



**A community joint venture
— for success**



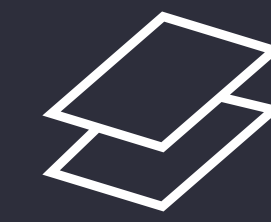
Keep Ukraine Connected

February 24, 2022

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

Dark days for Ukrainian people,
but also for Internet service providers

„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.“



The beginning...

When Russia invaded Ukraine, our chair René Fichtmüller didn't want to stand idly by. His first action was to get together with his friend Patrick, and help organise two truck's worth of relief (trucks courtesy of Wemme Events), 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!

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

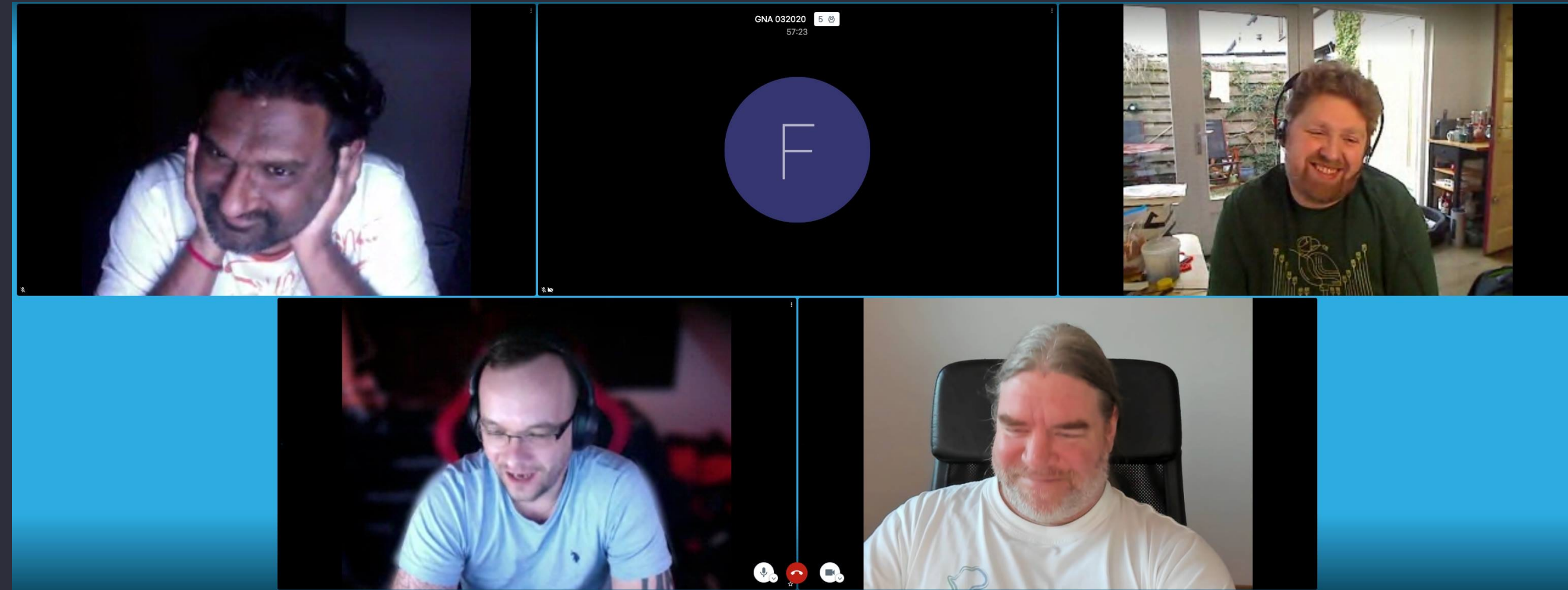


Everything started with a Global NOG Alliance Board meeting

After Rene shared his thoughts, 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 project „Keep Ukraine Connected“

The goal of our task force: Evaluate how we can help, and find contacts in Ukraine who can tell us what is needed.



