

Data 4 Health

Using data to understand & improve the health status of municipalities



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Real World Challenges

NATIONAL

Low vaccine coverage rate, floating population leading to repeat measles outbreaks

- APNs Press, Kathmandu



One of the kids suffering from measles in Kathmandu, Nepal.

POSTFILE PHOTO

May 6, 2019

Maternal mortality reduction target hard to meet for Nepal: Officials

24 percent mothers die during childbirth, 19 percent in postnatal period

- APNs Press, Kathmandu



Health officials say medical care has deteriorated after the local governments were provided with the budget.

Post File Photo

Feb 10, 2019

डोल्पा अस्पतालमा औषधि अभाव

समाचार कान्छागढिका

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डोल्पा- दुई हप्तादेखि टाइफाइड र ज्वरोको बिरामीको सङ्ख्या बढेपनि डोल्पा अस्पतालमा औषधि नहुँदा समस्या भएको छ। टाइफाइड जीव गर्नका लागि आवश्यक पर्ने किट (रुइडल पेष्ट रिपोजेन्ट) नहुँदा समस्या उत्पन्न भएको हो। पाँच दिनदेखि यो औषधि अभाव हुँदा अस्पतालमा आएका बिरामीहरू उपचारमा चुनौती थपिएको दा सिजन रावलले बताए।

मौसम परिवर्तनसँगै डोल्पामा बिरामी बढेपनि टाइफाइड फता लगाउने किट (औषधी) नै नहुँदा समस्या थपिएको अनुमानका आधारमा उपचार गर्न बाध्य भएको डाक्टर रावलले बताए। यातायात र हवाई यातायातको सङ्ज पहुँच नभएको डोल्पामा औषधिको आपूर्तिमा दिक्कतसँगै गर्दा बिरामीले निजी औषधि पसलमा उपचार गर्न बाध्य भएका छन्।

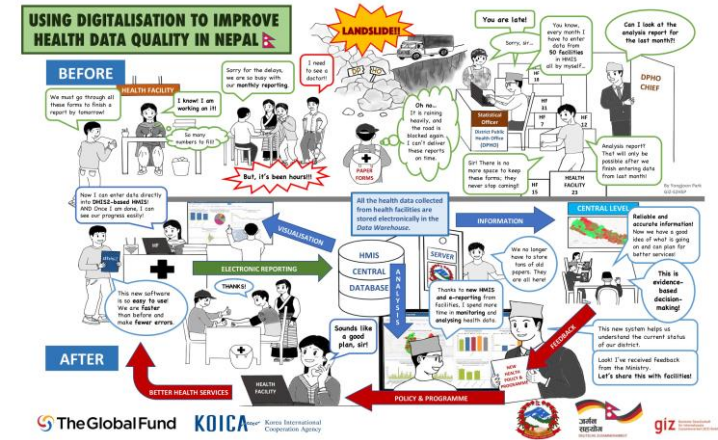
Real World Opportunity

FEDERALISM

- **Locally** elected representatives
- **Local** decision making
- Availability of resources at the **local** level
- **Local** implementation
- **Local** benefits

How can YOU help?

- Help decision makers understand the situation
- Support in moving from anecdotal evidence to REAL evidence
- Improve transparency and accountability mechanisms



The Evidence

Two sources of data available for Everest-Hack

Health facility survey

- Survey of all health facilities in 3 municipalities (Madhyapur Thimi Municipality, Nepalgunj Sub-Metropolitan city, and Godawari Municipality)
- Done in 2017
- Various aspects of health service availability and quality collected
- GIS Data available (Health Facility locations)

Health Management Information System (HMIS)

- Government system for **routine** data collection
- Every facility is required to report each month
- Standard data sets
- In use since 1990s

