

Question	Asker Name	Answer	Answer Name
Who are your client and engagement eligibility?	Staford Francis Mwambola	Most of our clients are government and implementing agencies that are implementing the World Bank projects.	Hadil Ali Mohammed Al-Ashwal
Do you work to visualize or model the overlapping confluence of fragile context factors beyond mapping each variable individually? If so, is there a common data-informed standard to appropriate weigh each variable in such an overlay model?	Zach Torres	On behalf of Bahar: "We use data from external sources such as ACLED, FEWSNET, etc to overlay it with granular project data, but we don't assign any weight to variables."	Jayme Charles
Do you work to visualize or model the overlapping confluence of fragile context factors beyond mapping each variable individually? If so, is there a common data-informed standard to appropriate weigh each variable in such an overlay model?	Zach Torres	Thank you for your response!	Zach Torres
Thank you, all	Staford Francis Mwambola		
I second Zach's question - as a means to build a comparative model country by country?	marydean purves		
How do you factor in traditional local knowledge in GEMs?	pios ncube	So we build a local capacity to collect data and all the data collection work is done by local agents based on the needs of their projects and programs. They use the knowledge of their country/region settings to design specific survey questions but also ensure that they understand the collected data in a local context.	Bahar Salimova
Is all data collected through World Bank GEMS made openly available for download and use?	Jacob Abramowitz	Is all data collected through World Bank GEMS made openly available for download and use?	Jacob Abramowitz
Is all data collected through World Bank GEMS made openly available for download and use?	Jacob Abramowitz	No, the aim of the trainings we provide is to build capacity of the clients. They own the data and they get to decide to share it with us. They only share with the World Bank the data that is relevant to the project that has been funded by it. However, some decide to share it publicly	Hadil Ali Mohammed Al-Ashwal
I'd love to hear how you are mapping and measuring food insecurity in your Somalia example. Thank you!	tim BUCKLEY	live answered	Bahar Salimova
I'd love to hear how you are mapping and measuring food insecurity in your Somalia example. Thank you!	tim BUCKLEY	The Somalia dashboard is an interactive dashboard that pulls data from different sources including World Bank project mapping (set up by GEMS team) and the UN agencies implementing WB funded projects in Somalia. The dashboard provides real-time insights on the lay of the land (distribution of project locations) as well as other corporate level information useful to task teams such as amounts disbursed, sources of funding, etc. There's also an FCV risk monitoring component that overlays World Bank investments with risk indicators to provide a holistic approach to risk levels where the investments are being implemented. In addition, the food insecurity data is based on polygon shapefiles that are imported from a FEWS NET database. They represent the different IPC levels ((1) Minimal/None, (2) Stressed, (3) Crisis, (4) Emergency, (5) Catastrophe/Famine). The polygons represent a 3-month time period. Given FEWS NET comes for USAID, it is a good example how we can leverage each other's work.	Bahar Salimova
How does GEMs engage local communities in data collection and analysis?	pios ncube	Our engagement is mostly with the government agencies and implementing agencies in different countries that are engaged in the World Bank funded projects. Through our trainings we support them in strategizing how to engage with their local communities rather than us engaging with them directly	Hadil Ali Mohammed Al-Ashwal
Thanks for this informative seminar. Please share contact information for reaching out for training needs and collaboration.	Anonymous Attendee	<a href="http://www.worldbank.org/gems">Thank you. Here is the link to our website which includes contact details: www.worldbank.org/gems</a>	Hadil Ali Mohammed Al-Ashwal
Who owns the data?WB, partners or the beneficiaries? How is data monitored to benefit local communities?	Anonymous Attendee	A big part of what we do is help build the capacity of local agencies. For the data that is relevant to the projects. Both WB and (governments & local agencies have access to the data). But even after the project ends, a lot of our clients decide to continue using GEMS. In this case they own the data and they get to decide if they want to share it with the World Bank or have it public	Hadil Ali Mohammed Al-Ashwal
Should we think of GEMS as a (ready-made) tool, a methodology or rather of an approach that needs to be customized and set up each time anew?	Roland Steinmann	It is a methodology that is flexible to be used depending on the need/situation	Hadil Ali Mohammed Al-Ashwal