Our Vision & Mission

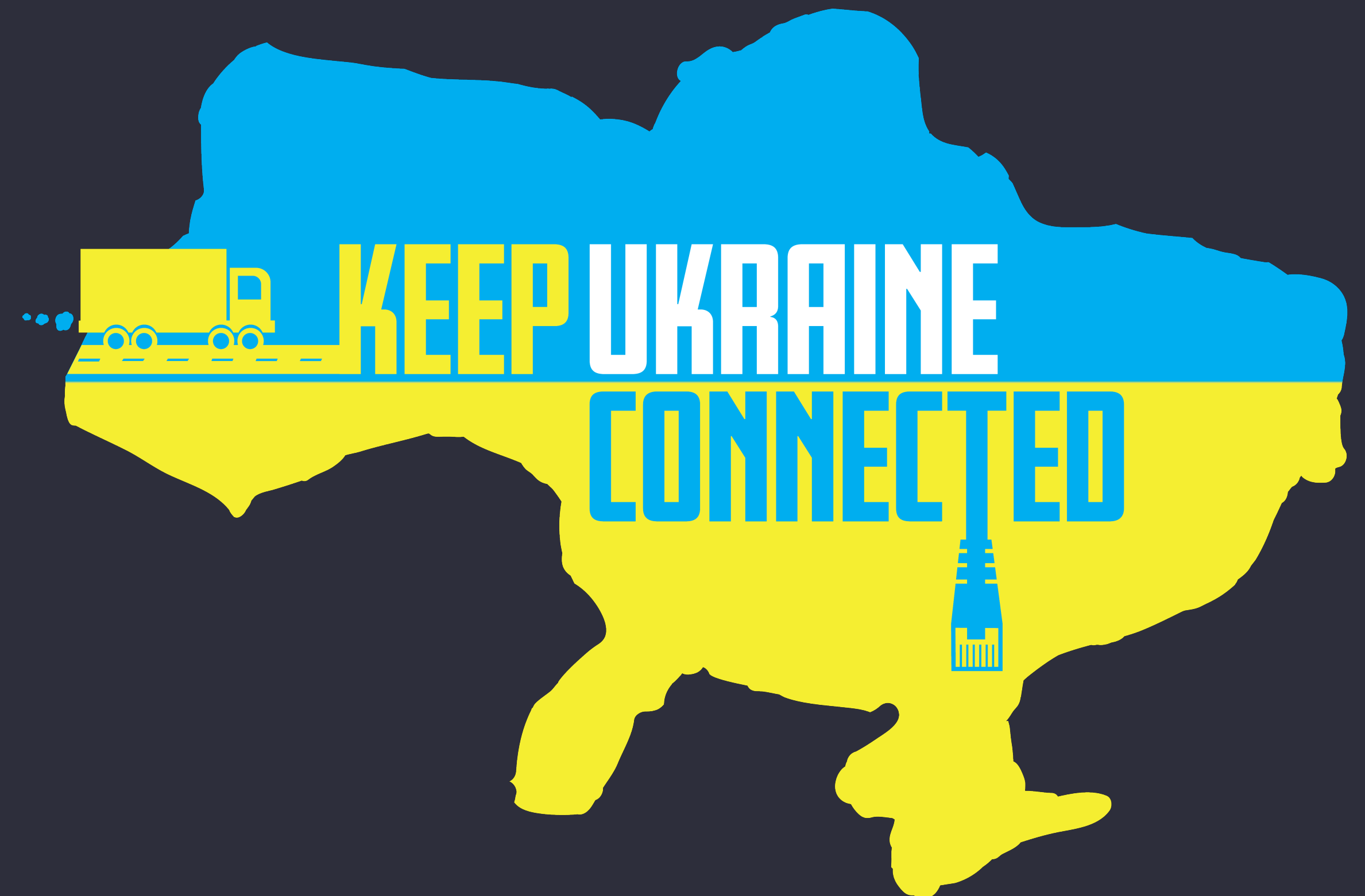
We want to be the facilitator linking the Disaster Region and the global community.

We have contacts in the community and also with the manufacturers, so we want to use these contacts to do good things.

Strategy Development

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

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



From task force members to supply chain manager...

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.