Health Facility Survey

Health Facility Survey

Assess the availability of
basic services in health
facilities

Assess the preparedness
of health facilities to
provide quality services

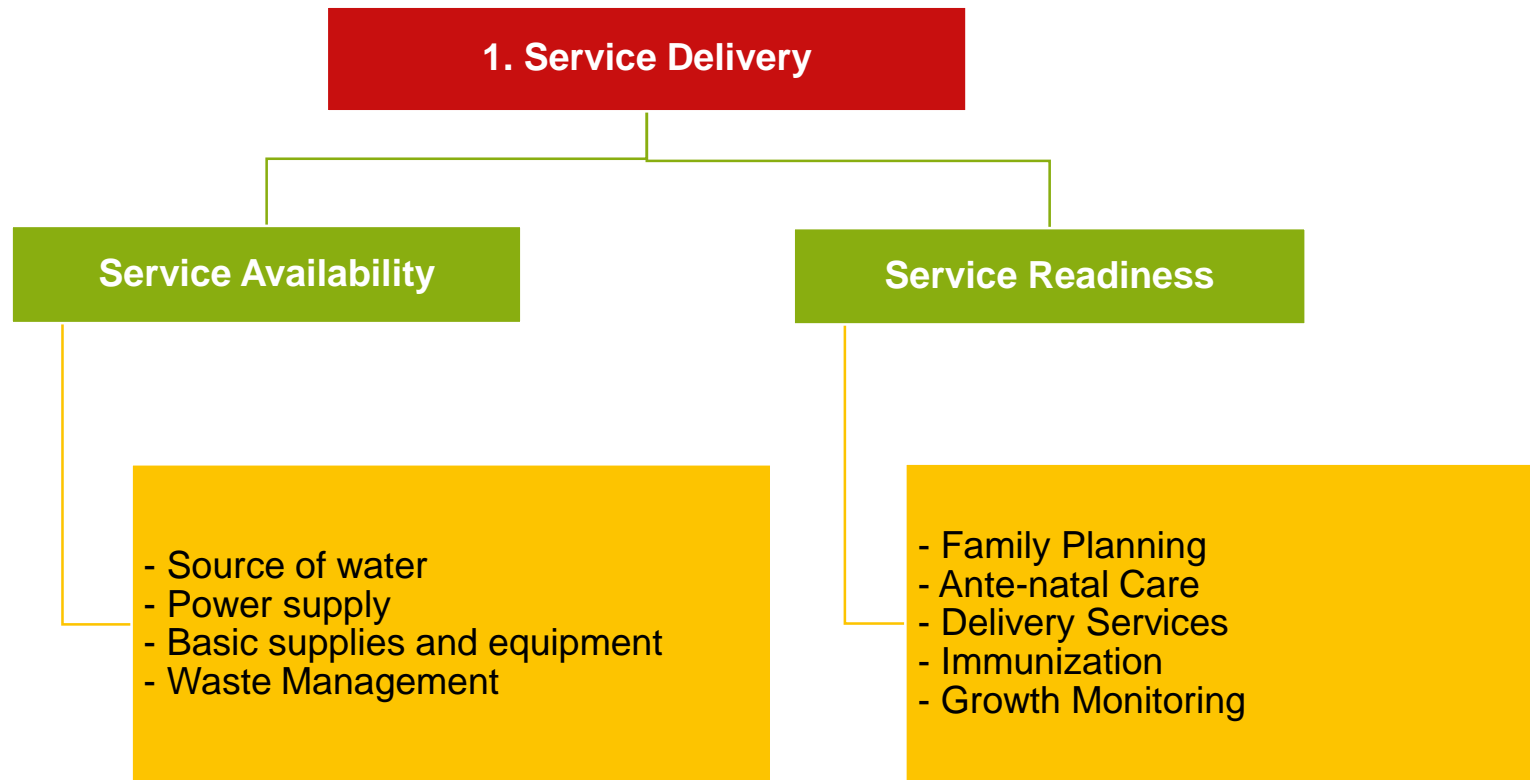
Provide baseline
assessment for tracking
future progress

Identify gaps in support
services and process
used to provide health
service that may limit the
ability of facilities to
provide quality service

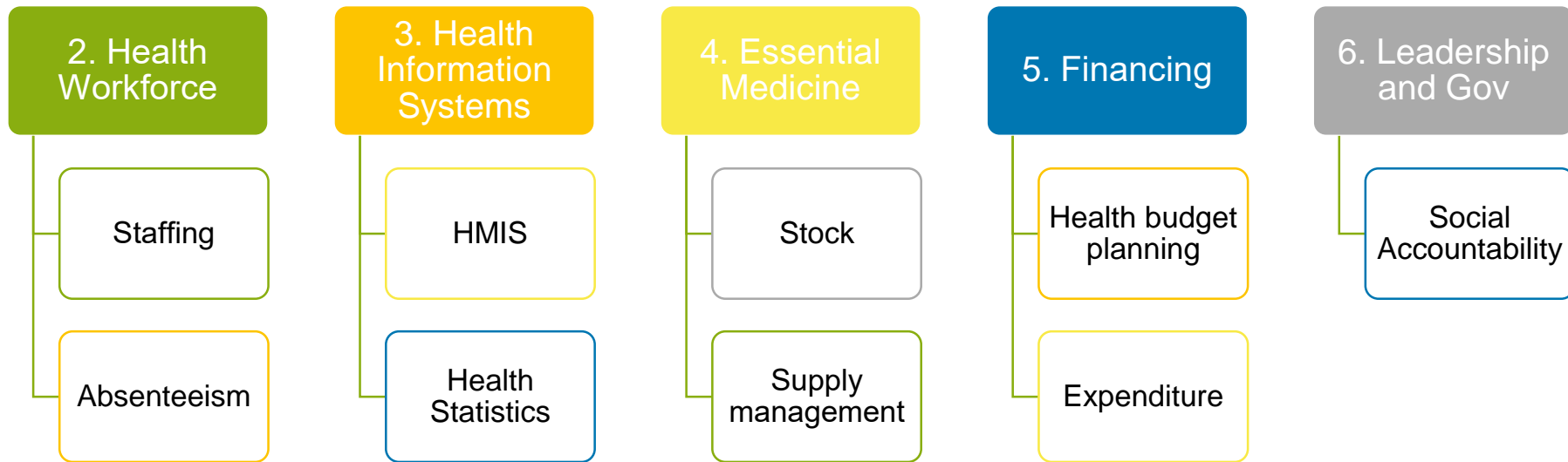
Provide a comprehensive
body of information on the
performance of health
facilities (client
satisfaction, operation and
management)

