

INF5750

Group Projects



University of Oslo
Department of Informatics

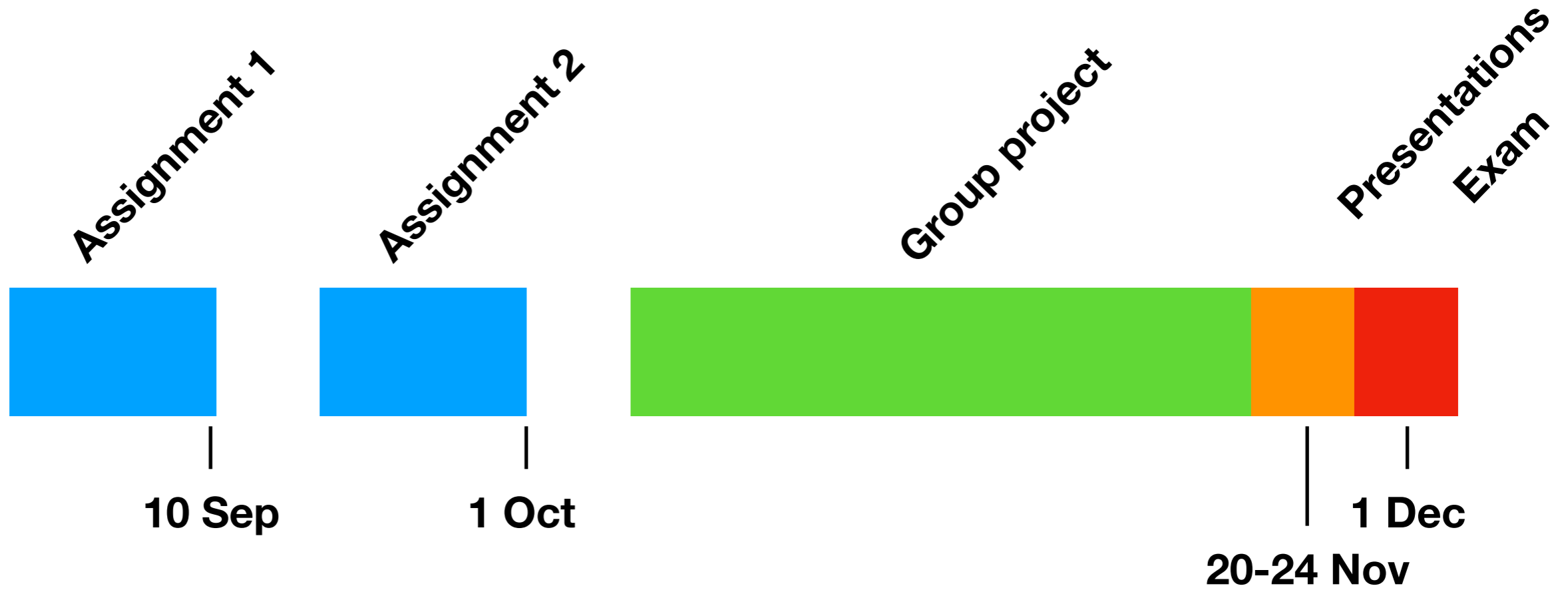
Outline

- Practical information
- Overview of the available assignments

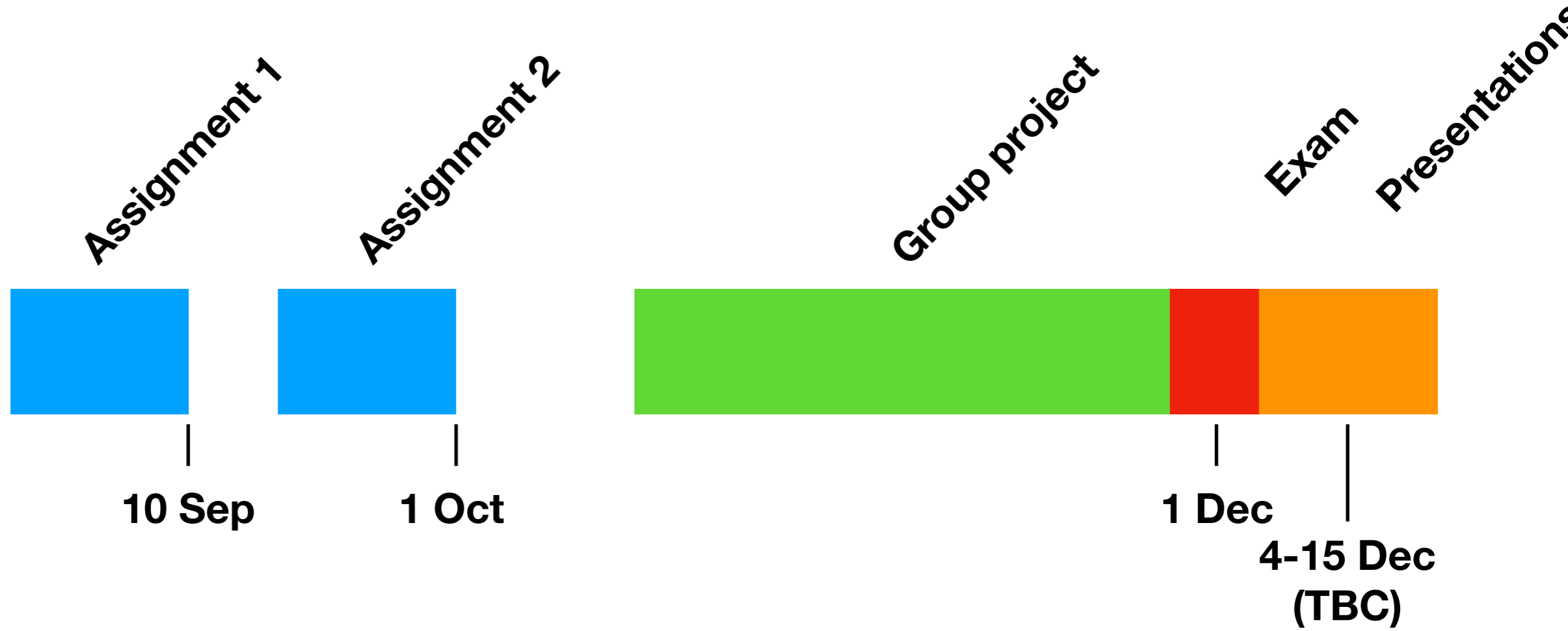
Forming groups

- Groups should have 3-4 members
- If you have formed a group, submit here:
<https://nettskjema.uio.no/answer/88401.html>
- Form is open until next Wednesday
- Those who have not submitted will be put in groups
- Each group chooses one of five possible assignments
- Only open for students who have passed both obligs

Timeline



Timeline



Tools

- INF5750 Wiki
- [github.uio.no](https://github.com/uio-no)
- Online test instance of DHIS2

Wiki

- Information about the group project will be kept on the Wiki, including:
 - Practical information
 - The assignments to chose from
 - Requirements and deadlines

Wiki

- Each group sets up a Wiki page for documenting:
 - Product description/requirements
 - Technical architecture
 - Licensing
 - Division of labour
 - Link to project repository

GitHub

- Use UiO GitHub and create an organisation
- Repo should be private to group members and teachers
- README should include instructions on how to build/run app
- Use GitHub issue tracker for issues/features

Milestone

By 1 November:

- Wiki established with above structure, with:
 - An overview of the product to be developed
 - Proposed architecture of the app (including core frameworks)
 - Broad timeline for development
 - Link to project repository

Final presentation

- The assignment chosen, and approach taken
- Overview of the development process, including key challenges
- Overview of key frameworks and libraries used, and:
 - **why** you chose them
 - implications on your product of how they are licensed
- The contribution of each group member
- **A demo of the final product**

Evaluation

- The group projects will be graded based on:
 - Product/deliverable (including source code)
 - Project documentation (Wiki)
 - **Final presentation by the group**
- The groups will *generally* be graded as a whole

Group projects

- Sharing editor
- HIV cascade analysis
- Sub-national reports
- Master facility list
- Stock level visualisations

- Will be published on Wiki this week

Sharing Editor

Background

- Sharing in DHIS2 is based on ACL (user groups)
- Current interface requires changing sharing settings one by one

