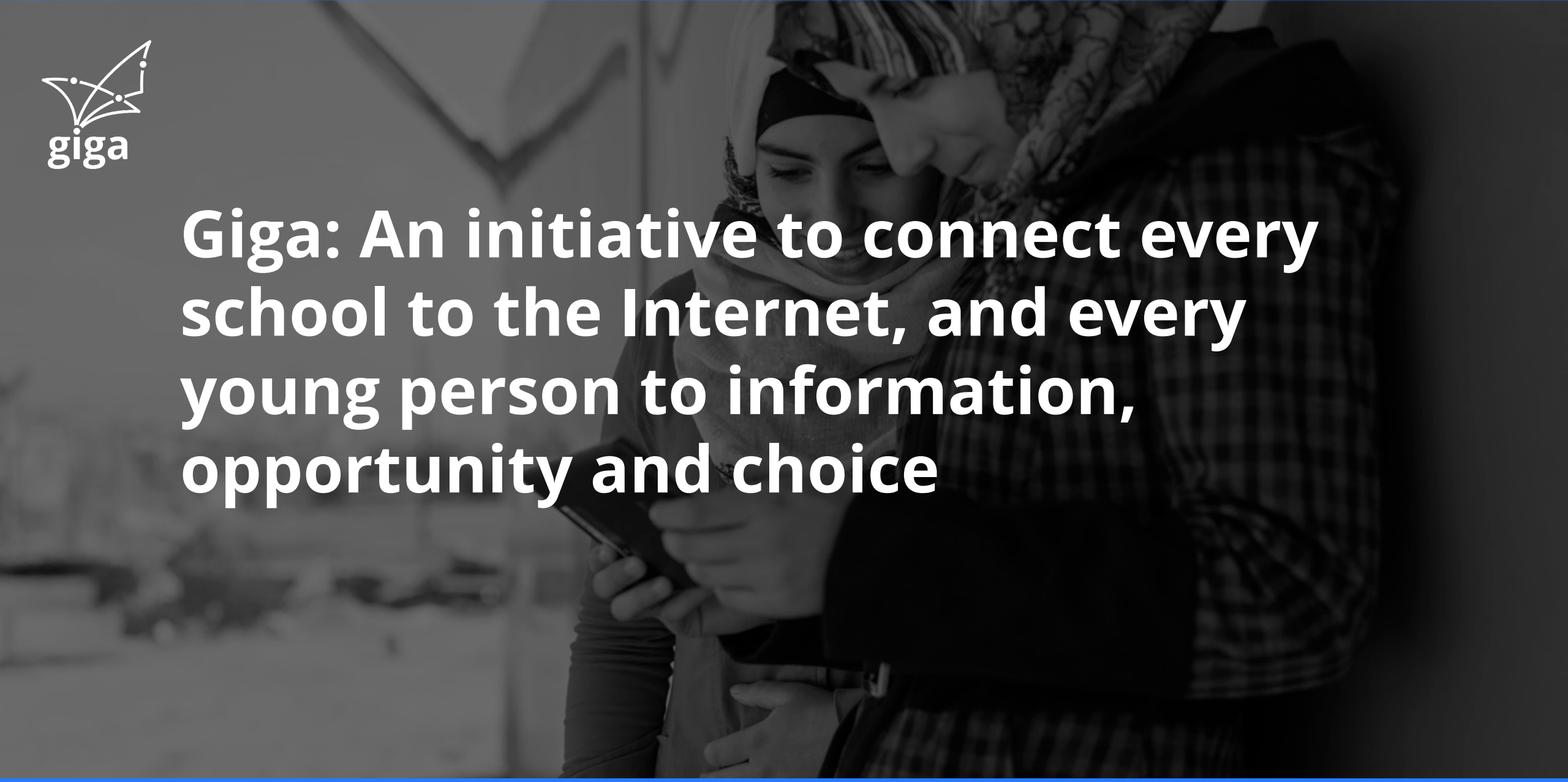


Giga: An initiative to connect every school to the Internet, and every young person to information, opportunity and choice

Giga is highlighted in the UN Secretary General's Roadmap for Digital Cooperation as a Key Way Forward to achieve Universal Connectivity*

RECOMMENDATIONS

1A: Every adult should have affordable access to digital networks

We recommend that by 2030, every adult should have affordable access to digital networks, as well as digitally-enabled financial and health services, as a means to make a substantial contribution to achieving the SDGs. Provision of these services should guard against abuse by building on emerging principles and best practices, one example of which is providing the ability to opt in and opt out, and by encouraging informed public discourse.

1B: Have a broad, multi-stakeholder alliance, involving the UN, create a platform for sharing digital public goods

We recommend that a broad, multi-stakeholder alliance, involving the UN, create a platform for sharing digital public goods, engaging talent and pooling data sets, in a manner that respects privacy, in areas related to attaining the SDGs.

