



Faculty of Tropical Medicine, Mahidol University

www.biophics.org

Fighting Infectious Disease with Informatics

Center of Excellence for Biomedical and Public Health Informatics (BIOPHICS)



Challenges & Difficulties in acquiring data



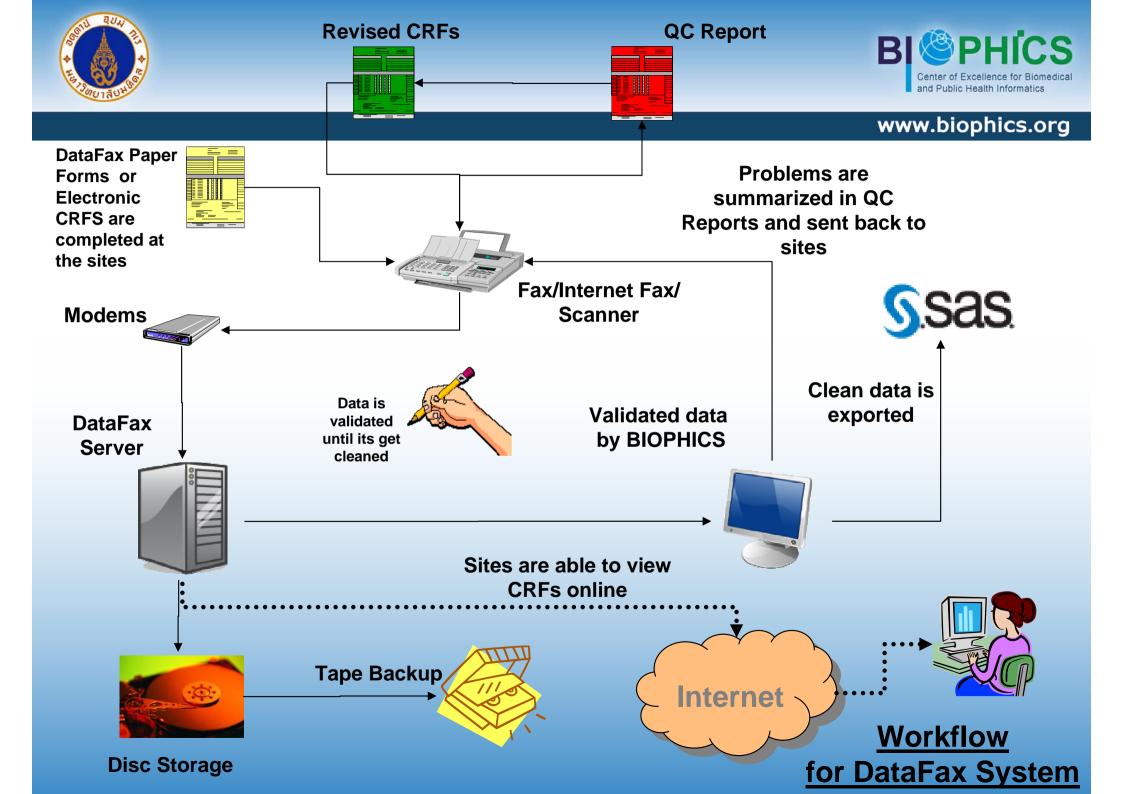
- Distance
- Infrastructure
- Language and disease definitions
- Collaborations
- Budget
- Personnel & Training



