

Swiss TPH



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Institut Tropical et de Santé Publique Suisse

Implementation of an Insurance Management Information System (IMIS) for the National Health Insurance Nepal

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Background

- Under the leadership of MoHP, Nepal is quickly advancing plans for implementing a National Health Insurance (NHI)
- Cornerstones of the NHI were developed in the recent year with contributions of various stakeholders
- The MoHP decided to use a modern Insurance Management Information System (IMIS) for the NHI, originally developed with SDC funding for Tanzania



Mission background

- Swiss TPH, in partnership with Micro Insurance Academy (MIA), MEH Consultants and supported by DEPROSC were contracted to support IMIS implementation
- For adjusting software to NHI needs, remaining open issues on structure, benefit package and processes of NHI approach need to be defined
- This mission served that purpose



Mission approach

- Review of the relevant background and planning documents prepared so far
- Meeting with key stakeholders for clarification
- Visits to Kailali and Baglung districts for verifications “on the ground”
- Mission worked in close collaboration with MoHP and supported by GIZ

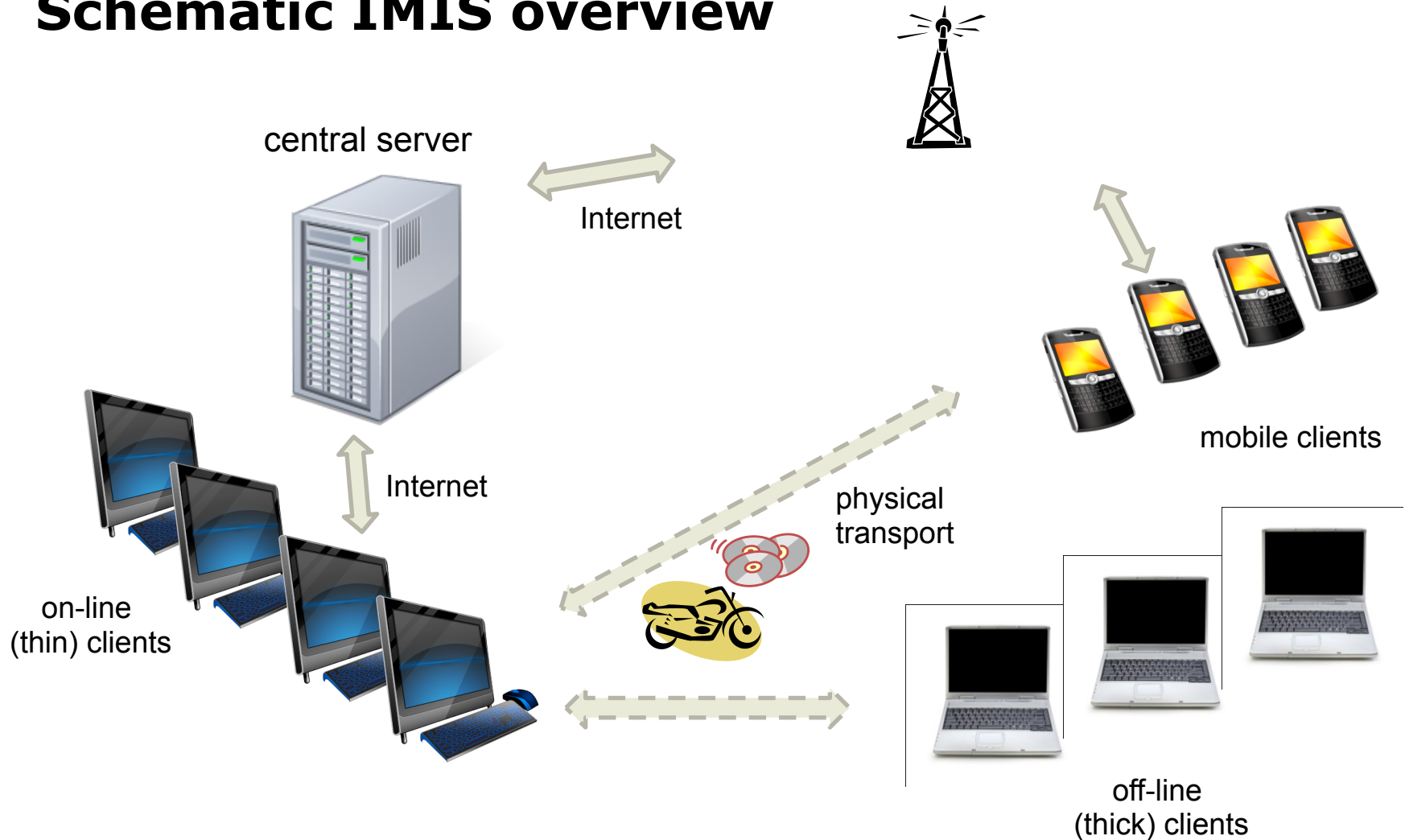
GENERAL FEATURES OF THE IT SYSTEM: IMIS



IMIS overview

- Designed for national health insurance schemes
- Highly flexible in terms of products, provider payment mechanisms etc
- Database on central server
- Manages members and claims; no accounting software
- Can work online and offline but requires regular access to server
- Integrates mobile phones (smartphones)
- Designed to also function in locations without or with unstable connectivity
- Can connect all VDCs and health providers to the same system