** See https://www.un.org/en/content/digital-cooperation-roadmap/*

OVERVIEW

With Mapping well underway, Giga is now making progress across the Finance and Connect pillars…

Map

Maintain a real-time map of school connectivity to identify demand for infrastructure and funds, measure progress toward increasing Internet access, and continuously monitor global connectivity.

Finance

Work with governments and advise them on building affordable and sustainable country-specific models for finance and delivery, subsidizing market creation costs and incentivizing private sector investment.

Connect

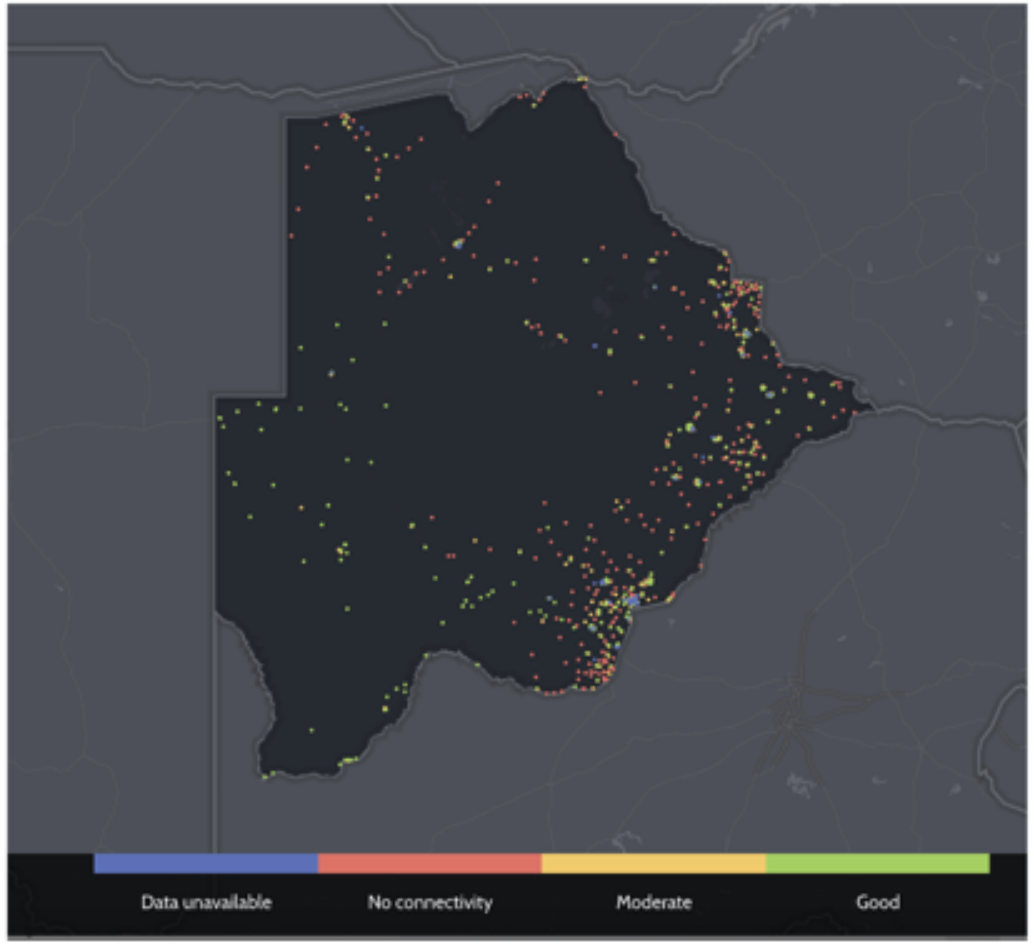
Advise on the best possible technical solutions to provide schools with connectivity, and countries with safe, secure, reliable, fit-for-purpose infrastructure to support future digital development needs.

Empower

Partner to ensure every young person has access to information, opportunity, and choice.