Deliverable

- A DHIS2 app that facilitates modification of sharing settings, in particular batch updates

HIV cascade analysis

Background

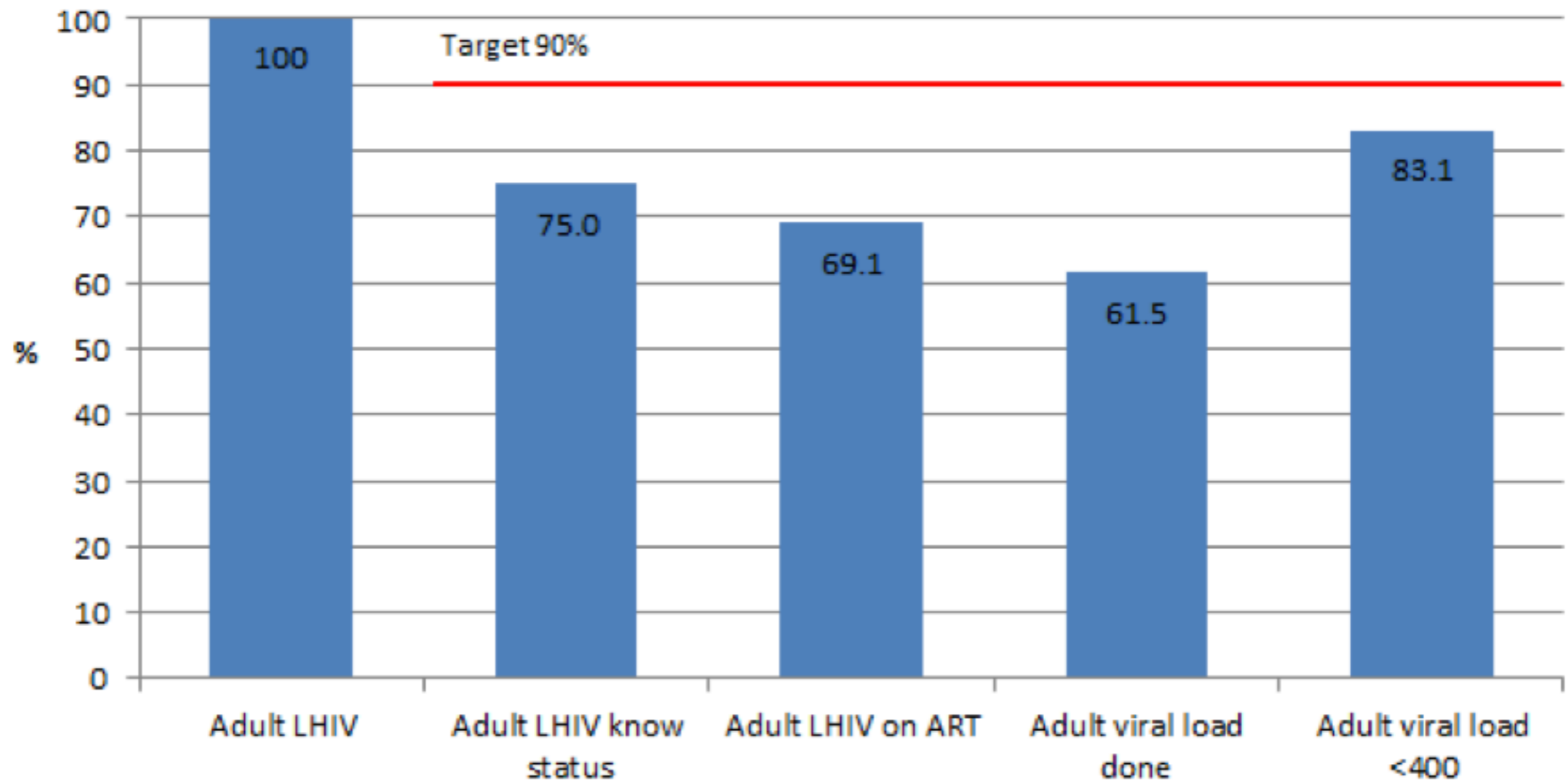
- HIV data is collected in DHIS2 in many countries
- HIV data can be analysed as a "cascade", which has some logic that is not well supported in the current analysis tools