Schematic IMIS overview



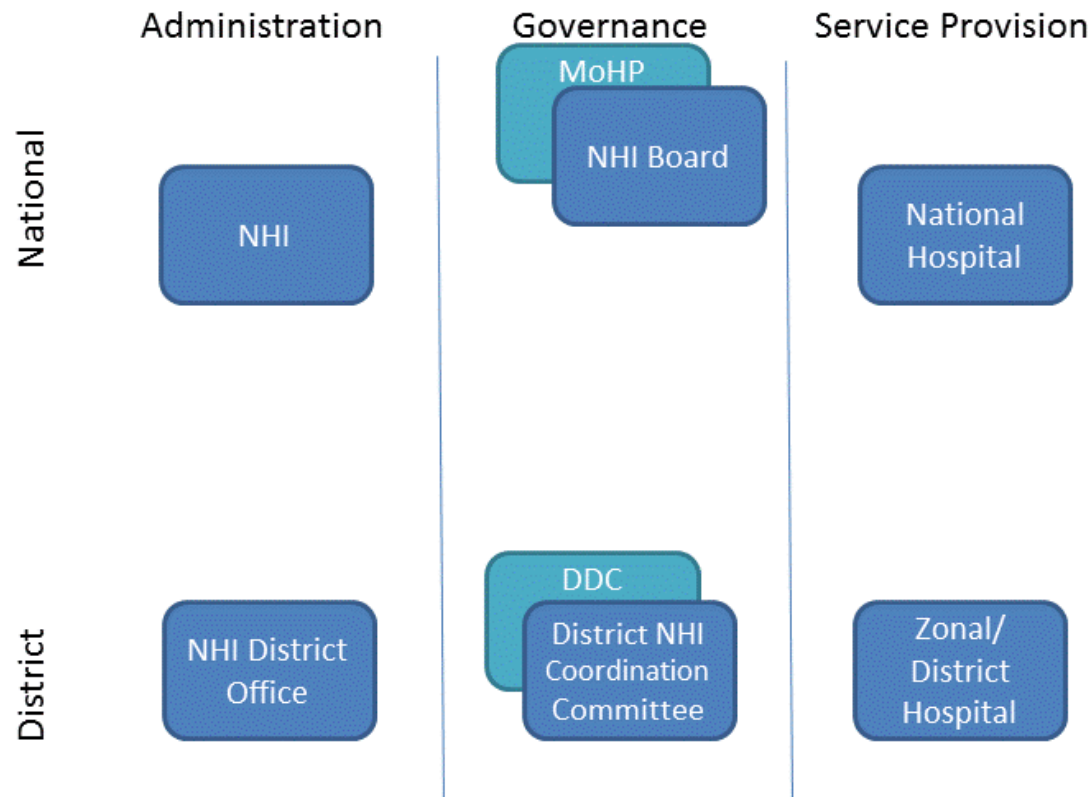
NHI STRUCTURE



The “given cornerstones”

- NHI is a national insurance system, with fund pooling at national level
- NHI runs district offices for local administrative capacities
- Close coordination with existing district structures desired
- Family based insurance scheme
- The poor are to be subsidized, based on an identification approach carried out externally to NHI (by Ministry of Poverty Alleviation) – or through interim arrangement

The national and district level





NHI Board

- Steers and supervises the NHI scheme
- Chaired by MoHP, integrates involved Ministries and stakeholders
- Takes policy decisions (benefit package, enrolment of poor, provider relations etc.)
- Coordinates with other Ministries and agencies (e.g. telecom providers for data flows)



NHI District Office

- Executive team of NHI in districts
 - NHIA District Manager
 - NHIA District Accountant
 - Data Entry staff
 - Outreach Officers
- Maintains member register
- Initiates renewals
- Conducts district wide awareness creation
- Maintains link to VDC level
- Enters claims



District Coordination Committee

Task: Coordinating and supporting the NHI implementation in the districts

Composition:

- DDC chairperson- coordinator
- Social sector focal person at DDC- member
- Two persons nominated by coordinator from the municipality or VDC where there are enlisted facilities- member
- In-charge of the health facilities enlisted for health insurance
- Chief district officer or representative- member
- Local development officer- member
- D(P)HO- member
- Two representatives from enrollees/insurees
- Representative nominated by NHI Board / District NHI Manager - member secretary