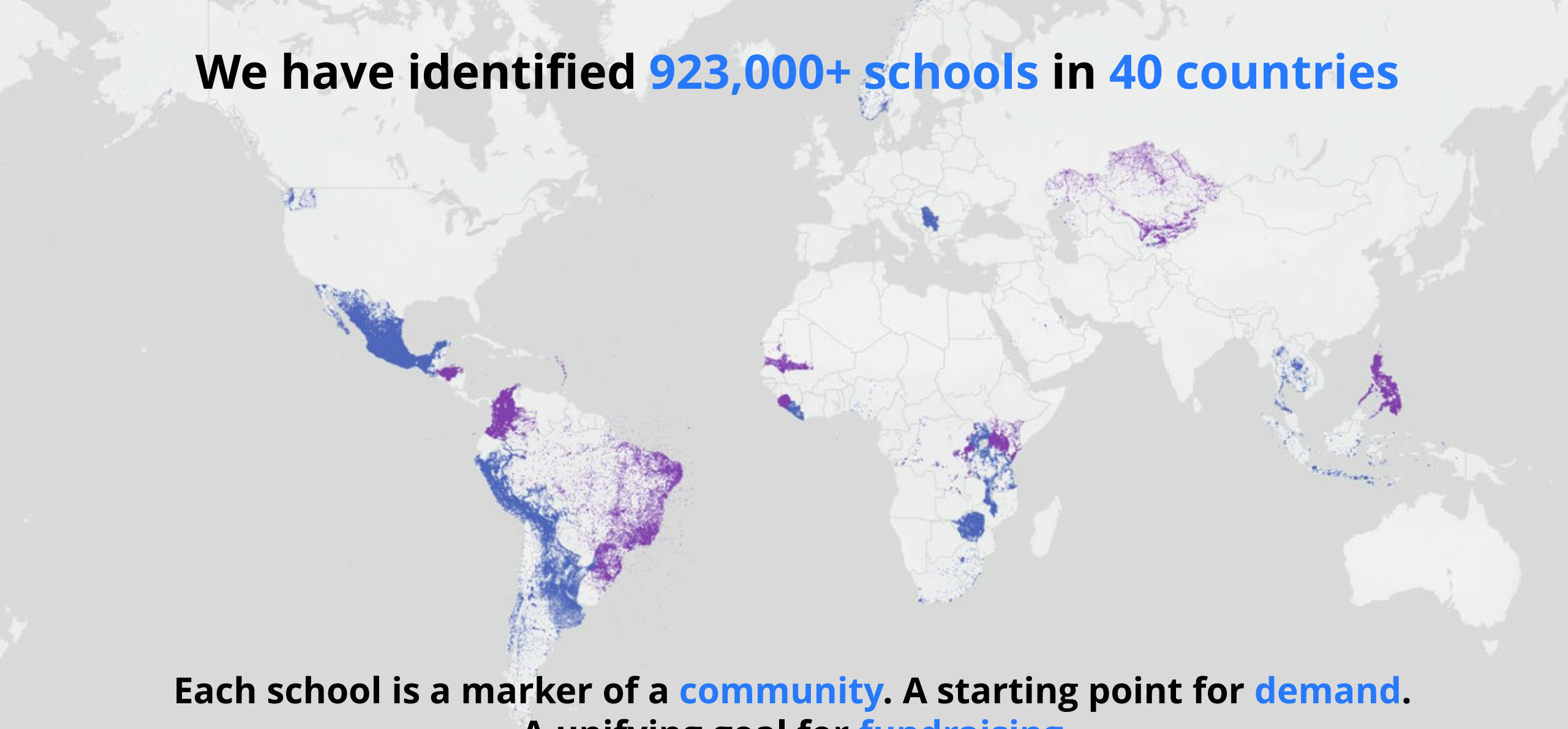
WHY MAP?

Botswana, support in school and technology selection



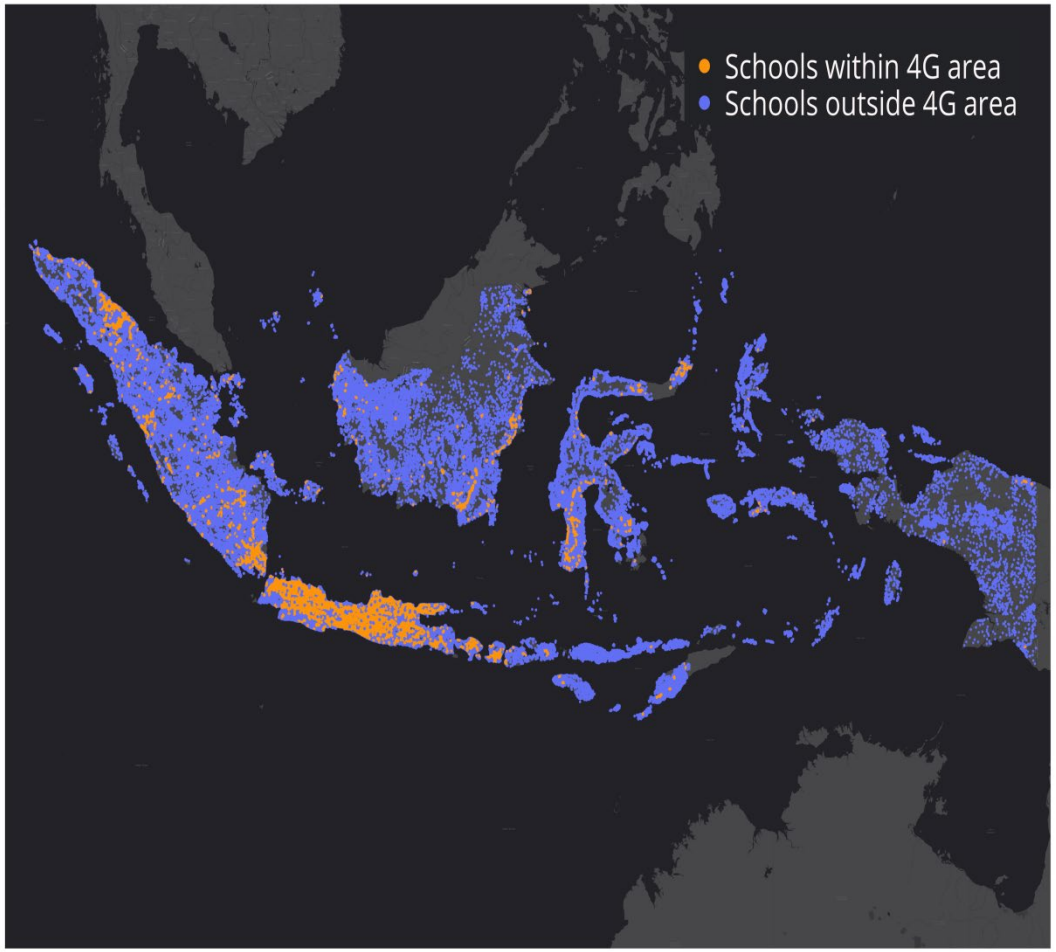
In Botswana, mapping data of 1,016 schools overlayed with additional infrastructure data, allowed Giga and the Government identify hardest to reach schools and advice on best fit technology solutions.

