

**Our IT / Tech Community is one big family.  
We don't think in colors, we don't think in races or  
genders, we don't think in borders.**



# Keep Ukraine Connected

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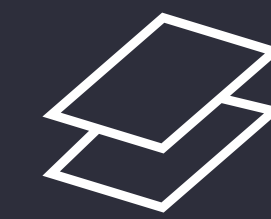
*February 24, 2022*

This was the day everything began.  
War started in Ukraine.

Dark days for Ukrainian people,  
but also for Internet Service Providers in the region.

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## The beginning...

When Russia invaded Ukraine, our chair René Fichtmüller didn't want to stand idly by. He first got together with his friend Patrick, and helped organise two truck's worth of relief, which they dropped off at the Ukrainian border in the second week of March 2022.

However, of course, this was not enough.



## The first challenge:

1. Drive from Berlin to Ukraine. *(11 hrs + 2 hrs sleep)*
2. Meet strangers in a country where war is raging and unload all humanitarian goods from truck to truck and drive back as fast as possible. *(2 hrs)*
3. Then very quickly through local contacts, through gates that suddenly opened, back to the Polish side of the border. *(3 hrs sleep)*
4. Driving back home to Berlin again *(13 hrs)*
5. Done!
6. Or was it...

COME  
BACK  
TO  
CUSTOMS  
YOU CAN GO NOW!  
TAKE YOUR DOCS BACK.





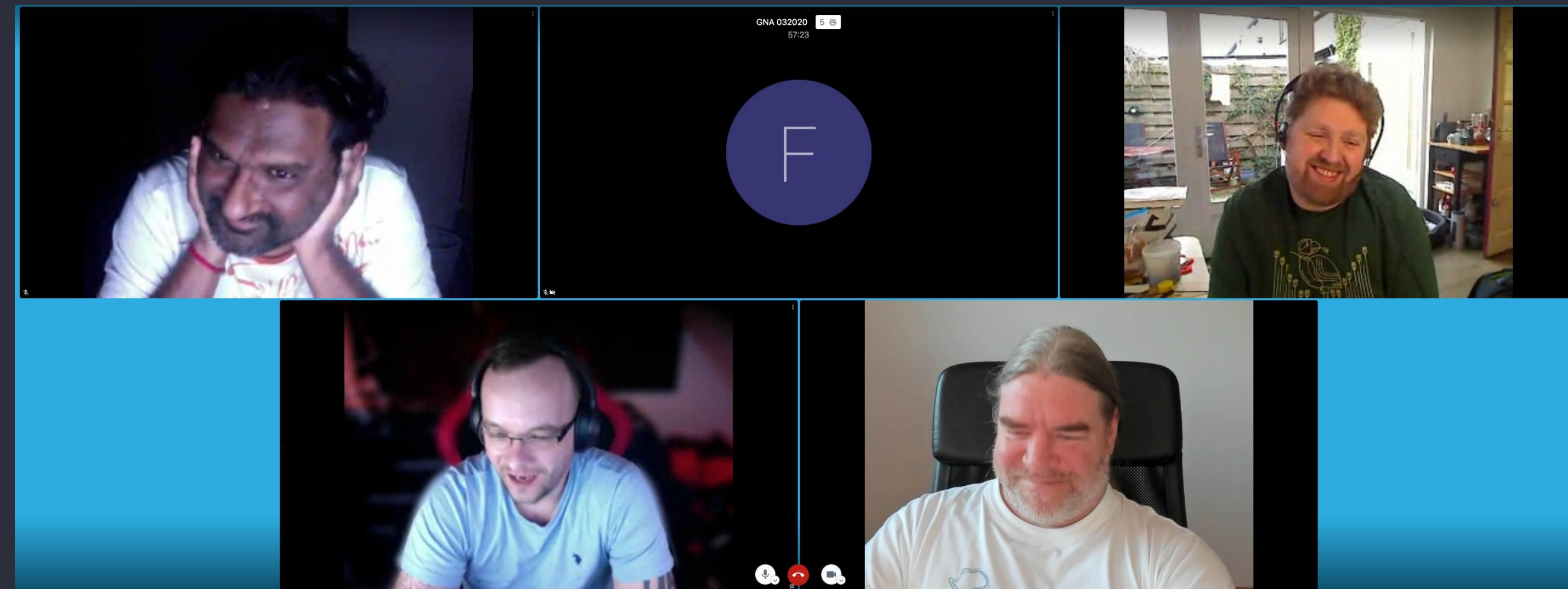
# The next day...

## At the Global NOG Alliance Board Meeting

Rene shared his thoughts on the next steps, and we all agreed that it was time to do exactly what the Global NOG Alliance was founded to do. Help Network Operators.