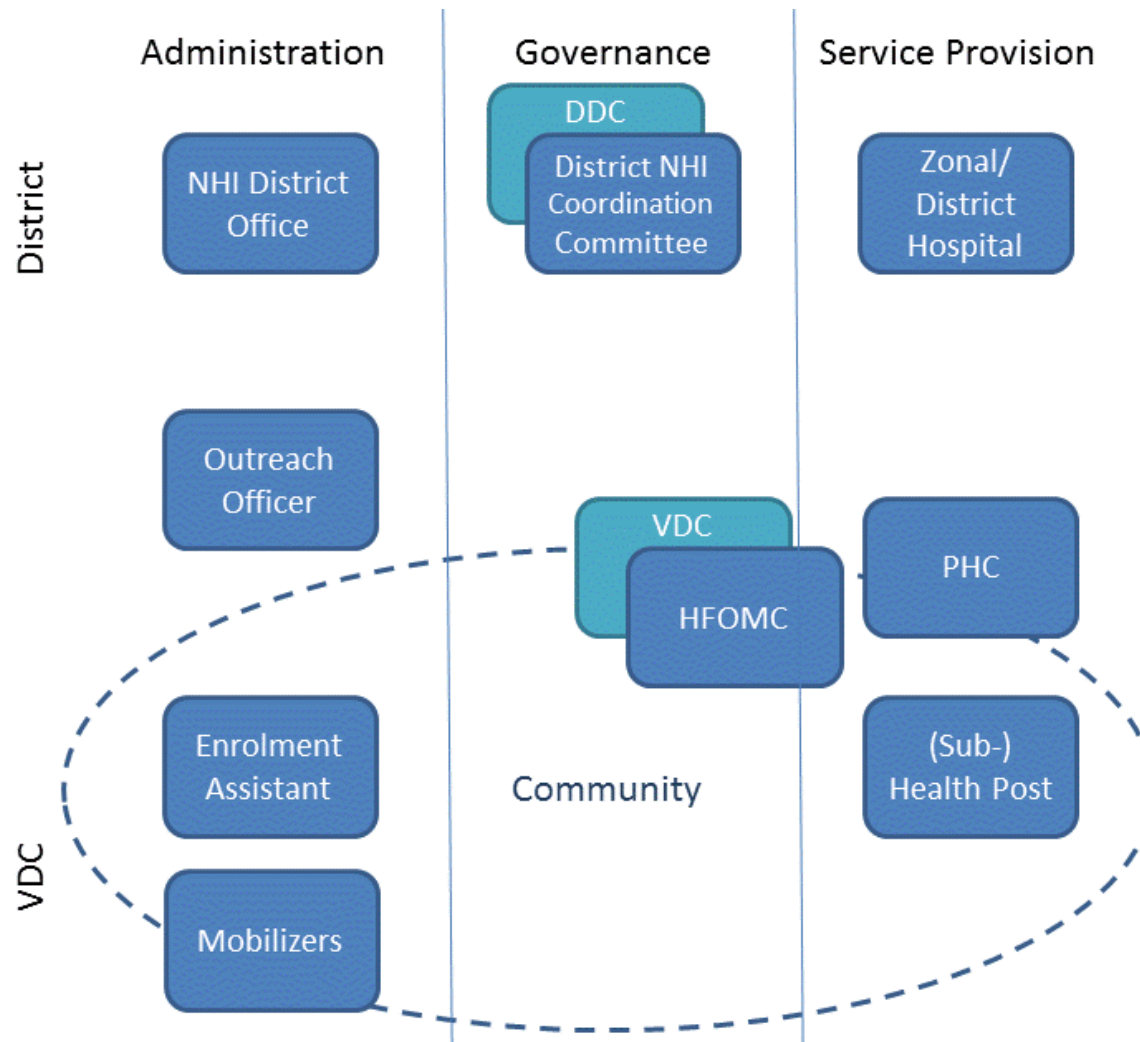
The challenge: Efficient outreach into the informal sector

- Enrolment success in insurance schemes targeting informal sector depends on being present where the people are
- Approach needs to be low cost and replicable throughout the country

Considerations:

- Moving enrolment teams do not give constant presence
- Building enrolment on health facility staff, distracts from providing health services

District and VDC level





Mobilizers

- Inform households about the insurance scheme
- Do not conduct enrolment
- Use of existing structures in the VDC, e.g.:
 - Female Community Health Workers
 - Social Mobilizers
 - Other community level extension staff



Enrolment Assistant

- Community member, transparently nominated by HFOMC
- One Enrolment Assistant per 1000 HHs
- Moves from house to house and can set up fixed enrolment post
- Receives commission of NPR ~ 30 /individual enrolled
- Equipped with smartphone and enrolment documents
- Enrol poor and non-poor



HFOMC

- HFOMC chaired by VDC Secretary (after elections: VDC Chairman)
- Coordinates mobilization
- Coordinates enrolment
- Invites additional attendees for issues related to insurance (e.g. mobilizers, political leaders, social activists)