Deliverable

- A DHIS2 app (standard and dashboard) for making "cascade" visualisations

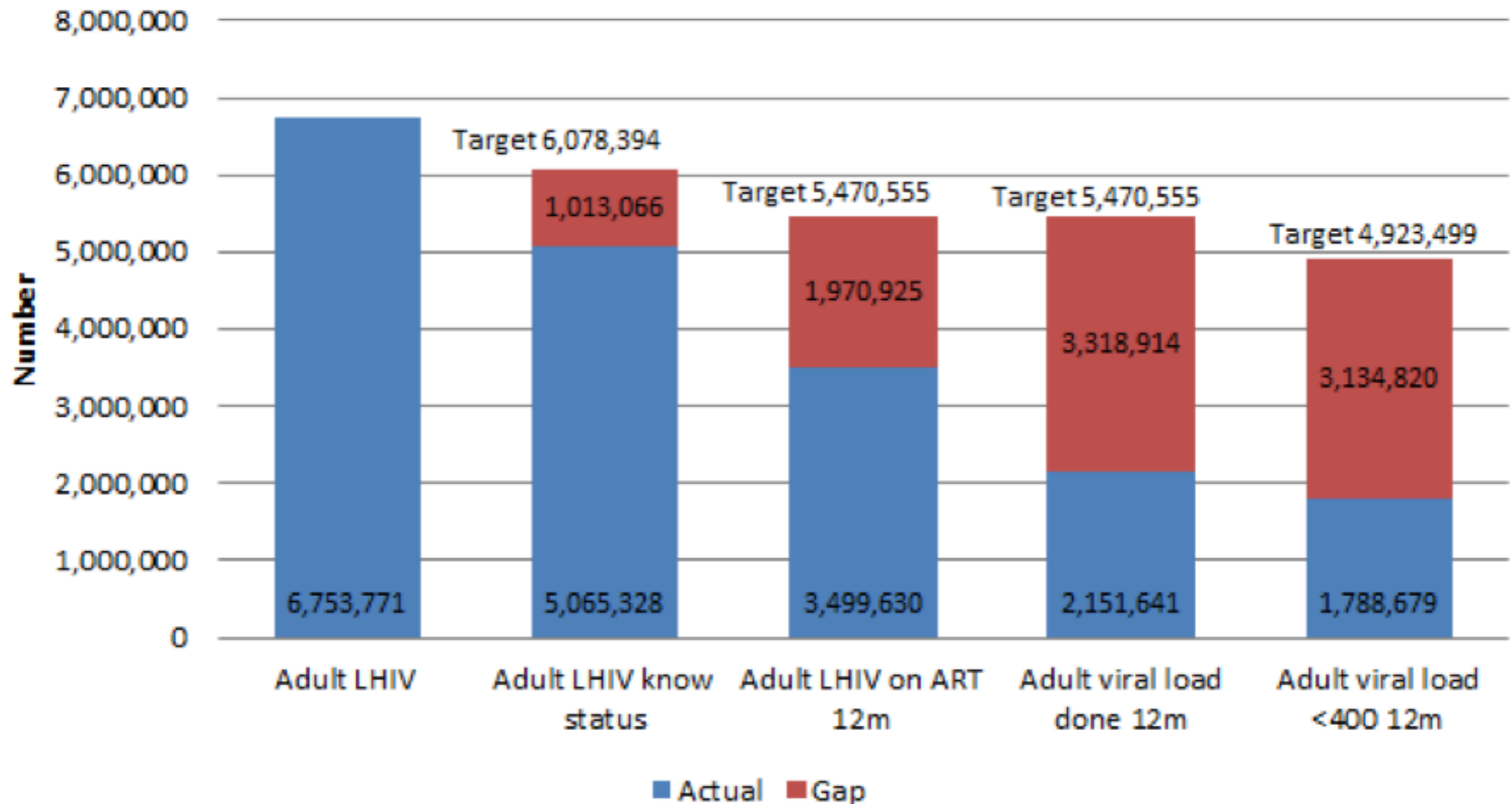
HIV cascade analysis

90-90-90 Adult cascade for : Oct-Dec 2016: % achieved



HIV cascade analysis

90-90-90 Adult cascade for : Oct-Dec 2016



Sub-National Reports

Background

- Certain types of data analysis are best done by comparing a grid of charts/tables for different organisation units
- DHIS2 can produce the individual charts, but not replicate them for different organisation units in a grid for comparison