Should we think of GEMS as a (ready-made) tool, a methodology or rather of an approach that needs to be customized and set up each time anew?	Roland Steinmann	Great, thanks for clarifying.	Roland Steinmann
Should we think of GEMS as a (ready-made) tool, a methodology or rather of an approach that needs to be customized and set up each time anew?	Roland Steinmann	Also, to clarify that we are not a tool, but rather a capacity building program where we choose tools depending on the needs of our clients and also adapt our standard approaches to ensure there is a greater uptake/ownership.	Bahar Salimova
Excellent concluding statement - the need to collaborate and reduce the current data collection duplication in our countries. Everyone organisations go and pay to collect GPS coordinates of the same field. How can we invest in our countries, build their capacity to build a national data infrastructure that house these data points that any development organisation can access - either for a fee or free? That is one of the policy issues we are working on - national agricultural data infrastructure through a model of digital public infrastructure (DPI) to help reduce data collection duplication.	Benjamin K. Addom	Thanks, Benjamin. It is important for us to build these partnerships so that we not only help collect such data but empower institutions and governments to spend scarce resources to the fullest. Thus, coordination is very important. It would be great to learn more about DPI's work.	Bahar Salimova

What are the challenges during your implementation of these digital tools, specifically in remote areas where internet connection is not available?	Najmi Ahmed	It is worth noting that the data can be collected offline. The data collector only needs to have a connection to access the survey and fill it out. One challenge that comes to mind is obtaining buy-in from local agencies to transition from paper-based data collection to digital methods	Hadil Ali Mohammed Al-Ashwal
What are the challenges during your implementation of these digital tools, specifically in remote areas where internet connection is not available?	Najmi Ahmed	How does your information reach northern Kenya? I am in northern Kenya. We almost lost 90% of our stock drought. Had we had the warning, we have saved some of our stock. Kindly let me have your contact to find a way of relaying your climate warnings to my northern Kenyan people. Thanks. John Dida	John Dida
What are the challenges during your implementation of these digital tools, specifically in remote areas where internet connection is not available?	Najmi Ahmed	live answered	Abdou Ali
What database are you using ?	Md. Aktaruzzaman		
what are the requirements for other NGOs to partner with you to deploy this technology?	Emmanuel Kwizera	what are the requirements for other NGOs to partner with you to deploy this technology?	Emmanuel Kwizera
what are the requirements for other NGOs to partner with you to deploy this technology?	Emmanuel Kwizera	<u>GEMS is a capacity building program that uses several tools and technologies depending on clients needs. Some of the tools we use are KoboToolbox, PowerBi, and ArcGIS. So we don't own the technologies ourselves. In terms of partnering with local NGOs, please check our website to learn more about our work and see if there is an opportunity to collaborate depending on the work you are doing. www.worldbank.org/gems</u>	Hadil Ali Mohammed Al-Ashwal
what are the requirements for other NGOs to partner with you to deploy this technology?	Emmanuel Kwizera	Thanks, this is very helpful !	Emmanuel Kwizera
GEMS tool requires good internet connectivity? Right? How can we use it where internet connectivity is limited or not available at all?	pios ncube	I can't comment on GEMS, but on KoboTools: Kobo works online and offline, so you don't need internet connectivity while collecting data in the field. Just from time to time to upload what you collected	Roland Steinmann
GEMS tool requires good internet connectivity? Right? How can we use it where internet connectivity is limited or not available at all?	pios ncube	GEMS uses Kobo for data collection. You just need internet to have the survey ready and upload the data collected as Roland mentioned	Hadil Ali Mohammed Al-Ashwal
What connectivity you maintain to dump data from kobo to your database? Is it through any service?	Md. Aktaruzzaman Shobuj	We are more of a capacity building program. So the data isn't ours to use. But clients sometimes decide to keep the data in kobo and others decide to use their own servers	Hadil Ali Mohammed Al-Ashwal
Please share insights from interventions, if you have any from animal health or One Health areas. How can we explore possibility for partnerships to explore digital intervention. WOA and World Bank have cooperation agreement already.	Rahul Srivastava		
What is the linkage between this tool and the ArcGIS solutions. I know ArcGIS can provide these technologies what is new ?	Emmanuel Kwizera	What is the linkage between this tool and the ArcGIS solutions. I know ArcGIS can provide these technologies what is new ?	Emmanuel Kwizera