We called this task force:

# Keep Ukraine Connected

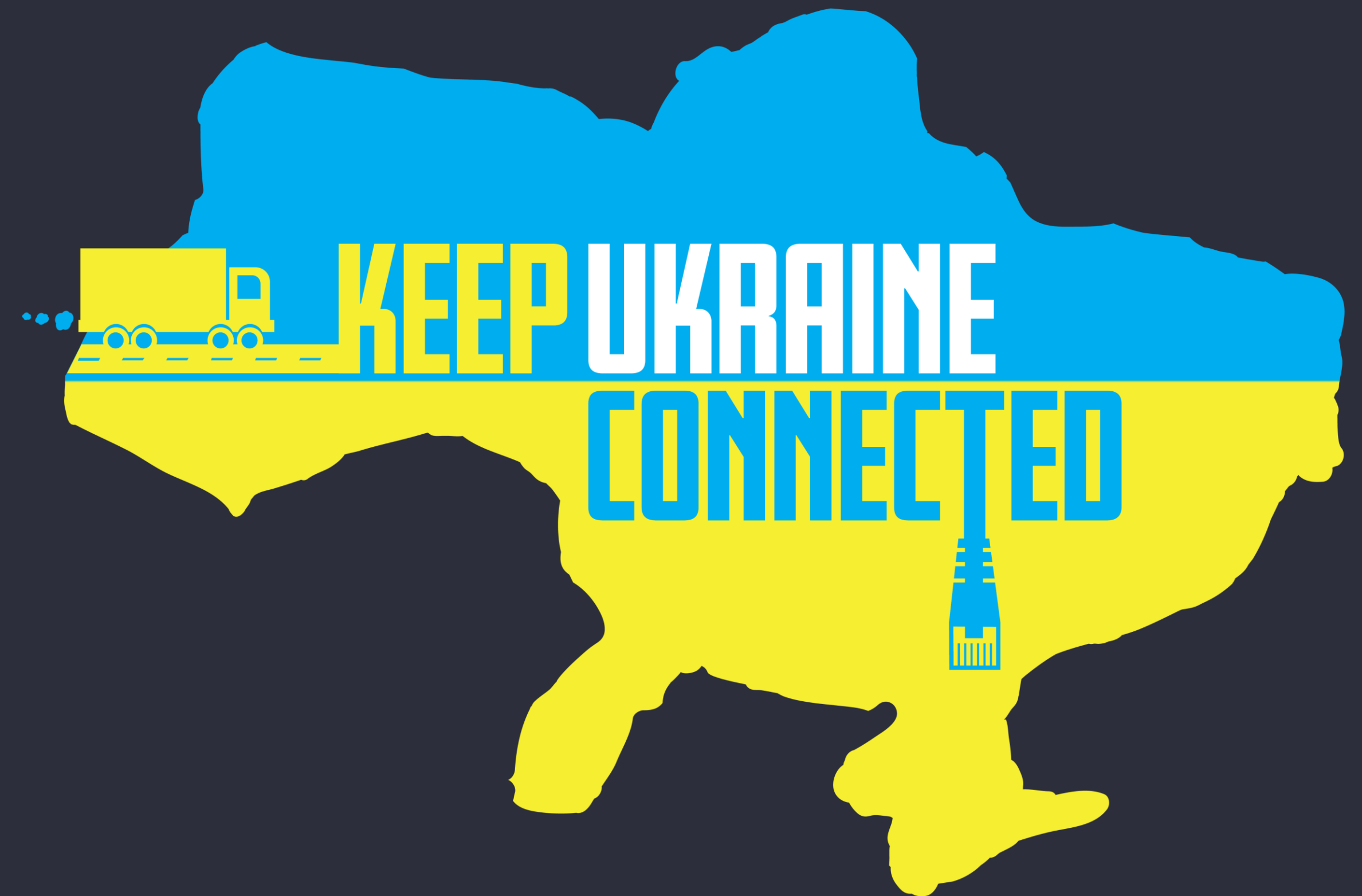


## Our vision & mission

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We wanted to be the facilitator linking the Disaster Region and the global community.

We have contacts in the community and with the manufacturers. We wanted to use these contacts to do good things.



