

Stakeholder's Action Plan Implementing mHealth Going Forward

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1. Stakeholders interest towards mHealth

2. Implementation Issues



1. Stakeholders' interest towards mHealth



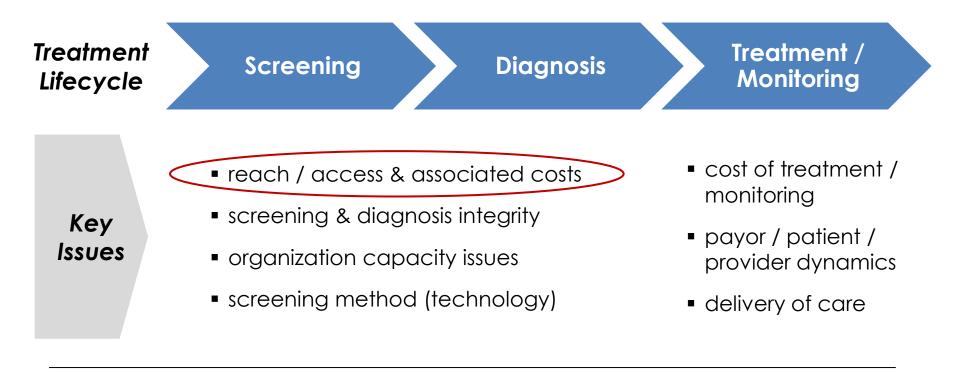
1. Where should the interest be?

2. Need to bind stakeholders together



Stakeholders' interest – where should it be*?





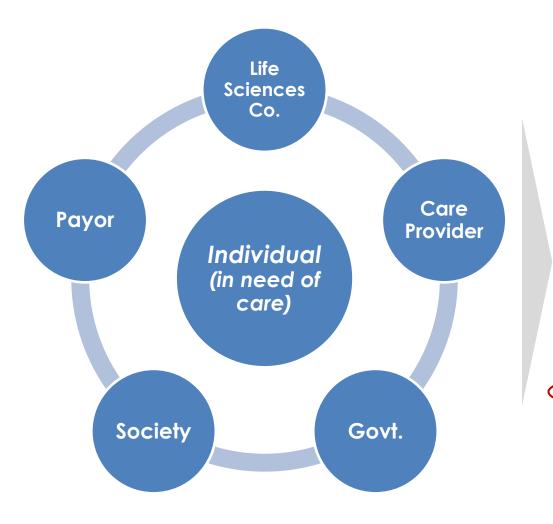
Multiplicity of factors at play (across most Asian markets) mean companies cannot address all by themselves

Need for strong partnerships



Need to bind stakeholders together





Key issues:

- (national) priorities
- treatment penetration
- no. of stakeholders involved
 → efficiency issues
- outcomes → treatment effectiveness

system's cost of care

Technology as an enabler





1. Stakeholders interest towards mHealth

2. Implementation Issues



2. Implementation issues



1. Healthcare needs come first

- 2. Technology issues
- 3. Enablers



Healthcare needs come first, 1 of 3 illustration: Cervical Cancer in Vietnam



Challenges in current state

- Late referral & treatment
 → ~5,500 diagnosed
- Lack of awareness & access to facilities → ~30% urban population; no national screening effort

Existing (incl. health) eco-system

- Overall cost not significant for pap smear test (also not difficult to administer)
- Spread of public (& private) hospitals
- Entities with national reach exist that can take health issues to masses → education / preventive care efforts

Conditions exist to significantly expand coverage & effectively manage the problem

Cervical Cancer, Vietnam

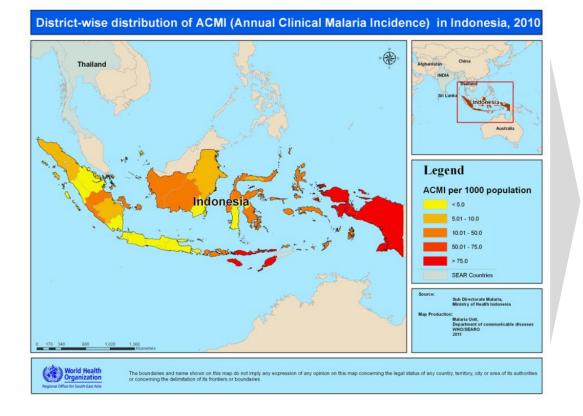
- 1. How can mobile technology be used to contain this problem?
- 2. What catalyst is needed to solve screening/diagnosis issues?



Source: WHO, Tuoi Tre News of the Communist Party of Vietnam, Solidiance analysis (2010, 2011)

Healthcare needs come first, 2 of 3 illustration: Malaria in Indonesia





Challenges in current state:

- Est. 30,000 Indonesians die each year from malaria
- Global (read: multi-lateral) funding increased significantly since 2008, though govt. funding has reduced
- Est. total funds requirement is ~US\$ 400 Mn., of which only ~1/10th is being spent

Malaria, Indonesia

- 1. How can mobile technology be used to contain this problem?
- 2. What catalyst is needed to solve screening/diagnosis issues?