What is the linkage between this tool and the ArcGIS solutions. I know ArcGIS can provide these technologies what is new ?	Emmanuel Kwizera	GEMS uses several tools including ArcGIS. We mostly use Kobo toolbox for data collection. PowerBi and ArcGIS for data visualization	Hadil Ali Mohammed Al-Ashwal
Do you have lessons learned and/or good practices on how to create a collaborative environment among different donors and projects to share information on who does what in the territory and have this information share among the organizations and local authorities?	Miguel Cabal	Yes, this is part of our support we provide is best practices when it comes to data collection strategy which we provide during our trainings and engagement with clients.	Hadil Ali Mohammed Al-Ashwal
Do you have lessons learned and/or good practices on how to create a collaborative environment among different donors and projects to share information on who does what in the territory and have this information share among the organizations and local authorities?	Miguel Cabal	Yes, setting up a data collection strategy and training all actors help for a more collaborative approach and deployment with all actors of a project.	Mokshana Wijeyeratne
Greetings, I wanted to know if the technology of smallholder farmers can understand the GIS technology and use it for their own benefit, such as crop productivity to monitor weeds, pests?	Khalif Ochieng	we use simple technologies such as phones to take pictures and geo-locate activities. This helps with easiness of adoption even among those who may not be tech savvy.	Hadil Ali Mohammed Al-Ashwal
Do you use any staging environment between data collection & dashboards?	Bethlehem Tekla	The data that our clients collect, is collected in KoboToolbox and then (if needed) transferred to PowerBi. Our data collection platforms are API-based, we run ETL processes via Python scripts and sometimes directly within PowerBi using DAX/PowerQuery	Bahar Salimova
Can you share details on modeling approaches used for sketching interventions?	Apama Phalke	Can you share details on modeling approaches used for sketching interventions?	Apama Phalke
Is GEMS tech useful in agricultural projects?	Emmanuel Kwizera	Is GEMS tech useful in agricultural projects?	Emmanuel Kwizera
Is GEMS tech useful in agricultural projects?	Emmanuel Kwizera	Where do we get these hands out or presentations and how can we contact you if we need this training for our teams?	John Dida
Is GEMS tech useful in agricultural projects?	Emmanuel Kwizera	Hello! We will send the slides shortly after the event. You can also find the slides and recordings on both Agrilinks and ResilienceLinks soon after the event.	Jayme Charles
Is GEMS tech useful in agricultural projects?	Emmanuel Kwizera	<u>Emmanuel, yes, GEMS is useful in an agricultural context. You can read more in this blog from the World Bank on Agrilinks: <a href="https://agrilinks.org/post/empowering-agriculture-using-technology">https://agrilinks.org/post/empowering-agriculture-using-technology</a></u>	Jayme Charles

GEMS uses pwer Bi and ArcGIS online which are commercial softwares. Can we say GEMS uses open source application from the data collection to the visualization level?	Mulugeta Tadesse	technically KoboToolbox can visualize the data s well, which is an open-source tool. Many of our clients end up using it to visualize and even analyze the data sources. When the data analysis becomes more scaled up and government has capacity and desire to get a more sophisticated to, we help with PowerBI, which is a Microsoft tool and as we know many agencies heavily use Microsoft.	Hadil Ali Mohammed Al-Ashwal
How do you ensure validity and reliability of data?	Padma Singh	This is a question i've been thinking of, as well. How reliable and valid is the data collected?	Regina Brown Mensah
How do you ensure validity and reliability of data?	Padma Singh	As part of our training, we provide best practices to ensure data reliability. For example, we recommend limiting responses to a specific number. Additionally, it is important to ensure that you have the contact details of the data collector so that you can reach out to them if data cleaning is required. Moreover, it is crucial to make sure that questions are clear and directed to the appropriate individuals	Hadil Ali Mohammed Al-Ashwal
How do you ensure validity and reliability of data?	Padma Singh	The Questions can be designed to ensure validity and training is provided how to also collect data in a manner that is clear and can be validated. We do still use some level of physical monitoring and verification to support the gems based monitoring for instance on E and S compliance.	Mokshana Wijeyeratne
A question for Abdou Ali - how do you communicate this information to the farmers? How much do they trust it?	Alison Hall	A question for Abdou Ali - how do you communicate this information to the farmers? How much do they trust it?	Alison Hall
