Giga Connectivity Credits

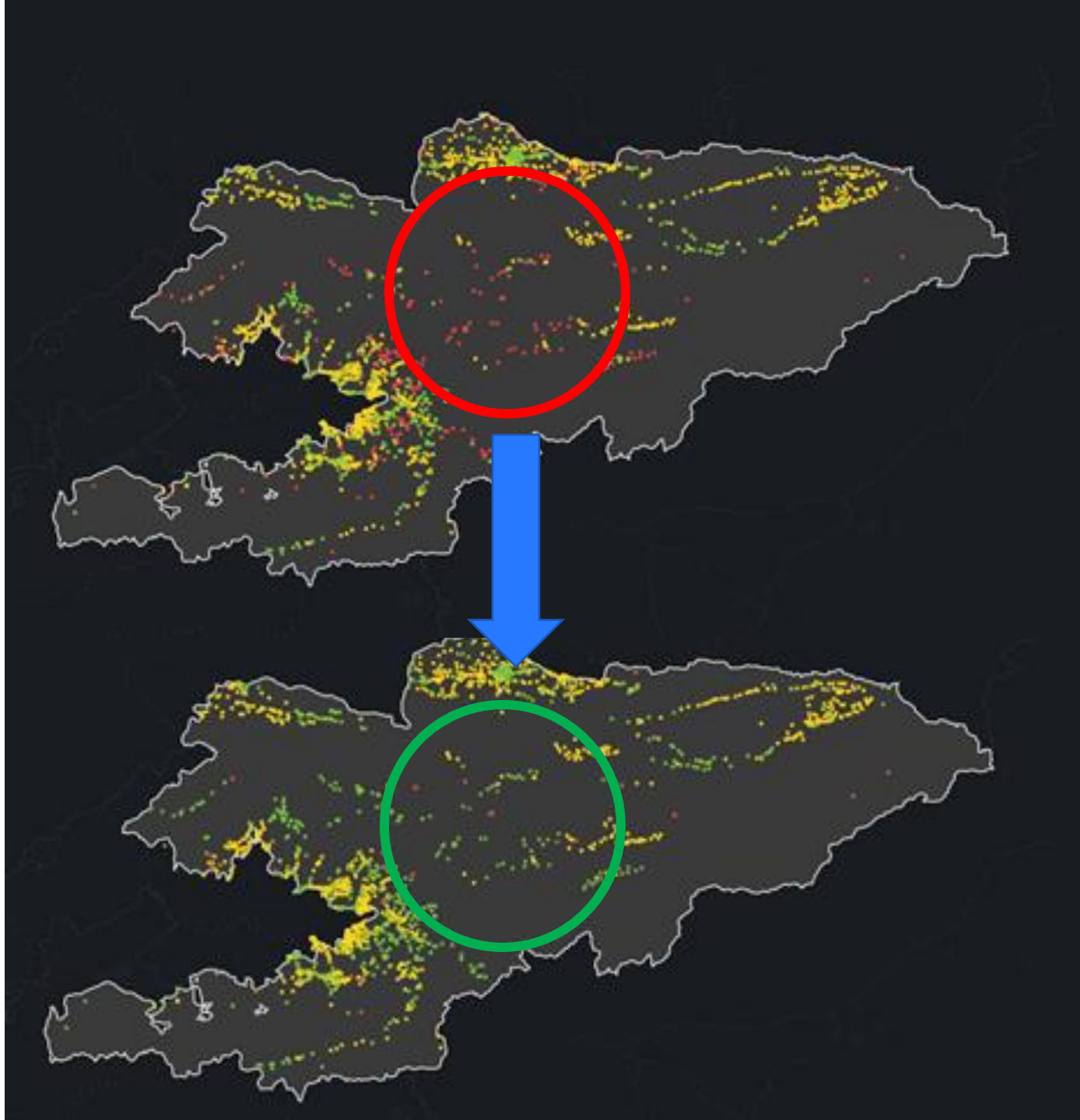
(Better, faster, stronger Carbon Credits, but for gigabytes)

Full, public, immutable accounting 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.



