This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

Parallel Cross-sectoral Working Groups

Framing the Context: ICT-enabled Health Systems

-- a Luxury, an Option, or a Necessity?

Experience from Bangladesh

UHC Indicators? Digital Health Strategy?

Manila, December 2

Professor Dr Abul Kalam Azad ADG & Director, MIS MOHFW, Bangladesh

We are here

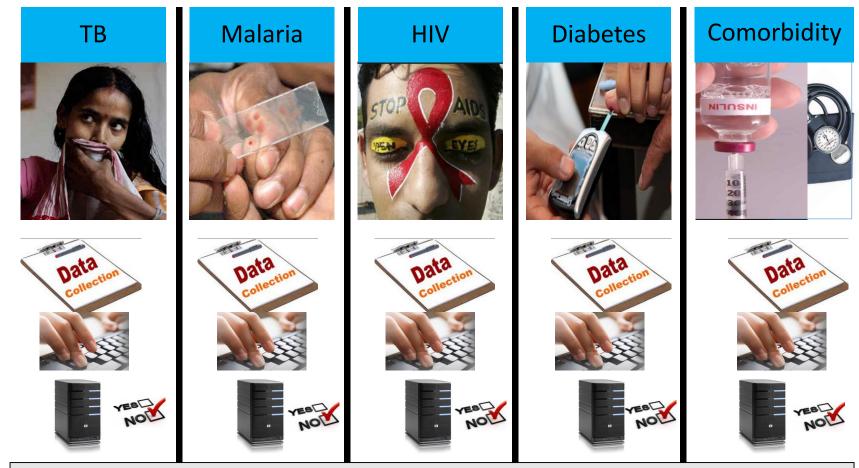
Not because We are not using ICT in our health sector

We are here

Because

We want to know whether widespread ICT use in health sector will be much costlier than benefits

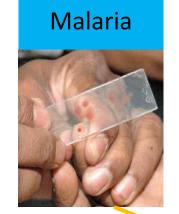
The problem – we probably invested in vertical ICT systems



Vertical systems:

- Causes unnecessary wastage of scarce resource
- Does not help to understand relationship between diseases

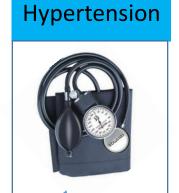
TB





Data





] No

- **Integrated** harmonized approach saves money
- More effective
- More useful



ICT is a necessity

Global NCD Monitoring Framework 2013-25

9 Targets / 25 Indicators



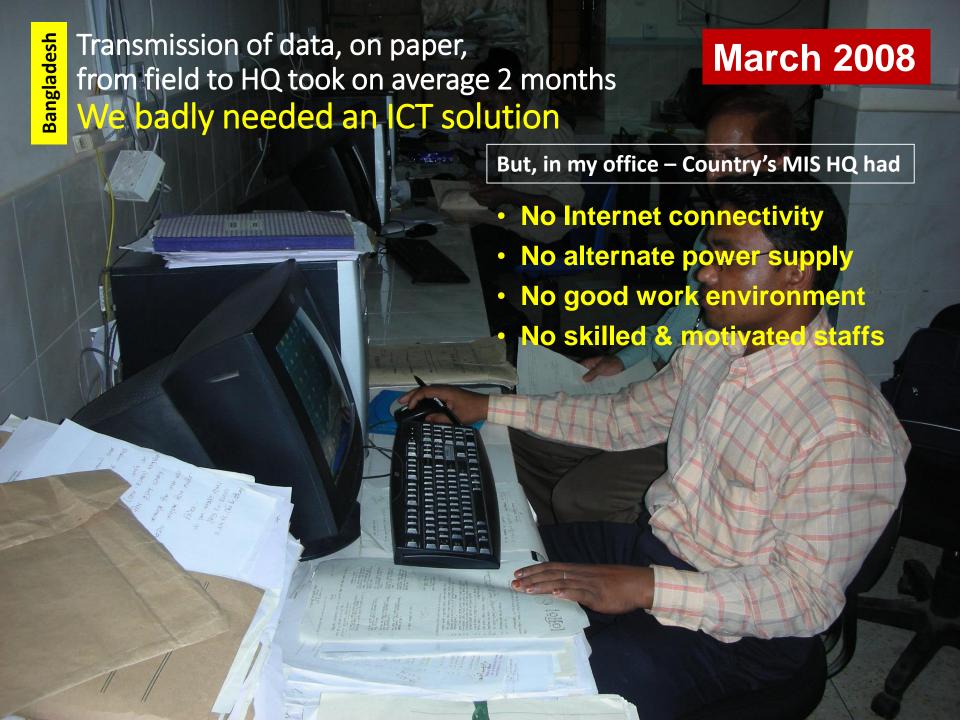








These **GLOBAL** initiatives demonstrate an urgency to establish electronic tracking system of each individual of every nation for health & social development indicators