Start typing to filter...	
AUTHENTICATION AND AUTHORIZATION	
Groups + Add	
CONTACTS	
Contacts + Add	
Organisations + Add	
SUPPLY & DEMAND	
Changes	
Offers + Add	
Requests + Add	
	<div><div><div><div><div></div><div>Network Automation & Config Management Software</div></div><div>Multiple Unimus Unlimited Licenses</div></div><div><div><div></div><div>Network equipment</div></div><div>1x Advocent Mergepoint Unity 2016 1x Brocade Brocade FastIron Edge 648P 1x Brocade Brocade FastIron Edge 648P-POE 3x Brocade Brocade FastIron Edge GS 624P 2x Brocade FCX-4XG 1x Brocade FWS 624G 1x DeLL Powerconnect 5324 8x Foundry FastIron Edge 2402 2x Foundry FastIron Edge 4802-POE 1x Foundry FastIron Edge GS 624P 3x Foundry FastIron Edge X424 2x Foundry FastIron Edge X448 1x Foundry FastIron GS 648-POE 1x Foundry FastIron GS 648P 1x Juniper EX 3200 series 1x Juniper J4350 1x Juniper M5 Backbone Router 1x MRV Optiswitch 906 1x Open Gear IM 4208-2-DAC-X2</div></div></div><div><div><div><div><div></div><div>Power Generator</div></div><div>1x Pramac P2000</div></div><div><div><div></div><div>Power Generators</div></div><div>10x IMOTO 5000 Watt</div></div><div><div><div></div><div>Power Generators</div></div><div>10x Misc Power Generator 5KW</div></div><div><div><div></div><div>Rack</div></div><div>1x Unknown 27U rack</div></div><div><div><div></div><div>Rack</div></div><div>1x Triton RMA-18-A68-CAX-A1</div></div><div><div><div></div><div>Router</div></div><div>1x Cisco 2921</div></div><div><div><div></div><div>Router</div></div><div>1x Cisco ISR1100</div></div><div><div><div></div><div>Router</div></div><div>1x Cisco 7606 Multiple Cisco WS-SUP720-3B Multiple Cisco WS-X6724-SFP V07 3x OEM XENPAK-10GB-LR</div></div></div><div><div><div></div><div>Routers</div></div><div>Multiple Cisco 6500</div></div></div></div>

Supply & Demand Tool

KUC Supply & Demand Tool v1.0

Supply & Demand Tool (Login)

KUC Supply&Demand Tool v2.0

GNA Keep Ukraine Connected back-end

Username:

Password:

[Forgotten your password or username?](#)

Log in

If you don't have an account yet please create one:

Create account

Supply & Demand Tool (Donor View)

KUC Supply&Demand Tool v2.0

Select offered item to change

Search

Action:

Go

0 of 100 selected

<div></div>	TYPE	BRAND	1 <div></div>	MODEL	2 <div></div>	NOTES	# OFFERED	CLAIMED	REJECTED	RECEIVED
<div></div>	Hardware			27U rack			1	0	<div></div>	<div></div>
<div></div>	Hardware			2900 mAh rechargeable Batteries			8	8	<div></div>	<div></div>
<div></div>	Hardware			8+2+2SFP All Gigabit POE Switch		PoE Switch with 2 SFP	1	1	<div></div>	<div></div>
<div></div>	Hardware			Mini Smart Switch			1	1	<div></div>	<div></div>
<div></div>	Hardware			PS2 keyboard			22	0	<div></div>	<div></div>
<div></div>	Hardware			UPS		Various UPS, without batteries	10	0	<div></div>	<div></div>
<div></div>	Hardware			USB/PS2 Optical mouse			10	0	<div></div>	<div></div>
<div></div>	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	<div></div>	<div></div>
<div></div>	Hardware			XENPAK 10G Multie Mode Fiber			5	0	<div></div>	<div></div>
<div></div>	Hardware			XENPAK 10G Single Mode			5	0	<div></div>	<div></div>
<div></div>	Hardware			XENPAK to SFP/SFP+ adapter			3	0	<div></div>	<div></div>
<div></div>	Hardware			XFP 10G Single Mode Fiber			10	0	<div></div>	<div></div>
<div></div>	Hardware	3Com		3300XM		24x 100Mbps	5	0	<div></div>	<div></div>
<div></div>	Hardware	3Com		4200G		24x gbe + 4x optic	1	0	<div></div>	<div></div>

Supply & Demand Tool (Requester View)

KUC Supply & Demand Tool v2.0

Select requested item to change

Q

Search

Action:

▼

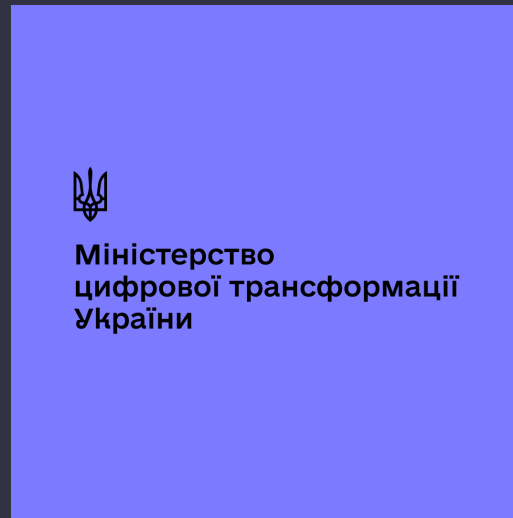
Go

0 of 100 selected

<input type="checkbox"/>	TYPE	BRAND	1 ▲	MODEL	2 ▲	# REQUIRED	UP TO	ASSIGNED	DELIVERED	CREATED AT	ITEM OF
<input type="checkbox"/>	Hardware			100G-CFP2-LR4		8	10	✖	✖	April 2, 2022, 6:46 p.m.	UARnet: Optic Modules
<input type="checkbox"/>	Hardware			24 port switch with SFP uplinks		11	-	✖	✖	April 18, 2022, 9:01 a.m.	Home-Net: Mykolaiv region Bashtanka
<input type="checkbox"/>	Hardware			Anchor clamp H3 (D)		1252	-	✖	✖	April 18, 2022, 9:08 a.m.	Home-Net: Konotop, Sumy region
<input type="checkbox"/>	Hardware			Anchor clamp H3 (D)		4092	-	✖	✖	April 18, 2022, 9:05 a.m.	Home-Net: Chernihiv Chernihiv region
<input type="checkbox"/>	Hardware			any model		1	3	✖	✖	April 13, 2022, 2:22 p.m.	UARnet: welding machine
<input type="checkbox"/>	Other			Catch-all		1	-	✔	✔	April 21, 2022, 11:52 a.m.	DEPS TELECOM LLC (for Ukraine Distribution with UIA): Catch-all for first shipment
<input type="checkbox"/>	Hardware			Coupler PLC-1x8-split-0-SC/UPC-0.9mm		360	-	✖	✖	April 18, 2022, 9:05 a.m.	Home-Net: Chernihiv Chernihiv region
<input type="checkbox"/>	Hardware			Coupler SC-1x2-1310/1490/1550-50/50-0-SC/UPC-0.9mm		32	-	✖	✖	April 18, 2022, 9:05 a.m.	Home-Net: Chernihiv Chernihiv region
<input type="checkbox"/>	Hardware			CWDM 10GE (SFP+)		6	-	✖	✖	April 8, 2022, 8:51 a.m.	3NET LLC: Restoration of telecommunication infrastructure
<input type="checkbox"/>	Hardware			CWDM 1GE (SFP)		6	-	✖	✖	April 8, 2022, 8:51 a.m.	3NET LLC: Restoration of telecommunication infrastructure
<input type="checkbox"/>	Hardware			CWDM MUX/DEMUX 8ch(or 4ch)		6	-	✖	✖	April 8, 2022, 8:51 a.m.	3NET LLC: Restoration of telecommunication infrastructure
<input type="checkbox"/>	Hardware			FOB-04-16		105	-	✖	✖	April 18, 2022, 9:08 a.m.	Home-Net: Konotop, Sumy region
<input type="checkbox"/>	Hardware			FOB-04-16		320	-	✖	✖	April 18, 2022, 9:05 a.m.	Home-Net: Chernihiv Chernihiv region

Our Friends & Partners in Ukraine *(as of April 2022)*

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

...why are we doing this?

And why the internet is so important for Ukraine?

85% of Ukraine's population older than 15 have had access to Internet in January 2021

10 Million Facebook Users

7.3 Million Instagram Users





Locat.com.ua















What happened in April 2022?

8th to 14th of April 2022

DE- CZ- AT- SLO- AT- CZ- PL- UA- PL- DE



3132 Kilometer, 44 Hours driving

Collecting Equipment at BCIX



Collecting Equipment Freie Universität Berlin/ ZEDAT



Empty House... Happy Wife



Collecting Equipment NIC.cz & Interview (Prague Part I)



Collecting Equipment NetArt (Prague Part II)



Collecting Equipment NIX.cz, fretel, praha12.com (Prague Part III)



Next Stop: SLO

Only for the records... never leave the Highway



Collecting Equipment 6connect & Xenia (SLO)



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

Next Stop... Border of Ukraine

13th March 2022 – 11:32am









Meeting Point Gas Station 07:30pm



Meeting Point Gas Station 07:30pm

08:25pm... DONE



What happened afterwards?