We have identified 923,000+ schools in 40 countries



Each school is a marker of a community. A starting point for demand.
A unifying goal for fundraising.
An anchor for infrastructure – for cell towers, satellite dishes…

www.projectconnect.unicef.org



The orange dots are school in Indonesia within 4G coverage area

With the launch of Giga in late 2019, UNICEF and ITU set a goal of providing connectivity to every school in the world.

We're on our way.

$22M+

raised

from global partners including Ericsson and Dubai Cares, and the Musk Foundation

19

countries joined

to connect over 86,000 schools and more than 25.8 million students and teachers

2,900+

prototype schools connected

by Giga partners: Kenya, Sierra Leone, Kazakhstan, Brazil, OECS ... and more soon

1M

schools mapped across 41 countries

and all viewable on the Project Connect platform

7

partners joined

Ericsson, Dubai Cares, Musk Foundation, Softbank, BCG, NIC.Br, Actual

$200M+

funding mobilized

to countries and UNICEF Country Offices to accelerate connectivity

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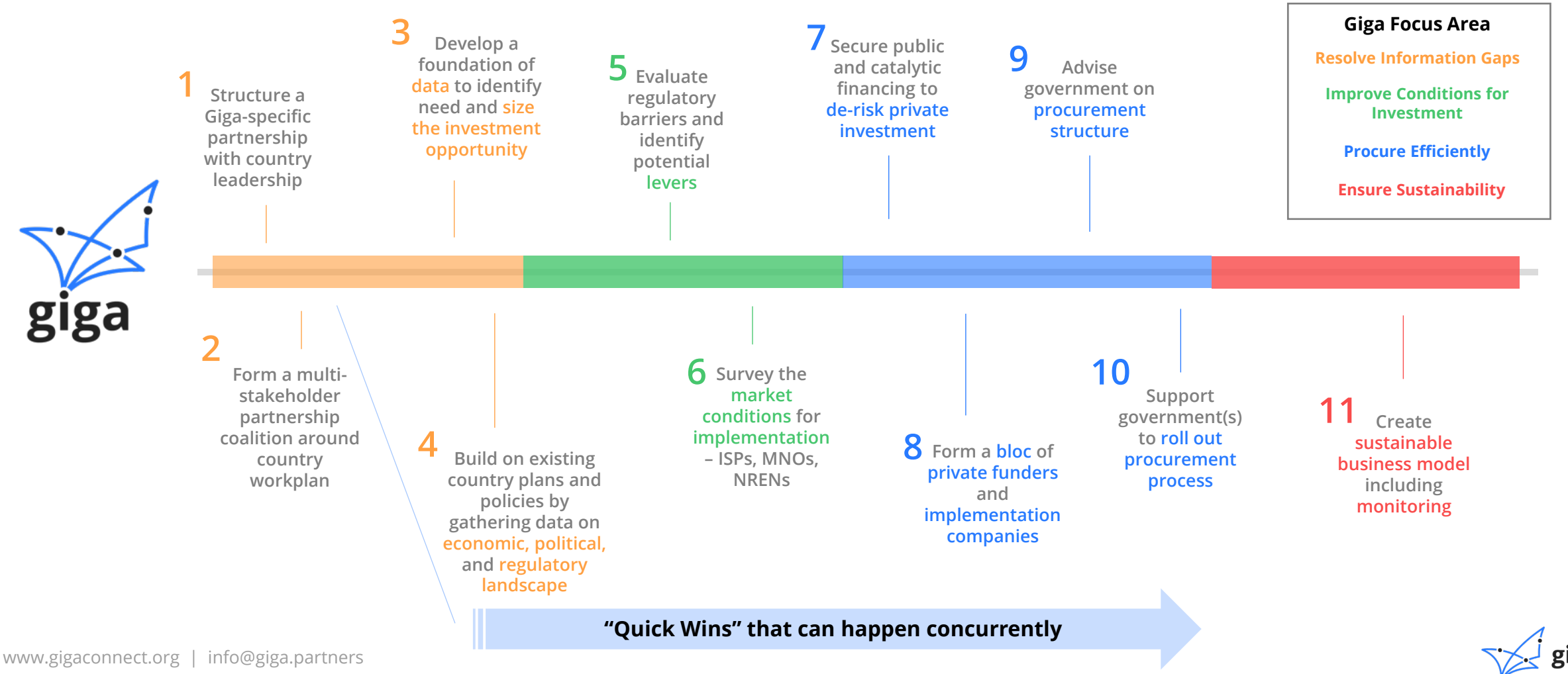
11 STEPS

