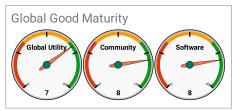
tor	to	Global	Good Maturity Model for digital health softwa	re tools.			
core indicator	indicator		Version 1.1				
core	-qns	Low	Medium	High	Notes		
			At least four countries or states actively use the tool for use as part of their health	At least ten countries or states actively use the tool for use as part of their health information			
		Less than two countries or states actively use the tool for use as part of their health	information system with at least 20% of total nation-wide or state-wide target users routinely	system with at least 30% of total nation-wide or state-wide target users routinely using			
	Country Utilization	information system Less than two countries or states have	using product/service as intended At least four countries or states have included	product/service as intended At least ten countries or states have included			
	Country Strategy	included the tool as part of their eHealth strategy or framework	the tool as part of their eHealth strategy or framework	the tool as part of their eHealth strategy or framework			
		the tool does not meet digital functional requirements (as defined by WHO's	the tool does partially meets digital functional requirements (as defined by WHO's	the tool does fully meets digital functional requirements (as defined by WHO's			
Utility	Digital Health	Classification of Digital Health Interventions) without signifigant customization or	Classification of Digital Health Interventions) without signifigant customization or	Classification of Digital Health Interventions) without signifigant customization or			
I U	Interventions	configuration	configuration	configuration source code exists on a publicly accessible			
Global				repository and licensed under an Open Source Initiative approved license. Software is			
G	Source Code Accessibility	source code not publically available or not released under an open-source license	source code exists on a publicly accessible repository and licensed under an Open Source Initiative approved license.	structured to allow local customizations and new modules and functionality without requiring forking of main code			
	Accessionity			requiring forking of main code	a revenue stream indicates a source of funding to support the development of		
					a global good. such revenue streams could come from donor contributions,		
				multiple revenue streams and funding mechanisms exist including at least one that	from one of the variety of business models used by open source software		
	Funding and Revenue	at most two revenue streams exists. revenue streams are largely dependent on time bound project implementations	multiple revenue streams/funders exist across project implementations	provides for multi-year support of core software development, documentation and other key artifacts.	tools to fund their continued development, or from in-kind contribution from an organization		
	Fulluing and Revenue	project implementations		At least 30% of estimated total developers,	contribution from an organization		
	Developer, Contributor and Implementor	Less than 10% of estimated total of developers, contributors and implementers	Up to 20% of estimated total of developers, contributors or implementers, including some country representation, are engaged on a	contributors and implementers are engaged on a communication platform. community leadership includes representation from			
		are on a communication platform	communication platform.	countries where the tool is deployed formal community structures (e.g. leadership,			
				technical advisory group, community representatives) exist and are practiced with			
		there is no community governance structure in	some informal processes for community	documented roles and responsibilities in a transparent fashion and are used to direct			
Community Support	Community Governance	place to direct continued development of the	management exist to direct continued development of the digital health tool	continued development of the digital health tool			
dn				new features and functionality are documented as part of a software roadmap as			
ty S			there is a publicly accessible and routintely	part of a release cycle. there are forums for community members to discuss new feature requests. a clear prioritization process exists			
uni		no software roadmap exists or there is no publicly accessible and routintely maintained	maintained platform for new feature requests. a software roadmap exists describing currently	and is utilized for the development of new features and functionality as part of a product			
шu	Software Roadmap	platform for new feature requests	planned and resourced development activities				
Col				including training manuals, online courses, tutorials and implementation guides			
	Uses Description		some user documentation exists (training manual, demo videos) but only addresses a	addressing most of the common functionality. documentation has been released under a			
	User Documentation	no user documentation exists	limited subset of common functionality	Creative Commons license Software has been translated into multiple			
		Limited or no support in the software for	Software has be internationalized to support	languages and fully supports internationalization requirements. There is an			
		Limited or no support in the software for multiple languages. Multi-lingual documentation / user resources are practically	multiple languages (though may not have been translated) for primary portions of the user interface. Some user documentation exists in	easy tool for new translations to be added. Significant parts of user and implementer documentation has been translated into at			
	Multi-Lingual Support	non-existent	more than one language	least one other language. source code is documented to the point that			
				new adopters can customize and add new functionality with relying on significant help			
				from one of the core developers. online courses or tutorials are available to address			
			come technical desumantation evicts of the	common development and deployment tasks. core business workflows and functional			
	Technical Documentation	no substantial documentation of the software exists	some technical documentation exists of the source code, use cases and functional requirements	requirements are fully documented using use cases, user stories or other equivalent methodology			
				software has been packaged for one or more common operating systems or platforms.			
			full documentation available for deployment and configuration. a new implementation does	software upgrades can largely be achieved without manual intervention. unit or			
ity	Software Productization	no documentation available for deployment and configuration	not require the involvement of the core development team	integration testing is part of the release process.			
atur				a robust API is available for key data and metadata exchange needs for the primary			
Mâ				business domain with functional requirements for the API having been developed in conjuction with appropriate country, regional			
are				and global stakeholders. API endpoints exist for core data and metadata elements which			
Software Maturi			some APIs are available for accessing and	adhere to standards developed by an appropriate Standards Development			
Sc		extract or importing data into the system	managing data. there are user facing interfaces to export core data and metadata in	Organization relevant to the tools business domain. standards based API endpoints are			
	Interoperability and Data Accessibility	usually requires looking at source code and/or directly accessing database	the system (e.g. in CSV format) for further analysis and data transfer purposes	used in at least four jurisdictions (e.g. countries or states).			