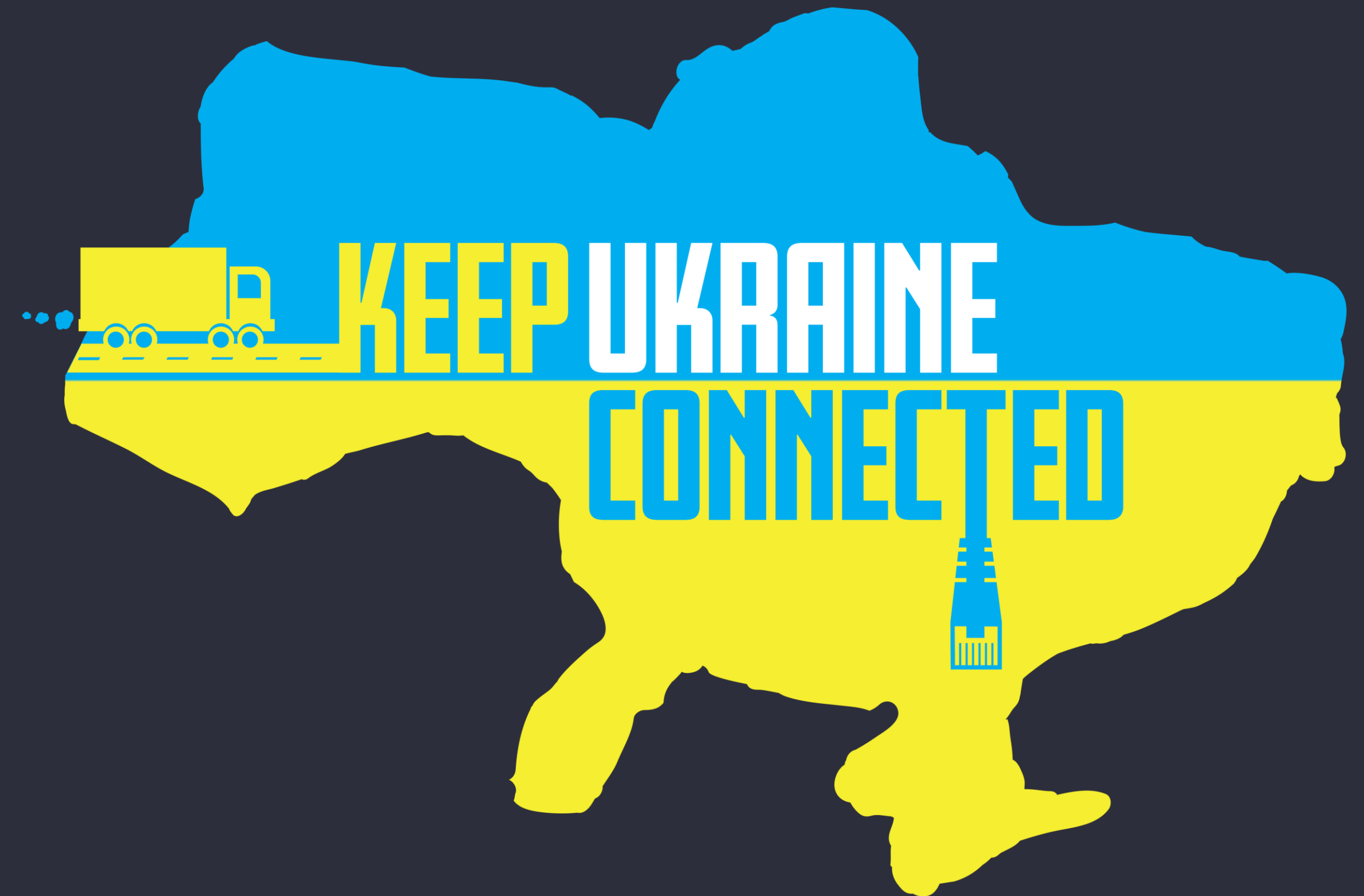


## **Strategy Development**

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We received many offers for donations and also many requests for equipment.

In order to be able to map this properly, we implemented a custom-made Supply & Demand Database.





# From a simple idea, to supply chain managers...

The GNA Supply & Demand Database works very well. Anyone who wants to donate equipment can get a login from us, and can specify what they want to donate.

Using this database, we can manage which donations we've received. This makes it easier for us to keep track of everything, and means we can show people from Ukraine who need equipment what we have in the system.





# Supply & Demand Tool

v1.0

|                                  |  |  |
|----------------------------------|--|--|
| Start typing to filter...        | <input type="checkbox"/> Network Automation & Config Management Software | Multiple Unimus Unlimited Licenses   |
| AUTHENTICATION AND AUTHORIZATION | <input type="checkbox"/> Network equipment                               | 1x Advocent Mergepoint Unity 2016<br>1x Brocade Brocade FastIron Edge 648P<br>1x Brocade Brocade FastIron Edge 648P-POE<br>3x Brocade Brocade FastIron Edge GS 624P<br>2x Brocade FCX-4XG<br>1x Brocade FWS 624G<br>1x DeLL Powerconnect 5324<br>8x Foundry FastIron Edge 2402<br>2x Foundry FastIron Edge 4802-POE<br>1x Foundry FastIron Edge GS 624P<br>3x Foundry FastIron Edge X424<br>2x Foundry FastIron Edge X448<br>1x Foundry FastIron GS 648-POE<br>1x Foundry FastIron GS 648P<br>1x Juniper EX 3200 series<br>1x Juniper J4350<br>1x Juniper M5 Backbone Router<br>1x MRV Optiswitch 906<br>1x Open Gear IM 4208-2-DAC-X2 |
| Groups + Add                     | <input type="checkbox"/> Power Generator                                 | 1x Pramac P2000  |
| CONTACTS                         | <input type="checkbox"/> Power Generators                                | 10x IMOTO 5000 Watt  |
| Contacts + Add                   | <input type="checkbox"/> Power Generators                                | 10x Misc Power Generator 5KW   |
| Organisations + Add              | <input type="checkbox"/> Rack  | 1x Unknown 27U rack  |
| SUPPLY & DEMAND                  |  |  |
| Changes                          |  |  |
| Offers + Add                     |  |  |
| Requests + Add                   |  |  |



# Supply & Demand Tool

## (Donor View)

v2.0

Select offered item to change

Q

Search

Action: 