Giga Connectivity Credits

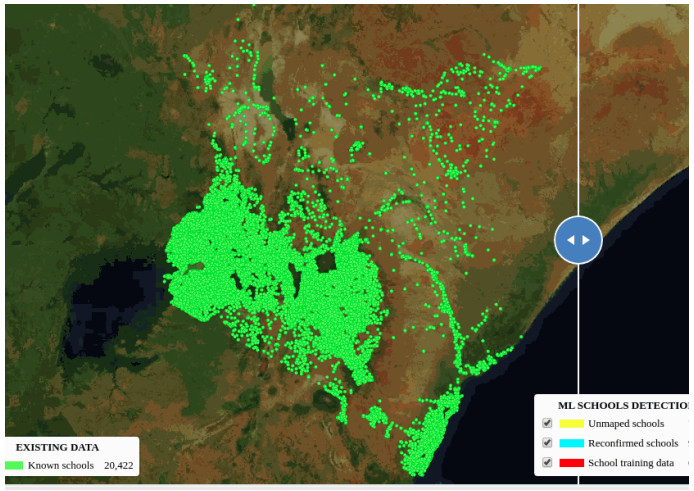
How it works

Data: we work with governments to create the 'source of truth' for school data

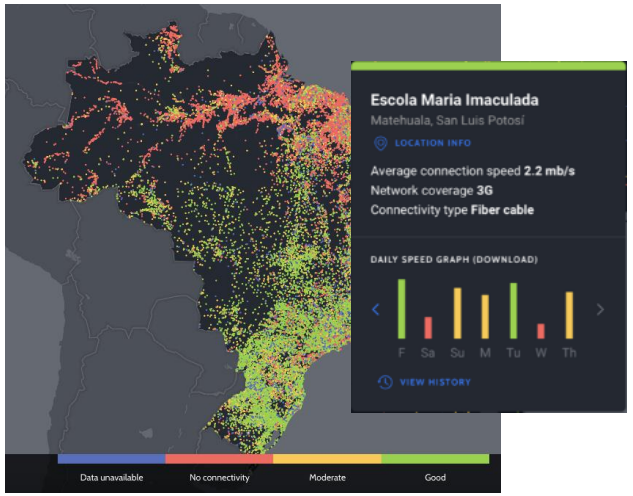
1. Consolidate and assess quality of existing data from different sources

giga_id_school	country	source	archived_id	source_id_school	school_name	latitude	lo
82679ff0-f358-3	Brazil	governme	G_BRA_000(	11000023	EEEE ABNAEL	-8.7585	
115d27ba-82a1	Brazil	governme	G_BRA_000(	11000040	EMEIEF PEQU	-8.7937	-(
3d7fb661-61a4-	Brazil	governme	G_BRA_000(	11000201	EMEF PROF H	-8.764	-(
9507b9e6-4ea6	Brazil	governme	G_BRA_000(	11000260	COLEGIO TIRA	-8.7383	-(
b5ec97ef-a418-	Brazil	governme	G_BRA_000(	11000309	ESCOLA MUN	-8.7508	-(
b62fd5d3-1a21-	Brazil	governme	G_BRA_000(	11000317	EEEFM DR JOS	-8.7422	-(
de9b1bc8-6536	Brazil	governme	G_BRA_000(	11000368	EMEIEF 13 DE	-8.8043	-(
b5c7720e-5bfd-	Brazil	governme	G_BRA_000(	11000376	EEEF 21 DE AB	-8.7506	-(
b42536af-edfb-:	Brazil	governme	G_BRA_000(	11000384	EEEFM 4 DE JA	-8.7414	-(
1df1254e-2496-	Brazil	governme	G_BRA_000(	11000422	ESCOLA MUN	-11.1744	-(
dd0e6466-2414	Brazil	governme	G_BRA_000(	11000449	EMEF ANIBAL	-8.3259	
afbaece4-8c80-:	Brazil	governme	G_BRA_000(	11000457	EEEFM PROFE	-9.6572	-(
fe1d00cf-87d7-:	Brazil	governme	G_BRA_000(	11000465	EMEIEF ANTO	-8.8719	-(
ef2f3575-1c17-:	Brazil	governme	G_BRA_000(	11000473	EMEF ANTON	-8.7571	-(
987244a1-03e5	Brazil	governme	G_BRA_000(	11000546	EMEF BAIXA \	-9.7843	-(
a6f719e2-4892-	Brazil	governme	G_BRA_000(	11000554	EEEFM BANDI	-9.7592	-(
79a70405-cccb-	Brazil	governme	G_BRA_000(	11000562	EMEF BARAO	-9.5285	-(
f4c0773c-e63d-	Brazil	governme	G_BRA_000(	11000589	EMEIF SENAD	-11.2232	-(
b94bafc1-6b3d-	Brazil	governme	G_BRA_000(	11000597	EEEFM BELA \	-8.7984	-(