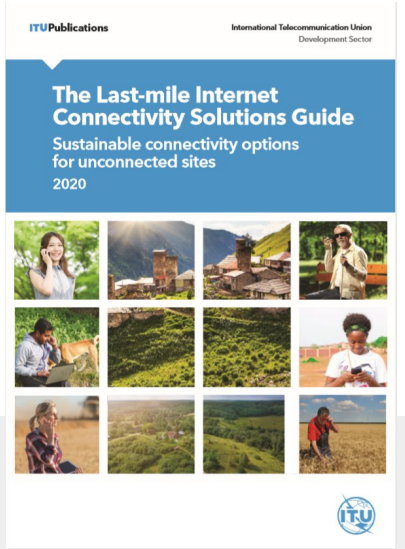
Runway to connectivity

**steps can be concurrent*

Giga provides services that support country governments to develop their case for investment through data transparency, regulatory reform, and public financing. On the other hand, Giga packages and develops investment opportunities in coordination with private funders and implementation companies to support a successful procurement process.



The Giga Initiative leverages the Last Mile Connectivity Solutions Guide to identify suitable solutions for ensuring connectivity



Step 1

Identify communities without connectivity

Step 2

Examine existing solutions

Step 3

Choose financially affordable solutions by balancing sustainability and constraints

Step 4

Apply measures to expand access to financially affordable connectivity services

Next steps

- Interactive software tools
- Support for capacity building
- Assistance in implementation

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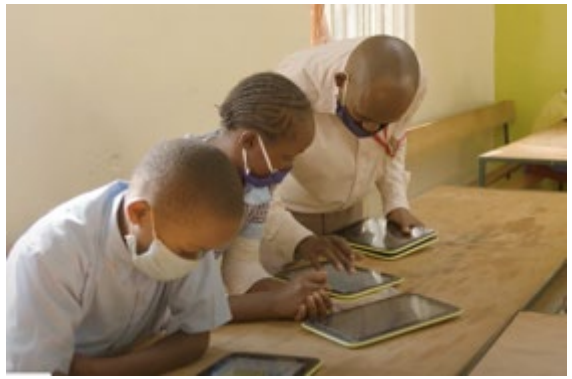
In 2021, Giga has connected an initial 2,913 schools and over 720,000 students

Giga is actively working in 19 countries across 4 continents – and growing!

A teacher connects to the internet using the Government of Kenya school laptop



A teacher helps a group of students connect to the internet using school DLP tablets