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Go 0 of 100 selected

| <input type="checkbox"/> | TYPE     | BRAND | 1 ▲ | MODEL                             | 2 ▲ | NOTES  | # OFFERED | CLAIMED | REJECTED | RECEIVED |
|--------------------------|----------|-------|-----|-----------------------------------|-----|--|-----------|---------|----------|----------|
| <input type="checkbox"/> | Hardware |       |     | 27U rack                          |     |  | 1         | 0       | ✖        | ✖        |
| <input type="checkbox"/> | Hardware |       |     | 2900 mAh rechargeable Batteries   |     |  | 8         | 8       | ✖        | ✔        |
| <input type="checkbox"/> | Hardware |       |     | 8+2+2SFP All Gigabit POE Switch   |     | PoE Switch with 2 SFP  | 1         | 1       | ✖        | ✔        |
| <input type="checkbox"/> | Hardware |       |     | Mini Smart Switch                 |     |  | 1         | 1       | ✖        | ✔        |
| <input type="checkbox"/> | Hardware |       |     | PS2 keyboard                      |     |  | 22        | 0       | ✖        | ✖        |
| <input type="checkbox"/> | Hardware |       |     | UPS                               |     | Various UPS, without batteries   | 10        | 0       | ✖        | ✖        |
| <input type="checkbox"/> | Hardware |       |     | USB/PS2 Optical mouse             |     |  | 10        | 0       | ✖        | ✖        |
| <input type="checkbox"/> | Hardware |       |     | XENPAK 10G DWDM Single Mode Fiber |     | variety of DWDM channels, can be used without DWDM MUX. You need to add attenuation for short distance links | 31        | 0       | ✖        | ✖        |
| <input type="checkbox"/> | Hardware |       |     | XENPAK 10G Multie Mode Fiber      |     |  | 5         | 0       | ✖        | ✖        |
| <input type="checkbox"/> | Hardware |       |     | XENPAK 10G Single Mode            |     |  | 5         | 0       | ✖        | ✖        |



# Supply & Demand Tool

## (Requester View)

v2.0

Select requested item to change

Q

Search

Action: 

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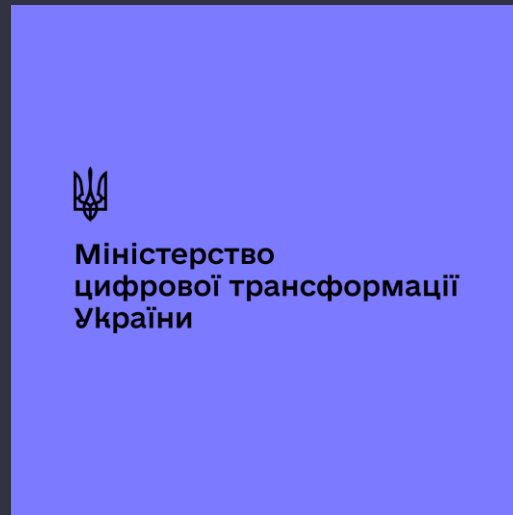
Go 0 of 100 selected

| <input type="checkbox"/> | TYPE     | BRAND | 1 ▲ | MODEL  | 2 ▲ | # REQUIRED | UP TO | ASSIGNED | DELIVERED | CREATED AT            |
|--------------------------|----------|-------|-----|--|-----|------------|-------|----------|-----------|-----------------------|
| <input type="checkbox"/> | Hardware |       |     | 100G-CFP2-LR4                                      |     | 8          | 10    | ✖        | ✖         | April 2, 2022, 6:46 p |
| <input type="checkbox"/> | Hardware |       |     | 24 port switch with SFP uplinks                    |     | 11         | -     | ✖        | ✖         | April 18, 2022, 9:01  |
| <input type="checkbox"/> | Hardware |       |     | Anchor clamp H3 (D)                                |     | 1252       | -     | ✖        | ✖         | April 18, 2022, 9:08  |
| <input type="checkbox"/> | Hardware |       |     | Anchor clamp H3 (D)                                |     | 4092       | -     | ✖        | ✖         | April 18, 2022, 9:05  |
| <input type="checkbox"/> | Hardware |       |     | any model  |     | 1          | 3     | ✖        | ✖         | April 13, 2022, 2:22  |
| <input type="checkbox"/> | Other    |       |     | Catch-all  |     | 1          | -     | ✔        | ✔         | April 21, 2022, 11:5  |
| <input type="checkbox"/> | Hardware |       |     | Coupler PLC-1x8-split-0-SC/UPC-0.9mm               |     | 360        | -     | ✖        | ✖         | April 18, 2022, 9:05  |
| <input type="checkbox"/> | Hardware |       |     | Coupler SC-1x2-1310/1490/1550-50/50-0-SC/UPC-0.9mm |     | 32         | -     | ✖        | ✖         | April 18, 2022, 9:05  |
| <input type="checkbox"/> | Hardware |       |     | CWDM 10GE (SFP+)                                   |     | 6          | -     | ✖        | ✖         | April 8, 2022, 8:51 a |

## Our Friends & Partners in Ukraine

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We are currently working with the organisations listed below. They are helping us with paperwork, permits, and local distribution of the donated equipment.



