# Giga

2023 Annual Work Plan

#### **2023 - CONNECT**

## **Priorities**

#### **Draft for discussion**

3 Establish global LTAs with the 3 major LEO providers to broker large-scale school connectivity procurement for governments

Advise 2 governments through a large-scale school connectivity procurement process using the Giga procurement toolkit

Design and implement the Giga ICT community workers model in 2 countries

ACCELERATE

Financial Risk

Large-scale infrastructure feasibility studies for 2 countries

PROCUREMENT

**PROCUREMENT** 

Engage 10 governments to launch RFIs and obtain market information & costs to connect all schools in their country

PROCUREMENT

**PROCUREMENT** 

Giga Accelerate schools' handover strategy implemented in 10 countries

(Kenya, Rwanda, Sierra Leone, Botswana, Kazakhstan, Kyrgyzstan, Uzbekistan, Honduras, El Salvador, Palestine)

ACCELERATE

Giga toolkit for large-scale school connectivity procurement published (Includes school connectivity product specs, ToR, LTA, contract templates, COP guidelines)

+20,000 connected schools by Giga and government partners

ACCELERATE

Giga sustainable business models' toolkit with strategies and cases to lower school connectivity recurring (Opex) costs published in the Giga website

ACCELERATE

Technical Risk

Most certain Most funded Most funded



Most speculative Least funded

www.gigaconnect.org | info@giga.partners

#### **2023 - CONNECT**

## **Priorities**

#### **Draft for discussion – Claire's inputs**

3

#### Large-scale infrastructure feasibility studies for 2 countries

Second country to be confirmed (TOR drafting stage with Niger)

PROCUREMENT

6 Launch a common bid (through an LTA or equivalent in a country procurement rules) to connect all schools in at least 1 country

Creation of draft template based on lesson learnt
Correlating Point no.2

PROCUREMENT

9

#### Market Shaping Roadmap

Market Shaping roadmaps helps guide Giga's market shaping efforts by analysing the dynamics of theconnectivity market

ACCELERATE/FINANCE/ PROCUREMENT

Financial Risk

Engage 10 governments to launch RFIs and obtain market information & costs to connect all schools in their country As per discussed, 5 to 9 RFIs launch & 1 to 5 LTAS

launch?

PROCUREMENT

Establish a global LTA with the 3 major LEO providers for satellite-based internet for schools

To be discussed based on the analysis of RFI responses/LEO's market maturity

PROCUREMENT

8

Giga Accelerate schools handover strategy & sustainable business models playbook published

Including Child Online Protection guidelines for school connectivity

ACCELERATE



+20,000 connected schools by Giga and government partners

Procurement option 1 to be developed to support this goal for 2023

**PROCUREMENT** 

Giga toolkit for large-scale school connectivity procurement published (includes school connectivity product specs?)

Including templates, annexes, Child Online clauses/annexes to be included in tender/contractual documents, etc.

ACCELERATE

7

Giga School Connectivity product specifications used by 5 countries

**ACCELERATE** 

Technical Risk

Most certain Most funded Most funded



Most speculative Least funded

#### **2023 - CONNECT**

## **Priorities**

## **Draft SLT Input**

Design and implement the Giga **ICT community workers** concept in 2 countries

Sounds great...what does this entail?

#### Giga toolkit with strategies to lower school connectivity upfront (Capex) & recurring (Opex) costs published

How is this different from the SB< playbook? Ref of how we could explain journey towards lowering costs https://www.thecatalyst.org.uk/research/digitaly

Most speculative Least funded

Large-scale infrastructure feasibility studies for 2 countries

Action: Research, develop analysis and present to ...?

Launch a common bid (through an LTA or equivalent in a country procurement rules) to connect all schools in at least 1 country

Action: Research, develop analysis and present to ...?

Something related to market shaping?

Action: Host or join two major connectivity multistakeholder events to present Giga work and aims and receive feedback, support, etc..?.

**Giga Accelerate schools** 

handover strategy & sustainable business

models playbook published

Action: Analyse current 1000 schools, identify areas and

strategies for cost reduction and best practice for enabling

Financial Risk

**Engage 10 governments to launch RFIs** and obtain market information & costs to connect all schools in their country

Action: Provide technical assistance and best practice to design RFIs, collate market information

Establish a global LTA with the 3 major LEO providers for satellite-based internet for schools

Action: Analyse the strengths and weaknesses of different LEO providers, match them with pilot schools and develop agreements that speak to the toolkit best practice (including exit strategy)

equal access (installation, operation, partnership sup etc,.)

Giga toolkit for large-scale school connectivity procurement published (includes school connectivity product specs?)

Action: Collate lessons learned and best practice, develop the toolkit and share in/with...?

Giga school connectivity product specifications used by 5 countries

+20,000 connected schools by Giga and government partners

Support governments and partners to connect +20.000 schools

Action: Elicit commitment from Governments to join Giga objectives, monitor number of schools connected End of 2022: 5,539

Technical Risk

**Child Online Protection guidelines for school** connectivity?

Yes! This would be the 1 product for schools in Giga? Consider including technical, process and behaviour (eg: awareness building of risks, stigma etc.)





# Giga

2022 Annual Work Plan – Q3 Review

#### **MAPPING & TECH**

## **Priorities**

3. Improved Quality & Pipelines for Existing Datasets (school location, static school connectivity, ICT infrastructure)

Target: 17 additional countries for coverage data;
28 infrastructure
Q3: 25 coverage; 23 infrastructure

6. Accounting Platform
ProCoChain

Target: prototypes showcased to 3 countries
Q3: 0

BLOCKCHAI

9. Schools as Hubs
(Giga box, digital payments, ...)

Target: 1 Giga box, 1 country
Q3: 0

OTHER

Most speculative Least funded

Financial Risk

**2. Country-level Support for Implementation** (increase efficiency, unified data request, knowledge sharing)

Target: 45 countries mapping locations; 7 countries RT Q3: 50 mapping, 9 RT

COUNTRY SUPPORT

**PLATFORM** 

5. Data Products

(Giga data marketplace, Al for school mapping, interactive maps, cost models)