Specific requests from Network Operators in Ukraine		
✖ 0x	✖ 12x Communications Supply Corp WES-100GAOC-3M	✖ 1x Juniper EX2300-C-RMK
✖ 1x DVP-765 DVP-765	✖ 20x D-Link DES-3526 <i>access network</i>	✖ 8x Juniper JNP-QSFP-100G-LR4 <i>Juniper Networks JNP-QSFP-100G-LR4 Compatible 100GBASE-LR4 QSFP28</i>
✖ 1x Juniper EX2200-24P-4G	✖ 40x D-link DES-3526 <i>access level equipment Ethernet</i>	✖ 8x Juniper JNP-QSFP-40G-LR4 <i>Juniper Networks JNP-QSFP-40G-LR4 compatible 40GBASE-LR4 QSFP+</i>
✖ 1x Juniper QFX5100-24Q-AFI	✖ 3x D-Link DGS-1510 – 28XS/ME <i>switch</i>	✖ 4x Juniper MIC-3D-2XGE-XFP <i>Juniper MIC-3D-2XGE-XFP 2-Port 10G XFP Modular Interface Card For MX80 MX104 (if MX80)</i>
✖ 10x 100G-CFP2-LR4	✖ 3x D-Link DGS-3000 – 28XS/B1A <i>switch</i>	✖ 1x Juniper MPC-3D-16XGE-SFP,
✖ 11x 24 port switch with SFP uplinks	✖ 2x D-Link DGS-3120 – 24PC <i>switch</i>	✖ 1x juniper MPC-3D-16XGE-SFPP-R-B
✖ 4092x Anchor clamp H3 (D)	✖ 3x Dell R740xd 32-Core Server 2x Gold 6142 2.6GHz 64Gb DDR	✖ 2x Juniper MPC4E-3D-32XGE-IR-B <i>network hardware for disaster recovery location</i>
✖ 1252x Anchor clamp H3 (D)	✖ 3x Dell S4810p <i>to restore node in Izyum</i>	✖ 2x Juniper MPC5E (6x40GE + 24x10GE) <i>MX-480 MPC</i>
✖ 3x any model <i>welding machine</i>	✖ 2x Eaton 5P1550GR-Z2 <i>UPS for access network</i>	✖ 2x Juniper MPC7E-MRATE
✖ 360x Coupler PLC-1x8-split-0-SC/UPC-0.9mm	✖ 2x Eaton EBP-0807 <i>UPS for access network</i>	✖ 1x Juniper MS-MPC-128G
✖ 32x Coupler SC-1x2-1310/1490/1550 – 50/50 – 0-SC/UPC-0.9mm	✖ 4x Ekinops C200 <i>With cards PM 200FRS02</i>	✖ 4x Juniper MS-MPC-128G <i>MX-480 multiservice MPC</i>
✖ 6x CWDM 10GE (SFP+) <i>CWDM 10GE (SFP+)</i>	✖ 4x ekinops C200	✖ 1x Juniper MX-204 <i>Dual AC power</i>
✖ 6x CWDM 1GE (SFP) <i>CWDM 1GE (SFP)</i>	✖ 3x ekinops PM200FRS02	✖ 2x Juniper MX-480 CHAS-BP-MX480-S <i>MX-480 chassis</i>
✖ 6x CWDM MUX/DEMUX 8ch(or 4ch) <i>CWDM MUX/DEMUX 8ch(or 4ch)</i>	✖ 3x ekinops RM200FRS02-WB	✖ 1x Juniper mx204 <i>core BGP router</i>
✖ 320x FOB-04 – 16	✖ 5x Elix SL-01P <i>field engineer</i>	✖ 2x Juniper MX204 <i>Juniper MX204 Router</i>
✖ 105x FOB-04 – 16	✖ 2x eltek flatpack s <i>like this https://www.eltek.com/products/flatpack-s-1u-bulk-feed/</i>	✖ 2x juniper mx204
✖ 8x GPL 12 – 100 battery	✖ 1x EXFO MAX-730C-SM8-XX <i>EXFO MAX-730C-SM8 1310/1550/1650 nm</i>	✖ 1x Juniper MX240 Chassis
✖ 4x GPL 12 – 100 battery		