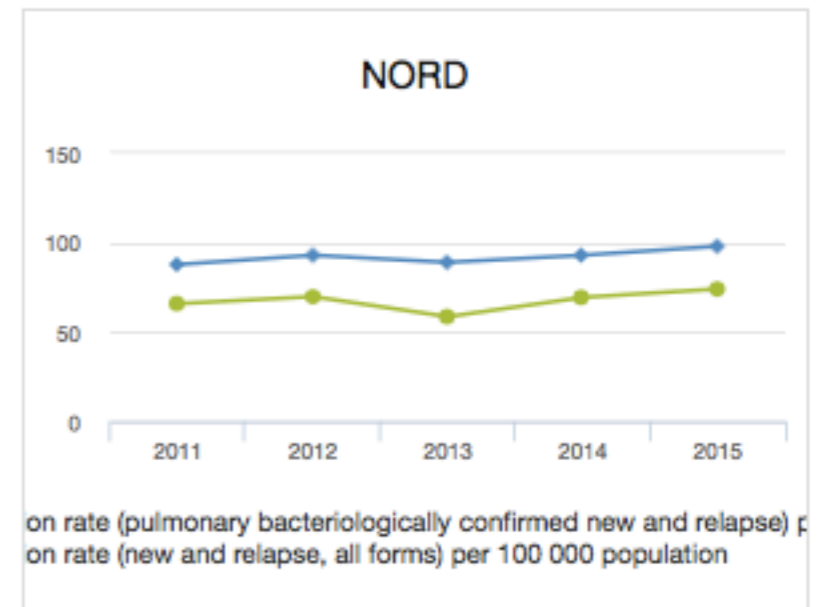
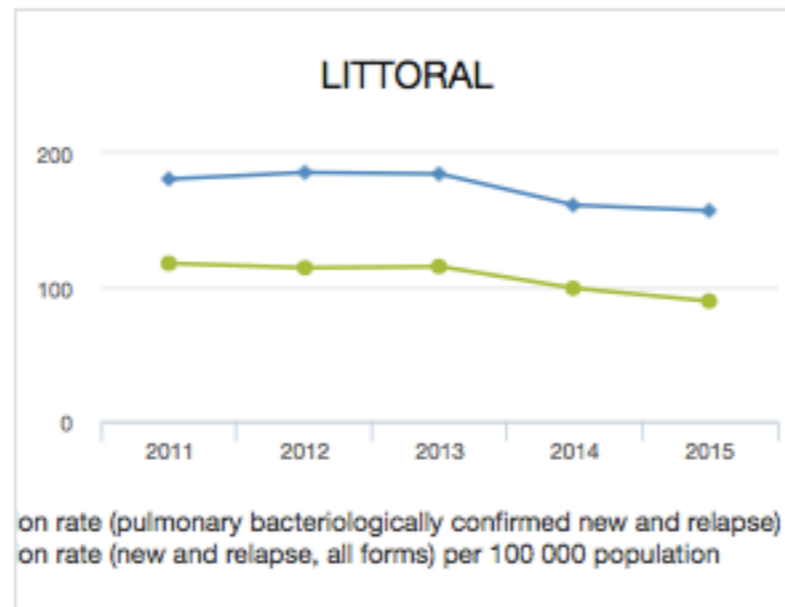
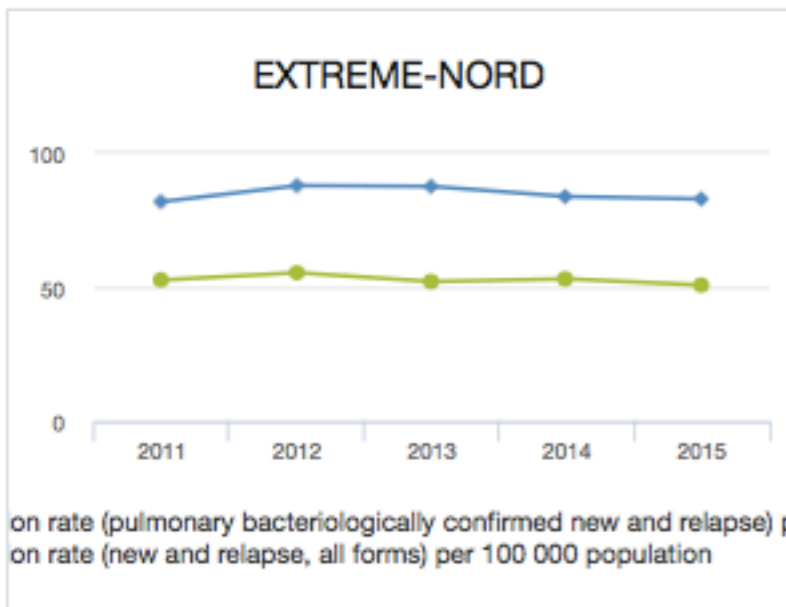