To map the existing public
and private health
institutions, in three
municipalities

Health Facility Survey



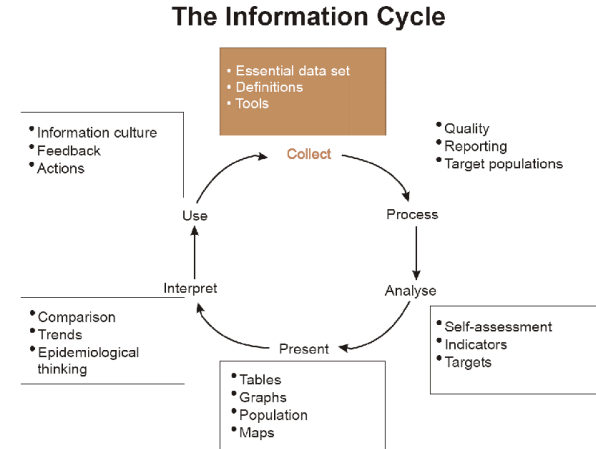
Health Facility Survey



Health Management Information System (HMIS)

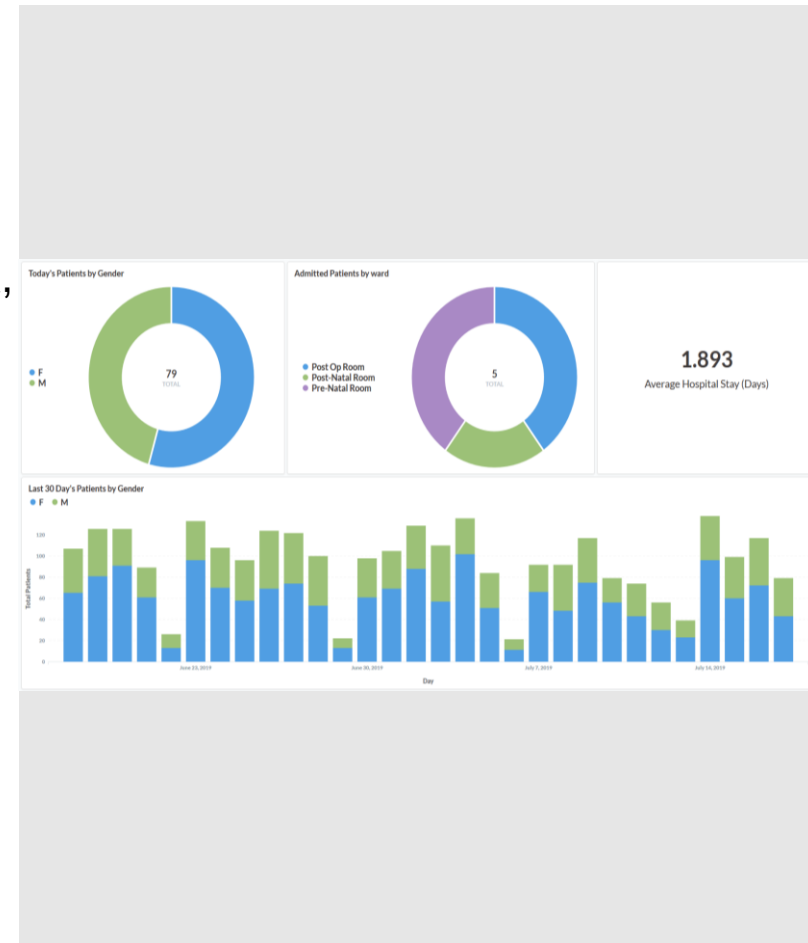
HMIS Data

- More than 3000 data items collected from every health facility
- Related data items organized into datasets (forms)
- Aggregated numerical data of health service delivery
- Analyzed periodically to calculate the various indicators
 - Percentage of children aged 9-11 months immunized with measles/rubella 1
 - Percentage of institutional deliveries
- Collected on monthly basis



What we think you can work on

- A comparison (HMIS vs. Survey)
- Use the two data sources (or more! – census data, global burden of disease data etc) for deeper insights!
- Advanced methods of visualization key of information
- Provide decision makers at municipalities a tool to understand their health situation better!



The Data

- Health Facility Survey
 - Survey questions and their relevance to the health system
 - Answers corresponding to survey questions (Excel)
 - 408 Rows (corresponds to each health facility)
 - 1439 Columns (corresponds to each question)
- HMIS
 - Selected indicators (Immunization, Nutrition and Safe Motherhood program)
 - Available in JSON format
 - Data for last two fiscal years (shrawan-ashad)
 - Contains the data of 3 municipalities (Madhyapur Thimi, Godawari and Nepalgunj)

Download the data!



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