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The Barcelona Giga Technology Centre

High Level Discussions and Partnership
18 July, 2022, Barcelona

Not for public circulation

The Connectivity Challenge exists everywhere

- Nearly half of the **6 million schools** in the world are not connected to the internet today, mostly in the poorest countries and areas.

- More than **500M students have no access to internet.**

- Of the estimated **2.9 billion** unconnected people, the majority are women and girls (ITU, 2021).

- Giga is working hard to address these issues.

How Giga Works

1 **Maps** previously unmapped schools, and monitor connectivity in real-time using open-source AI/ML

2 **Finances** connectivity projects using the most capital efficient solutions available

3 **Connects** using the best possible technical solutions and the right enabling policy & regulatory framework to provide schools with sustainable connectivity, including planning, procurement and delivery tools and templates
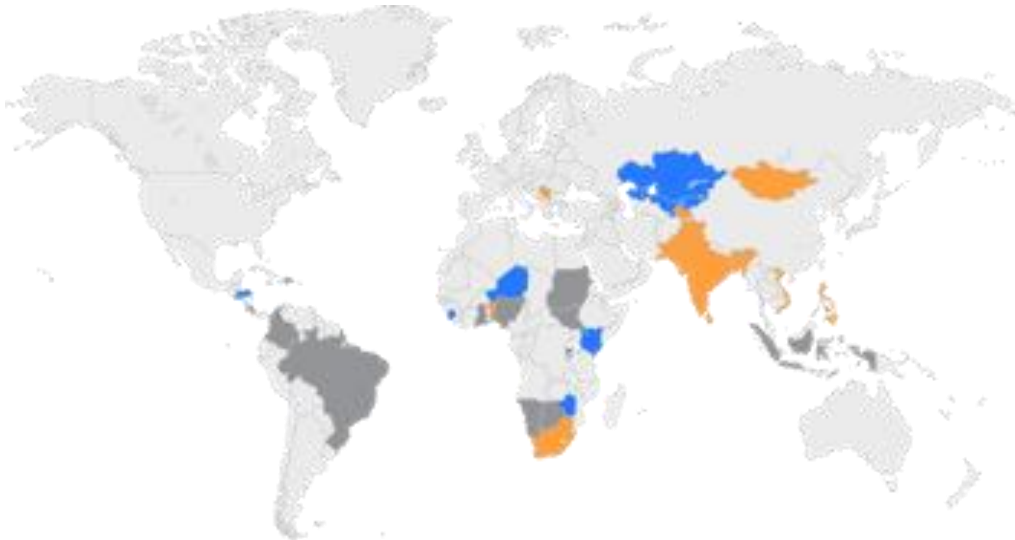
Giga is working in 19 countries (with President/ head of state buy-in). 35 more "in the queue"

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In the Giga Technology Centre we will build open source products including:

1. The Giga School Map

2. The Giga Infrastructure and Policy Planning platform

3. The Giga Connectivity Credits platform

... and more

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1) The Giga School Maps

www.projectconnect.world

1.2M+ schools mapped across 41 countries

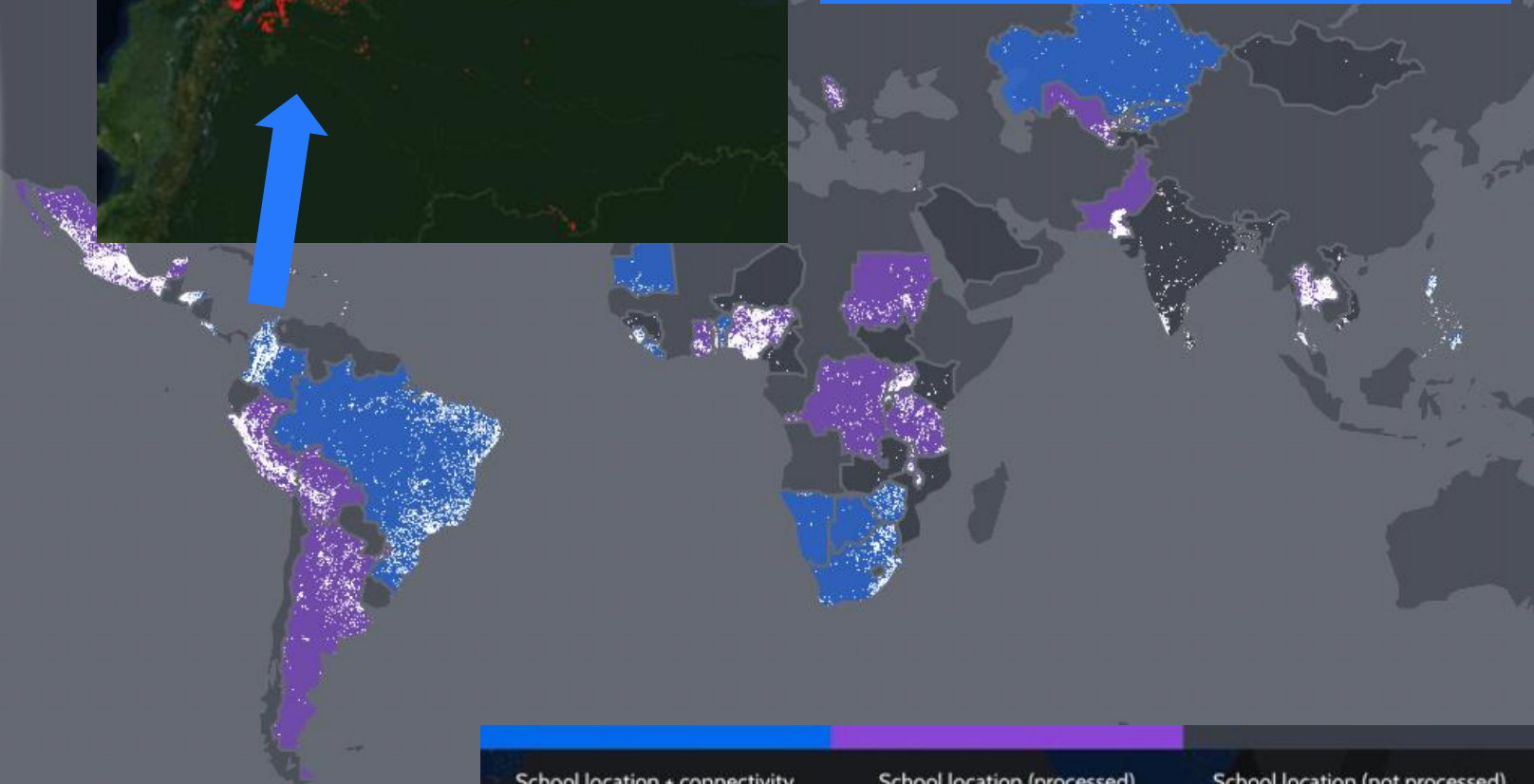**55,000+ schools** across 3 countries reporting daily live connectivity data

25 countries reporting quarterly on school connectivity

Giga helped the Colombian Govt locate 7,000 schools (all the yellow dots) using satellite imagery and machine learning and artificial intelligence.

The Spanish Giga Tech Center will let us extend this tool globally.
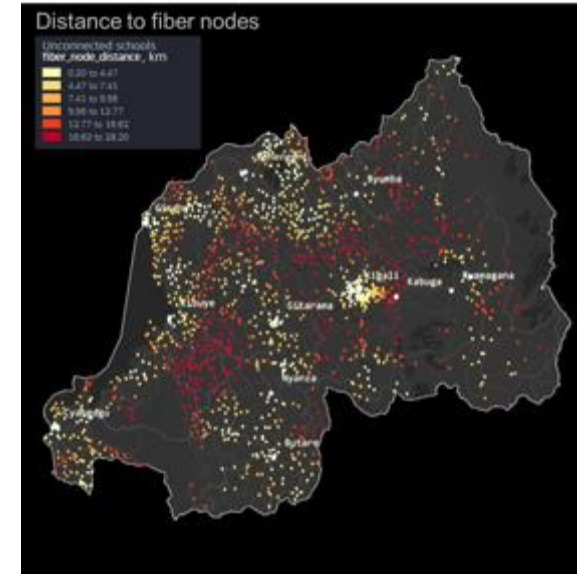
School location + connectivity   School location (processed)   School location (not processed)

2) The Giga Infrastructure and Policy Platform

- Our open source **analysis platform** will combine **the world's most complete and detailed database** of infrastructure and policy data for school connectivity with **powerful analytical tools** to serve as a resource for governments and identify optimal technology, policy and procurement **solutions**.