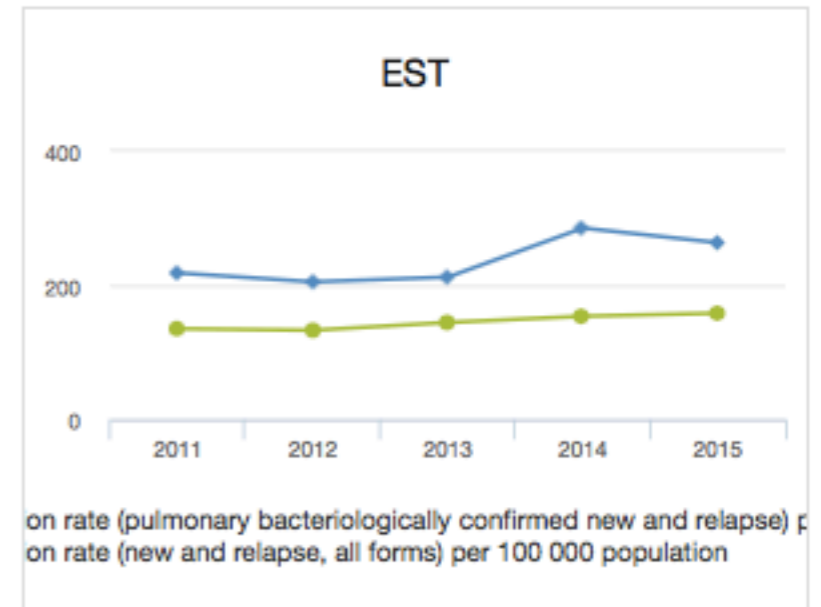
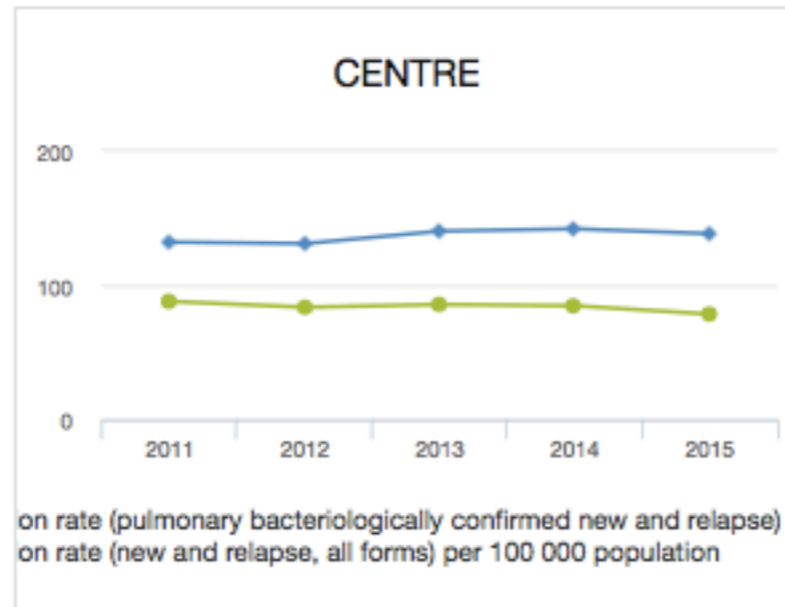
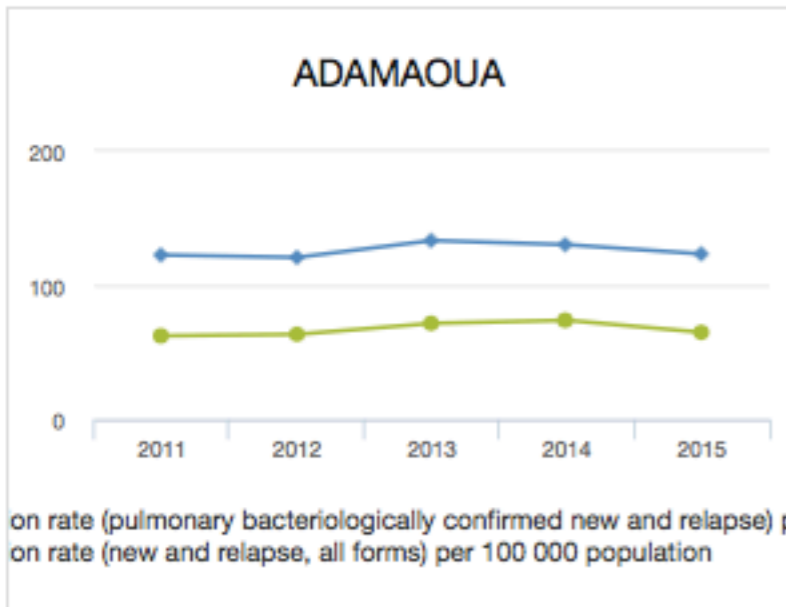
Deliverable