Experiences



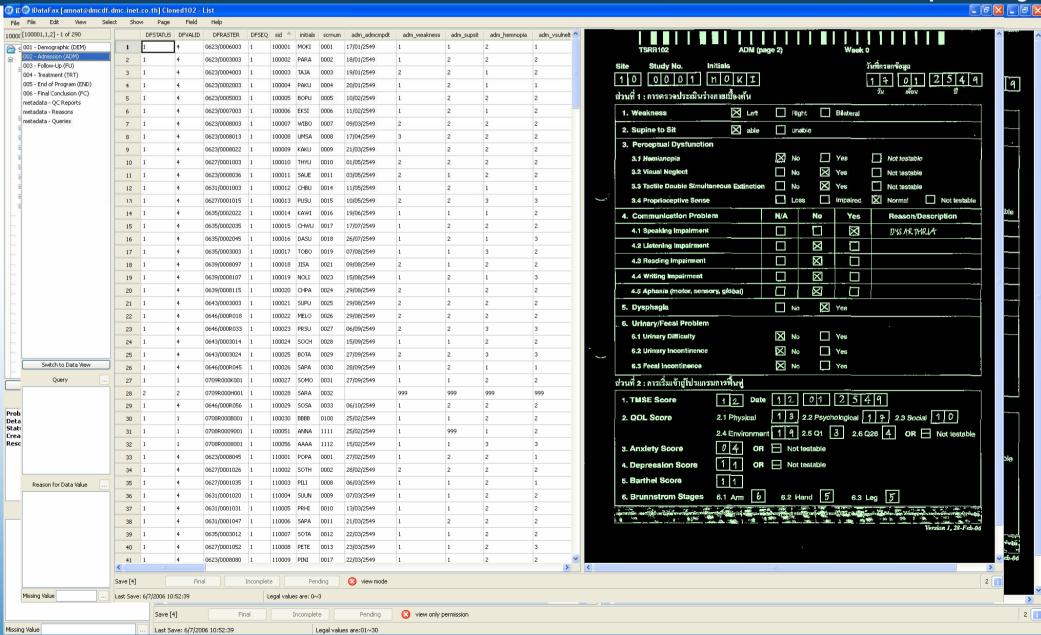
- Data Acquisition
 - Fax
 - Internet
 - Internet fax machine
 - Email scan as attachment
 - Electronic data capture
 - Web-based
 - Mobile phone
- Applications
 - Off-the-shelf software
 - Open source