Target: 13 countries (applying ML/Cost/ Technology model) O3: 9

DATA &
RESEARCH

**8. Discovery & New Research** (Socioeconomic impact, cell tower mapping)

Target: 5 knowledge materials Q3: 1

DATA & RESEARCH

**1, Project Connect Foundation for Scale** (System infrastructure, Webapp performance)

Target: 2M schools mapped Q3: 1.1 M

PLATFORM

4. Real-time / Dynamic QoS Data (DailyCheckApp, ISP data, )

Target: 75k schools O3: 59K schools

**PLATFORM** 

7. Connectivity credits & crypto financing tools

(NFTs, staking, connectivity credits)

Target: 2 countries deploying staking Q3: 1

Target: 2 connectivity prototypes Q3: 0

BLOCKCHAI

Technical Risk

Most certain Most funded Most funded



#### **FINANCE**

Less aligned with Giga mission

## **Priorities**

Least
Actionable,
Impactful and
Aligned with
Giga Mission

3. Develop Strong Working Relationship and Partners within UN System (MPTF)

Target: 2 UN finance partnerships Q3: 1



Workstream #4

6. Partnerships and JVs with Technology and Telecommunications Partners

Workstream #3

5. Mobilization of Giga-Sourced Capital (via Connectivity Bond, Private Placement, etc.)

Target: \$38M Q3: \$47M

Workstream #1

4. Build and Execute Financing
Strategy for 20k+ School Connectivity
Project

Workstream #2

9. Develop Innovative Blockchain and Crypto Financing Tools

Workstream #4

8. Produce Case Studies, White Papers, etc. to Establish Giga as Innovation Finance Leader

Target: 5 Q3: 2



Workstream #4

7. Country Level Advisory Support (Cost Benefit Analysis, RFI/Contract Review)

Workstream #2

2. Identification and Unlocking of Alternative Funding Sources

Workstream #1

1. Project Pipeline Development and Country Level Engagement (Line of sight to \$3B in projects)

Target: \$3B projects defined Q3: \$75MM

Workstream #2

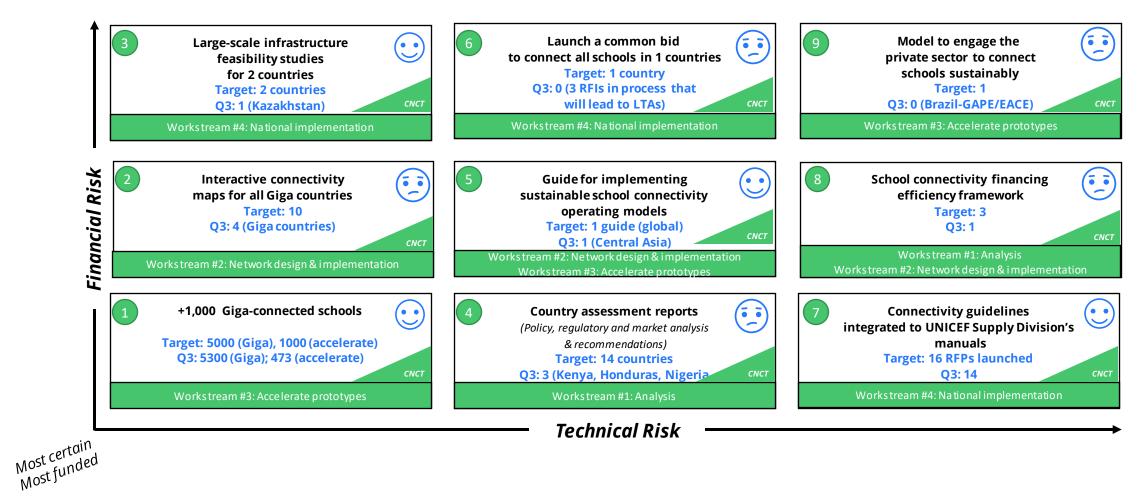
Less Actionable

Most Actionable, Impactful and Aligned and Giga with Giga Mission



#### **CONNECT**

## **Priorities**



Most speculative Least funded



## **Partnerships Prioritization**

(non-\$) value of partnerships 3+ person team System for identifying & Giga affiliate certification Q3: 4 managing in-kind contributions programme **Target: 1000 schools** Q3: 0 **Workstream #1: Capacity** Workstream #2: Quality Workstream #3: Growth Joint UNICEF-ITU partnership System for producing "Partner of Giga" Less Focused on \$\$ Model and updating pitch/reporting community Target: 3 partners secured w/ model materials Q3: 0 Workstream #2: Quality **Workstream #2: Quality** Workstream #3: Growth \$40M mobilized **Partnership Tiers Refresh** Pooled Fund, **Pooled Reporting** 3 partners (standardized reporting) Q3: \$47M Q3: 1 Workstream #3: Growth **Workstream #1: Capacity Workstream #1: Capacity** Newer, Less Proven

to be Successful



Innovative and focused on alternative

Financially valuable

and conventional to resource mobilization

#### **COMMUNICATIONS**

## **Priorities**

Time / financial cost —

2x followers on all social channels. TW engagement: > 2% (2021: 1.8%)
LI engagement: > 8% (2021: 7%)
Q3: x TW followers & x% engagement; LI x; x

6

Restructure website
Incl. new dedicated pages on Map, Finance
and Connect

9

Raise >\$1m from NFT and other direct fundraising campaigns

Q3: \$700k

≥ 1 story per month print or broadcast media (Tier 1 international or Giga country national)

Target: 12 Q3: x 5

Giga features in 2 international events per month

Target: 24
Q3: x

8

≥ 1 joint activation per month with Giga partners

Target: 12
Q3: x

1

Giga core documents (narrative, slides, FAQs) updated quarterly

4

Build a cross UNICEF-ITU comms team: social; press; design; events.