Ministry of Digital  
Transformation



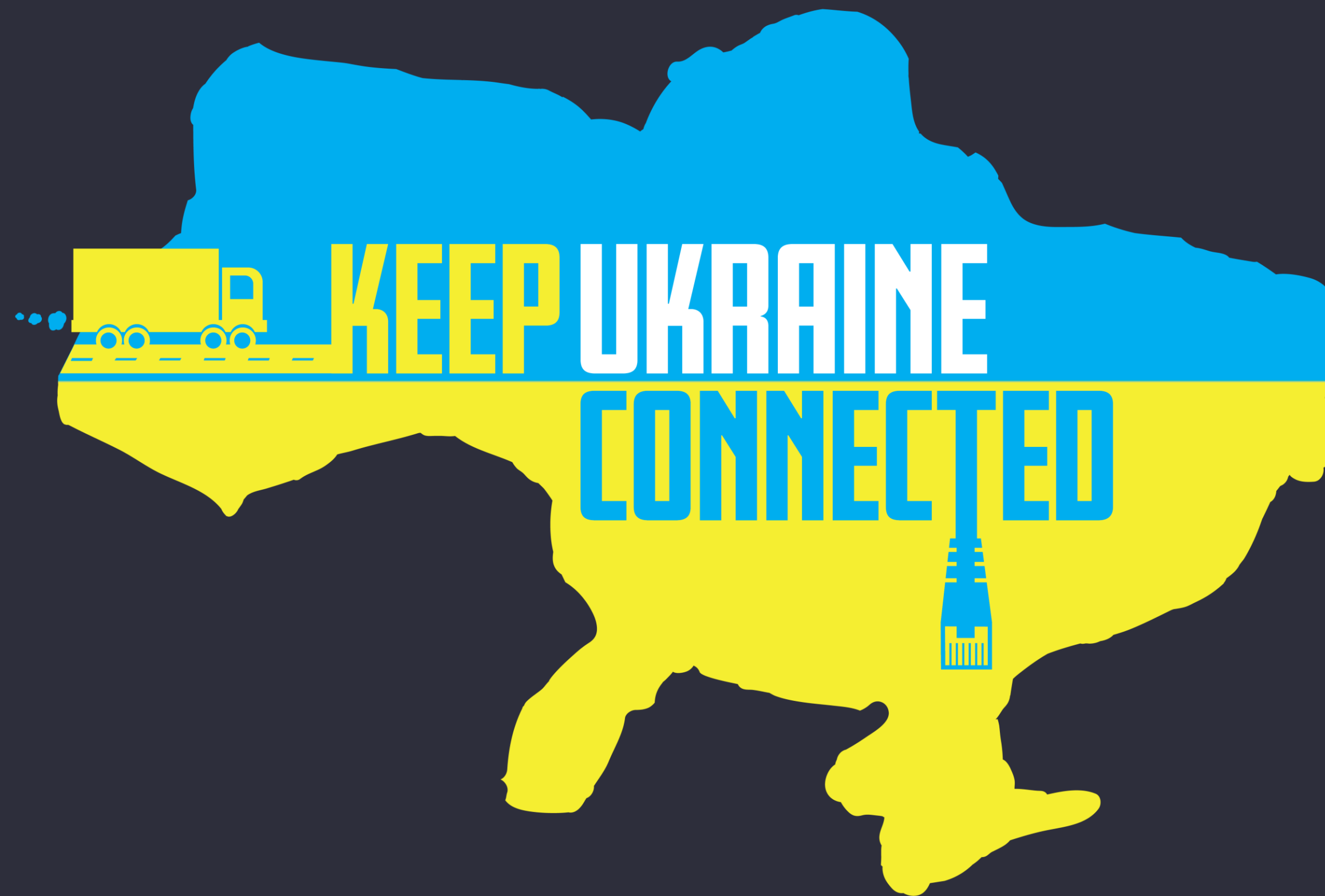
DEPS  
(local distribution)



Ukrainian Internet  
Association



...so why are we doing this?