2. Apply ML models to validate existing locations and find missing ones



3. Deploy real-time internet monitoring solutions and get dynamic QoS data



Priorization: we use the data to know how difficult is to connect a school and score it

Score = f(remoteness, poverty, population, ...)

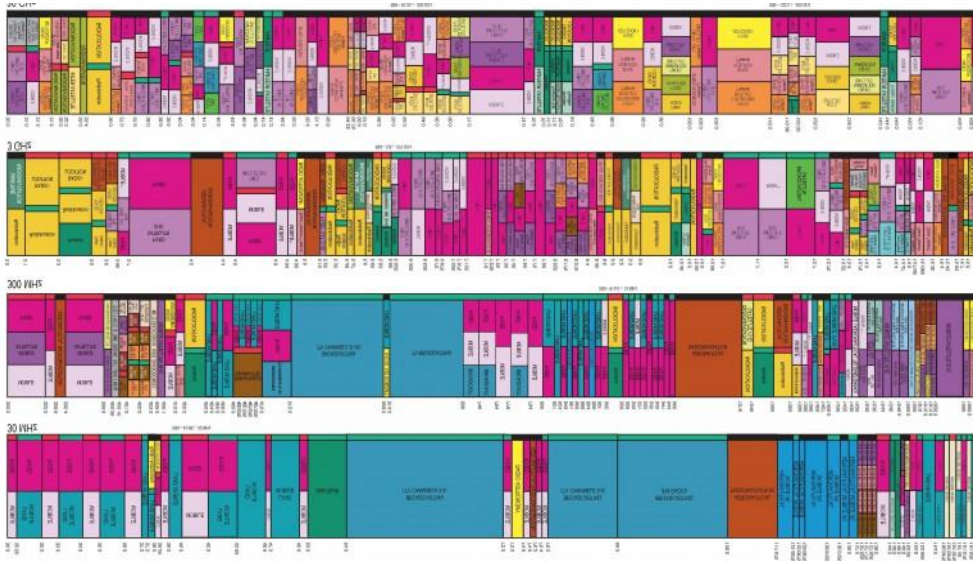
Multipliers = QoS, environmental impact, price/cost

Tokens issued = **Score** x $\mathbf{m_1}$ x $\mathbf{m_2}$ x **...**

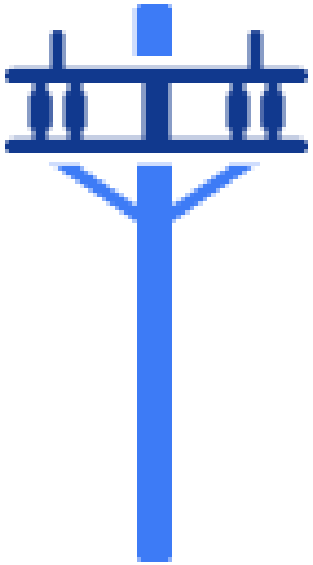
Incentives: we work with governments to create incentives for providers to connect schools

Tax breaks (i.e. to USF)