7

**New stories from Giga countries:** 

≥ 2 per month

Target: 24
Q3: x

Need others to help us

Most certain Most funded



Most speculative Least funded

## **Team Priorities**













3. Web3 Layers under Map in ~4 countries (transact/account/apps) in Project Connect

Q3: insert # of countries

6. Transition at least 2 countries from Accelerate to universal school connectivity

> Q3: Kazakhstan (98%); Kyrgyzstan (99%). In process: El Salvador, Botswana

9. Giga NFT2 released

Q3: unlikely to launch this year, but moving forward with procurement process to build the concept for a launch next year.

2. Hosting by Switzerland and Spain, including personnel movement and location setup, and rebuild of Interim Advisory Group

Q3: support secured - contracts signed.

5. 100M revolving capital vehicle identified and/or built

Q3: \$47M raised; \$xx identified

8. Connectivity Credits alpha deployment in 2 countries

Q3: progress not as expected at the beginning of the year, however, expecting some updates before the end of the year.

1. Project Connect (2M schools) with real time connectivity data (75k schools) and infrastructure mapping layers (for Tier 1 countries).

Q3: 1.1M schools mapped; 57k schools RT; 23 countries Infrastructure maps (10 Tier 1 countries)

4. 11 Steps run through by in country Giga team in each tier 1 country (10M kids connected, policy/reg in each country, etc.)

Q3: Kazakhstan (80%), Rwanda, Kyrgyzstan, Uzbekistan (70-80%), Kenya, Sierra Leone, El Salvador & Honduras (60%)

7. Certificate /training courses for capacity building for Giga on regulation, mapping, tech for gov't partners

Q3: xxx

Technical Risk

Most certain Most funded Most funded

Financial Risk



# Giga

2022 Annual Work Planning

## **Priorities**



Governance and Multilateral
Partnerships

GLOBAL





FINANCE

**CONNECT** 

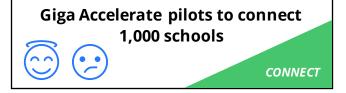
Financial Risk













Technical Risk

Most certain Most funded Most funded



Most speculative Least funded

## **Team Priorities**













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6. Transition at least 2 countries from Accelerate to universal school connectivity

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Most speculative Least funded

Financial Risk

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Technical Risk

Most certain Most funded Most funded



#### **MAPPING & TECH**

## **Priorities**

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(school location, static school connectivity, ICT infrag

**PLATFORM** 

6. Accounting Platform

ProCoChain

**BLOCKCHAI** 

9. Schools as Hubs

(Giga box, digital payments, ...)

**OTHER** 

Most speculative Least funded

Financial Risk

2. Country-level Support for **Implementation** 

(increase efficiency, unified data request *knowledge sharing)* 

COUNTRY **SUPPORT**  5. Data Products

(Giga data marketplace, AI for school mapping, interactive maps, cost models

> DATA & RESEARCH

8. Discovery & New Research (Socioeconomic impact, cell tower mapping)

> DATA & RESEARCH

1. Project Connect Foundation for

**Scale** (System infrastructure, Webapp performance)

**PLATFORM** 

4. Real-time / Dynamic QoS Data

(DailyCheckApp, ISP data, )

**PLATFORM** 

7. Connectivity credits & crypto financing tools

(NFTs, staking, connectivity credits)

**BLOCKCHAI** 

Technical Risk

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Actionable,
Impactful and
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Aligned Wission
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Workstream #4

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1. Project Pipeline Development and Country Level Engagement (Line of sight to \$3B in projects)

Workstream #2

4. Build and Execute Financing Strategy for 20k+ School Connectivity Project

Workstream #2

7. Country Level Advisory Support (Cost Benefit Analysis, RFP/Contract Review)

Workstream #2

Less Actionable

Most
Actionable,
Impactful
and Aligned
with Giga
Mission



#### **CONNECT**

## **Priorities**

Launch a common bid Model to engage the Large-scale infrastructure to connect all schools private sector to connect schools feasibility studies in 1 countries sustainably for 2 countries Financial Risk **Interactive connectivity Guide for implementing School connectivity** maps for all Giga countries sustainable school connectivity financing (Tools for tech selection, cost assessment operating models efficiency framework and decision-making) Works tream #3: Accelerate prototypes +1.000 **Country assessment reports Connectivity guidelines Giga-connected** integrated to UNICEF Supply (Policy, regulatory and schools Division's manuals market analysis & recommendations) Works tream #3: Accelerate prototypes

Technical Risk

Most speculative Least funded



Most certain Most funded Most funded

#### **COMMUNICATIONS**

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Time / financial cost



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≥ 1 story per month print or broadcast media (Tier 1 international or Giga country national)



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Giga core documents (narrative, slides, FAQs) updated quarterly



Build a cross UNICEF-ITU comms team: social; press; design; events.



New stories from Giga countries: ≥ 2 per month

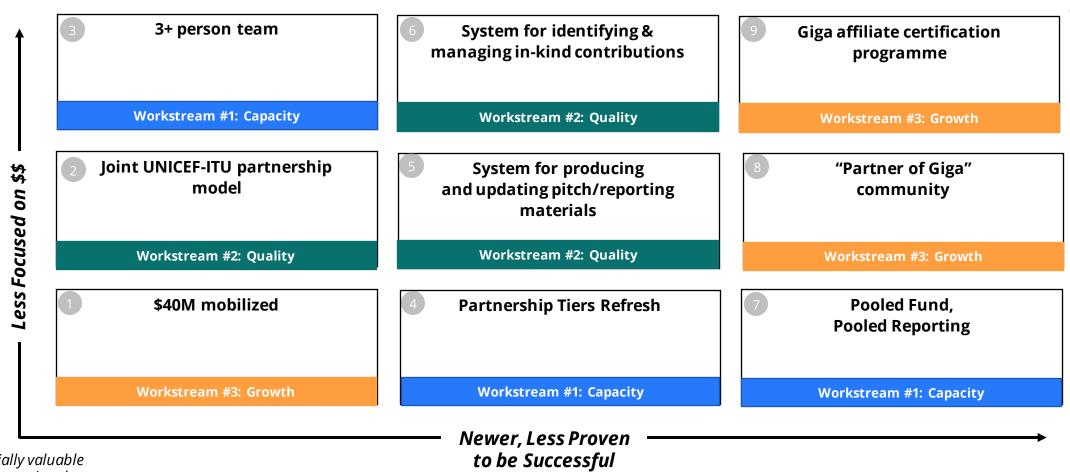
Need others to help us

Most certain Most funded



## **Partnerships Prioritization**

Innovative and focused on alternative (non-\$) value of partnerships



Financially valuable and conventional to resource mobilization

giga

## Annex RBM framework



## **CONNECT**

#### Objective(s)

#### **.**

+1,000 Giga-connected schools

PRIORITY / RESULT

 Connect +1,000 schools with a minimum of 10 Mbps, 20 Mbps / 1 Mbps per 20 students where feasible; online children safety measures; content filtering, connectivity accessible in all school premises; reporting real-time connectivity status & speeds to Project Connect.