DataFax



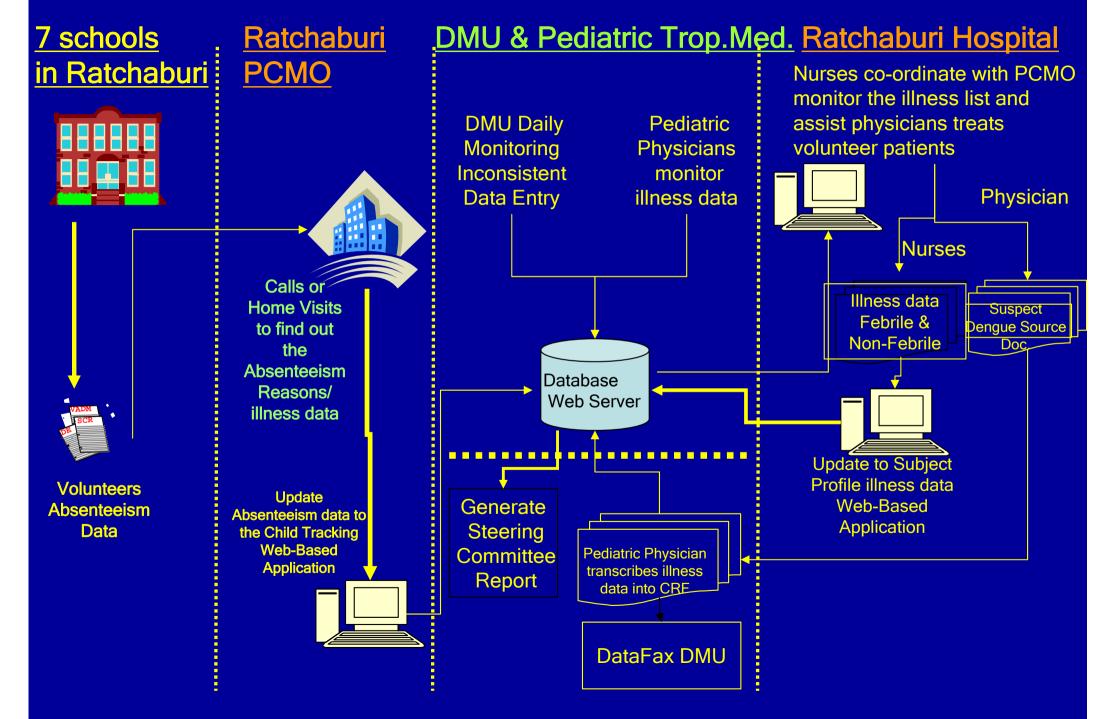






Development of Systems Managing Biomedical and Public Health Informatics

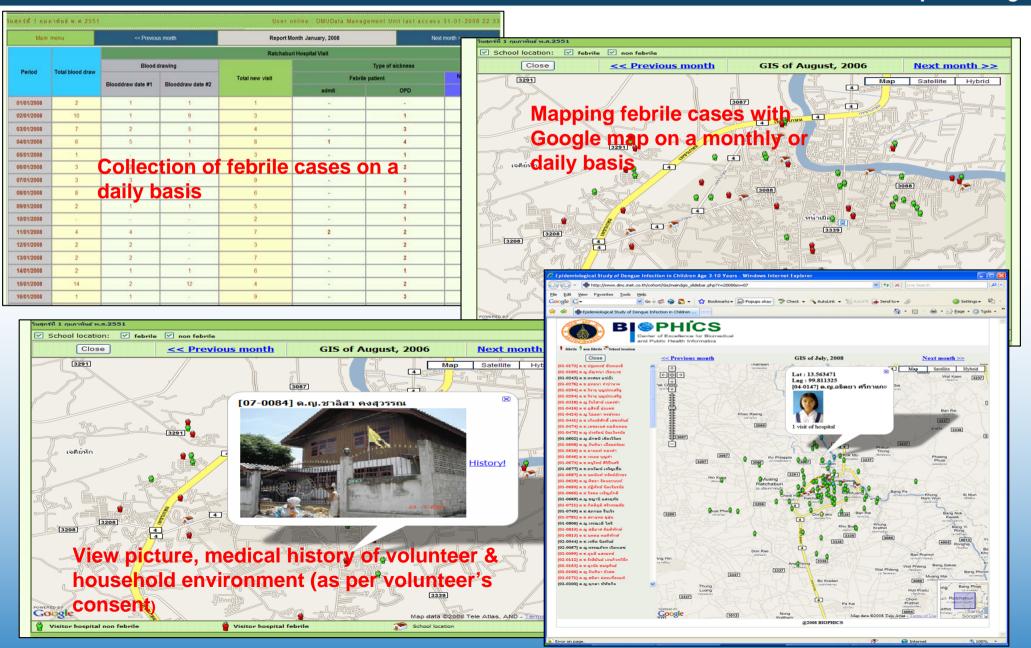
Work / Data Flow for Dengue Cohort Study





Patient/Volunteer Tracking System BI®PHICS (Dengue Cohort)