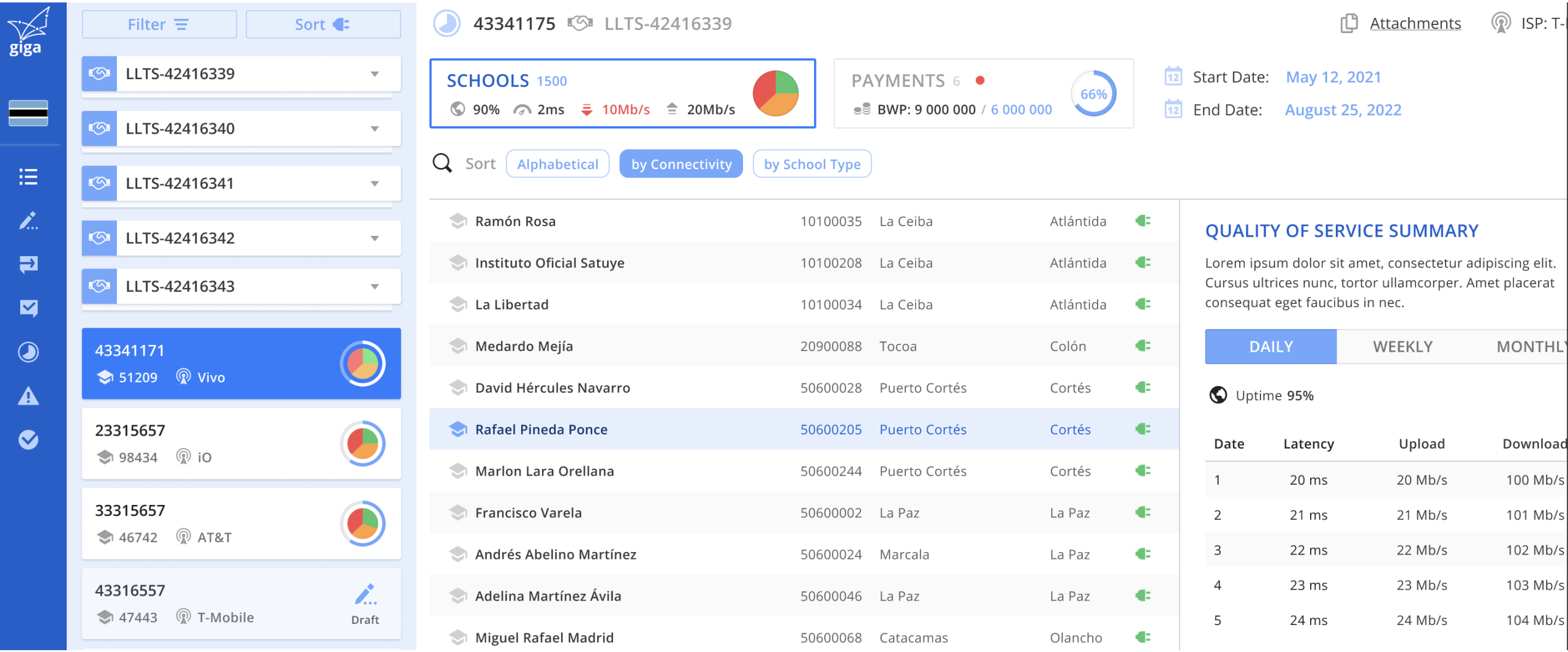
Spectrum allocation



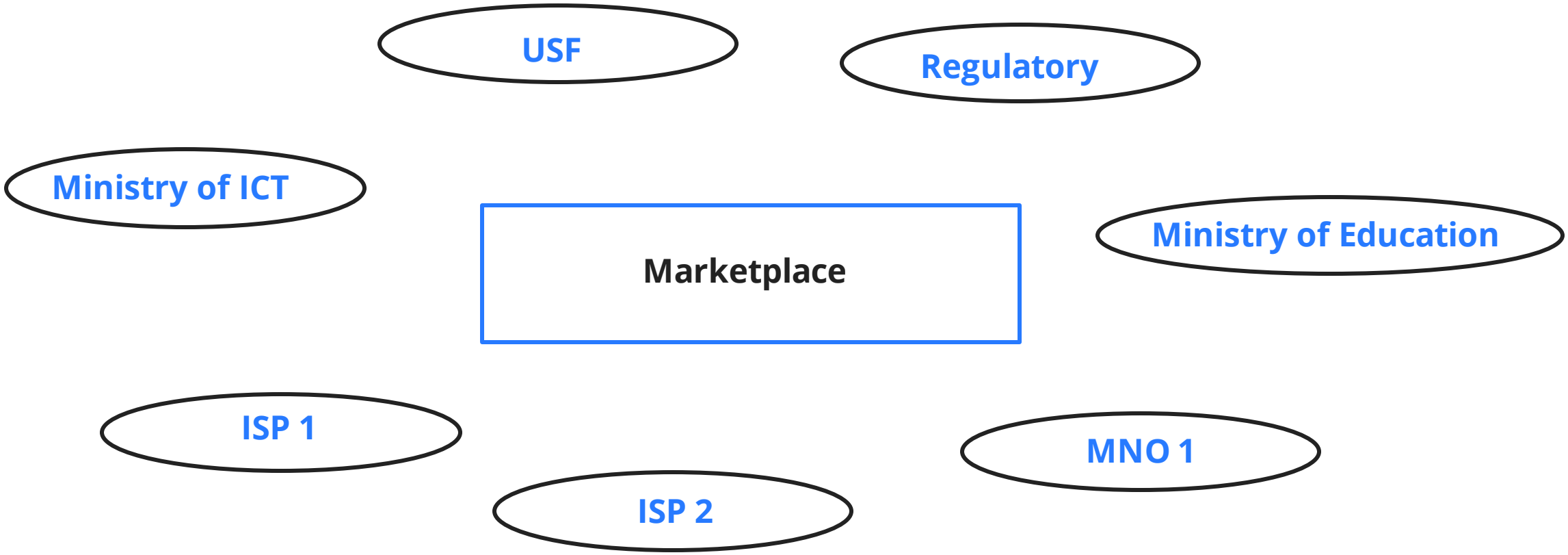
Access to shared infrastructure