The internet WIFI is installed in the library for students to use

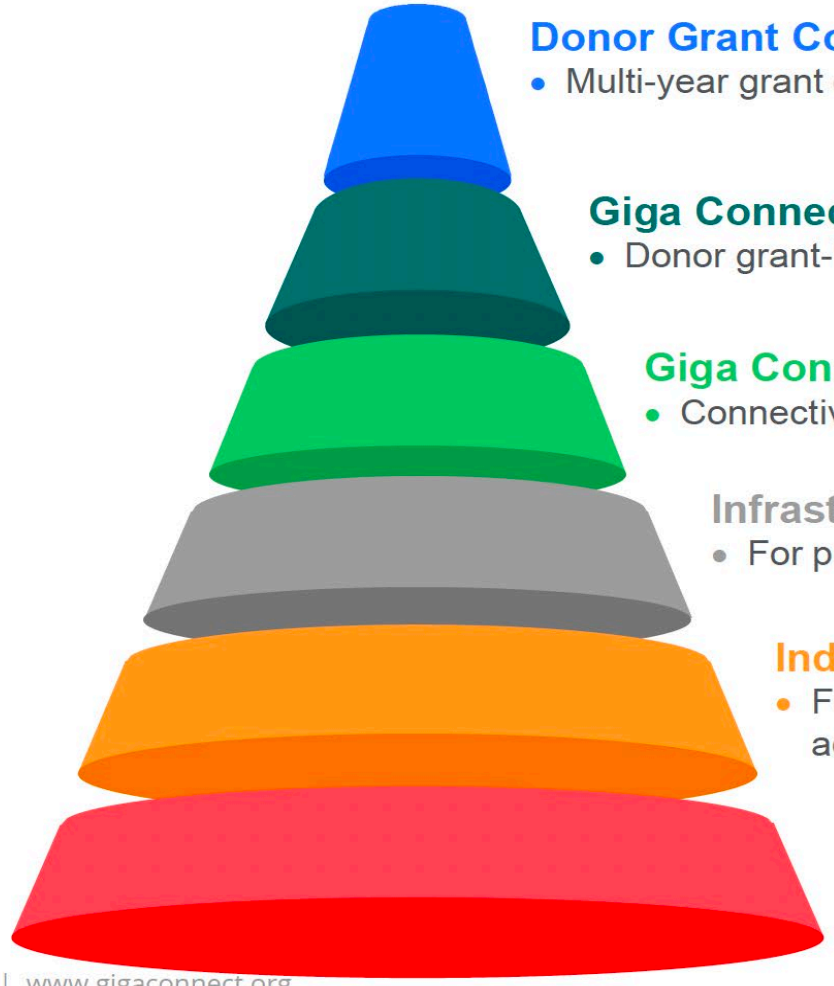
A student using a DLP tablet

Giga at Kigango Primary School in Kenya

Giga Bonds

Giga Initiative Drives Development Through Connectivity Investments

Giga Connectivity Bond will unlock the creation of investment and business opportunities that will further support connectivity and development



Donor Grant Commitments

- Multi-year grant commitments to Giga received from donors

Giga Connectivity Bond Issued

- Donor grant-backed bond issued by Giga to raise upfront funding

Giga Connectivity Rollout

- Connectivity projects funded directly by or in partnership with Giga using bond proceeds

Infrastructure Investment Opportunities

- For public and private sector leveraging upfront investments made by Giga

Industry Business Opportunities

- For telecom, tech companies, startups and others to capitalize on newly-connected addressable markets for connectivity, content provision, ecommerce, etc

Development Impact

- Across numerous SDGs, including Quality Education, Gender Equality, Decent Work and Economic Growth, Sustainable Cities and Communities

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ITU-FCDO Partnership in Indonesia

Foreign, Commonwealth & Development Office

Key Information

- ITU is partnering with FCDO for a 12 month project
- It is part of : Kenya, Nigeria, Indonesia and Brazil
- Focus on 4 technical areas:
  1. Regulatory Analysis, Framework and Tool Development
  2. Promoting sustainable models
  3. Promoting a more conducive environment for investment

  } Synergies with GIGA)

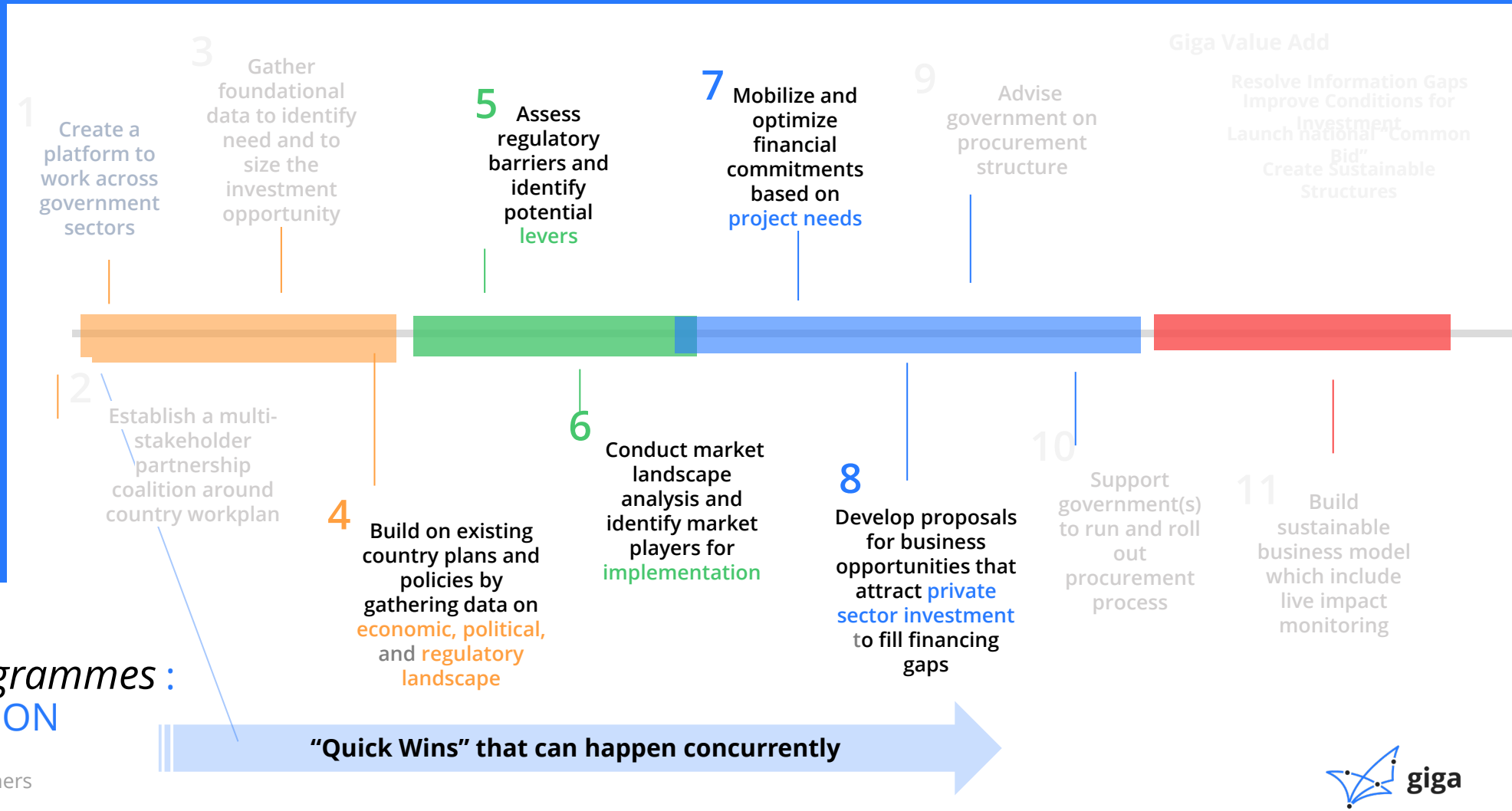
  4. **Advancing digital skills** *(leveraging other ITU programmes = Child Online Protection)*
- Activities in Indonesia is to be coordinated by ITU to lay the foundation for potential future Giga country engagement