**Why is the internet important in Ukraine right now?**

**85%** of Ukraine >15 years old had access  
to the Internet in January 2021



# Encrypted communication has exploded since 24 February 2022

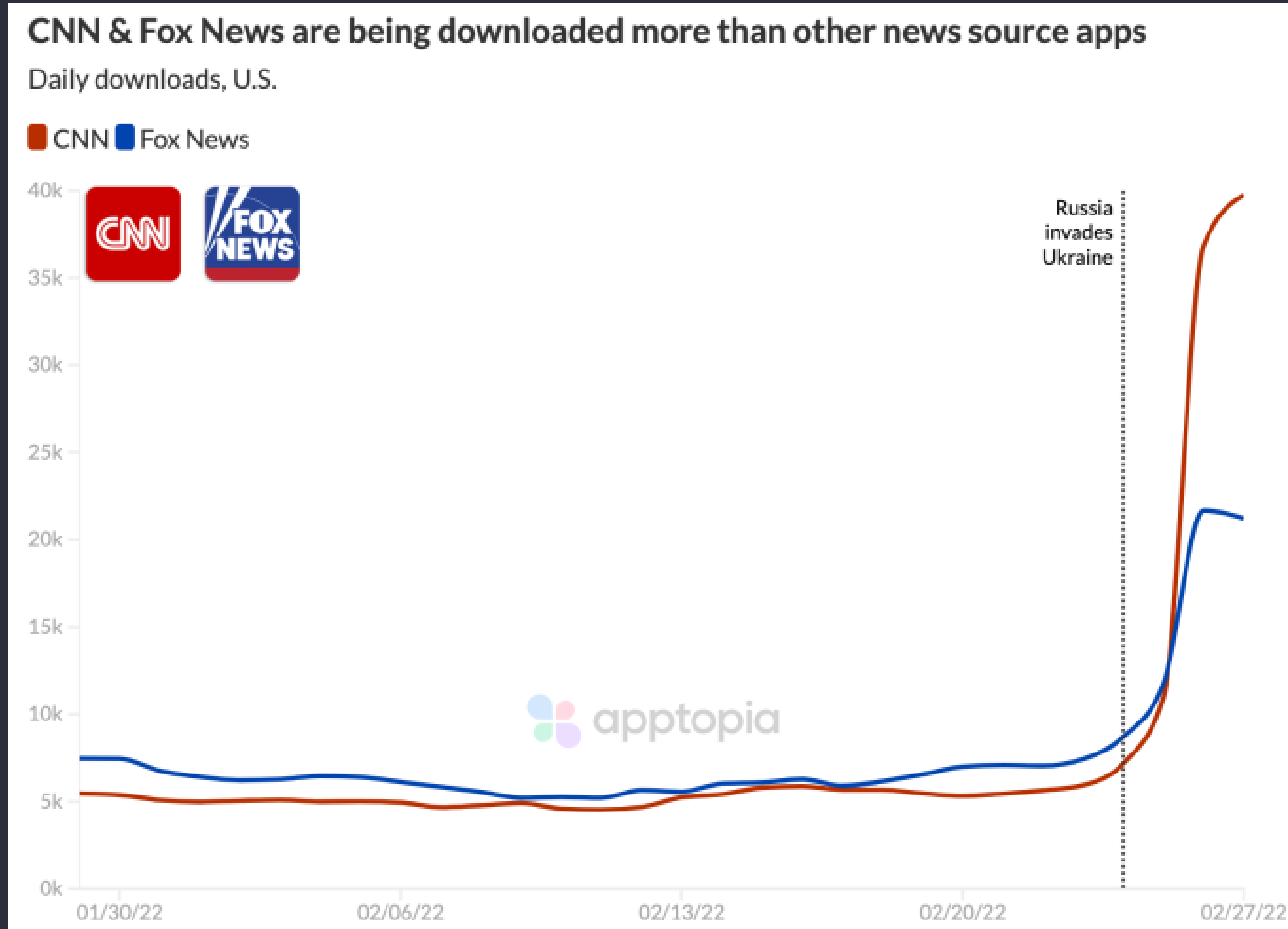
Telegram topped the charts with **54,200** new installs (+25%)

Bridgefy increased from 591 to **28,550** (+4,730%)

Zello grew downloads from 12,540 to **24,990** (+99,3%)

Signal grew downloads **20,6%**

# Accessing international news is reliant on the Internet











*Locat.com.ua*



























# First run to Ukraine

Fully loaded with 14 pallets of equipment and a weight of around 2 tons



Loading a donated splicer!





The customs queue....







8 hours later...



Done! The first of many.