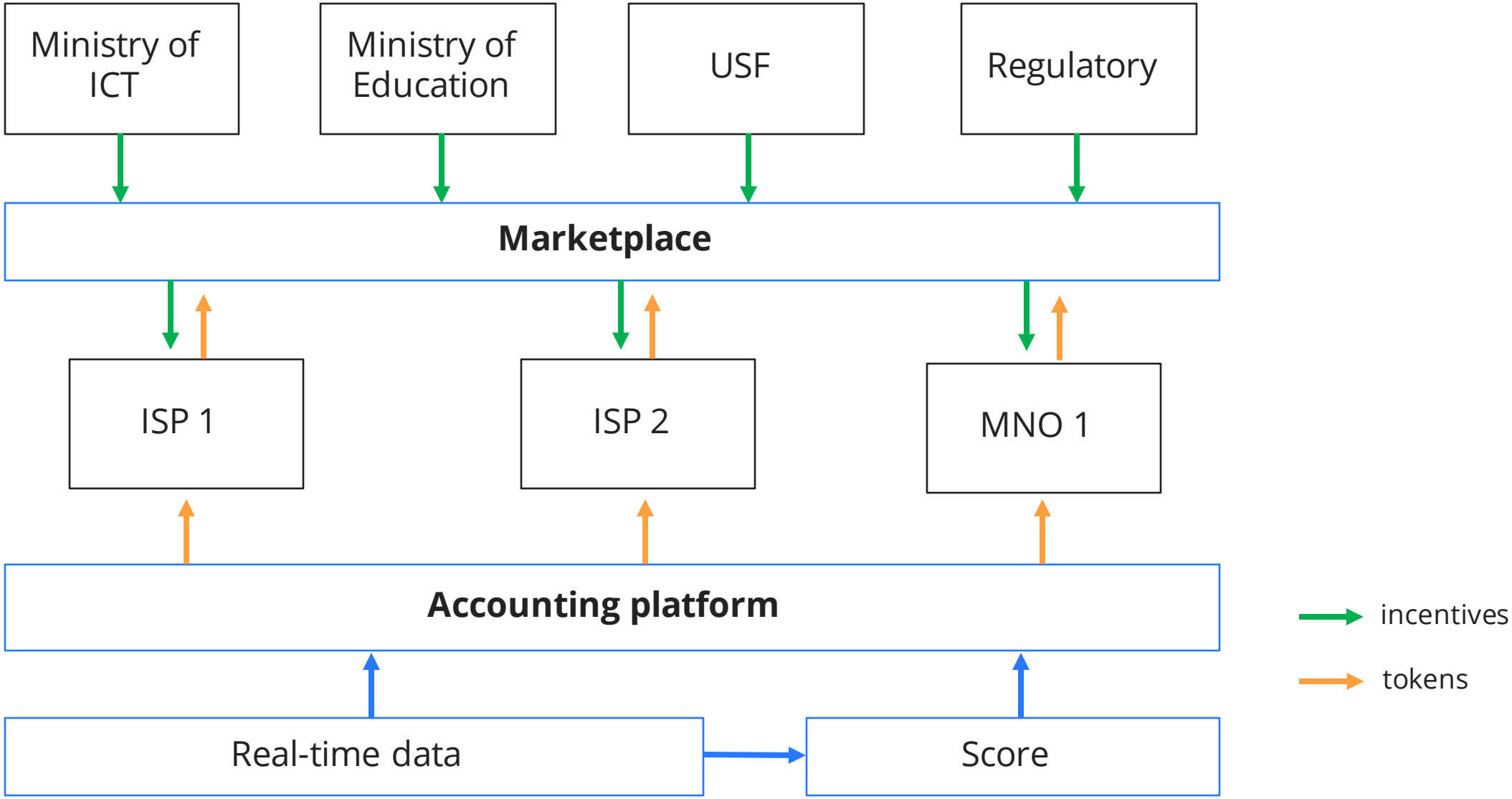
Accounting: we are building an accounting platform for managing contracts and ensure that providers are delivering them