We changed the situation



Frontline health workers, clinics, hospitals, institutions & administrative offices – all connected



System

What made them possible?

We felt compulsion of systematic ICT use – so started in any way



Digital Bangladesh Vision 2009

Response of MOHFW with Digital Health Program

We --

- Learned from failures elsewhere
- Chose key areas of interventions: improve health systems efficiency; bridge urban-rural digital divide; reach citizens
- Moved gradually

Our Solutions

- 1. Simple
- 2. Low cost
- 3. Innovative
- 4. Locally appropriate
- 5. Visible
- 6. Scalable

Global Recognition





WHO Landmark Publication





UN Digital Health for Digital Development Award 2011







UHC Indicator Set

- Total 43 indicators -- 11 financial protection indicators
- Data source: Surveys, Routine HIS, Other records

3 dimensions

- Financial risk protection
- Service coverage
- Equity

Indicators characteristics

- Impact indicators adapted mostly from MDGs
- Cover all **6** building blocks of health systems
- Spread across 4 main areas
 - access to health services
 - protection against financial risk
 - population coverage
 - quality of service

List of 43 UHC monitoring indicators

INPUT & PROCESS (14)

Health Workforce (3)

- 1. Number of doctors per 10,000 population
- Number of Nurses & midwives per 10,000 population
- 3. District/UPZ hospital and below have 1 Obs/Gynae + 1 anaesthologist

Infrastructure (1)

1. Number of Hospital beds per 10,000 population

Medicines (2)

- Availability of essential medicines in public facilities
- 2. Median drug price ratio for tracer drugs

Health Information & Research (1)

 Health Facilities having electronic health records (EHR)

Healthcare Financing (7)

- Public spending in health (per capita, as a % of TEH)
- 2. Social HI contribution (per capita as % of TEH)
- Other health insurance (ex. Employersupported health insurance) (per capita as % of TEH)
- 4. Share of health spending in total government expenditure
- 5. Health expenditure per capita
- 6. Health expenditure as % of GDP
- 7. OOPS for health (per capita as % of THE)

OUTPUT (3)

Service access and readiness (2)

- 1. Index of service readiness & Availability
- 2. Proportion of health facilities offering EOC & IMCI services

Service quality and safety (1)

1. % clients expressing satisfaction with health facilities

OUTCOME (13)

Service delivery/ Coverage of Intervention (6)

- 1. % of pregnant women attending 4 ANC visits
- 2. % of institutional deliveries
- TB treatment success rate
- 4. ITN (Insecticide treated bed net) coverage among HH of endemic area
- 5. % of children under one year with 3rd dose Pentavalent vaccine
- 6. Case fatality rate among hospitalized ARI cases

Risk factors and Behaviours (5)

- 1. % of HH with access to safe water
- 2. % of HH have access to improved sanitation
- Incidence of Drowning
- 4. Contraceptive prevalence rate
- 5. Tobacco prevalence rate

Healthcare Financing (2)

- OOPS for health in total household consumption expenditure
- 2. Share of population (%) lack adequate healthcare due to financial hardship

IMPACT (13)

Improved Health Status (11)

- 1. Life expectancy at birth
- 2. Neonatal mortality rate
- 3. Infant mortality rate
- 4. Total fertility rate
- Population growth rate
- 6. Maternal Mortality Ratio
- 7. % of underweight among under 5 children
- 8. % of stunted among under 5 children
- 9. Prevalence of HIV among MARP
- 10. TB prevalence rate
- 11. % of diabetic & hypertension receiving treatment

Health Security (2)

- Share of population (%) fall into poverty due to OOPS
- 2. Share of households (%) facing catastrophic health spending

THANKYOU