

Health

2016

D-tree international is a digital global health organization committed to solving the co health challenges of those in need through cutting-edge digital solutions. For nearly 19 years, D-tree has been a pioneer in digital health and has supported health workers so over 5 million families in 16 countries.

D-tree takes a systems approach, using public health and technology expertise to co develop and implement innovative and scalable solutions which strengthen health s improve program efficiency, and save lives. They work with ministries of health, don implementing partners to define programmatic thallenges exhaust if and how test and be used to address those challenges, and then design and build innovative solut iors, and

- Problem: As community health volunteer across Zanzibar, they capture vast amour clients that create millions of data points. s work with pregnant women an its of data – D-tree has tens of th
- Centers University of the strength of the s

"That led to an immediate call for policy changes in the region, where they were able to allocate money in the budget differently to provide funding for this specific product. And now people in that area are no longer having to pay for it themselves. That insight was really obvious when we jumped into the data in Periscope, and we were able to take some concrete action right away to make an impact."



Capturing & Analyzing Volunteer Data in Real-Time

Core has been working or a Aurobachi go Honrice to their of Honrices, responsering community health volumeters (CHA) with training, infrastructure, and technology systems to enhance their effectiveness. Due reprovides 400-CHA with an anraphone that is equipped with a workflow management mobile age that allows them to register pregnark women and track which the CHA which will them in their honrison. The CHA and the people they size as at disgened across two major islands, so using Perincepe Data heigs D-tree keep track of the work CHA's do Mingout the region.

where carry does no vogence the cogoin. "These community health volunteers are highly respected members of their community have are passionate about making an impact," said Sam Lilienfeld, Technology & Data Manager at D-tree. "But they aren't doctors or nurses - they aren't formally trained, So using insights from Perscope to help them deliver health services to people in their community, even without that formal education."

community, even without that formal education.⁴ Con of the major relate of therizope blas in their workflow is in sharing data with local governments. Derive's data serves as one of the lest storaces of community health elementation for Zanabart Minitry of Health Commernian Information systems are usually less finables when it comes to providing more costonized analysis to a wider audience within the government learners. In every district of Zarobias, so they have onpains does to the health management teams in very district of Zarobias, so they have onpains does to see or data and uduestant the magnitude outputs of one head communities.

D-tree's Zanzibar operation has a three-person technology team that regularly creates in dashbarets and looks for insights in Periscope Data, but their whole 15-person team consumes the context or a daily basis. In defast and regularly use Periscope to tack on CRI to ensure they complete regulare table (such as home-wishis) every mentin, while program managers and sense in dedership keep an eye on project outcomes and impact.

region and a service mean any need an engine on project consolution in an impact to the service in result by the many data point all on comparisations," stall builteriskil, "All our st government partners who want to use analysis get it through Periscoge, and they can instandly as the data comes in firming and CPA to renarize share analysis of an in the field. And we use it for operationaliting everything -from volumeter persistion to monthly activity tracking, that's all calculated based on the data we use and analyse in therecoget."

nproving Health & Saving Lives

Improving R-earlier of S-arring Lives. Anapiro focus of D-res with 7 zarobias in material and child health. CHW register pregrate atomosis into the program and follow them through the polyadruse period. At focus with the monitory particing the results of source and the polyadruse thereingo health D-the molitage of source priority with the healthcare fuellings versus health D-there are advanced by participation with a label and regulated the access Ministry of health's strategy for improving material and neosatal health outcomes and material data in real-immediations the D-tree team to evaluate the success of the ministry of health's strategy for improving material and metated the advances of the material data in real-immediation the D-tree team to senature the success of the ministry to influence to the data in the other of the more team of the ministry of health's strategy for the D-tree team to senature the success of the ministry to influence to the data in the D-tree team to senature the success of the ministry to influence to the data in the success of the ministry to influence the data in the data in the D-tree team to senature the success of the ministry to influence the term of the data in the influence team to senature the success of the ministry to influence the data in the data in the data is the data in the success of the ministry to influence the data in the data in the data in the success of the ministry to influence the data in the data in the success of the ministry to influence the data in the data in the success of the ministry to influence the data in the data in the success of the ministry to influence the data in the success of the ministry to influence the data in the success of the ministry to influence the data in the success of the ministry to influence the data in the success of the ministry to influence the data in the success of the ministry to influence the data in the success of the ministry the data in the data in the success of the ministry the data in

memore our onnextree to us to evaluate an entry is not a set you have been approximately in a chart. So many the steps in the analytics process are as simple as they can possibly be "said Lilended", us, that mean if were are reporting that they for sking possibly can guality care, that's someth we can see quickly in Periscope and find ways to address those issues."

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"That led to an immediate call for policy changes in the region, where they were able to allocate money in the badget differently to provide funding for this specific product; 'as licelifed." And nove pole in that areas are no longer hanging to pay for it themselves. Th insight was really obvious when we jumped into the data in Periscope, and we were able take some concrete action right away to make an impact."

"It Just Works"

Ullenfeld was already familiar with SQL before starting at D-tree, which made his onboarding process with Periscope Data quick and easy. But he says the biggest adu ferriscope is its usefulness even for those who don't have any previous experience data analysis.

The overall simplicity and ease of the platform is hugely important for us," said Lilienfeld. "Public health experts on our team who aren't technical but are interested in data can mak sisualizations with Periscope and easily explore data in our database in a user-friendly way

vosuntauronis with versiscope and easily explore data in our database in a user friendly we Lillenfeld faced challenges prior to implementing Periosope with presenting the results of complex analyses in a wy that supervisors cold easily comsume. That with Periosope but they're replaced a very manual process of checking all hone data sources for consistency with a process that indusively thring data sources together in one platform and enables everything from basic data visualization to advanced analysis.

Our app helps us track whether project supervisors held a series of monthly meetings, here are multiple sources of data that can indicate whether that happened," said Lilient We had all the data we needed from the app, but we used to just email our Exel sheets trattchments that were rankly opened. Now, with Perriscope, our team knows there's one link, one place they can go for that analysis, and we can easily update it every month with environments.

A Foundation for Actionable Information & Growth

D the also credits its smooth data workflow to Perscope Data's intuitive interface, ease of sharing report, and strong security and privacy settings. Ulliented regularly leverages the danced security and privacy control in Perscope to password privace databloads and then share them out with health efficials. D tree is also closely connected with the award writing support treatment from Perscope Data. Using the chat functionality to galdky answer any questions and better understand the product.

The output of the start and water water water and the protoci-ty to output to the start and mellinks to interested groups with all the data they care ab-and for use don't have a toor of technical resources, to the heat accurdy and point affections building and infrattructure is range (apped) start all lefted for adverses there's a big start affections. University the event heat and response, both thouses there are all the start and there are all the start and the start an

towing forward, Lillenfeld is excited about leveraging Periscope Data as the production mirionment for delivering actionable information to a variety of stakeholders. Currently, lisefield's team uses Periscope's integration with Python to regularly build out new apps. nain views together, and link them with Python code.

Fre in the process of scaling up our projects to potentially include five times as many unters or more in the corring months," said Likenfeld. "And as we scale the project, the ume of data we collect is going to grow correspondingly. Periscope has worked really if or us and rill be an important part of our continued growth."