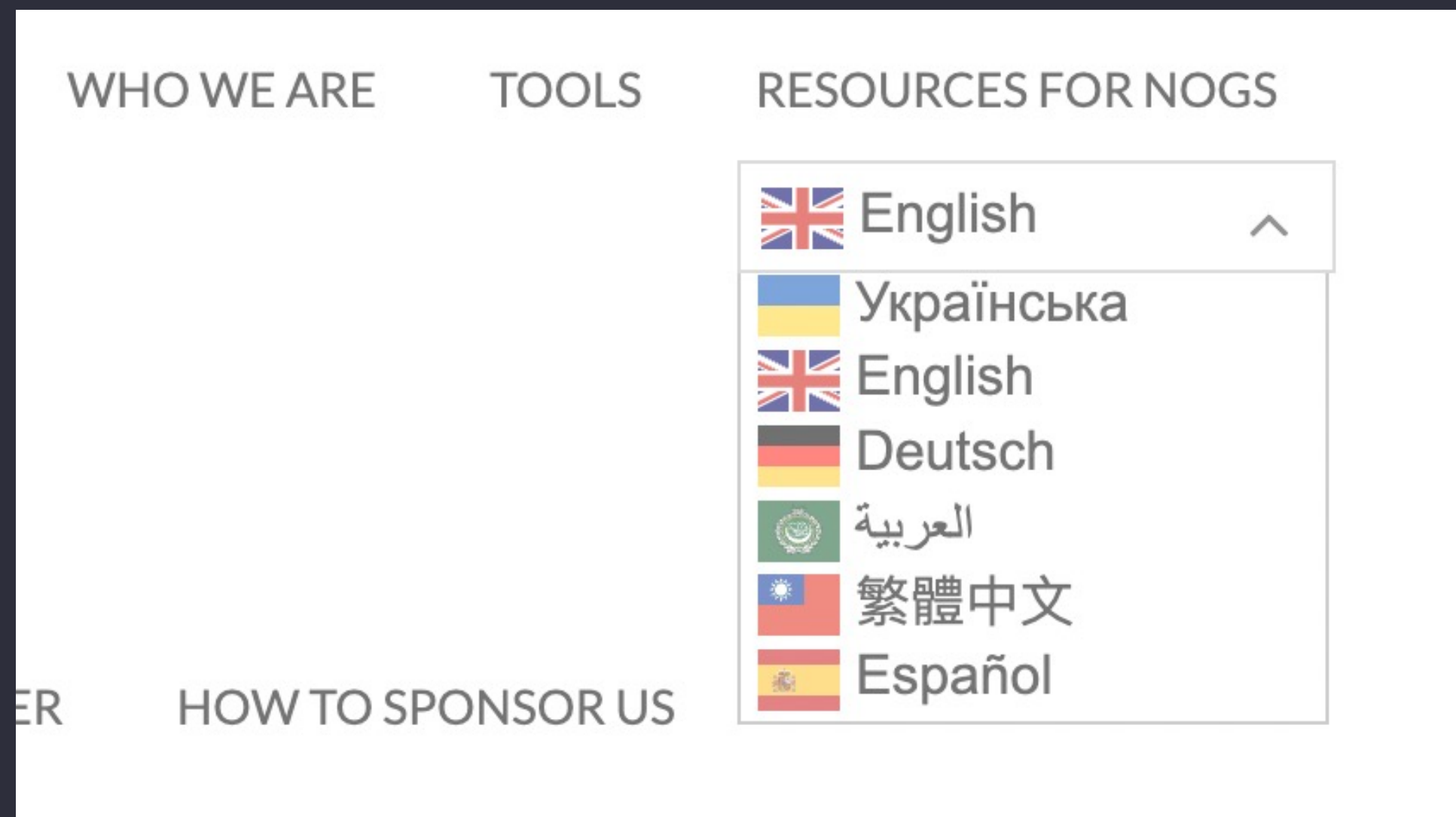
We added requests on our website

When you have some equipment which matches with the requested equipment, you can send a mail out directly from the list and offer it.



