Evaluating a Real Time Biosurveillance Program ~ work plan ~







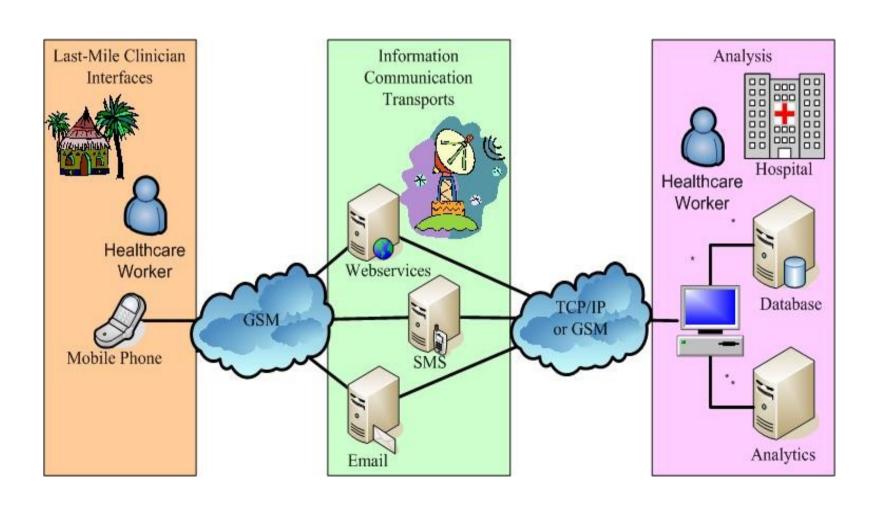
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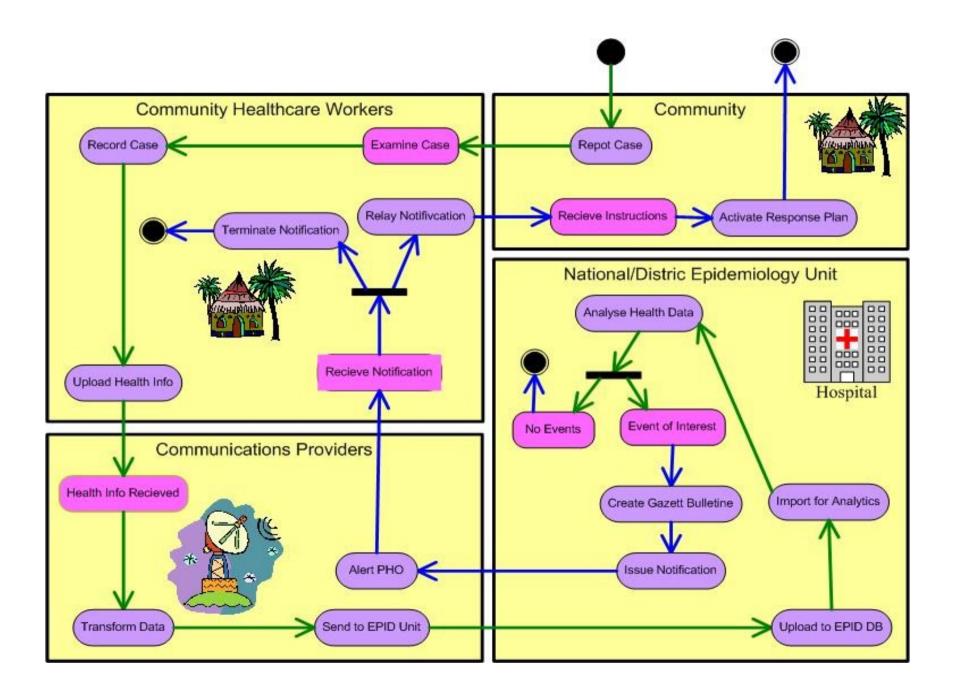
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Communication Architecture

"Can Biosurveillance Algorithms coupled with Pervasive Mobile Applications potentially be effective in the early detection of disease outbreaks?"