#### Risks and planned actions

- <u>Risk</u>: Lack of capacity at a country-level to effectively oversee the use of funding for connectivity implementation
- <u>Actions</u>: Advise COs to appropriately allocate funding between procurement and resourcing; develop guidelines and documents for CO and government use to streamline procurement

PRIORITY / RESULT

Country assessment reports

- Policy, regulatory and market assessment to identify barriers to ensure safe, secured and reliable school connectivity.
- Actionable recommendations to country governments to ease market access for broadband deployment and attract & sustain public & private investment in school connectivity.
- <u>Risk</u>: Uncompetitive market structures present an obstacle to the adoption of innovative technology and implementation of sustainable business models for school connectivity.
- <u>Actions</u>: Provide governments and key stakeholders with assessments that identify major blockers for affordable school connectivity and kickstart policy and regulatory discussions.

PRIORITY / RESULT

Connectivity
guidelines integrated
into UNICEF Supply
Division's
manuals

- Use of Giga's standard for school connectivity (as a minimum) by UNICEF and partners in procurement processes, negotiations between governments and providers, etc.
- Standardize the minimum requirements for meaningful & sustainable connectivity in the countries / regions where Giga is active.
- Risk: Diverse minimum standards for school connectivity creates risks for learners' experience with internet to be unreliable
- <u>Actions</u>: Promote Giga's standards for school connectivity in procurement processes led by Giga, in negotiations with providers and in all others where governments procure school connectivity.

#### **Indicators and targets**

- <u>Indicator 1</u>: Number of schools connected to the internet (by Giga and partners)
  - Baseline (by end of December 2021): 3,200 by Giga and partners and 186 by Giga Accelerate
  - Target (by end of Dec 2022): 5,000 (by Giga and partners) & 1,000 by Giga Accelerate prototypes
  - Q2 Target value: 300
  - Means of verification: Country Office verification
- <u>Indicator 2</u>: Number of country assessment reports:
  - Baseline (by end of December 2021): 1 (BCG report & country case studies)
  - Target (by end of Dec 2022): 5 (Honduras, OECS (9 countries), Kenya, Nigeria, Sierra Leone)
  - Q2 Target value: 1 country connectivity assessment
  - Means of verification: Analytical reports.
- <u>Indicator 3</u>: Number of school connectivity RFPs launched through UNICEF & according to guidelines
  - Baseline (by end of December 2021):11
  - Target (by end of Dec 2022): 5
  - Q2 Target value: 1
  - Means of verification: Country Office Verification, partners



## **CONNECT**

#### Objective(s)

#### PRIORITY / RESULT

Interactive connectivity maps for all Giga countries

#### PRIORITY / RESULT

Guide for implementing sustainable school connectivity operating models

#### PRIORITY / RESULT

School connectivity financing efficiency framework

- Create interactive connectivity maps for all Giga tier 1 countries and other countries as needed.
- Use of last-mile internet connectivity solutions guide, ITU broadband map and ICT business planning toolkit to recommend technologies, models for school connectivity and provide cost estimations.
- Create a playbook with the results from Accelerate prototypes that considers different commercial models and operating set-ups to provide meaningful and sustainable connectivity.
- Lessons and insights from testing different solutions.
- Implementation guidelines for countries interested in sustainable business models.
- Leverage from the ITU-FCDO toolkit to provide guidance to country governments on the assessment, the financing, the support, the design, implementation, monitoring and evaluation of School Connectivity programmes.
- Conduct training on the toolkit in at least 2 countries.

#### Risks and planned actions

- <u>Risk</u>: Countries do not provide information to feed the Giga data-based analytical tools, and decisions are made without considering mapping analysis.
- <u>Actions</u>: Country engagement team will make other support conditional to governments sharing the required data, and this information will be used for decision-making using Giga tools.
- <u>Risk</u>: Schools connected by Giga do not have the resources to continue paying for their connectivity services and get disconnected after one year
- Actions: Implement at least 5 different business models to test in connected schools to assess which models have the potential to offset connectivity costs and produce a guide with lessons learned from implementation.
- <u>Risk</u>: Competing priorities in public sector budgeting and social investing relegate school connectivity (especially for remote & rural areas) from government's spending plans.
- <u>Actions</u>: Apply the school connectivity efficiency toolkit to assess and enhance the impact of investing public and private resources in school connectivity.

#### **Indicators and targets**

- <u>Indicator 5</u>: Number of Giga countries with an interactive connectivity map
  - Baseline (by end of December 2021): 2
  - Target (by end of Dec 2022): 10
  - Q2 Target value: 5
  - Means of verification: 1 self-paced training to deliver with the interactive connectivity mapping
- <u>Indicator 6:</u> Guide for sustainable school connectivity published
  - Baseline (by end of December 2021): 0
  - Target (by end of Dec 2022): 1 guide published
  - Q2 Target value: Lessons learned and insights from prototypes
  - Means of verification: Guide published in Giga's website
- <u>Indicator 7:</u> Implementation of the school connectivity financing efficiency framework
  - Baseline (by end of December 2021): 0
  - Target (by end of Dec 2022): 3 countries
  - Q2 Target value: 1 countries
  - Means of verification: Training on the toolkit provided.



