e-health Pakistan

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Problem statement

- Health care, unknown to mainstream of Pakistanis
- No control over infectious disease(s)
- No information or means available for outbreaks
- Number of people with insurance are very low
- Silos with health information
- No centralized data is available to share the information
Health initiatives

- Different health initiatives have been taken to digitize the records, do surveys, analysis.
- All projects have GIS data and analysis
- Web based dashboards with charts
- Record management with multiple user support
Projects

- TB reach
  - 300k people data in five cities
  - ~60 Field officers with mobile data collection
  - Analytics and statistical spread analysis
Projects

• Child health
  • Survey application for child health monitoring
  • Health insurance
  • HIPAA
Projects

• Dengue outbreak management
  • Mobile workforce management
  • Data collection and analysis
Projects

- Hospital Navigation
  - What is available
  - How far is this
  - What doctors have top rankings
Analytics

- Where TB is spreading
- Where surveyor didn’t do the good job
- Which hospitals are overloaded
- Where people have health insurance
- Which hospital has more facilities
- How dengue virus is being monitored
Data silos

• A lot of data scattered around
• GIS and data dashboards
• Reports for figures and maps
• Charts to show off data
• Fragmented data
• No data warehouse
• No adaptation of standards
The need

• A centralized place for health data
• Dashboards, data, GIS data accumulation convergence
• Policy and notices
  • Health awareness sites
  • Insurance plans information
  • Medicine information
• A single point for Industry, Citizens, Donors
Centralized data

• Data collection and sharing by, Ministry of Health, Private Hospitals/Clinics/Labs, Pharmaceuticals, Public, Doctors, Paramedical Professionals, medical equipment manufacturers, Insurance Companies, Emergency Response Units, Law Enforcement, Utilities (Gas and Power), Civil Administration, Planning Commission of Pakistan, Donor Agencies

• Insurance statistics

• Health and population Statistics
GIS Management

- Health Facilities
- Planning and management
- Statistics
- Charts
- Dashboards
The portal

- Health facilities on GIS
  - Sites for the hospitals, clinics
  - Doctors
- Charts and reports
- Documents
  - Policies documents
  - Case studies
- User based editing and rank system
- Reviews
- GIS based maps
  - Navigation
  - Shortest path of routes
  - Data for better planning and management
Combinations and Analytics

- Data accumulation and analytics based reports and charts
- Area and disease profiles
- Statistical analysis
- Spread of disease analysis
- Vulnerable areas
- Survey of area and samples
- Dashboard of cross linkages of data
- GIS maps with multiple datasets
Service to people

- One place information of health data
- Maps and charts to quickly scan the data and areas
- Huge data and its verification
- Data sharing and analysis
- Links to the health sites
- Vying to fill the void of health data