Are the methods or model used by agrehemet replicable to other parts of the world	Phakamani Sithole		
Ref CILSS: How do you operationalise the analysis and data? How do you get the farmers to change their processes and timing as a result of your work? Natural hazards are one extreme, the other extreme is human induced hazards eg conflict etc - do we have an effective Early warning system for human induced hazards?	tim BUCKLEY pious ncube	This is a really great question and obviously many of us are trying to find a best way to engage. I don't think there could be one solution that fits all the needs, but rather we need joint efforts to build community-based early warning systems and enage with communities to ensure their preparedness to such hazards. To understand their needs, their levels or preparedness and the ability to respond and share critical information ahead of it. Our work in Somalia is just one example how we bring several data sources to help our World Bank team to monitor risks and issues to build such warning systems in our work.	Bahar Salimova
Can an agripreneur have access to the Gems? cost	Anonymous Attendee	KoboToolbox is free (up to a certain number of surveys, I believe). Probably covers much if not all you will need as a starter,just my humble opinion	Roland Steinmann
What interval period is recommended for climate data composites?	Zach Torres		
Seasonal forecasting and analysis must cascade down to the smallest planning Unit eg a village in Africa, Dr. Abdul, how do you ensure this in your Seasonal and sub-seasonal forecast work?	pious ncube		
One of the most significant issues to address when building capacity at the Country Office level is securing senior management team (SMT) engagement to sustainably resource the capacity being built and effectively integrate the capacity into SMT decision making processes. Tech and data are great, but without SMT buy-in, many initiatives simply fall over at the end of the project. Can speakers talk to their experiences of this challenge and how they have overcome them?	Richard Brittan		
Is SERVIR weather forecast data available for other users, including to those not on PlantVillage?	Anonymous Attendee	Yes, so far they are available for users in West and East Africa.	Shraddhanand Shukla
Is SERVIR weather forecast data available for other users, including to those not on PlantVillage?	Anonymous Attendee	Thanks. how to access? Any link?	Lava Kumar
Is SERVIR weather forecast data available for other users, including to those not on PlantVillage?	Anonymous Attendee	<a href="https://www.chc.ucsb.edu/data">https://www.chc.ucsb.edu/data</a>	Derek Morr
And forecasts are at <a href="https://www.chc.ucsb.edu/monitoring">https://www.chc.ucsb.edu/monitoring</a>	Derek Morr		
Will the Live recording be shared to all participants? Thanks	Roberto Martinez	Hi Roberto. Yes, the recording will be emailed to everyone who registered and be shared on both Agrilinks and ResilienceLinks.	Jayme Charles
Has USAID used this already to determine ZOIs? Or is this still in pilot stages and will be used in the future?	Elizabeth Adams	live answered	Kyle Alden
Has USAID used this already to determine ZOIs? Or is this still in pilot stages and will be used in the future?	Elizabeth Adams	Hi - We are currently using this approach - many of our countries have drafts that have used this approach, but they're not finalized.	Kyle Alden
Questions to Shraddhanand. How can we effectively communicate to the public the uncertainty associated with weather forecasts in a manner that does not create doubt and mistrust. We recently received forecasts about an impending el nino rains in Kenya which was,within a short time downgraded to normal short rains. This happened after substantial investments in mitigation measures	Anonymous Attendee		
Maybe I missed it, but can we get copies of the presentations? Many Thanks	Leo Bill & Emerson	Maybe I missed it, but can we get copies of the presentations? Many Thanks	Leo Bill & Emerson

Maybe I missed it, but can we get copies of the presentations? Many Thanks	Leo Bill & Emerson	We will send an email to everyone who registered with the slides and recording. They will also be available on both Agrilinks and ResilienceLinks.	Jayne Charles
Maybe I missed it, but can we get copies of the presentations? Many Thanks	Leo Bill & Emerson	Great	Jennifer Mujuni
How can we join With the GEMS team workin on a lot of arena. Thanks for the facilitators and presentors.	Tsegaye Sewinet	Great info and learning in todays presentations.thank you	Jennifer Mujuni
Hi, How these data is being capitilized for Sustainable goals and Food Security during the unpredicted environmental conditions. Can these give a prediction for the next couple of years where population displacement will be severe due to environmantal impacts	vilas jorj		
When is the GIS training again?	Ashenafi Tadesse		