## **CONNECT**

#### Objective(s)

#### Risks and planned actions

#### **Indicators and targets**

PRIORITY / RESULT

Large-scale infrastructure feasibility studies for 2 countries  Support the implementation of large-scale infrastructure projects for school connectivity through feasibility studies that assess the technical, economic and environmental aspects, as well as costbenefits.  <u>Risk</u>: Financing for large-scale school connectivity infrastructure projects need to consider the technical, economic and environmental feasibility of the proposed solutions.

 Actions: Giga has established a Long-Term Arrangement with 3 firms specialized in producing feasibility studies for large-scale telecom projects. • Target (by end of Dec 2022): 2

Q2 Target value: ToRs for 2 feasibility studies

• Baseline (by end of December 2021): 1

• Means of verification: Giga Steering Committees

<u>Indicator 7</u>: Number of feasibility studies for large-scale

PRIORITY / RESULT

Launch a common bid to connect all schools in 1 country

- Advise a country's government through a large-scale procurement process to connect all schools.
- Use Giga mapping tools to recommend optimal network design, tech selection and cost estimates.
- Provide all inputs needed to build a country-level financing strategy.

- <u>Risk</u>: Giga continues as a small-scale school connectivity initiative
- Actions: Create the analytical and financial tools needed to support a country's national-scale school connectivity roll-out.
- <u>Indicator 8</u>: Number of countries at national-scale implementation
  - Baseline (by end of December 2021): 0
  - Target (by end of Dec 2022): 1
  - Q2 Target value: 0

infrastructure projects

(Kazakhstan)

• Means of verification: Country Office Verification

PRIORITY / RESULT

Model to engage the private sector to connect schools sustainably

 Implement a proof-of-concept model to test new technologies and engage operators and tech companies to connect schools sustainably up to Giga's standards and guidelines.

- <u>Risk</u>: Every school connected by a Giga Accelerate prototype adds financial risk to the initiative if they are not capable of covering their connectivity service fees after being connected.
- Actions: Leverage Giga's lessons learned in the Accelerate prototypes and create a proof-ofconcept model for operators to connect schools sustainably.

- <u>Indicator 9</u>: Proof-of-concept model for school connectivity sustainability
  - Baseline (by end of December 2021): 0
  - Target (by end of Dec 2022): 1 model developed with operators engaged to implement it.
  - Q2 Target value: Identification of interested operators
  - Means of verification: Press releases, programme documents, or other forms of verification

## **PLATFORM**

#### **Objectives**

#### Indicators & Targets

#### **Team and Key Partners**

PRIORITY / RESULT



Map all schools

- Improve system infrastructure and team collaboration processes/tools
- Enhance Webapp (v1) for low bandwidth environments

Map Indicator 1: # of schools mapped

Baseline: 1M (by end of 2021)

Target 2022: 2M schools mapped

Q2 Target value: 1.3M

Means of verification: ProCo

Improved Quality & Pipelines for Existing Datasets

- Improve & automate data ingestion and quality workflows for school location data
- Data accuracy metrics defined
- Automate school coverage data workflows
- Build ICT infrastructure data ingestion and quality workflows

Map indicator 2: # of countries with school coverage data available on ProCo and ICT infrastructure data ingested

Baseline: 12 coverage data; 18 infrastructure data (by end of 2021)

Target 2022: 17+ coverage data; 28 infrastructure data

**Q2 Target value: 15 coverage data; 22 infrastructure data** Means of verification: ProCo, infrastructure maps

- Primary: TBD
- <u>Team</u>: Yonas, ICTD person, Data Engineer, Kwang, UX Specialist
- <u>Internal:</u> ICTD, Cross-functional Giga team requirements
- <u>External:</u> Cloud provider (Azure/AWS), countries, BI Tool / System Provider
- Primary: TBD
- <u>Team</u>: Data Engineer, Yonas, lyke, Shilpa, Oguz, ICTD person, Kwang, UX Specialist
- Internal: ICTD, Giga Country Team
- External: Ericsson, Facebook, GSMA, IHS Towers



## **PLATFORM**

**Objectives** 

PRIORITY / RESULT



- Develop new measurement solutions (Daily Check App)
- Establish data sharing agreements with providers
- Create QoS data standards and aggregations

#### **Indicators & Targets**

Map Indicator 3: # of schools with dynamic QoS in countries

Baseline: 45,000 schools (by end of 2021)

Target 2022:75,000 schools

Q2 Target value: 50,000

Means of verification: ProCo

- Primary: Ihar, TBD
- <u>Team</u>: Yonas, Gerben, Data Engineer, ICTD person, Data Scientist (tbd)
- Internal: ICTD, Giga Country Team
- External: Ericsson, providers (Liquid, AFCOM, ...), mLab



## **DATA & RESEARCH**

#### PRIORITY / RESULT

# Data Products

#### **Objectives**

- Create a data marketplace for Giga
- Access levels and licensing are defined for each dataset
- Create API for school location
- Designing data and tech stack and best practices for data team
- Global Giga data consortium framework defined
- Package existing models and analysis so that they are easily replicable

## PRIORITY / RESULT



- Improve existing AI models for school mapping
- Extend existing feature extraction models to new types of infrastructure
- Validate the hypothesis of positive impact of connectivity on socio-economic development

#### **Indicators & Targets**

Map Indicator 4: # of countries implementing ML/Cost/Technology model

Baseline: 8 countries (by end of 2021)

Target 2022: 13 countries Q2 Target value: 10 countries

Means of verification: report, blog post

#### Map Indicator 5: # of knowledge materials developed

Baseline: 3 (by end of 2021)

Target 2022: 5 Q2 Target value: 3

Means of verification: reports/ research paper

- <u>Primary:</u> Shilpa
- <u>Team:</u> Dohyung, lyke, Ihar, Oguz, Data Engineer, Kwang, UX Specialist
- <u>Internal:</u> Giga Accelerate, Finance teams
- External: Mapbox, ACTUAL

- Primary: Dohyung
- <u>Team</u>: lyke, Shilpa, ICTD person, Data Engineer
- <u>Internal:</u>
- External: Omdena, Jumia, Jobzi,



