

eHealth Initiatives in Nepal

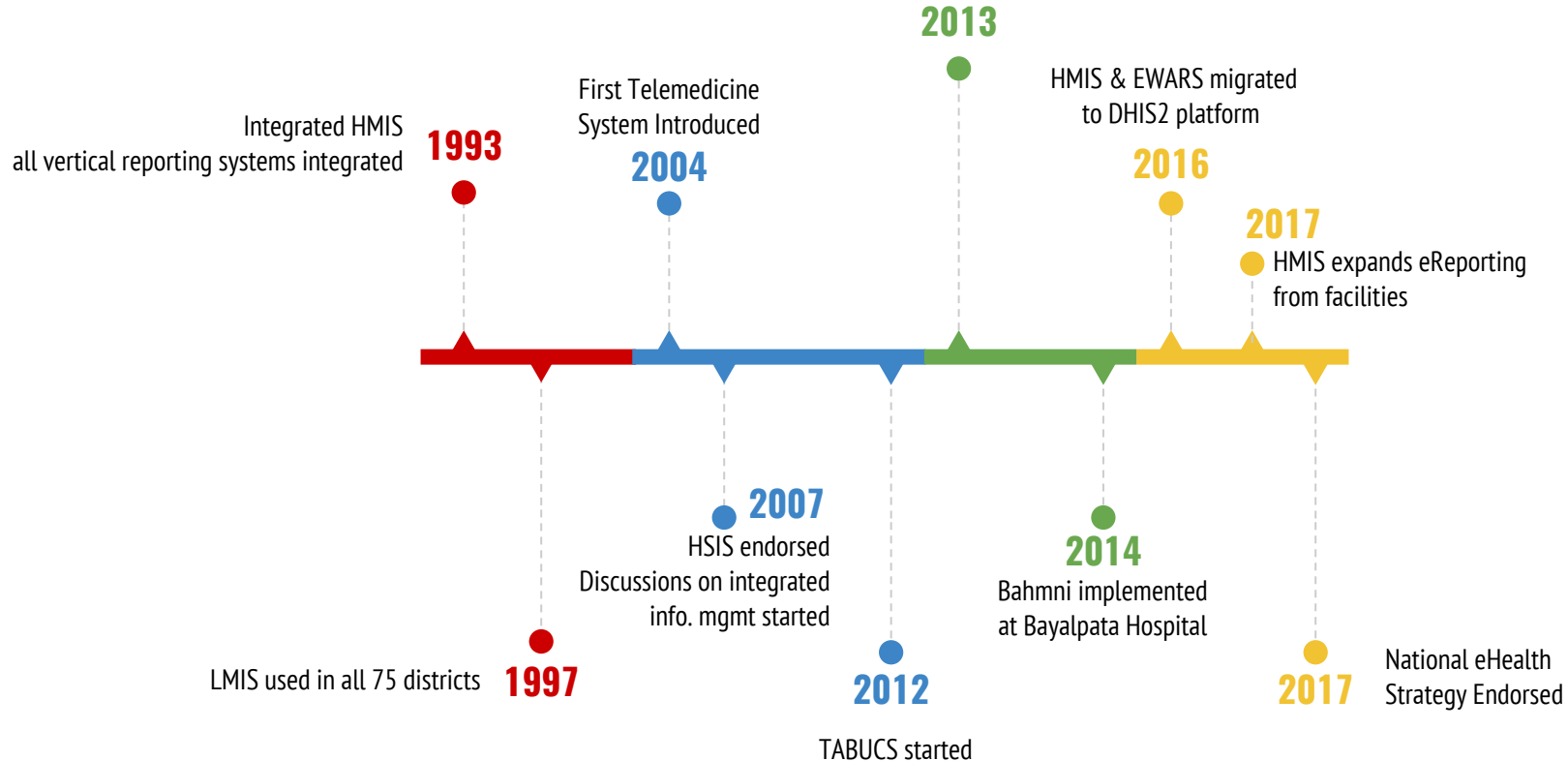


नेपाल सरकार
स्वास्थ्य मन्त्रालय

eHealth
Convergence & Planning Workshop
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Kathmandu, Nepal