State Transition and Information Flow



Specific Objectives

- 1) Evaluating the effectiveness of the e-Health RTBP for detecting outbreaks
- 2) Evaluating the latencies of communicating disease information
- 3) Contribution of community organization and gender participation
- 4) Developing a Toolkit for assessing e-Health RTBPs

Research Matrix

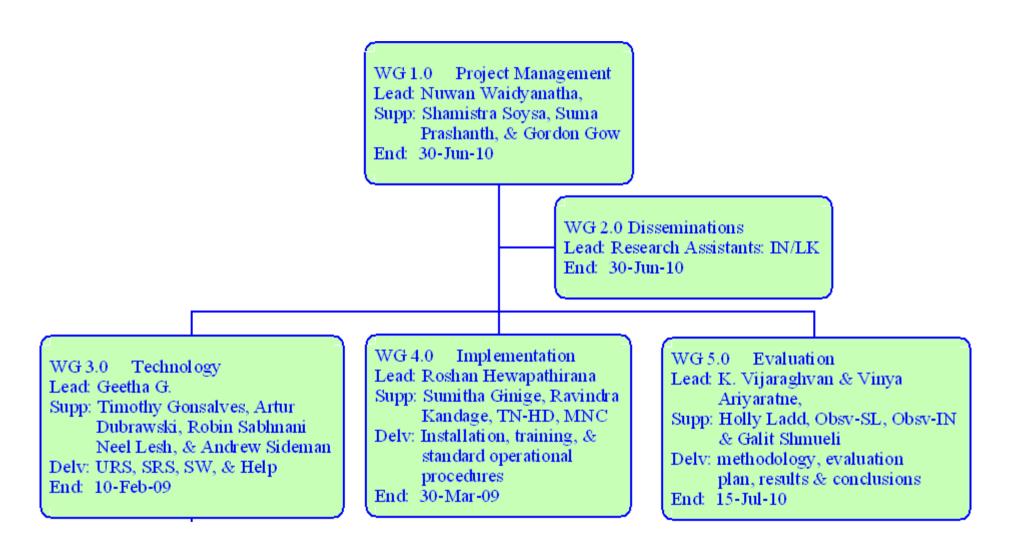
	Exposed to RTBP				Unexposed to RTBP			
	Division 1		Division 2		Division 3		Division 4	
+	C01	C05	C09	C13	C17	C21	C25	C29
	H01	H03	H05	H07	H09	H11	H13	H15
-	C02	C06	C10	C14	C18	C22	C26	C30
+	C03	C07	C11	C15	C19	C23	C27	C31
	H02	H04	H06	H08	H10	H12	H14	H16
-	C04	C08	C12	C16	C20	C24	C28	C32

- H denotes Community-Healthcare-Worker
- C denotes Community.
- cells with "magenta" background has a presence of a Community-based Healthcare facility (+)
- cells with "orange" background do not have a formal Community-based Healthcare facility (-).
- Community-Healthcare-Worker ("yellow" cells)

Hypothesis

- 1. Healthcare Workers exposed to the RTBP will respond more effectively than the Healthcare Workers in the Control Divisions
- 2. Epidemiology Units exposed to the RTBP will detect disease outbreaks and contain than Epidemiology Units in Control Divisions.
- 3. Healthcare Workers and Epidemiology Units exposed to the RTBP will show interest and recognize the benefits in adopting e-Health programs opposed to Control Divisions.
- 4. Communities exposed to the RTBP will have confidence in the National Disease Surveillance and Notification programs more than Control Divisions.
- 5. Healthcare Workers and Epidemiology Units exposed to the RTBP will leverage ICTs in other areas more than the Control Divisions.
- 6. Communities that have non governmental Community-based Healthcare Organizations will perform better than communities that do not

Work-group organizational chart



Activities Ganttchart