## **BLOCKCHAIN**

#### PRIORITY / RESULT



#### **Objectives**

- Build initial prototype to proof the concept
- Develop domain expertise on SLAs and accounting
- Playbook with regulatory framework and SLAs for ISPs and internet connectivity for 2-3 countries, as well as data inputs necessary for its accounting
- Work with selected Giga countries to adapt and pilot solution

#### PRIORITY / RESULT



- Further explore NFTs for fundraising and community engagement
- Prototype innovative financing tools (i.e. staking) for financing school connectivity
- Create a marketplace for connectivity (connectivity credits)
- V0 of a connectivity scoring system

#### **Key Results**

#### Map Indicator 6: Functioning prototype developed and showcased to countries

Baseline: 0 (by end of 2021)

Target 2022: 3 Q2 Target value: 0

Means of verification: Working prototype, country feedback

#### Map indicator 7: # of countries deploying nodes (staking)

Baseline: 0 (by end of 2021) Target 2022: 2 countries

Q2 Target value: 1 Means of verification:

Map indicator 8: # of Giga connectivity token

prototypes in countries Baseline: 0 (by end of 2021)

Target 2022: 3 prototypes in 3 countries

Q2 Target value: 0

Means of verification: prototype developed

- Primary: Gerben
- Team: Ihar, Kwang, UX Specialist
- Internal: Giga Country team, Accelerate
- External: Ethereum Foundation, vendor

- Primary: Gerben
- <u>Team</u>: Vladimir, Kwang, UX Specialist
- Internal: Giga Country team, Finance team, Natcoms. PFP
- External: Ethereum Foundation, Snowcrash, vendors, Lemann Foundation



## **COUNTRY SUPPORT**

#### PRIORITY / RESULT

# Country-level Support for Implementation

#### **Objectives**

- Increase efficiency when doing mapping in a country (less resources, less time)
- Unify different data requests and data related country engagements (school data, ICT infrastructure data)
- Create a space for knowledge sharing and collaboration across countries

#### **Key Results**

Map indicator 9: # of additional countries mapping locations and real-time data

Baseline: 41 (by end of 2021)

Target 2022: +5 countries school locations; +6

**Countries RT** 

Q2 Target value: +3 countries; +2 countries

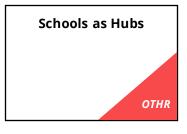
Means of verification: ProCo

- <u>Primary</u>: Country mapping coordinator
- Internal: Aditi, Claire, Gerben, Dohyung, Vladimir
- External: Country governments, local stakholders



## **OTHER**

#### PRIORITY / RESULT



#### **Objectives**

- Demonstrate the potential of schools as nodes once they get connected Pilot payments solution with Jumia
- Models for 'empower' type of data/blockchain product engagements defined

#### **Key Results**

#### Map indicator 10: # of Giga box build and showcased in countries

Baseline: 0 (by end of 2021) Target 2022: 1 Box, 1 country

Q2 Target value: 0

Means of verification: report, blog post

- Primary: Naroa
- <u>Team</u>:
- <u>Internal</u>: Accelerate
- External: Jumia, NYU



#### **GIGA FINANCE 2022 WORK PLANNING**

## CAPITAL FORMATION AND PIPELINE DEVELOPMENT

#### **Priority**

#### Mobilization **Project Capital** Directly and via Alternative Sources

Project

and Country

#### **Objectives**

- Mobilize \$1B, including significant Gigasource capital via connectivity bond issuance or private placement.
- Mobilize incremental \$2B in alternative financing sources for connectivity projects

## **Pipeline Development** Finance Engagement

- Define project pipeline, creating line of sight to \$3B in executable projects
- Build and execute financing strategy for 20k+ school connectivity project
- Identify key internal partners and make targeted outreach; create dashboard to track country-level progress for finance objectives

#### **Indicators & Targets**

#### Finance Indicator 1: \$ amount sourced by Giga

Baseline: \$27M (by end of 2021) Target 2022: \$3B

Q2 Target value: \$0

Means of verification: Sum commitment amounts

#### Finance Indicator 1: \$ amount projects defined

Baseline: \$0M (by end of 2021)

Target 2022: \$3B **Q2 Target value: \$0** 

Means of verification: Sum project sizes

#### Team, Partners, Risks

- Primary: Joakim, Paul
- Team: to be hired
- Internal: PPD, PFP, Accelerate
- External: WEF, IDB, AIIB, WB, IFC, Citi

#### Risks:

- In a bility to identify and engage with decision-makers at sovereigns and others key donor partners
- Unwillingness by PPD to lean into Giga a dvo cacy due to competing interests or other reasons
- In a bility to define projects and demonstrate the capacity to deliver them; general lack of government buy in
- Primary: Karina, Paul
- Team: to be hired
- Internal: Country Offices, Accelerate, Mapping, ITU
- External: Cost Model Vendor (tbd)

#### Risks:

- In a bility to secure the market inputs or tools to produce tenable cost estimates for Giga projects
- In a bility to engage the market for feedback
- In a bility to provide value-add solutions around, procure ment, technology choices and project execution
- Limited engagement by country offices; inability to demonstrate finance value-add



#### **GIGA FINANCE 2022 WORK PLANNING**

## PARTNERSHIPS AND JVs

#### **Priority**

Establish Giga as an Innovation Finance Leader Internally and Externally

#### **Objectives**

- Produce case studies, white papers that Giga can point to as examples of successful projects
- Collaborate with valueadd partners within the UN community (UNCDF, UNICEF USA Impact Fund, etc.)
- Develop target map and outreach strategy for key finance partners
- Develop innovative sustainable business models including elements like blockchain and crypto financing tools

#### **Indicators & Targets**

Finance Indicator 3: White papers or case studies

Baseline: 2 (by end of 2021)

Target 2022: 5

Q2 Target value: 0

Means of verification: Giga website

**Finance Indicator 4: UN Finance partnerships** 

Baseline: 0 (by end of 2021)

Target 2022: 2

Q2 Target value: 0

Means of verification: Finance team verification

Finance Indicator 5: Business model innovations

Baseline: 0 (by end of 2021)

Target 2022: 1

Q2 Target value: 0

Means of verification: Finance team verification

#### Team, Partners, Risks

- <u>Primary</u>: Paul, Karina
- <u>Team</u>: to be hired
- <u>Internal:</u> Accelerate, Mapping, Partnerships, Giga Leadership
- <u>External</u>: Private Sector Partners (TBD), UN agencies

#### Risks:

- In a bility to share examples of delivered projects
- Decline in CSR-related funding/focus; confidentiality issues
- Extended focus on humanitarian efforts



#### **GIGA COMMS 2022 WORK PLANNING**

## **COMMS**

#### Objectives

**Indicators & Targets** 

#### Team, Key Partners, Risks

PRIORITY / RESULT

Stories about the need for school connectivity and Giga's role in delivering it.

