

PIP Pharmaceutical Information Portal

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Problem statement

Currently decision makers have to base their decisions more on gut-feeling than on actual factual data. The reasons are that the data needed to help with decision making are scattered, are not easily accessible, are of questionable quality, and there is no system in place to facilitate data analysis.

Proposed solution

To address the problem SURE, in close collaboration with the Ministry of Health (MOH) Pharmacy Division and Resource Center, has envisioned the design of a Data Warehouse based at the central level that will contain Information required by decision makers on all levels. These levels include the Central level (MOH, NMS, JMS, NDA, IPs, donors), districts (DHO, pharmaceutical staff), the health facilities and the community. The Data Warehouse will import data from various sources (in phase I from NMS, JMS, and DHIS2) and, after cleaning and restructuring, be able to present this data through a web-browser in various formats.



Source data

Orders/Deliveries: From NMS/JMS

Finance: Credit line/Vote 116

HMIS: Morbidity, catchment area, patient numbers (through DHIS2)

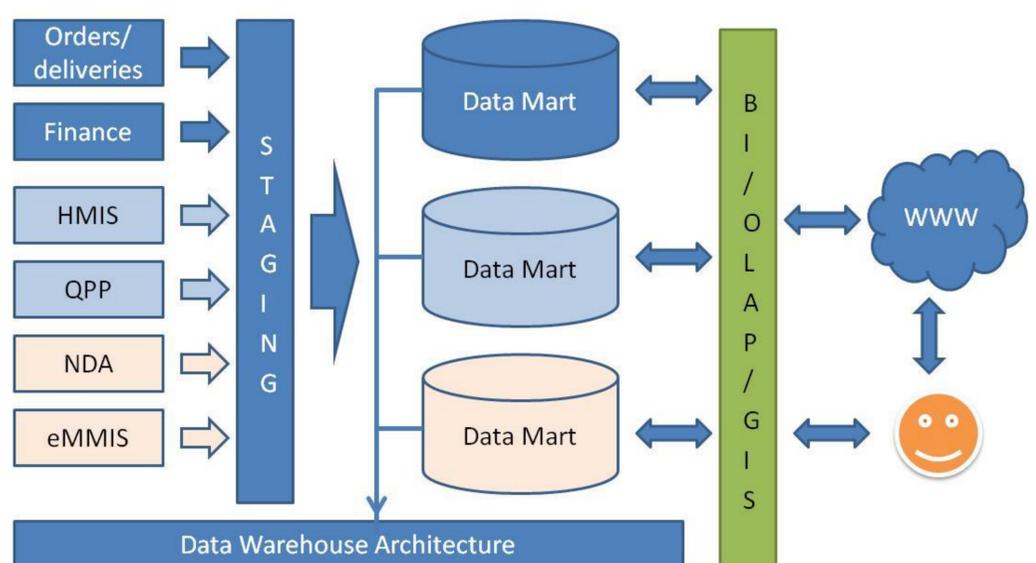
Quantification: Pipeline data

NDA: Imports, quality, accredited facilities

eMMIS: consumption and stock status (hospitals, HCIVs, key drugs)

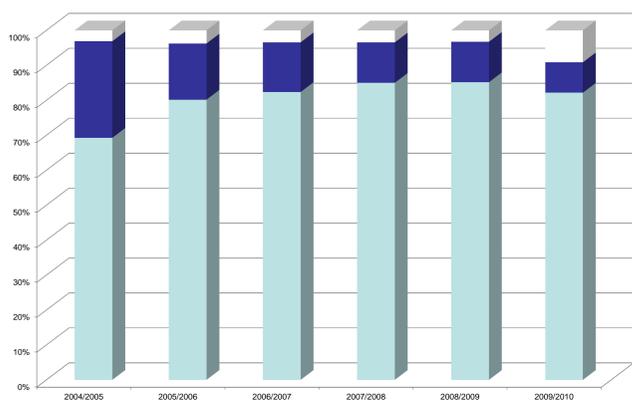
Sentinel sites: logistic information from lower levels

The functional architecture of the PIP



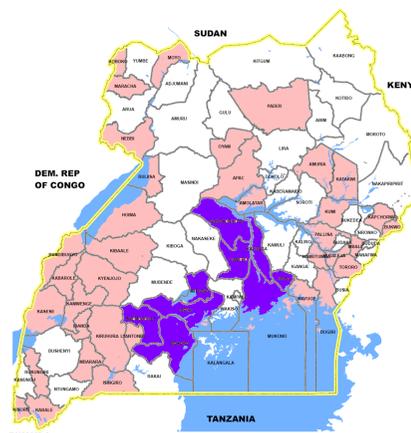
How data is presented

Data will be accessible through the web and presented as routine tabular or graphic reports (on availability and performance), in spatial (GIS) format, in OLAP fashion (which facilitates aggregation and drill-down), or as dashboards in which key performance indicators are presented. These data facilitate regular, and ad-hoc/on-line reporting, in depth analysis and management by exception.

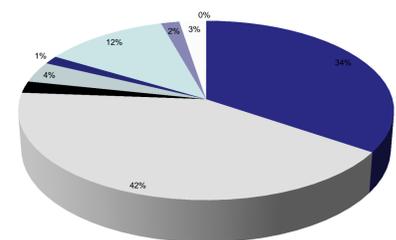


Trend of ordering by VEN

KPI's on district level



Orders by EMHS type



Note: It will be possible to view the detailed underlying data when (as an example) clicking on a district or a performance indicator.

Project set-up

A project team has been established for the development of the Data Warehouse comprising of members of the Ministry of Health Pharmacy Division and Resource Center, CDC (Center for Disease Control), Makerere University Faculty of Technology, and SURE. A steering committee is in place to oversee the progress of the project.

