system to more countries and more users.

The timeframe will depend on resources and data readiness.

High-level Roadmap



Deliverables for the Field

1. A place to find the data spreadsheets that are shared amongst the humanitarian community
2. An analytic interface for comparing country-based humanitarian data across time and space
3. A data quality review process for a subset of humanitarian data
4. Agreed data standards for a subset of humanitarian data
5. Technical and data analysis support

Data Labs (concept)

A Data Lab is a physical space in a field office that is staffed by team of data managers, developers and data analysts dedicated to improving the data environment *with* OCHA and the wider community.

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