- A DHIS2 app for replicating replicating charts/tables for different organisation units in a grid

FIGURE 4
Provincial and national (graph 100_Indonesia) level time-series of suspect evaluation rate during the period 1990–2011.

Source: Indonesia NTP





- Visualiser
- Plugins

Master Facility List

Background

- DHIS2 has an up-to-date list of organisation units (health facilities)
- The user interface for organisation units is geared towards editing rather than searching/browsing

Deliverable

- A DHIS2 app for searching/browsing organisation units, and proposing changes



Advanced Search



Search all facilities

george

Search facility services

Search services

Facility Info

Facility Name

Facility Name

Facility Code

Facility Code

Administrative Unit

County

Select a county...

Sub County

Showing 1 - 2 of 2 results.

Export Excel

Reset

22949 | George Mudeny Kadima Nasio Trust (Mumias West)

Status: **Operational**

KAKAMEGA COUNTY

MUMIAS WEST Sub-county

ETENJE Ward

Basic primary health care facility

Private Practice - Clinical Officer

MUMIAS WEST Constituency

19425 | Dr George Munene Medical Clinic

Status: **Operational**

NAIROBI COUNTY

STARFHE Sub-county

NAIROBI CENTRAL Ward

Dispensaries and clinic-out patient only

Private Practice - General Practitioner

STARFHE Constituency



Print

22949 | George Mudeny Kadima Nasio Trust (Mumias West)

Type: Basic primary health care facility

Regulatory Body:

Operation status: Operational

Regulation Status: Licensed

Beds: 2

Cots: 0



Owner: Private Practice - Clinical Officer
Category: Private Practice



MORII F : 0792252808

Location

KAKAMEGA COUNTY

MUMIAS WEST SUB-COUNTY

Musanda shopping centre town

Specific directions: Musanda

MUMIAS WEST Constituency

ETENJE WARD

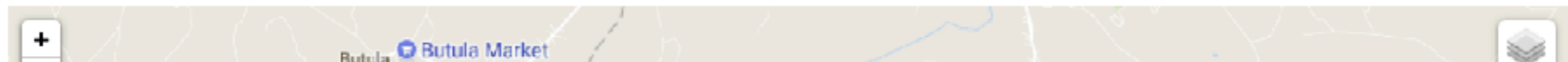
Facility Services

Regulation

Community Health Units

Show facility on map

ETENJE MAP



- Kenya Master Facility List

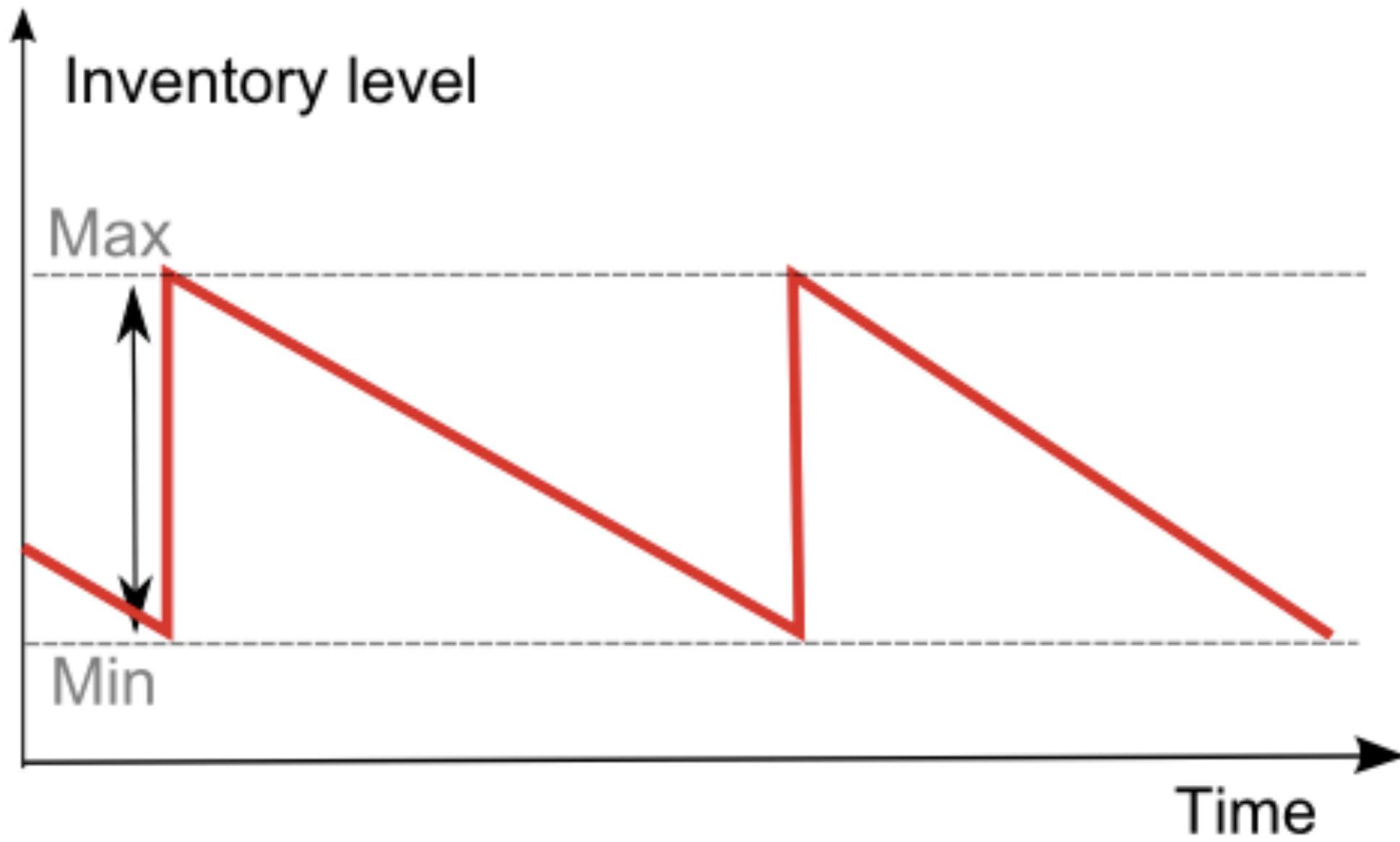
Stock Level Visualisations

Background

- Basic information on commodity stock levels are often collected with DHIS2
- Setting up useful visualisations of this in the built-in visualisation tools can be complicated

Deliverable

- A DHIS2 app (standard and dashboard) for visualising stock level data in an easy-to-use way



- Example data set