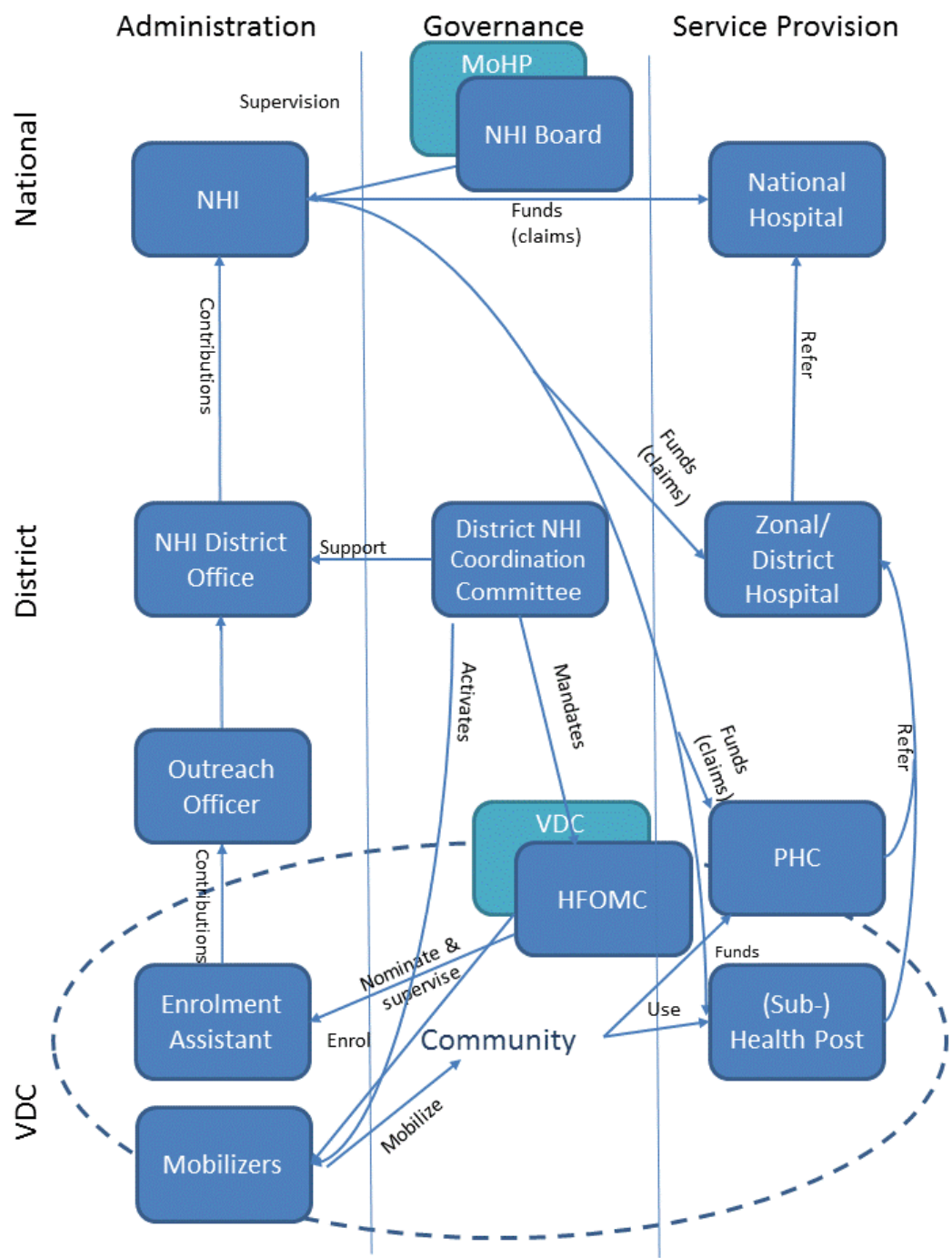
Outreach Officers

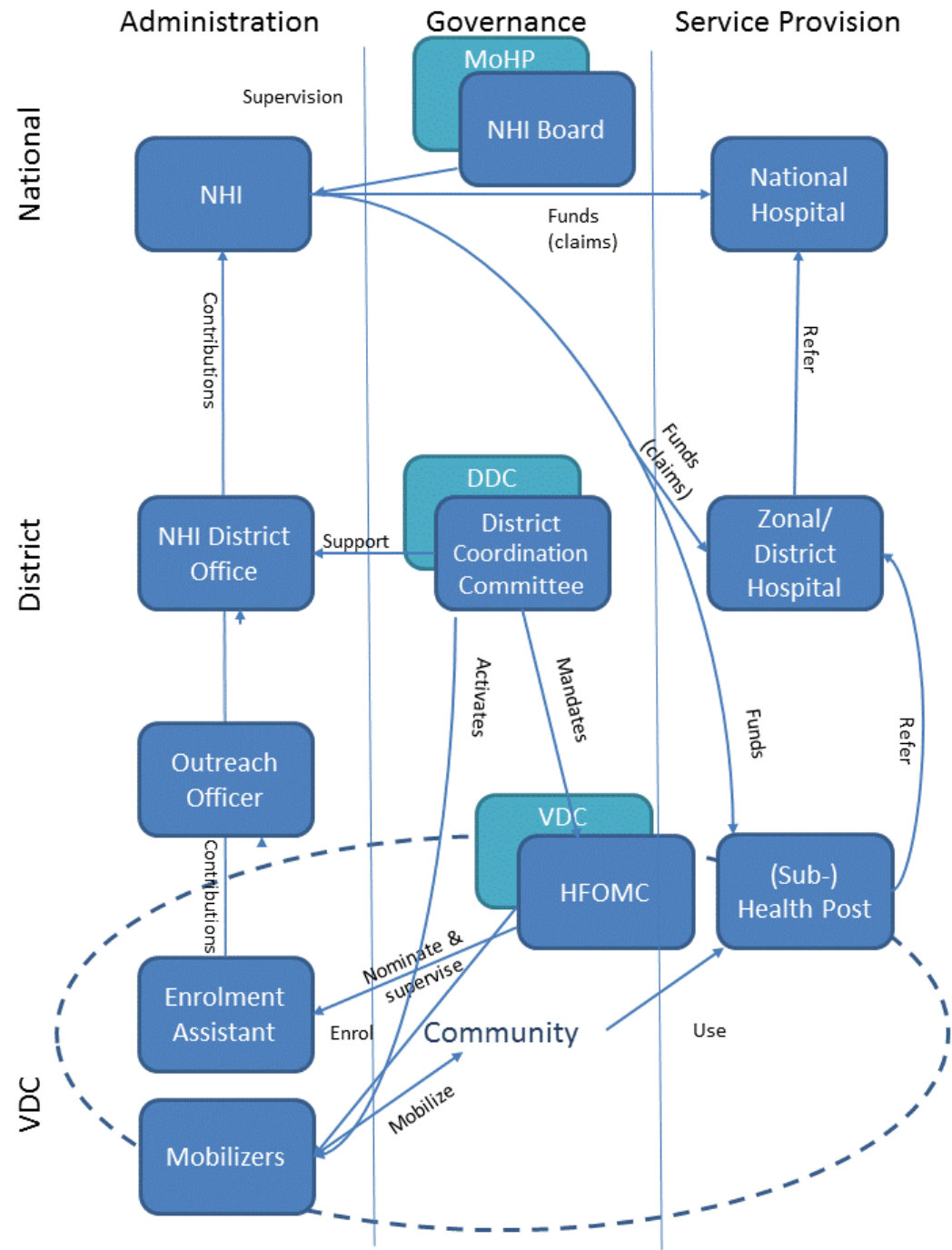
- District NHI employees
- Visit each VDC once in two weeks (motorbike)
- Collect funds and enrolment information from Enrolment Assistants
- Make payments of commission to Enrolment Assistants on the spot
- Maintain contact to health facilities
- Provide on the job counselling to stakeholders to strengthen capacities