Full Ukrainian Language support

We added full Ukrainian Language Support to our Supply & Demand Database

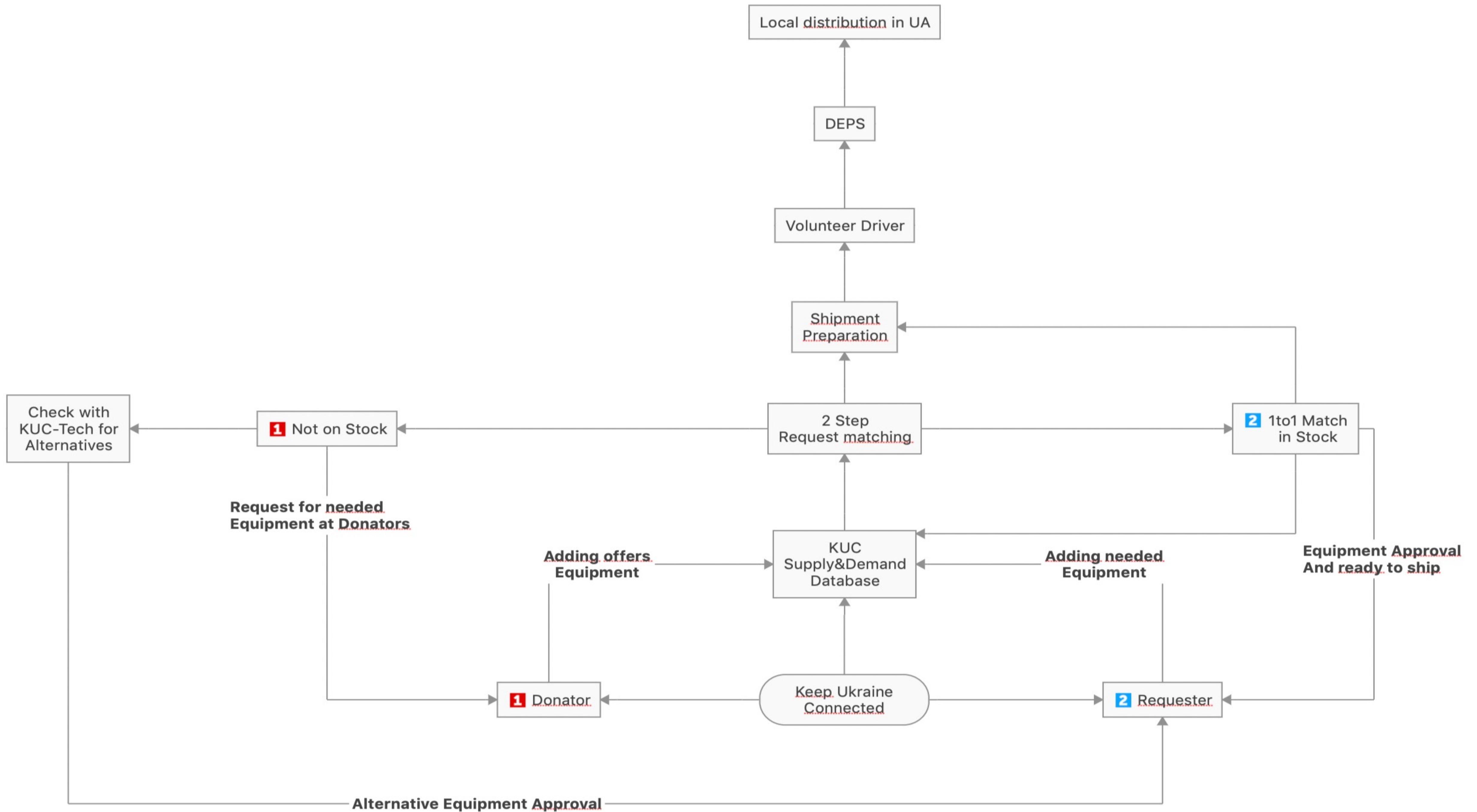


Multi Language Website

We added multi-language support
to our website

Our daily Keep Ukraine Connected work?

1. Working on a stable Concept for the Future



1. Working on a stable Concept for the Future

2. Conversations with Donors (around 15 Mio €)

1. Working on a stable Concept for the Future
2. Conversations with Donors (around 15 Mio €)
3. Conversations with Partners

1. Working on a stable Concept for the Future
2. Conversations with Donors (around 15 Mio €)
3. Conversations with Partners
4. Conversations with PO & UA Government/ Customs/ BC

1. Working on a stable Concept for the Future
2. Conversations with Donators (around 15 Mio €)
3. Conversations with Partners
4. Conversations with PO & UA Government/ Customs/ BC
5. normal daily work and Family

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

Who is behind the Task Force Keep Ukraine Connected?



Corinne Pritchard

Who is behind the Task Force Keep Ukraine Connected?



Corinne Pritchard



Nathalie Trenaman

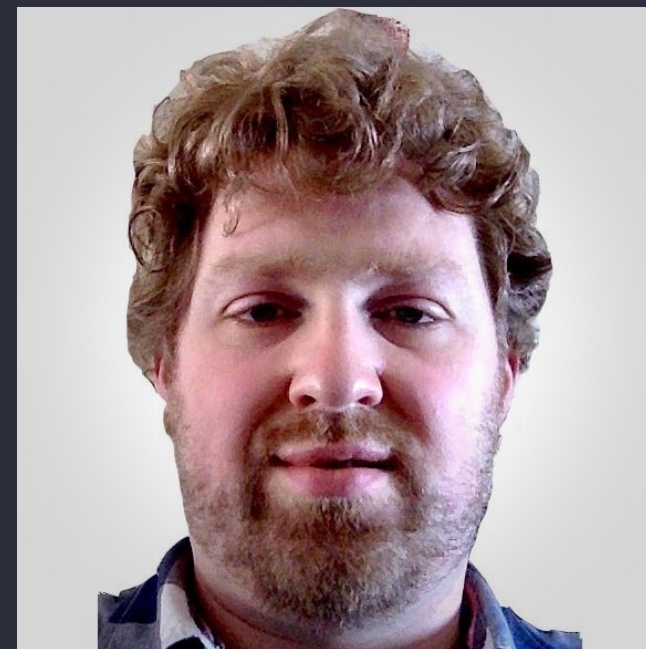
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Sander Steffann