Focus Technical Areas 1-3: Synergies with GIGA 11 Steps

Regulatory Analysis, Framework and Tool Development to support digital inclusion objectives in selected partner countries

Promoting sustainable models to expand school connectivity in underserved communities

Promoting a more conducive environment for



Focus technical Area 4:
Leverages other ITU programmes :
CHILD ONLINE PROTECTION

Progress Achievements

Representation:

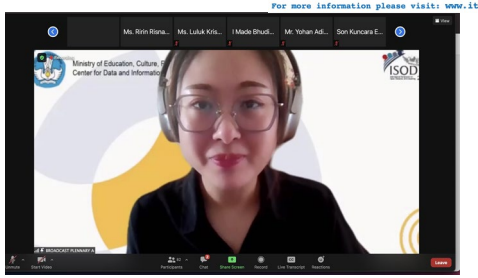
- ITU presented the project to KOMINFO (Ministry of ICT), provided in principle endorsement, a focal point has been appointed
- Bilateral meeting held with BAKTI and Ministry of Education

Assessments:

- Policy /regulatory landscape
- School connectivity framework and business process

Presentation

- ITU ASP Regional Dialogue (this event)
- Series of presentations: International Symposium on Open, Distance, and e-Learning (**ISODEL**) 2021, organized by Ministry of Education
  - Description of the interactive map,
  - Assessments Interim findings
  - Child Online Protection

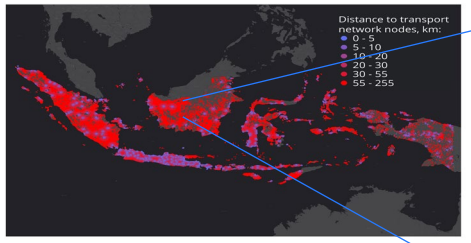


Key Achievements- Contd.

Activity area 2:

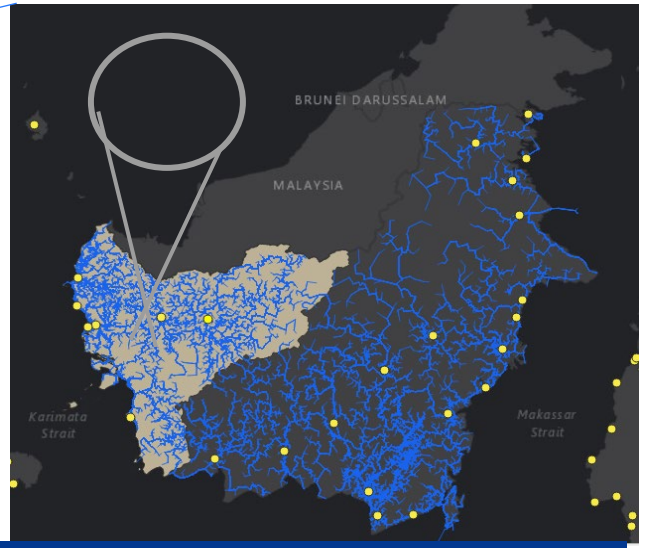
Interactive Map:

- Interactive maps developed based on available dat
- shared with DAP Indonesia
- Interactive map was presented to a symposium organised by Ministry of Education
- Letters have been sent to the Ministry of ICT, Ministry of Education and Department of Statistics to request data for mapping



13.7% within 10 km area to transport network nodes.

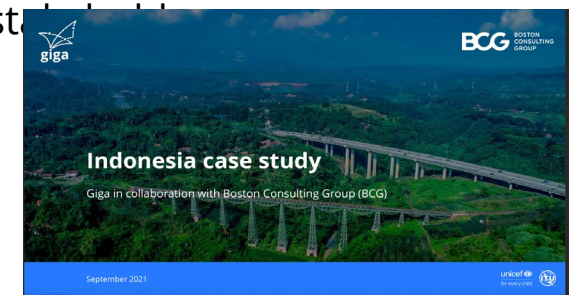
29.2% within 4G coverage area



- **6,367** schools.
- **19.4%** of schools (or 8% of students) no access to electricity.
- **21,8** thousand km is the optimal fiber network length.
- **81.6 m USD** to optimally connect with fiber optic cable lines.
- **20 m USD** of additional capex is required to supply schools with solar electricity.
- **99.7 USD** (80.1+19.6) is an average capex per student including electricity costs.