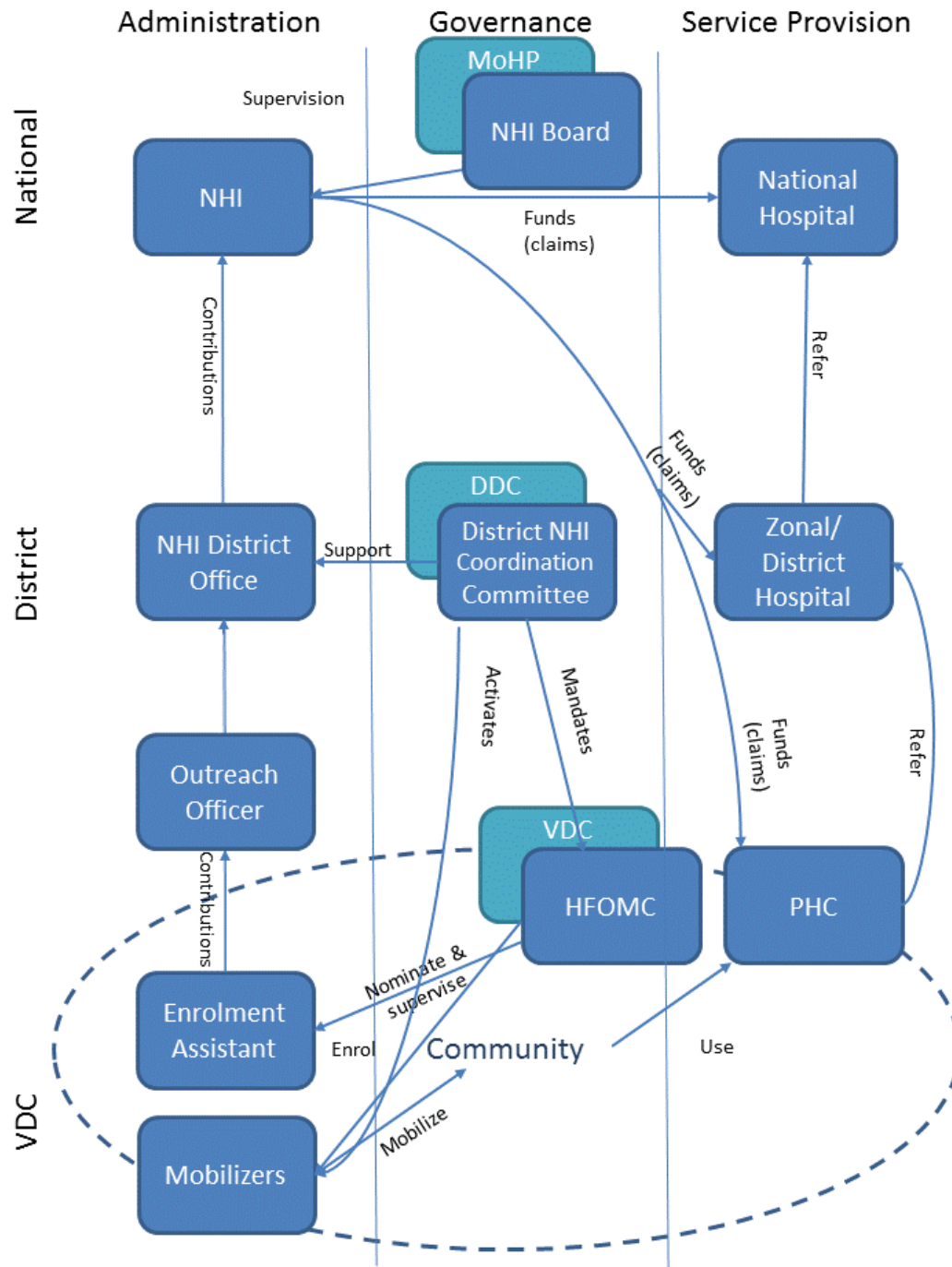


Health Care Providers

- SHP/HP and PHCs should serve as first point of contact
- They refer patients to hospitals when needed
- Hospitals focus on providing care not available at lower levels
- To strengthen lower tiers of the health system, a “Health Facility Improvement Fund” is provided to SHP/HP (relative to local enrolment success)
 - Investment in facility & staff
 - Purchase of unavailable drugs
- PHC is paid on basis of patients treated (flat/patient)
- Hospitals paid based on fee for service agreement







BENEFIT PACKAGE



Benefit package outline

- Detailed calculations were not part of this mission and have been conducted by WHO & GIZ
- As most services at primary level are free, the package focuses on secondary and tertiary care
- All outpatient care and diagnostics are unlimited free for insured members (even where chargeable to NHI)
- Inpatient care & surgeries covered up to NPR 50,000 for family of 5 (family floater)
- To enhance geographically equitable access to hospitals and the referral system, some contribution should be included to referred transport costs to hospitals, paid out at hospital
- A “Health Facility Improvement Fund” strengthens local service provision

(CORE) PROCESSES



Enrolment: VDC level

- Enrolment Assistant equipped with smart phone and enrolment documents
- Receives contribution payment from families (or notes their poor ID number for subsidy)
- Fills enrolment forms for each HH member
- Scans a QR code on the form with phone and takes photo
- Photo sent to central database
- Laminates ID card and hands over *individual* ID cards *on the spot*
- Because local community members are used as Enrolment Assistants, there is no need for ID documents for enrollees



ENROLMENT FORM



District name: _____

ID number: (Pre printed)

Last name: _____

Other names: _____

Date of birth (DD/MM/YY): ___/___/20___ Sex: male female

Head of household? yes no (if yes) # dependants: _____

If dependent please write Head of household ID _____

Village name: _____ Ward name: _____ Mobile phone number: _____

Date of joining CHF: _____ Receipt number: _____

Amount Paid : _____ Third part payer Yes No.

