Digital Health Investment Tool

December 6, 2017

Adele Waugaman, USAID
Steve Ollis, MCSP

Agenda

- Background
- Recap of work done to date
- Overview of tool
- Group work
- Report back and discussion
- Summary and next steps

What is it?

- Scoring tool embodying the Principles for Digital Development to assist funders in evaluating health technology investments and their adherence to best practices
- Audience is decisionmakers without an information technology background
- Lightweight tool with 12 questions and scoring 1-5 along with references to other online tools, user guide and glossary of key terminology

Principles *for* Digital Development

- Design With the User
- Understand the Existing Ecosystem
- Design for Scale
- Build for Sustainability
- Be Data Driven
- Use Open Standards, Open Data, Open Source, and Open Innovation
- Reuse and Improve
- Address Privacy & Security
- Be Collaborative

Work done to date

- Review of existing tools
- Review of Principles for Digital Development
- Development of Cadillac and Skateboard models
- May 24 2017 Advisory Board meeting
- Result: Lightweight model
- Nov 2017 Online consultation with Advisory Board

PRINCIPLE 2: Understand the Ecosystem (Cadillac Version)

Explain how your proposal addresses the requirements of the local ecosystem according to these six categories:

*Proposal identifies the **institutions, communities and individuals** that are relevant to the technology-enabled project and its digital systems. (See A below)*	*Proposal identifies the **strengths and weaknesses of local entities** by examining roles, resources, relationships, rules of engagement, incentives and results. (See B below)*	*Proposal assesses the impact of the **regulatory environment,** including policies, laws and other rules on the ownership and operation of the digital systems. (See C below)*	*Proposal assesses the **political environment,** including potential changes in personnel, structure and mandates, and its impact on the ownership and operation of the digital systems. (See D below)*	*Proposal assesses the **technical environmen**t, including use of existing standards, platforms and tools, and its impact on system interoperability, reuse and adaptation strategies. (See E below)*	*Proposal identifies the **ecosystem drivers**, both current and future. (See F below)*

Score	*Failing (1)*	*Poor (2)*	*Average (3)*	*Good (4)*	*Excellent (5)*
(A) To what extent does the proposal effectively identify and consider **individuals, communities, and institutions**?	*No individuals, communities, or institutions identified*	*Preliminary identification of individuals, communities, and/or institutions, but without analysis of their roles and/or relevance*	*Identification of individuals, communities, and/or institutions,with preliminary analysis of their roles and/or relevance*	*Comprehensive identification of individuals, communities, and institutions that are relevant to the technology-enabled project and its digital systems, with robust analysis of their roles and/or relevance.*	*Identification of individuals, communities, and institutions,with robust analysis of their roles and/or relevance, giving comprehensive consideration of the Principles for Digital Development.*

PRINCIPLE 2: Understand the Ecosystem (cont'd, 2 of 3)

Score	*Failing (1)*	*Poor (2)*	*Average (3)*	*Good (4)*	*Excellent (5)*
(B) To what extent does the proposal effectively identify and **consider *strengths and weaknesses of local entities***?	*No strengths and weaknesses of local entities identified*	*Preliminary identification of strengths and weaknesses of local entities, but without analysis of their relevance to the proposed work*	*Identification of strengths and weaknesses of local entities, with preliminary analysis of their relevance to the proposed work*	*Identification of strengths and weaknesses of local entities, with robust analysis of their relevance to the proposed work--including by examining roles, resources, relationships, rules of engagement, incentives and results*	*Identification of strengths and weaknesses of local entities, with robust analysis of their relevance to the proposed work, giving comprehensive consideration of the Principles for Digital Development*
(C) To what extent has does proposal effectively ***assess the technological, legal, and regulatory environmen*t?**	*Technological, legal, and regulatory environment have not been considered*	*Preliminary identification of aspects of technological, legal, and regulatory environment, but without analysis of their relevance to the proposed work*	*Identification of aspects of technological, legal, and regulatory environment, with preliminary analysis of their relevance to the proposed work*	*Identification of relevant aspects of technological, legal, and regulatory environment, with robust analysis of their relevance to the proposed work--including proposed alignment with existing policies and ongoing technological investments, as well as identification of gaps and barriers*	*Identification of relevant aspects of technological, legal, and regulatory environment, with robust analysis of their relevance to the proposed work, , giving comprehensive consideration of the Principles for Digital Development*

PRINCIPLE 2: Understand the Ecosystem (cont'd, 3 of 3)

Score	*Failing (1)*	*Poor (2)*	*Average (3)*	*Good (4)*	*Excellent (5)*
(D) To what extent does the proposal effectively *assess the **political environment**?*	*Political environment not assessed*	*Preliminary assessment of political environment, but without analysis of its relevance to the proposed work*	*Assessment of political environment, with preliminary analysis of its relevance to the proposed work*	*Assessment of political environment, with robust analysis of its relevance to the proposed work--including potential changes in personnel, structure and mandates, and the political environment's impact on the ownership and operation of relevant digital systems*	*Assessment of political environment, with robust analysis of its relevance to the proposed work, giving comprehensive consideration of the Principles for Digital Development*
(E) To what extent does the proposal effectively *identify **ecosystem drivers**.*	*Ecosystem drivers not assessed*	*Preliminary assessment of ecosystem drivers, but without analysis of their relevance to the proposed work*	*Assessment of ecosystem drivers, with preliminary analysis of their relevance to the proposed work*	*Assessment of ecosystem drivers--both current and future--with robust analysis of their relevance to the proposed work*	*Assessment of ecosystem drivers--both current and future--with robust analysis of their relevance to the proposed work, giving comprehensive consideration of the Principles for Digital Development*

OBJECTIVE 2.2: PARTICIPATE IN NETWORKS AND COMMUNITIES OF LIKE-MINDED PRACTITIONERS.