				Role based authorization exists, if appropriate. All remote access (web interface, APIs) are encrypted by default using current best			
		No security controls or implementation		practices. An independent security audit of the software has taken place within the last			
	Security	guidance is in place.	Role based authorization exists, if appropriate.	twelve months. There is at least one jurisdicions (e.g. country,	Entities are the data objects that are		
		There are no jurisdicions (e.g. country, state)	There is at least one jurisdicion (e.g. country, state) deployment for which 20% of all	state) deployment for which 30% of all "entities" are managed within the software.	central to the pimary business domain that the software addresses. For		
	Scalability	that manage 10% of their "entities" within the tool and no performance and load statistics exist.	"entities" are managed within the software. There has been at least one evaluation of software performance / load testing	Performance and load testing is a part of routine releases and results are publicly available.	example, an EMR would have a patient as one of its entities.		
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Example Rating of a Digital Health Software Global Good (make a copy of this document to use)



Core Indicator and Calculated Score [0-10]	Sub-Indicator	change rating here		Rational for rating
Global Utility	Country Utilization	High	At least ten countries or states actively use the tool for use as part of their health information system with at least 30% of total nation-wide or state-wide target users routinely using product/service as intended	For example, WHO EMRO and AFRO use ODK Collect for polio surveillance and that's more than 10 countries. And for those projects, more than 30% of those target users routinely use the software. It's also been used for malaria, ebola, HIV/TB, etc.
	7 Country Strategy	Medium	At least four countries or states have included the tool as part of their eHealth strategy or framework	We are not certain, but given that more than 10 countries use it for polio, it is likely part of some of these countries' strategy.
				4.1.1 Non-routine data collection and management.
	Digital Health Interventions	High	the tool does fully meets digital functional requirements (as defined by WHO's Classification of Digital Health Interventions) without signifigant customization or configuration	Page 17 of http://apps.who. int/iris/bitstream/10665/260480/1/WHO- RHR-18.06-eng.pdf cites ODK as the example
	Source Code Accessibility	Medium	source code exists on a publicly accessible repository and licensed under an Open Source Initiative approved license.	ODK Collect allows customization through admin settings and external apps. Other ODK tools don't.
	Funding and Revenue	Medium	multiple revenue streams/funders exist across project implementations	Multi-year grant funding and long history of consulting funding
Community	Developer, Contributor and Implementor Community Engagement	High	At least 30% of estimated total developers, contributors and implementers are engaged on a communication platform. community leadership includes representation from countries where the tool is deployed	Most of our developers, contributors, and implementers are on the forum.
8	8 Community Governance	High	formal community structures (e.g. leadership, technical advisory group, community representatives) exist and are practiced with documented roles and responsibilities in a transparent fashion and are used to direct continued development of the digital health tool	
	Software Roadmap	Medium	there is a publicly accessible and routintely maintained platform for new feature requests. a software roadmap exists describing currently planned and resourced development activities	Prioritization process is governed by TSC in an ad-hoc manner.
	User Documentation	High	a full suite of user documentation exists including training manuals, online courses, tutorials and implementation guides addressing most of the common functionality. documentation has been released under a Creative Commons license	
	Multi-Lingual Support	Medium	Software has be internationalized to support multiple languages (though may not have been translated) for primary portions of the user interface. Some user documentation exists in more than one language	Most popular tool is translated into 50+ languages. Forms can be in any language. Other tools are only available in English. User docs exist in other languages, but the project only maintains user docs in English.
Software	Technical Documentation	Medium	some technical documentation exists of the source code, use cases and functional requirements	
8	8 Software Productization	High	software has been packaged for one or more common operating systems or platforms. software upgrades can largely be achieved without manual intervention. unit or integration testing is part of the release process.	
	Interoperability and Data	Medium	some APIs are available for accessing and managing data. there are user facing interfaces to export core data and metadata in the system (e.g. in CSV format) for further analysis and data transfer purposes	
	Security	High	Role based authorization exists, if appropriate. All remote access (web interface, APIs) are encrypted by default using current best practices. An independent security audit of the software has taken place within the last twelve months.	We do default to HTTPS and have had an independent audit by Security without Borders on the popular tools.
	Scalability	High	There is at least one jurisdicions (e.g. country, state) deployment for which 30% of all "entities" are managed within the software. Performance and load testing is a part of routine releases and results are publicly available.	There are places where all their routine data collection is done through ODK. We do also test performance and only release if there are no regressions.