Uwezo Interactive Visualisations
Terms of Reference

Background: About Twaweza and Uwezo

Twaweza means "we can make it happen" in Swahili. We are an ambitious initiative that started in 2009, working on enabling citizens to exercise agency, promoting governments to be more open and responsive, and improving basic learning for children in Tanzania, Kenya and Uganda. We are now into the second phase of our ten-year initiative, on the foundation of the rich lessons and experience from the initial years.

The Uwezo initiative is a "citizen movement" approach to assessing literacy and numeracy levels in East Africa. The initiative involves monitoring basic literacy and numeracy levels of children aged 5-16 years across at least 50% of the districts in Kenya, Tanzania and Uganda through a household-based survey. The survey process and the findings aim to make parents, students, local communities and the public at large more aware of the actual levels of children's capabilities in reading, writing and arithmetic. Increased information, awareness and pressure is intended to inform wider public policy debates in the media and encourage governments to improve the quality of education by focusing more on learning outcomes.

Since the Uwezo initiative began in 2009, a huge quantity of data has been collected. Much of this has been analysed and published in annual learning assessment reports and other printed publications. However, with growing access to the internet across East Africa, there is an opportunity to publish the data online in new and interactive ways.

Objective:

The main objective of this work is to develop an interactive visual tool that enables a wide online audience to gain insights from Uwezo data on basic learning and related matters in East Africa, beginning with a trial for Tanzania and progressing to Kenya and Uganda (depending on Twaweza's assessment of the success of the Tanzania version.

Specific tasks and outputs:

1. To develop an online interactive visual tool that showcases Uwezo and related data, enabling users to:
    a. understand the Uwezo sample characteristics;
    b. explore the most recent data on learning outcomes across three subjects (English, Kiswahili, Numeracy) for different groups of children, including breakdowns by gender, age, school years, regions and districts (but not ward, village or school), wealth, urban/rural setting, government/private/no school, mother's education, nutritional status, and other variables according to the available data;
    c. explore Uwezo data on school-related matters, including school facilities, teacher absenteeism, pupil absenteeism and other variables according to the available data;

d. compare learning outcomes between particular districts of a user's choice
e. explore levels of parental involvement in their children's education;
f. where possible, to explore trends in learning outcomes and other indicators (including teacher absenteeism, parental involvement, etc.) across different survey years, with breakdowns by different demographic groups including gender, age, wealth, urban/rural, region, district, and school type (this aspect involves integrating multiple years of data so should be costed separately);
g. explore a sub-set of Uwezo data about other topics than education including major economic activities by district, access to electricity etc. Ideally this sub-set of data could be added to easily, offering the opportunity to showcase different indicators or facets of the data;
h. to share user-generated visuals via email, facebook and twitter, and to download in pdf form;
i. to download the entire dataset for a given year as well as the individual datasets for specific charts or visuals (csv).
2. To ensure all the above content is available through a single tool, easily embeddable into the Twaweza website. The *Tableau* software would be suitable for this purpose.
3. Further discussions and negotiations will need to be had on the process for incorporating the annual updates of Uwezo data into the visualization tool.

Target audiences
- **Media** – journalists and editors, looking for general or detailed information to inform their news stories.
- **Researchers** – interested in a wide range of different analyses of the data.
- **Policy makers** – potentially interested in being able to easily access evidence / data on specific issues they are working on.
- **Citizens** – interested in information that is directly relevant to them and/or their families and communities. Though internet penetration is increasing in East Africa, these will still tend to be elites, better educated than average. However, simplicity of navigation and analysis will be particularly important for this audience.

In all these cases, the primary audience is those within the three countries. In practice, there may be other users outside the region, but their needs are to be considered secondary.

Time Frame
Timeframes are negotiable but the below represents an outline of the maximum timeframe available for this project.

Activity	Complete by
Contract vendor	20-Oct
Alpha version for testing and feedback	25-Nov
Presentation and feedback	10-Dec
Revision following testing	15-Jan 2018
Launch in Beta	10-Feb 2018
Further revision following feedback from initial users	28-Feb 2018

To apply please submit a short written proposal including budget and three examples of past work. The deadline for submissions is Monday 9 October. Please send applications to smasenga@twaweza.org