eHealth Timeline

*HF wise online entry in HMIS
Immunization Recording System





ROUTINE INFORMATION SYSTEMS



- DHIS-2 based **integrated** Health Management Information System
 - 6000+ facilities
 - 25 Million+ data points captured every year
 - Mix of digital and paper based recording & reporting
 - e-Reporting from facilities being rolled out - 400+ facilities already reporting online
- Early Warning and Reporting System (EWARS)
 - Built on DHIS2
 - Surveillance system for 6 communicable diseases
 - Hospital-based surveillance system
 - Functional in 63 hospitals/sentinel sites
 - Weekly reporting of number of cases and deaths of 6 priority diseases/syndromes: Malaria, Kala-azar, Dengue, Acute Gastroenteritis (AGE), Cholera and Severe Acute Respiratory Infection (SARI), and other epidemic potential diseases/syndromes.



ROUTINE INFORMATION SYSTEMS



- Maternal and Perinatal Death Surveillance and Response (MPDSR) System
 - On-line reporting from hospitals and DHOs/DPHOs
 - Community death reporting from 6 districts and hospital reporting from 65 hospitals
 - Use of mobile technology for 'notifying deaths' by FCHVs - in progress
- Insurance Management Information System (IMIS)
 - Complete management of insurance processes
 - Enrolment
 - Claims management & processing
 - Claim Review
 - Being used by **500+** enrolment assistants, and **50+** health facilities
 - Hosted at the Government Integrated Data Center





MANAGEMENT INFORMATION SYSTEMS

- Logistics Management Information System
 - Full supply chain MIS for MoH
 - Mix of digital and paper based recording & reporting
 - Facilities record & report on paper
 - Districts use online-LMIS - real time stock monitoring
 - Facility based digital system being developed
 - Stock reporting every trimester
- TABUCS (Transaction Accounting and Budget Control System)
 - Comprehensive financial management system of MoH
 - Deployed to **312** cost-centers throughout the country, **296** cost-centers reporting



MANAGEMENT INFORMATION SYSTEMS



- Health Infrastructure Information System (HIIS)
 - Complete infrastructural details of public health facilities
 - Land details - including ownership
 - Building details
 - Repair Needs
 - GPS data available
- Human Resource Development Information System (HuRDIS)
 - Digital records of Health Personnel in Public Sector
 - Institution wise personnel distribution
 - Transfer, Deputation services



TELEMEDICINE



- Earliest use of technology in the health sector
 - 2004 - HealthNet Nepal, in partnership with Private Sector + Apollo Hospital (India)
 - 2006 - Nepal Wireless - connecting few rural clinics to Pokhara

- MoH **“Hello Health”**
 - Initiated in 2010
 - Connected 16 district hospital to Patan Hospital in the capital
 - Dial in facilities to support service providers



OTHER DIGITAL INTERVENTIONS



- Digital Data Collection
 - National Level Surveys
 - NDHS 2016
 - National Health Facility Survey 2015
 - Open DataKit / Kobo Toolbox
 - HIIS
 - Post Earthquake Health Infrastructure Damage Assessment
- Civil Registration and Vital Statistics (CRVS)
 - Birth Registration System
 - Death Registration System
- National ID





SERVICE DELIVERY

- HOSPITALS
 - Bahmni
 - Open source, based on OpenMRS
 - Electronic Medical Records
 - Inventory Management
 - Billing
 - MiDas
 - Custom Built
 - Clinical Management, Lab Management
 - Pharmacy Management, Billing





SERVICE DELIVERY

- PRIMARY CARE
 - Vial-to-Child
 - Immunization Recording System
 - Mobile application - recording done @ point of vaccination
 - Unique IDs for each child
 - Electronic Immunization Recording System (EIRS)
 - PC based application
 - Recording done @ health facility
 - Unique IDs for each child





SERVICE DELIVERY

- PRIMARY CARE
 - eTB Register
 - Recently established - 2016
 - Tracks: Individual patient records, logistics
 - NCASC - Antiretroviral Dispensing Tool (ADT)
 - Tracks
 - Drug dispensing
 - Individual patient records including Viral Load
 - Used at **select** ART sites



SERVICE DELIVERY



- Mobile phone based reminders
 - Low cost solution - use of simple cell phones
 - Supporting community-based public health interventions
 - Notifications for public health interventions
 - Maternal Health: antenatal/postnatal care reminders
 - Child Health: immunization reminders
 - Interoperability between technologies - SMS, USSD, GPRS/3G