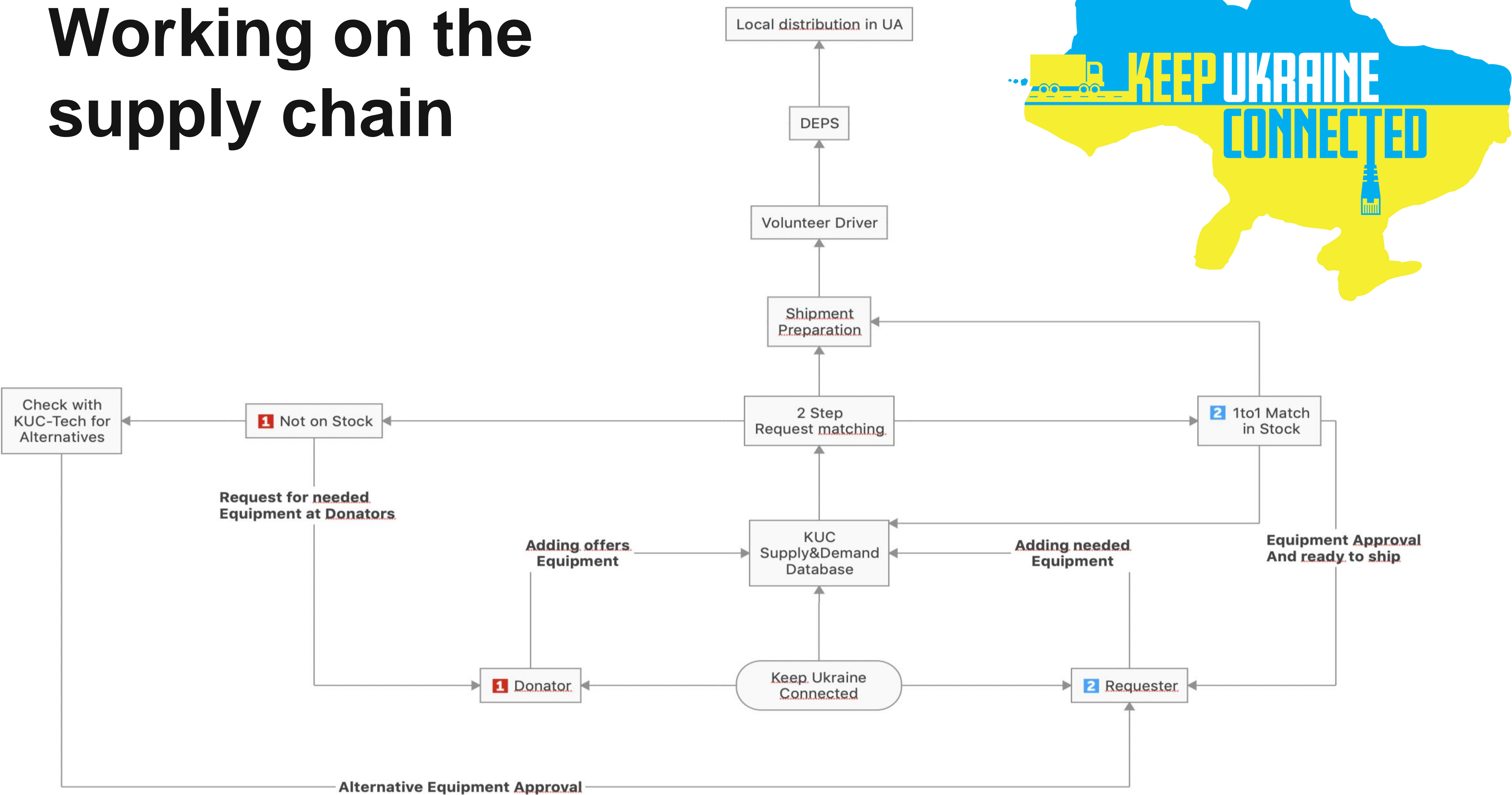




What happens next?

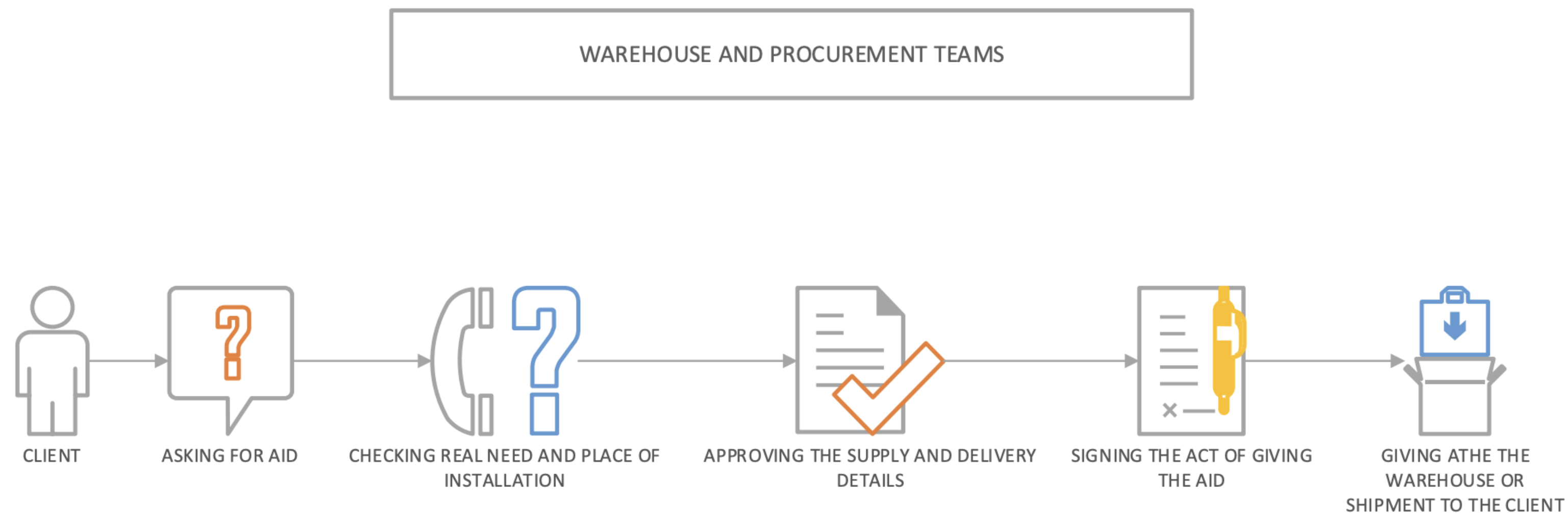


# Working on the supply chain





# Working on the supply chain





# Working on the supply chain



WAREHOUSE AND PROCUREMENT TEAMS



CLIENT RELATIONS AND CARE TEAMS



# Continuing conversations with:

- **Donors**
- **Partners**
- **Governments**

*Poland, Ukraine, EU, customs and more.*



And trying to fit in our real jobs and family too...



Who is behind the Task Force “Keep Ukraine Connected?”



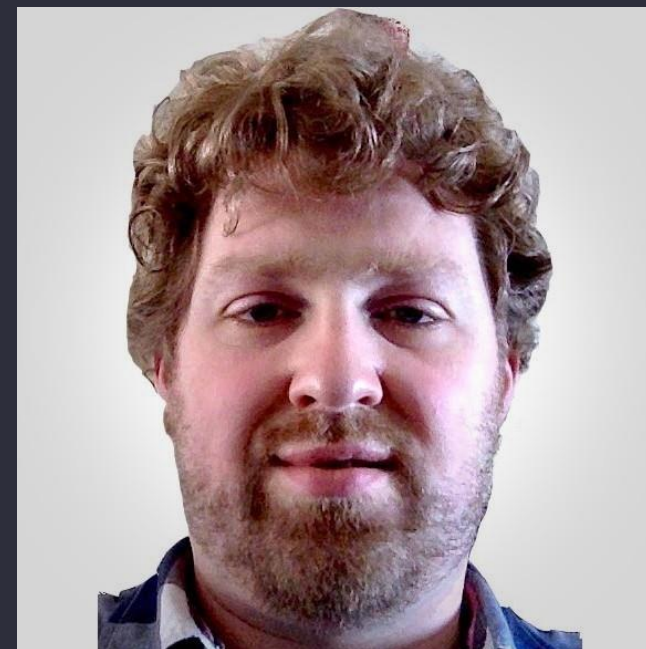
# Who is behind the Task Force Keep Ukraine Connected?