Sustainable Business Models

- ITU/BCG research on sustainable connectivity business model, featuring a case study on Indonesia, has been translated into Bahasa and will be presented to the Ministry and st



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Possible Way forward

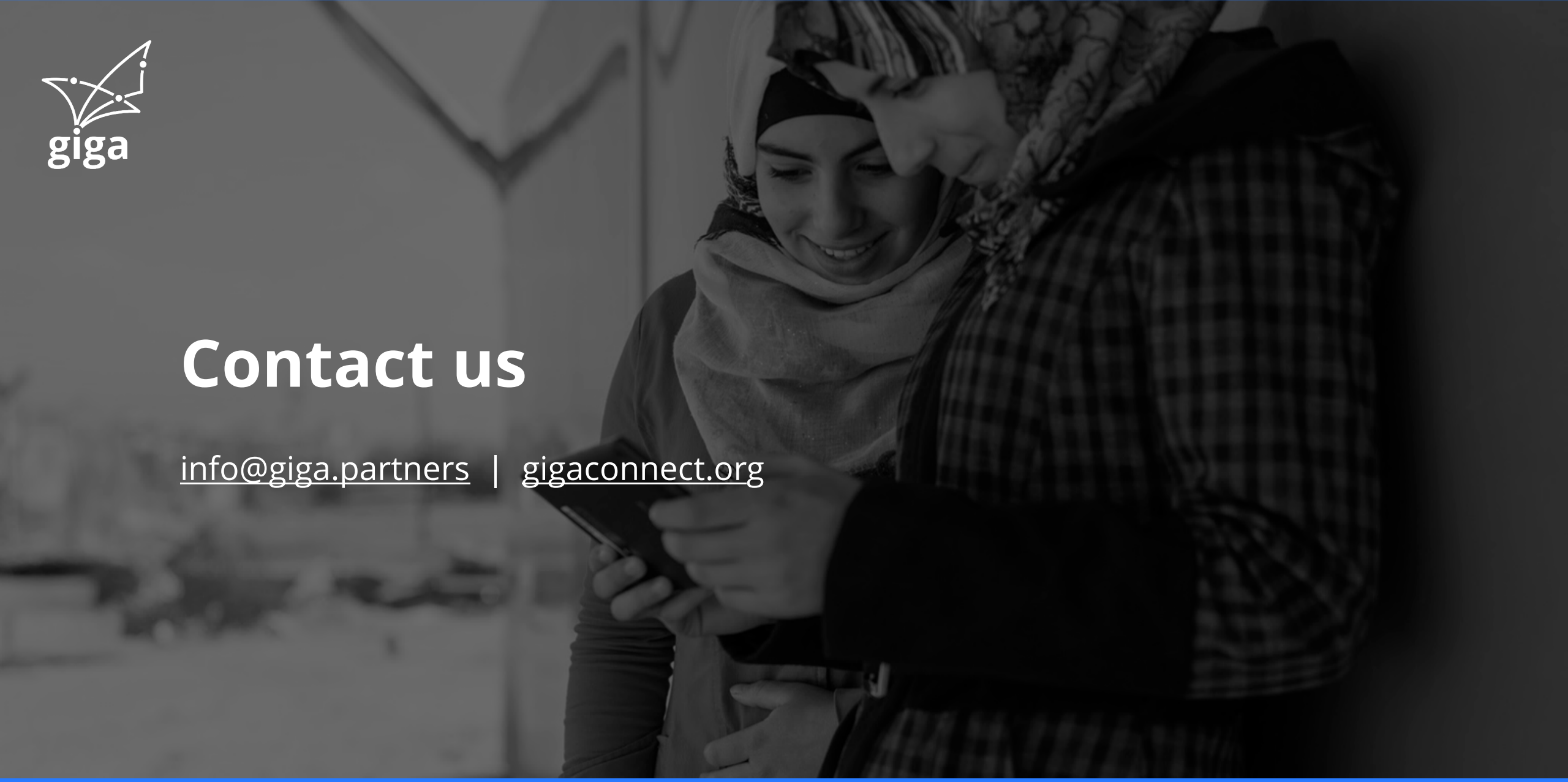
Prospective Consultative events:

- FGD with stakeholders on Policy / Regulatory Landscape
- Workshop on options on Sustainable Business Processes
- Training/workshop with practitioners (regulators, industry)
- Final multi-stakeholders roundtable

Other scoping :

- GIGA prospect for Indonesia ?
- Regional education policy dialogue with ASEAN/SEAMEO ?

Foreign, Commonwealth & Development Office



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