Practice 2.2.1: Identify networks of trust and influence in the ecosystem than can be leveraged to inform the design of the technology-enabled project and its digital systems. / Practice 2.2.2: Identify conduits and processes for sharing information and building local capacities that are appropriate and effective and use them to inform the design of digital solutions. / Practice 2.2.3: Leverage existing networks, information sharing and capacity building Processes to empower marginalized stakeholders. / Practice 2.2.4: Design feedback loops and use them to improve project and system impacts and sustainability.

PRINCIPLE 4: Build for Sustainability

Question	*Criteria*					Score
How will the project plan for sustainability from the start, including planning for long-term financial health (e.g. assessing total cost of ownership)?	Quantifies the investments required to sustain digital systems operation, maintenance, use, and evolution over its lifecycle (1)	Develops a business model that identifies the role that each relevant stakeholder group will plan in making those investments (1)	Articulates the value proposition for each relevant stakeholder group for fulfilling those roles. (1)	Identifies the factors that will include the willingness of each stakeholder to maintain their ownership and commitment to system operation, maintenance, use, and evolution over time. (1)	Develops plan to mitigate the risks associated with long term stakeholder commitment to these digital systems. (1)	__ / 5
How will the project collaborate with and invest in local communities and developers?	Identifies the impact that digital system business models have on the local business community and the benefits of local business community involvement. (1)	Maximizes the contributions that digital systems business models make to the local business community, where feasible. (1)	Engages with the local business community in development, operations, maintenance, and evolution of digital systems where such engagement minimizes sustainability risks. (1)			__ / 3

Lightweight tool

- 12 questions
- Scoring 1-5
- Includes links to other resources and tools
  - MAPS toolkit, WHO Digital Health Atlas, DIAL how to guides and examples, MEASURE and WHO lists of HIS strategies, etc.
- Includes details on:
  - Deliverables
  - Budget
  - Staffing
  - Definitions

Lightweight tool continued

Question	Why is this important?	Principles	Deliverable	Reference Materials	Score (1-5)				
					Level 1—None or Nascent: No capability is evident or processes are not systematically followed.	Level 2—Emerging: Processes and structures are defined but not systematically documented.	Level 3—Established: Processes and systems are documented and functional.	Level 4—Institutionalized: Ongoing systems and standard practices are used and monitor activities and measure progress.	Level 5—Optimized: Ongoing monitoring and measurement of processes is in place.
1. Does the project understand and account for relevant local eHealth policy and guidelines (could be national, state or district level depending on context of project), health sector strategic plans, health areas specifc plans (i.e. maternal health strategy)?	Interventions designed without understanding of local policies will be limited in their ability to scale beyond small pilots and may be in violation of existing national government standards or policies.	1, 2, 7, 9	Landscape Analysis	WHO eHealth Observatory, Can Request from MOH, MEASURE list of HIS Policies	No or scant mention of local policies or guidelines	Mentions relevant policies and guidelines	Includes a plan to review existing guidelines and policies	Details relevant policies and guidelines and how they will influence the system design and implementation	Details current and planned revisions to policies/guidelines and how this may influence system in the future.
2. Does project understand the local HIS ecosystem (i.e. other eHealth systems and data sources?)	Interventions designed without understanding the HIS ecosystem may duplicate existing efforts or not properly leverage existing platforms, data, and registries. This may result in wasted money, limit data sharing opportunities, and contribute to a fragmented ecosystem	2, 6, 9	Landscape Analysis	WHO Digital Health Atlas	No or scant mention of other relevant eHealth systems	Includes a plan to review local HIS ecosystem	Includes plan to review local HIS ecosystem and mentions other relevant eHealth systems	Identifies the institutions, communities and individuals that are relevant to the technology-enabled project and its digital systems	Clearly assesses the technical environment, including use of existing standards, platforms and tools, and its impact on system interoperability, reuse and adaptation strategies.

Group Work

- Discussion questions (please complete for each question covered)
  - Is question clear?
  - Are criteria clear and structured in a stepwise fashion?
  - What’s missing?
  - Reference tools to add?
  - Any other feedback
- Aha feedback - 1 key insight gained during the process or key point to share back with group during feedback discussion

Next steps

- December 2017
  - Consolidate feedback from online consultation and this workshop
  - Present to DH&I WG for additional feedback
- Q1 2018
  - DH&I Small Group discussions
  - Release as living document