Marketplace: we are building a marketplace for providers to be rewarded for connecting schools by redeeming connectivity credits for a set of incentives



Giga Connectivity Credits



The Connectivity Credit Marketplace architecture has three layers

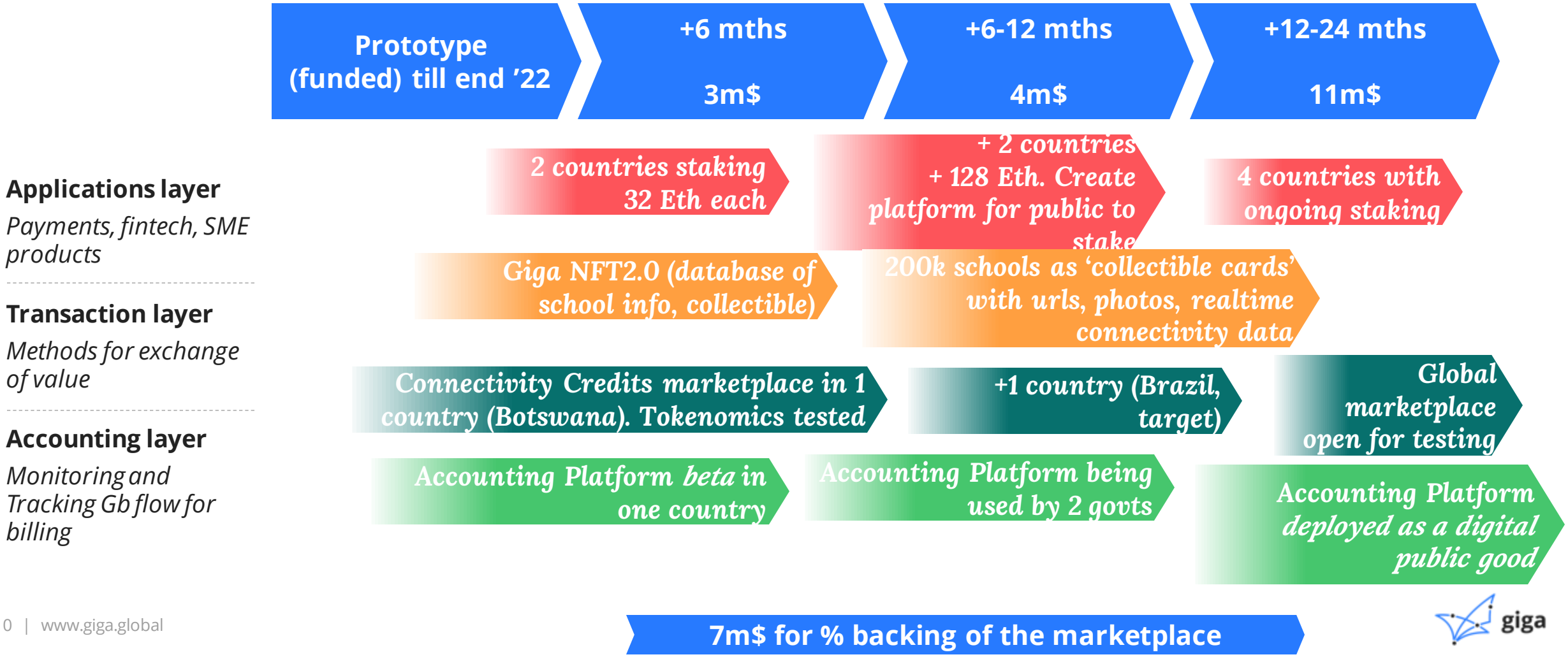
We've spent the last year prototyping them independently