Signature/Fingerprint member

Enrolment Officer code

Signature enrolment officer

THIS FORM MUST BE KEPT BY THE ENROLMENT OFFICER AND HANDED TO THE CHF OFFICER



District name: _____


Last name: _____

Other names: _____

Date of birth (DD/MM/YY): ___/___/20___

Sex: Me ke

Start date: ___/___/20___



ID no (Pre paid)
(Pre printed)

**ALWAYS SHOW THIS CARD WHEN VISITING
A HEALTH FACILITY**

**Need help or to make a complaint?
Problems at health facility?
Please contact your local village
executive officer**

THIS CARD SHOULD BE USED ONLY BY THE OWNER

Renew your membership 2 months before expiry

If you find this card please give it to your village executive officer





Enrolment: from VDC to district level

- Outreach Officer visits VDC (EA) every two weeks
- Collects enrolment forms and contributions
- Provides lists of households due for renewal
- All transactions documented on “Exchange Form”
- Outreach Officer brings all documents to NHI District office
- Cash deposited on bank account (by outreach officer or NHI district accountant)



Provider utilization

- NHI member brings ID card to provider
- Providers from PHC upwards are equipped with mobile phone or computers where load shedding is not a problem
- Provider verifies member by scanning ID card and retrieving photo & membership validity from database
- PHC claims are transacted through mobile phone
- Hospital claims captured on claim forms



Feedback collection

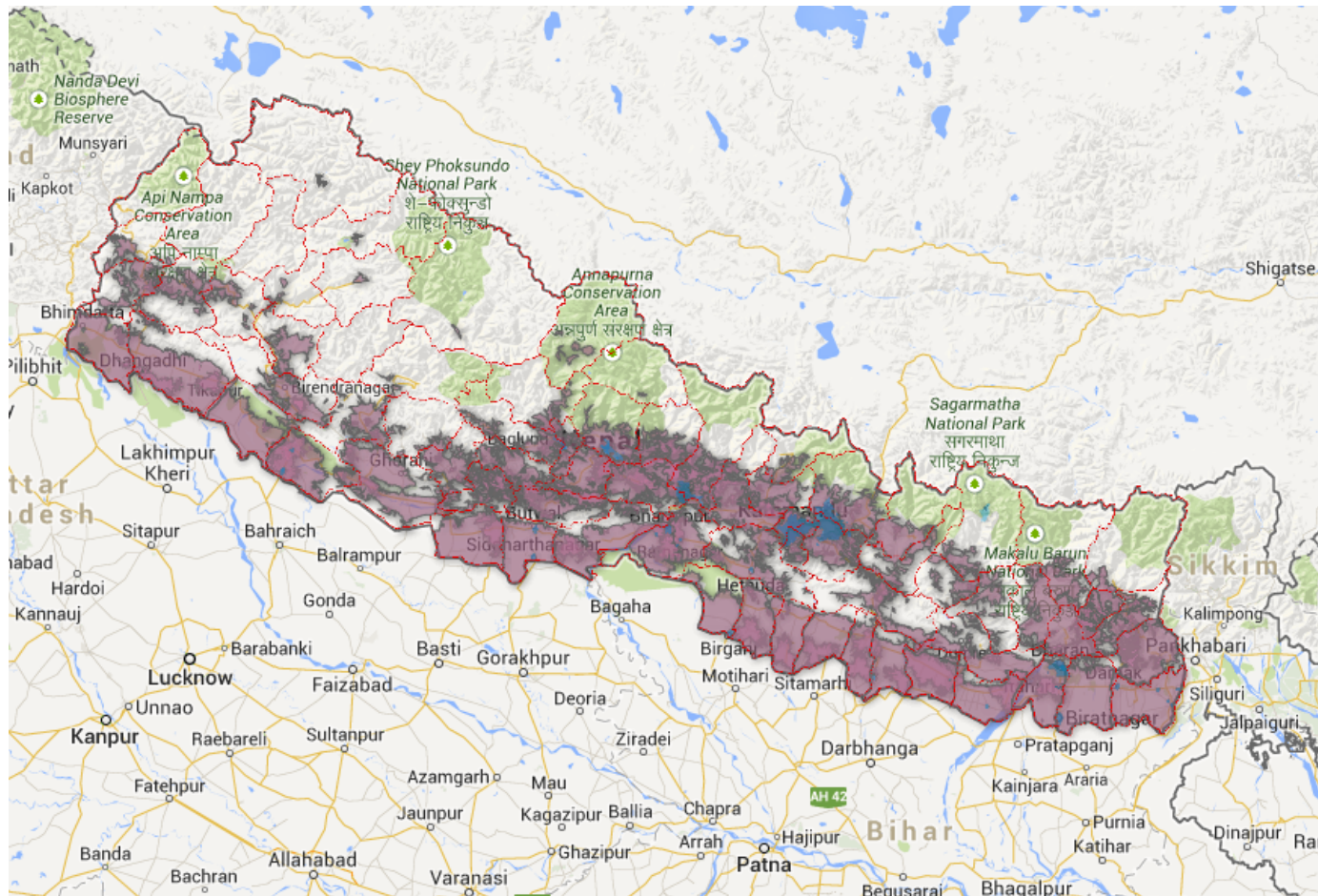
- IT system (IMIS) generates random sample of patients from claims received
- Local Enrolment Assistant receives feedback request on phone
- Visits member and collects feedback
 - Did you use [health facility name] on this [date]?
 - Were drugs prescribed to you?
 - Were drugs provided to you?
 - Were you asked any payment?
 - On a scale from 1 to 5, how satisfied are you with the services received?
- Feedback allows creation of dynamic benchmark