AWARENESS



- Mero Barsha - (*My Year*)
 - Awareness program for healthy lifestyles
 - Use of social media - Facebook, Twitter etc
 - Mass messaging campaigns



- Hello Sarkar (*Hello Government*)
 - Grievance management system of GoN
 - Managed by Office of the Prime Minister and Council of Ministers
 - Use of social media - Facebook, Twitter etc



HEALTH PROMOTION / AWARENESS

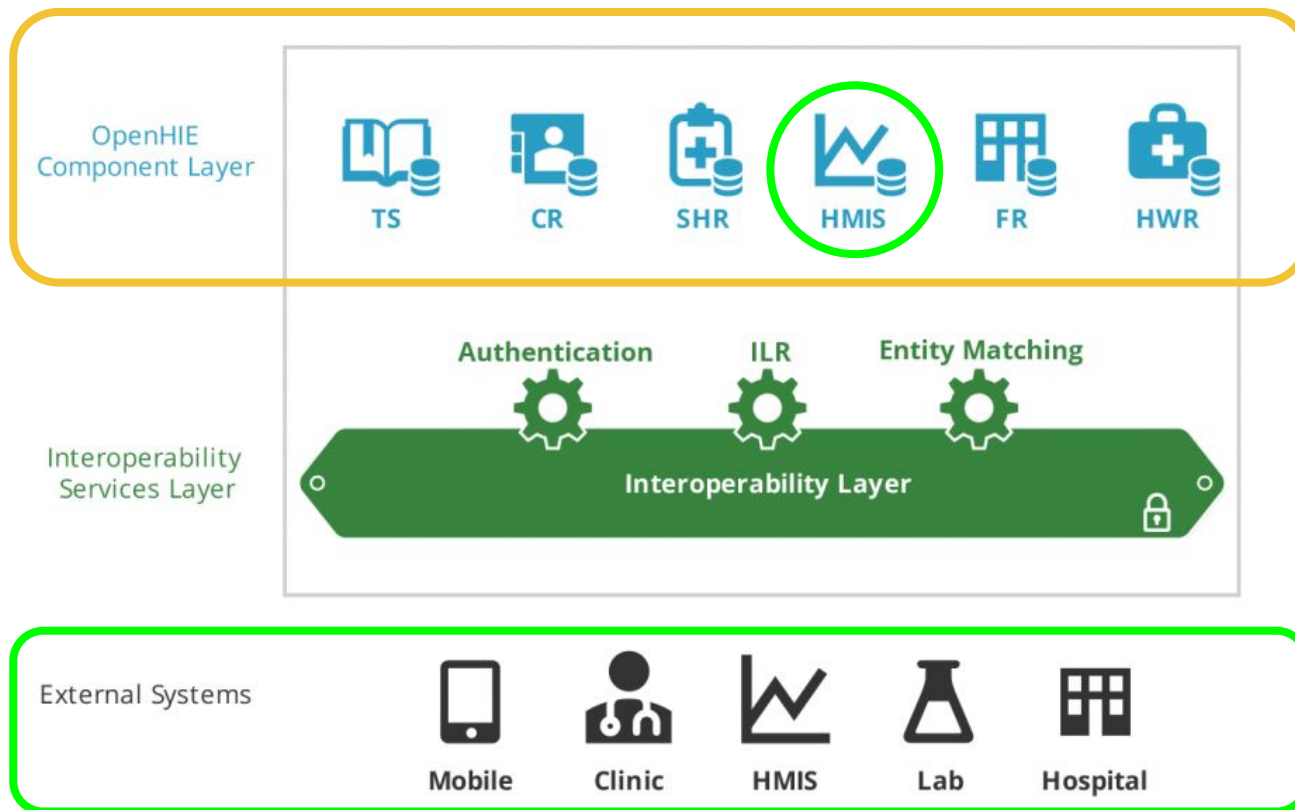


- Shout Out for Health
 - Two-way feedback mechanism for adolescents to voice their opinions regarding access to RMNCAH services
 - RapidPro
 - Interactive messaging

- Khulduli (*Curiosity*)
 - Android App
 - Provide adolescents with 'must know' information
 - Raise Awareness



MOVING FORWARD





THANK YOU !



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