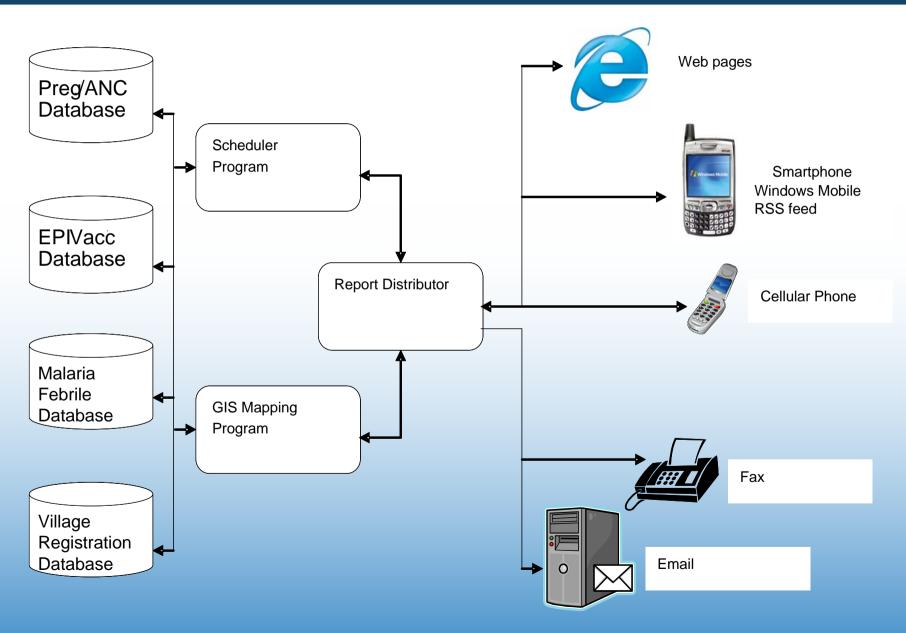






Public Health Informatics Module

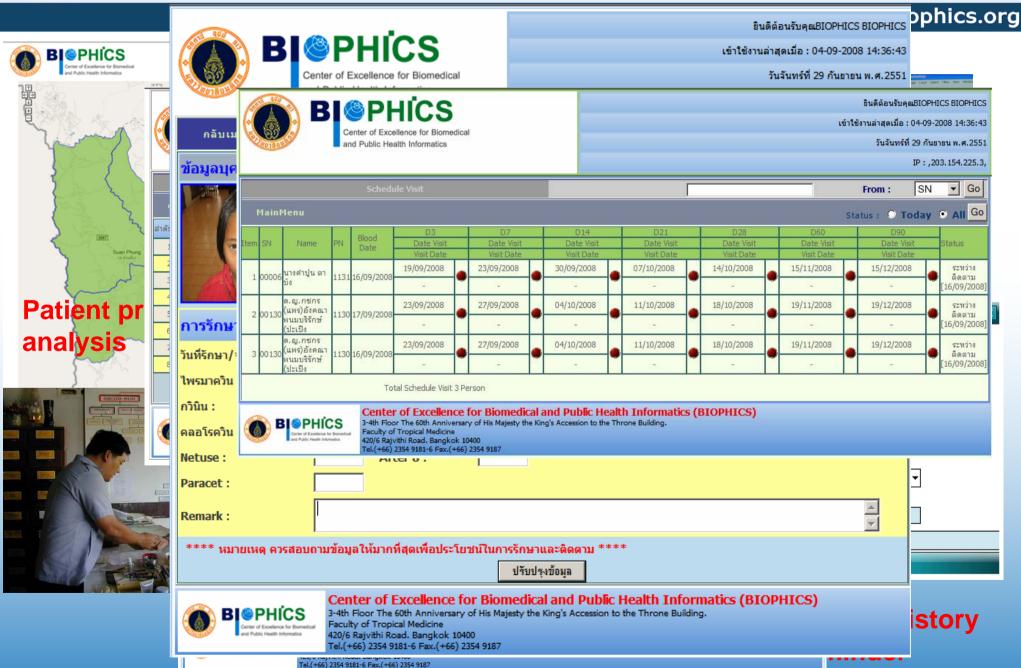






Drug Compliance System (Malaria Treatment Compliance)



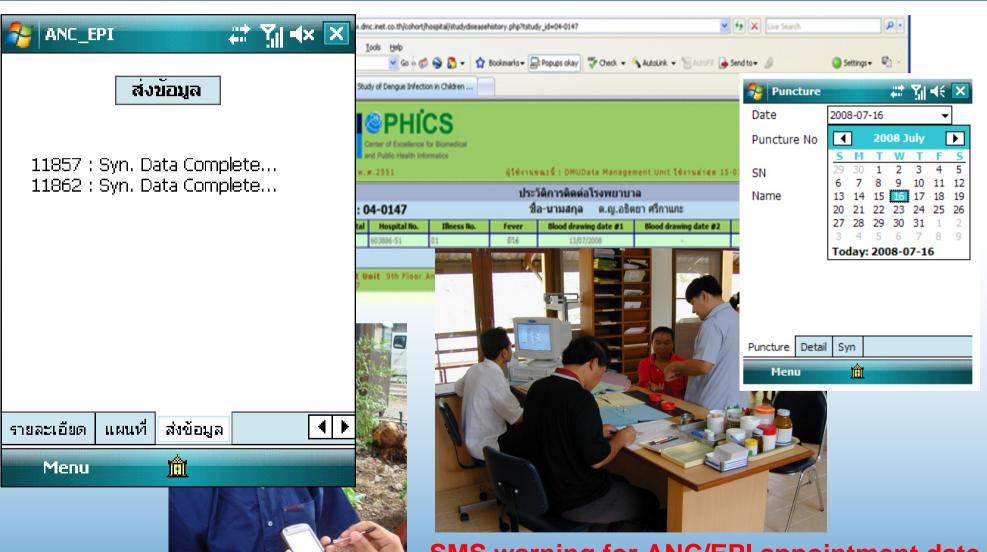




Healthcare Service Monitoring System BI PHICS (ANC-EPI Coverage)



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SMS warning for ANC/EPI appointment date (on patient cell-phone and on health provider smart phone)



In Conclusion applying Informatics will



- Reduce Data Processing Time
- Improve Quality Control
- Improve Communication with Data collection sites
- Easy to manage Imaging, Storage, and Retrieval System
- Simple Technology at the data collection sites
- Automated work-flow in moving Forms through all of steps required for data review
- Standardized procedures
- Controlling access to study data
- Increase efficiency and reduce cost







Thank you