CONNECTIVITY

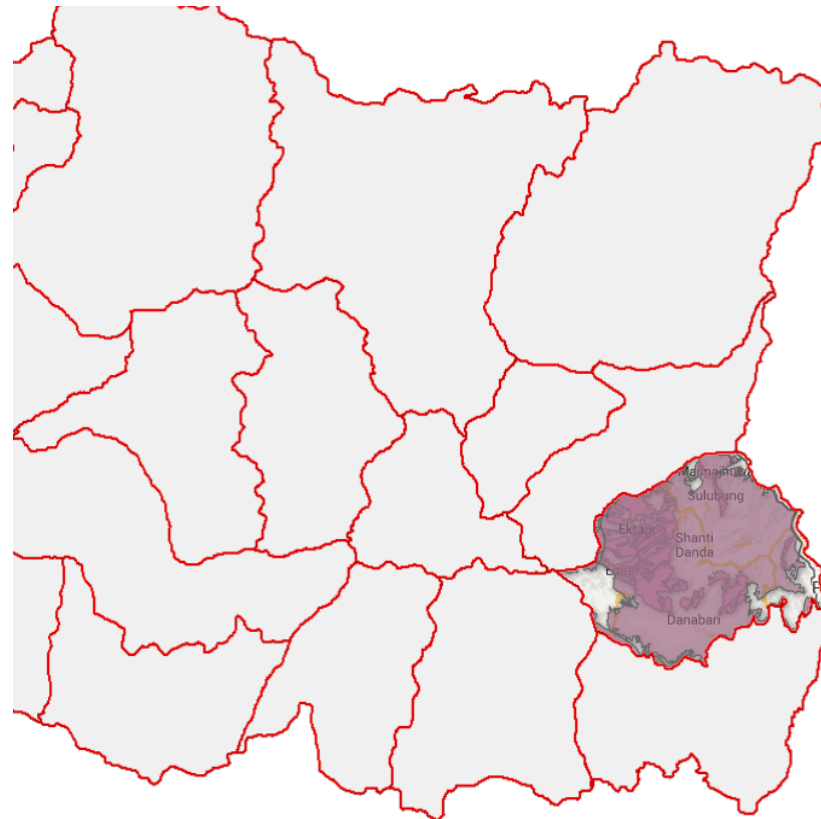


- IMIS can work online and offline
- Online (internet or mobile data transfer) enhances ease of use
- Connectivity is however still a problem in different parts of Nepal
- Coverage is expected to expand further though