Source: WHO, Global Fund, UNICEF, Ministry of Health Indonesia (2009, 2010)

Healthcare needs come first, 3 of 3 illustration: Diabetes in India



Challenges in current state

Burden of Disease

- >61 Mn. diabetics* → to increase to 100 Mn. by 2030
- Mortality: ~1 Mn. due to diabetes & related causes (2011)

Structural Issues

- State-led health systems/laws/effort
- Mainly out-of-pocket funding
- Private sector driven; only pockets of govt. intervention



Diabetes, India

- 1. How can mobile technology be used to contain this problem?
- 2. What catalyst is needed to solve treatment/monitoring issues?



Technology issues





Broadcast & Feedback

• sms/mms-based messages



Platform

- data storage & usage
- electronic health records



Consultation

 diagnosis & monitoring-based applications

Key Issues to address*

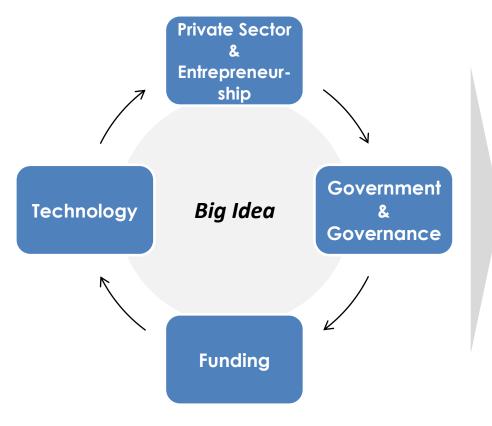
- 1. Policy
- 2. Technology & deployment (incl. infrastructure & cost)
- 3. Platform (& inter-operability)
- 4. Priorities
- 5. Local context (read: apps.)
- 6. Awareness & knowledge (among users)
- 7. Legal issues



* especially in developing Asian markets; not in any order

Enablers – catalyst to implementation





Make it a virtuous cycle

Rules:

- Align key priority(ies), issues facing implementation, funding & funders
- 2. Collaborate stakeholders coming together are all good, but commercial interest cannot take a back seat
- 3. Target time-based goals and who (all) will it benefit must be clear



Enablers – healthcare initiatives abound illustration: India





Initiative to **use mobile technologies** to collect data on disease surveillance & public health programs

- Empower grass-roots worker to report information real-time
- Monitor progress of on-going programs
- Early detection & intervention

Key Challenges

- Funding
- Programs (read: specific objectives)
- Coverage (read: jurisdiction of health matters)
- Partners

(Select) Projects

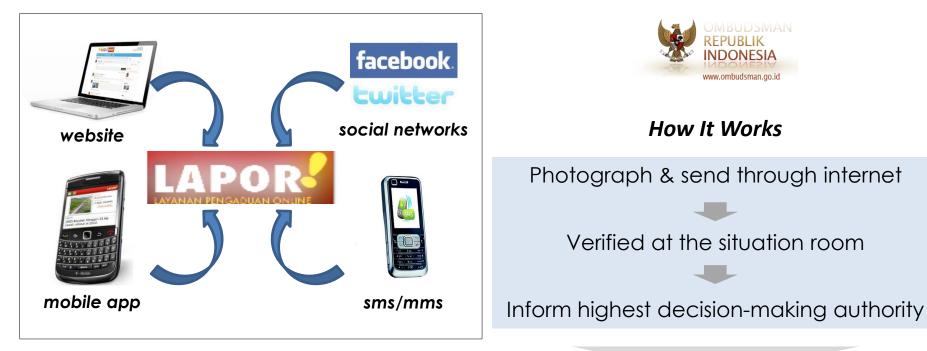
- Integrated Disease Surveillance Program
- Surveillance program for Maternal & Child Health
- Community-based screening for Cervical Cancer

Private enterprise initiatives, unless scaled up run risks, similar to any other commercial venture



Enablers – governance initiatives can be leveraged illustration: Indonesia





- In Dec 2009, the government set up the Presidential Unit for Development Supervision & Control (UKP4)
- In Nov 2011, it launched a web & smsaccessible platform* (LAPOR, or Public Participation Information System) to provide real-time information

Public participation in government programs monitoring is improving governance





1. Stakeholders interest towards mHealth

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3. Call to Action for mHealth initiatives: Key Success Factors



1. It is not (only) about technology

- 2. Partnerships are essential (& key)
- 3. Scale created will embed 'value' in the mHealth initiative
- 4. Where (& how) it starts is a key determinant of long-term success
- 5. A open-systems approach may well be a necessity

healthcare needs comes first i.e., whether for (prevention, diagnosis, or treatment)?

it determines not only nature of commercial interest, but also sustainability

emerging market realities* need to be applied before long-term value is created

commercial organizations may not alone (be able to) sustain (& scale up) the effort

physical infrastructure limitations must compel search for innovative ways to address broad health issue(s)

Context $\leftarrow \rightarrow$ Collaboration $\leftarrow \rightarrow$ Content $\leftarrow \rightarrow$ Commerce $\leftarrow \rightarrow$ Co-habitation





1. Stakeholders interest towards mHealth

2. Implementation Issues



In Summary



1. Stakeholders interest towards mHealth

- Strong partnerships needed
- Technology can be (& already is) a strong catalyst

2. Implementation Issues

- Healthcare needs come first
- Technology issues
- Enablers

3. Call to Action: Key Success Factors

 5Cs framework to success: Context, Collaboration, Content, Commerce & Co-habitation





Thank You



Type of mHealth Initiatives