*Corinne Pritchard*



*Nathalie Trenaman*



*Sander Steffann*



*Jan Žorž*



*Rene Fichtmueller*



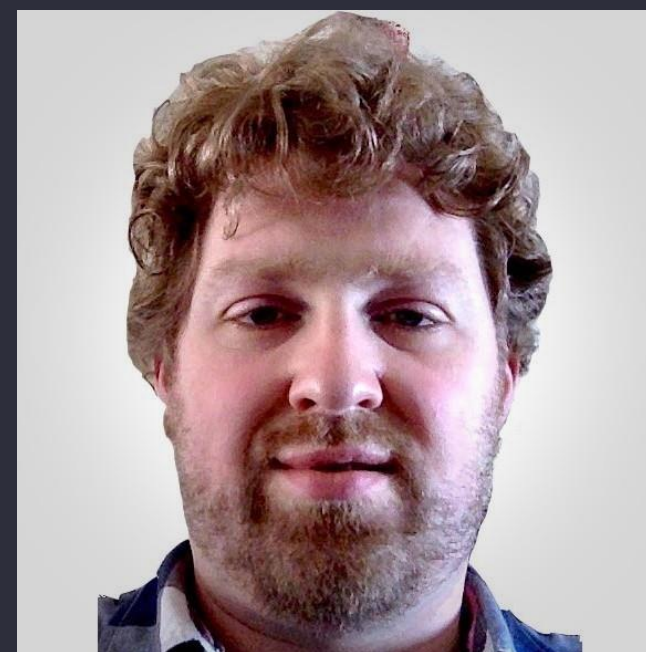
# Who is behind the Task Force Keep Ukraine Connected?



*Corinne Pritchard*



*Nathalie Trenaman*



*Sander Steffann*



*Jan Žorž*



*Rene Fichtmueller*



*Erik Bais*



*Daniel Houben*



*Marcin Kuczera*



Thanks also goes to our wider KUC team...

Natalya Klitna (APPK)

Bogdana Piven (Regulatory Authority – NCEK)

Dmitry Knyazev and everyone at DEPS

Team at Ukraine Internet Association

Team @ Ukraine Ministry for Digital Transformation

Julia Troyan



# Big thanks to all of you that donated hardware and/or funds!



ANEXIA



BCIX



CZ.NIC



DE-CIX



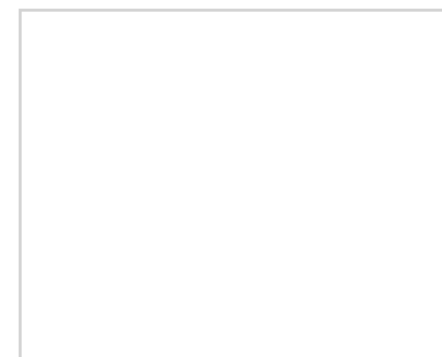
Flexoptix GmbH



Freie  
Universität  
Berlin



Global NOG  
Alliance



NetArt



NIX.cz



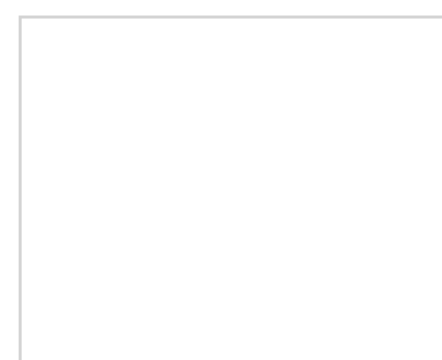
Prefix Broker



ScaleUp  
Technologies  
GmbH & Co. KG



Tucows



U.S. Internet



Unimus



ZeroTier

...and also to all of you who are considering helping in the future 😊



# Help us get more splicers!

Fiber optic splicers are our most requested tool. We send them to areas where repairs are most needed. Please donate if you can.

€4,998

How much a decent splicer costs

€2636.67

How much we've raised for the next splicer

8/20

Number of splicers purchased\*

[keepukraineconnected.org](https://keepukraineconnected.org) > Splicer Fundraising

The current needs of ISP providers

## 1. Optical splicers

- For trunk optical lines

Inno Instrument - View 5, 7, 8

Fujikura - FSM-60, 70, 80, 86S, 41S

Sumitomo - T-57, TYPE-72C, 81C

Fitel - S-177, 178, 179

Current quantity needed 20 pcs

- For subscribers, FTTH, last mile networks

Inno Instrument - View 1, 3, M7

Fujikura - FSM- 19S, 22S, 23S, 36S

Sumitomo - TYPE-71BS, T-400S, 502S

Fitel - S- 153A

Current quantity needed 40 pcs



**Thank you!**

**Mail us: [ukraine@nogalliance.org](mailto:ukraine@nogalliance.org)**