NCELL data coverage Nepal

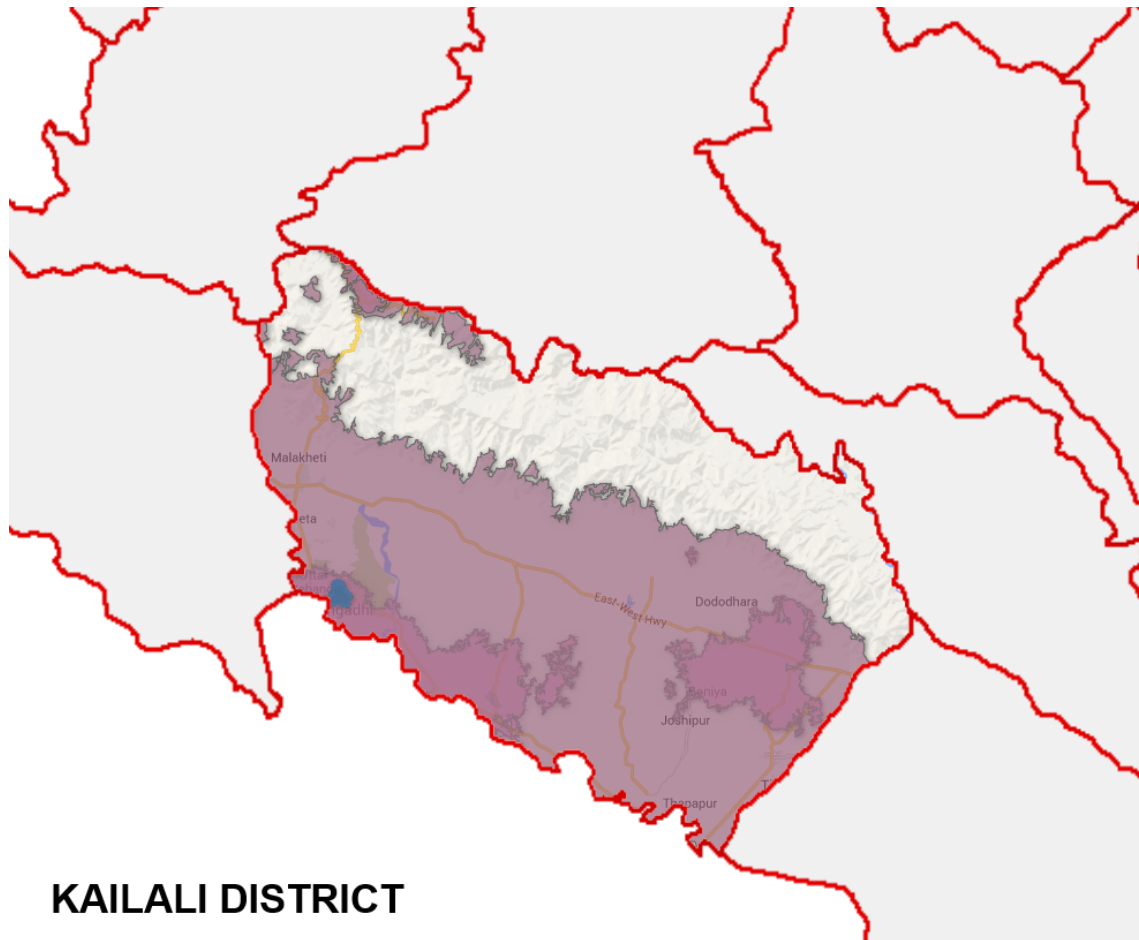


NCELL data coverage Ilam



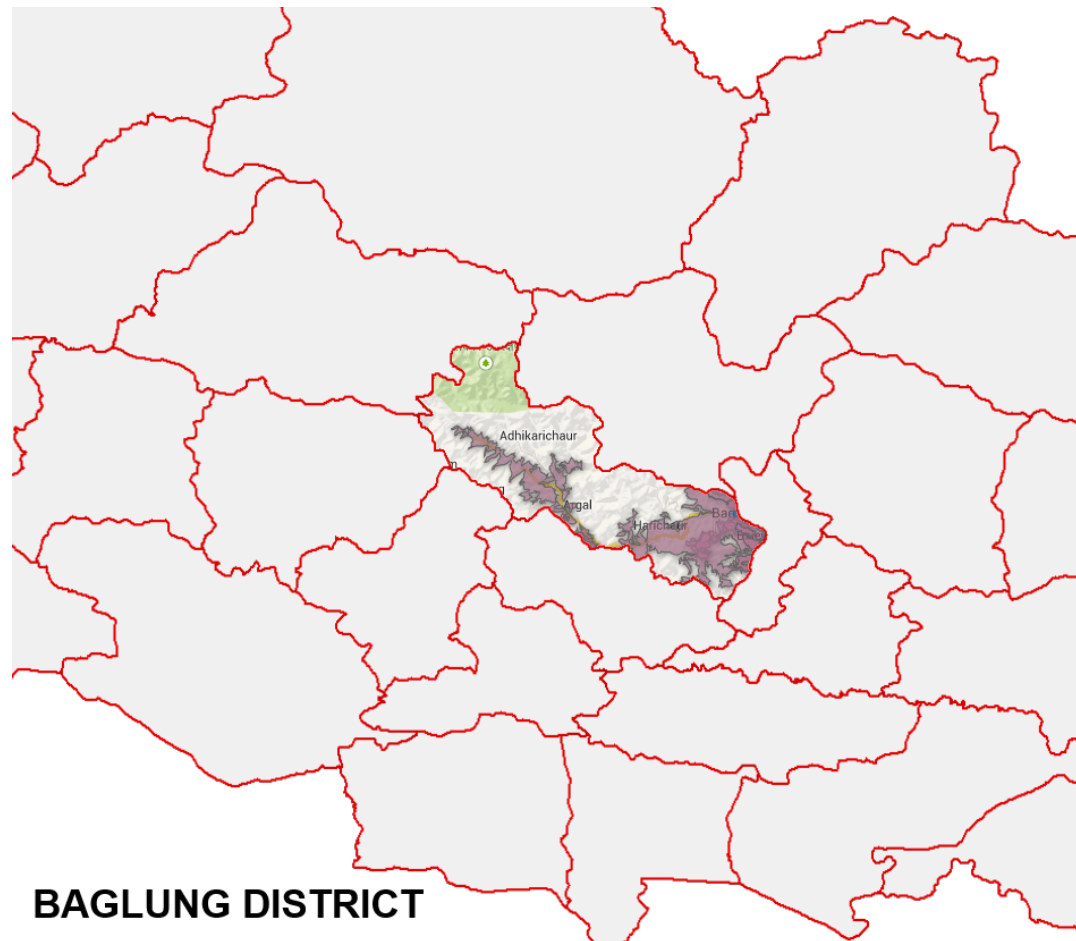
ILAM DISTRICT

NCELL data coverage Kailali



KAILALI DISTRICT

NCELL data coverage Baglung





System functionality without connectivity

- IMIS works online and offline, with IT on a paper document backbone
- For offline data utilization, data can be transferred physically, mobile phones function as local computer and database
- Enrolment data (photos) are collected by Outreach Officers and uploaded to central server
- Health facilities receive copy of the members in their catchment area once a month
- For data entry (member enrolment and claims) offline modules exist, which can be synchronized when connectivity is available

ADMIN COSTS CALCULATIONS



Admin estimation assumptions

- Initial rough estimation of admin costs, based on following assumptions:
- Focus only on admin costs in districts
- Includes costs for
 - Depreciation of assets (motorbikes, phones, computers, etc)
 - HR costs
 - Travel costs
 - Forms and pouches
 - Commission to Enrolment Assistants
 - Office costs
 - IEC

Admin cost estimation results

Kailali:

10% of population covered: ~32%

40% of population covered: ~18%

Baglung:

10% of population covered: ~41%

40% of population covered: ~16%

NEXT STEPS



Key steps

- Recommendation of final structure and processes in mission report
- Before IMIS can be adapted to the Nepali context, final structure and processes need to be approved by MoHP
- Translation of these parameters into an IT modification document
- IT modification by NHI IT team
- Server specifications, tender (or rent) of a server
- Finalization of benefit package and provider pricelists; MoUs



Key steps (contd.)

- Print of forms, purchase of lamination pouches, purchase of equipment (motorbikes, phones, etc)
- Development of training material
- Development and production of IEC material
- Training of trainers
- Institutionalizing district coordination committees
- Test run of IMIS on central server
- Hire of remaining staff
- Identification of enrolment assistants
- Training of trainees at various levels (NHI District Offices, DCC, HFOMC, Enrolment Assistants)

Thank you for your attention

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<http://www.swisstph.ch/health-economics-and-financing.html>