- ≥ 2 per month new stories (videos, blog posts etc.) from Giga countries, preferably featuring teachers and students
- ≥ 1 story per month print or broadcast media (Tier 1 international or Giga country national)

• ≥ 1 joint activation per month with Giga partners

 Giga features in 2 international events per month

Partners and governments persuaded to

support Giga

Follower growth and high engagement on social media channels

- x2 followers on all social channels.
- Twitter engagement rate: > 2% (2021: 1.8%)
- LinkedIn engagement tate: > 8% (2021:7%)

Comms Indicator 1: # Stories published on website

Baseline: approx. 10 (2021 figure)

Target 2022: 24 Q2 Target value: 12

Means of verification: Website

Comms indicator 2: # Stories in print or broadcast

**media** Baseline: approx. 5 (2021 figure)

Target 2022: 12 Q2 Target value: 6

Comms indicator 3: # joint activations with partners

Baseline: approx. 6 (2021)

Target 2022: 12+ Q2 Target value: 6+

Means of verification: Giga Twitter feed

Comms indicator 4: # events featuring Giga

Baseline: approx. 20 (2021)

Target 2022: 24+ Q2 Target value: 10+

Means of verification: Giga Twitter feed / comms calendar

Comms indicator 5: SM follower growth

Baseline: TW 4152, LI 1972, IG 1036 (by end of 2021)

Target 2022: TW 8304 LI 3944 IG 2072 Q2 Target value: TW 6228 LI 2956 IG 1554 Means of verification: SM analytics

**Comms indicator 6: SM engagement rates** 

Baseline: TW 1.8%, LI 7% (2021 avg)
Target 2022: TW >2%, LI >8%

Q2 Target value: as above

Means of verification: SM analytics

 TEAM: <u>Comms Lead</u>; SM Manager; ITU Comms (Beatriz)

 KEY PARTNERS: UNICEF Country Offices and ITU Regional Offices; DGCA.

 RISKS: difficulty getting air-time vs. major crises (like Ukraine); persuading COs and ROs to devote resource to developing stories.

- TEAM: <u>Comms Lead</u>; SM Manager; ITU Comms (Beatriz); Partnerships Team
- KEY PARTNERS: 14 partners; PFP; DGCA, UNSG Office.
- RISKS: partnership bureaucracy overwhelms capacity to deliver external content.
- NOTE: mid-way target deliberately less than half due to high number (c.8) of events expecting during UNGA week in September.
- TEAM: Comms Lead; <u>SM Manager</u>; ITU Comms (Beatriz)
- KEY PARTNERS: UNICEF and ITU global channels;
   Country and Regional Offices; 14 partners.
- RISKS: follower growth leads to lower engagement rates (a common phenomenon as followers are less close to day-to-day of project).



#### **GIGA PARTNERSHIPS 2022 WORK PLANNING**

## **PARTNERSHIPS**

**Objectives** 

PRIORITY / RESULT

Build a strong foundation to accommodate growth

- Grow team to 3+ people
- Partnership tiers refresh
- Pooled fund, pooled reporting

Improve coordination to produce better inputs / outputs

- Develop new branded "packages" to attract partners focused on specific themes or outputs
- Develop a system for identifying and managing in-kind contributions sustainably
- Joint UNICEF-ITU partnership model

Capture alternative value and create new partnership opportunities

- Giga affiliate certification programme
- Build "Partner of Giga" community
- Develop well-designed, strategic pitch and proposal templates
- Create intra-UNICEF resource library for Giga partnerships

#### **Indicators & Targets**

Partnerships Indicator 1: # of full-time team members supporting Giga Partnerships

Baseline: 1 (2021) Target 2022: 3 Q2 Target value: 3

Means of verification: Contracts

Partnerships Indicator 2: # of partners brought on with standardized tiered system / reporting

Baseline: 0 (2021)
Target 2022: 3
O2 Target value: 1

Means of verification: Partnership agreements

Partnerships Indicator 3: # of partners (financial) secured through ITU partnership agreements for Giga (100%)

Baseline: 0 (2021)
Target 2022: 3
Q2 Target value: 0

Means of verification: Partnership agreements

Partnerships Indicator 3: # schools recognized as connected by a Giga affiliate

Baseline: 0 (2021) Target 2022: 1,000

Q2 Target value: 0

Means of verification: Project Connect (ideal), manual

record (back-up)
Partnerships Indicator 4: \$\$ mobilized through
partnerships

Baseline: \$27M (2021)
Target 2022: \$40M
Q2 Target value: \$30M

Means of verification: Partnerships Master Tracker

#### Team, Key Partners, Risks

- Team: Sophia (Lead), Galileo
- Key Partners: PFP, select NatComs
- Risks: Dependencies on Operations and Legal teams to set up the pooled fund and approve all corresponding documentation

- · Team: Krister (Lead)
- Key Partners: ITU Partnerships-enabling teams
- Risks: TBD
- Note: Sophia collect necessary info from Krister after the workplanning session with Alex and Chris, planned for Week of April 18
- Team: Sophia, Mauricio, Galileo
- Key Partners: PFP, Project Connect team
- Risks: technical capability to operationalize the tracking of school connectivity; potential pushback from PFP due to perceived cannibalization of potential partners