Giga Node

	Prototypes built in 2021	Why it's important for the Marketplace
Application layer *Payments, fintech, SME products*	• Piloting ETH staking in Rwanda and Sierra Leone. • Launched 1000 NFT test project (700k$ raised)	• 2 Governments now running Giga Crypto regulatory sandbox • Each school will be its own 'collectible' card, allowing for global engagement
Transaction Layer *Methods for exchange of value*	• Piloting smart contracts to pay for connectivity in Sierra Leone and Rwanda • Prototype Gigabyte token being developed in Botswana	• ISPs can be accountable to realtime data (i.e. if there is no connectivity they don't get paid) in govt contracts. • Botswana regulator + govt ready to test Connectivity Credit Marketplace
Accounting Layer *Monitoring and tracking Gb flow for billing*	• Tracking connectivity speeds on-chain in Brazil • Ethereum Foundation partnership to build public-sector connectivity accounting	• On chain means full records means that a marketplace can be fair and public. • Govt owned open-source platforms for accounting means marketplace can interface across ministries (finance, telcom, etc)

giga

Looking for a seed donor / investor for our 2nd phase (24 months)



The Connectivity Credit Marketplace is

- Based off the Giga ProjectConnect map.
- After initial funding, Giga raised an additional 20M€ to build out the vision of a realtime network operations center for humanity.
- Now we want to add financial engineering into the equation.
- Every school on the map will be a node in the connectivity marketplace.
- The farther the school is away, the harder it is to connect, the more it will be 'worth.'
- The tokenized Gigabyte will be a way of counting value and accounting for connectivity (and more.)
- Better, more liquid, more divisible than the MTCo2E unit used in carbon credits, but slightly analogous.
- Credits for connecting can be redeemed for a variety of incentives (tax holiday, onshoring, spectrum bids, etc.)
- Credits can begin to extend outside of the connectivity space alone – as the marketplace becomes 'alive.'

The Connectivity Credit Marketplace roadmap

+ 6 Months

- Alpha / testnet Connectivity Credit Marketplace release
- 300 schools connected to Credits Market infrastructure (100k students)
- 3 different ISPs agreeing to take part / connecting to marketplace
- Tokens being issued to schools / providers in at least one country
- Schools can begin to be 'points of procurement"

+12 months

- Beta / testnet marketplace release
- 1000 schools connected to Credits Market infrastructure (300k students)
- 10 ISPs working
- Footprint in 3 countries (with Ministries of telcom/finance)
- Test tokens being distributed in all markets, measured and assessed
- Gigabytes being monitored in realtime and cost of monitoring lowered for governments.
- Direct link to at least 1 universal service fund

+24 months

- Beta / mainnet release
- 3000+ schools connected to CCM (1M students
- Organic growth 10pc/month targeted (measured by tokens issued, new schools participating, etc)
- Footprint in 5 countries and growing, with an eye to 25 by Y3
- Engagement in at least one major market (Brazil, Nigeria, Spain)
- Reduction of costs for school connectivity bids by 30% in participating markets
- Students using tokens to help with other school connectivity tasks