- Built with the support of Barcelona's technology ecosystem, this will be an open planning resource for the world's telecommunication giants (and start-ups).
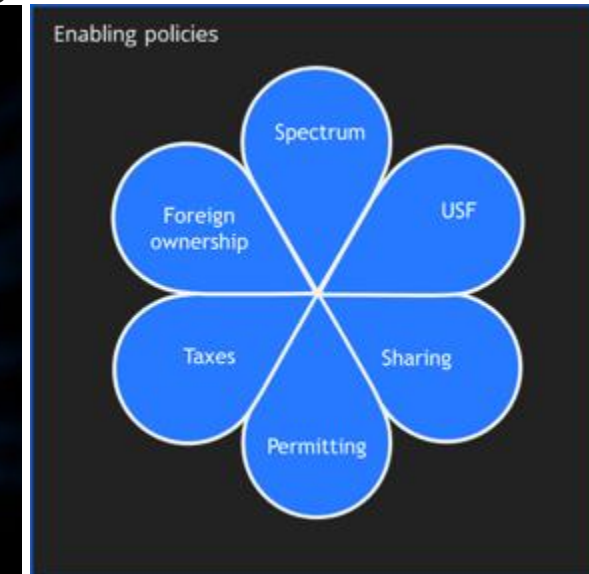
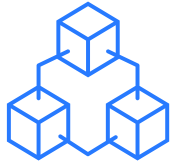**Where is the infrastructure?** **What will it cost to connect?**
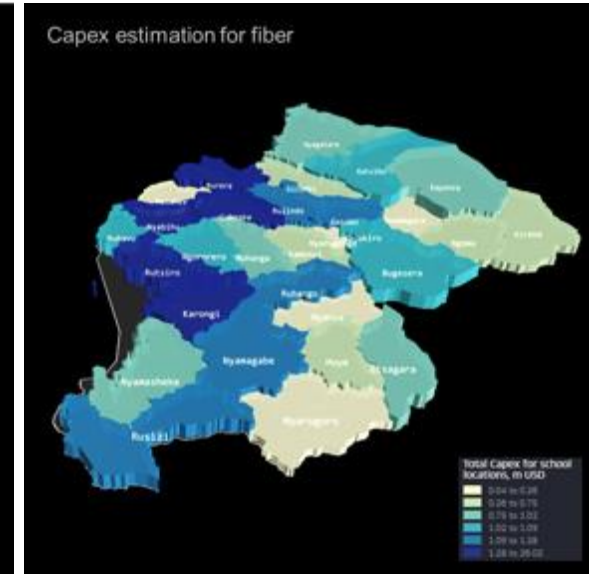
**What is the optimal technology?** **What is the optimal policy?**

3) Giga Connectivity Credits
(A "Carbon Credit marketplace", but for gigabytes)

Full, public, immutable accounting, on a blockchain for all public procurements and Giga contracts.
School turns green, ISP gets paid.
School turns red, ISP gets replaced.
Schools become points of procurement and contract management.
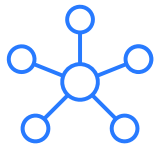
We can tokenize the gigabyte allowing ISPs to get credits for connecting poor areas, and redeem credits for tax incentives & more
A global gigabyte marketplace will upend entrenched, inefficient incumbents. Shed light on darkness.

Connectivity Credits will 'pay more' to connect difficult schools as an incentive to telcoms and a tool for governments.

Remoteness

Quality of Service

poverty

Environmental impact

Population

Price/cost

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To build these tools, and more, Barcelona will host collaboration from partners like these, as well as emerging market government tech leaders, from Giga's Ministry partners. Help us add Spanish tech / telcoms to this list

MUSK FOUNDATION

ERICSSON

BCG BOSTON CONSULTING GROUP

DELL Technologies

SoftBank Investment Advisers

JUMIA

arm

Meta

IHS Towers of strength

دبي العطاء Dubai Cares

LIQUID INTELLIGENT TECHNOLOGIES

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Giga will need to build strong partnerships with Spanish science, research, design, and technology academic institutions

Barcelona Super Computing Centre

The Giga Node – 13 July, built by NYU

Harbour Space University

And we will host some of the incredible technologists on Giga's global team (UNICEF and ITU), as well as new hires, in the Ca l'Alier space.

*note, not all team members will be present in Barcelona, this is a representative view of the entire team for informational purposes

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It's time to get started!

Moltes gràcies!