## **Q2 UPDATE**

## **PARTNERSHIPS**

Objective	Key Result/Priority	Strategies	Indicators / Targets	Q2 Update
	Grow team to 3+ people	<ul> <li>Hire / onboard Account Manager</li> <li>Hire / onboard Partnerships Strategist</li> <li>Hire / onboard ITU Partnerships Specialist</li> <li>Set-up internal reporting, project management system, and team meeting structure</li> </ul>	# of full-time team members supporting Giga Partnerships Baseline: 1 Q2 Target: 3 - <i>Complete</i> Q4 Target: 3	<ul> <li>Three team members onboarded</li> <li>Partnerships team coordination in place: <ul> <li>Trello for progress tracking</li> <li>Biweekly meetings</li> <li>Slack channel</li> </ul> </li> </ul>
Capacity  Build a strong foundation to accommodate growth	Partnership tiers refresh	<ul> <li>Redevelop tiers and corresponding benefits</li> <li>Pressure test with PFP / NatComs to refine and improve</li> </ul>		<ul> <li>Tiers developed and summary doc uploaded to Repository site</li> <li>Next Step: update website to differentiate current partners by tier</li> </ul>
	Pooled fund, pooled reporting	<ul> <li>Create pooled report template and process for annual / bi-annual development</li> <li>Set up a pooled fund</li> </ul>	# of partners brought on with standardized tiered system / reporting Baseline: 0 Q2 Target: 1 – <i>Off track (0)</i> Q4 Target: 3	<ul> <li>Partner reporting schedules all synchronized (pooled and non-pooled)</li> <li>Pooled impact indicators in development</li> <li>Next Step: proceed with pooled report development to leverage across pooled and non-pooled partners</li> <li>Risk: Pooled Fund mechanism on-hold pending host country set-up</li> </ul>



## **Q2 UPDATE**

## **PARTNERSHIPS**

Objective	Key Result/Priority	Strategies	Indicators / Targets	Q2 Update
Quality	<ul> <li>Develop new branded "packages" to attract partners focused on specific themes or outputs</li> <li>Create system for updating / improving on an ongoing basis, including a process for sharing with NatComs and PFP regularly</li> </ul>	N/A	<ul> <li>Core set of pitch products developed and made available on Repository site</li> <li>Next Step: share as resource to NatCom contacts</li> </ul>	
Improve coordination to produce better inputs / outputs	System for identifying & managing in-kind contributions	<ul> <li>Develop a system for identifying and managing in-kind contributions sustainably</li> <li>Identify easy, low-effort "asks" to drive partner engagement</li> </ul>		<ul> <li>Initial framework for in-kind contribution types developed</li> <li>Next Step: build external-facing products to communicate in-kind needs and collab process</li> </ul>
	Joint UNICEF-ITU partnership model (Krister)	<ul> <li>Develop corresponding ITU pitch and proposal materials</li> <li>Develop pipeline for ITU partnerships on Giga</li> </ul>	# of partners (financial) secured through ITU partnership agreements for Giga (100%) Baseline: 0 Q2 Target: 0 – <i>On track</i> Q4 Target: 3	<ul> <li>Draft ITU product pitches in progress</li> <li>Identification of ITU partner pipeline in progress</li> <li>Next Steps: finalize product pitches; setup operational mechanism for joint-collaboration on partnerships</li> </ul>



## **Q2 UPDATE**

## **PARTNERSHIPS**

Objective	Key Result / Priority	Strategies	Indicators / Targets	Q2 Update
Growth	Giga affiliate certification programme	<ul> <li>Develop standards for school connectivity</li> <li>Create brand and incentives for companies that meet standards</li> <li>Develop method for validating standards on an ongoing basis</li> <li>Launch a campaign to attract companies to join</li> </ul>	# schools recognized as connected by a Giga affiliate Baseline: 0 Q2 Target: 0 Q4 Target: 1,000 – at risk	<ul> <li>Initial concept note and standards developed</li> <li><u>Challenge</u>: after initial scoping discussions, it was determined that a major dependency was not ready. Requires Project Connect API to onboard and validate</li> <li>Next Step: (for discussion)</li> </ul>
Capture alternative value and create new partnership opportunities	Build "Partner of Giga" community	<ul> <li>Develop Comms Asset Pack offerings to partners</li> <li>Organize team learning sessions with partners</li> </ul>	N/A	<ul> <li>First Comms Asset Pack in development</li> <li>Dependency: Comms Lead onboarding</li> </ul>
	•		\$\$ mobilized through partnerships Baseline: \$27M Q2 Target: \$30M - depends how counting Spain Q4 Target: \$40M	<ul> <li>Core set of pitch products developed and made available on Repository site</li> <li><u>Decision</u>: don't engage in active resource mobilization efforts at this point, focus on other priorities</li> </ul>



## **Comms tracker - Mar 2022**

	Monthly			Ì		
PRODUCT	target	On track?	Jan	Feb	Mar	Mar Notes
1 Giga core documents (narrative, slides, FAQs) updated quarterly						
2 Build a cross UNICEF-ITU comms team: social; press; design; events.						SM recruitment underway; Comms Lead advertised
3 New stories from Giga countries (esp. images/videos): ≥ 2 per month	2		1	2	3	Teachers from Dominica and Rwanda; Sudan mapping; Kazakhstan rep
$4 \ge 1$ story per month print or broadcast media (Tier 1 international or Giga country national)	1		1	0	0	Struggling to attract interest given international news
5 Giga features in 2 international events per month	2		0	1	1	Citibank Digital Money Symposium
6 ≥ 1 joint activation per month with Giga partners	1		1	0	1	IWD video with Sage/Naza
2x followers on Twitter	346		492	52	82	
TW engagement: > 2% (2021: 1.8%)	2%		5.6%	3.4%	3.1%	
2 x followers on LinkedIn	164		151	178	187	
LI engagement: > 8% (2021: 7%)	8%		5.8%	6.8%	7.3%	
8 Restructure website, incl. new dedicated pages on Map, Finance and Connect						New website launched. Page views up 30%.
9 Raise >\$1m from NFT and other direct fundraising campaigns						NFTs blog post 80k impressions; on UNICEF.org homepage