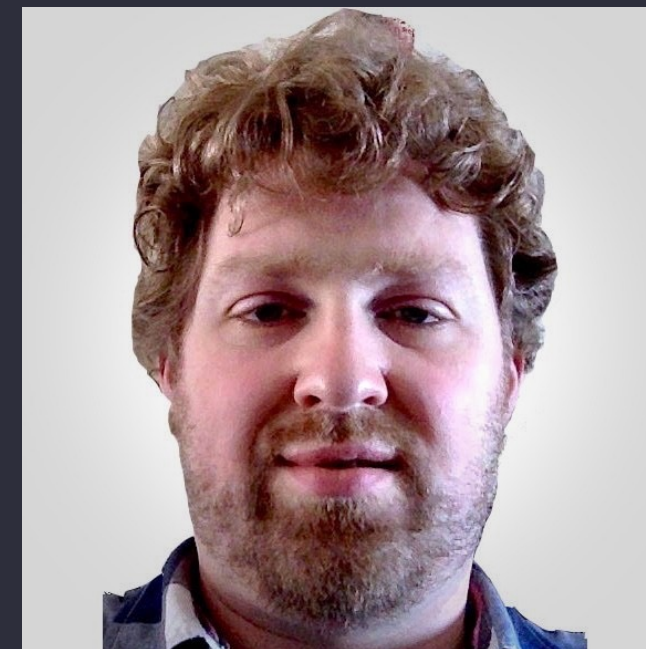
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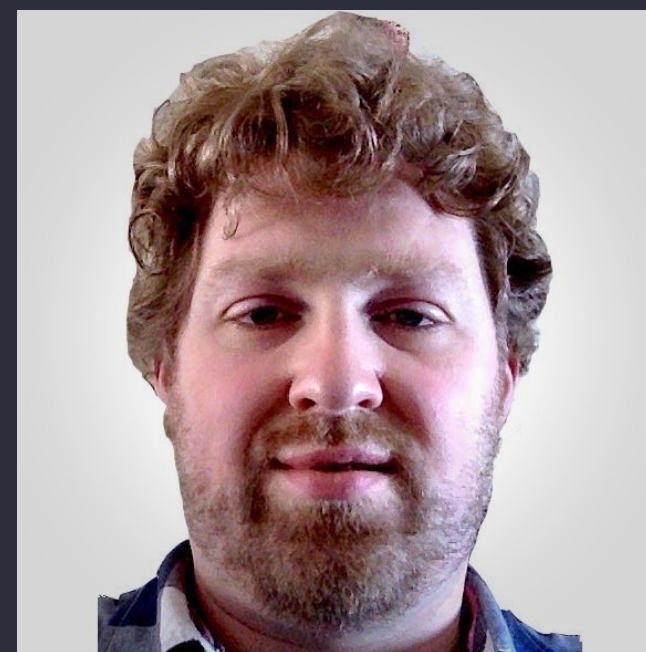
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Corinne Pritchard



Nathalie Trenaman



Sander Steffann



Jan Žorž



Rene Fichtmueller

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 at Ukraine Ministry for Digital transformation

Julia Troyan

Marcin (Leon, Poland)

Daniel

Big thnx to all of you that donated hardware and/or money!!!

Listed below are just a handful of our generous donors. The majority prefer to remain anonymous.



BCIX



CZ.NIC



DE-CIX



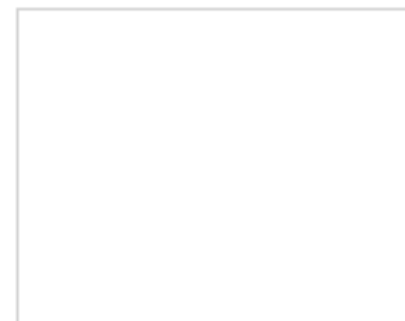
Flexoptix
GmbH



Freie
Universität
Berlin



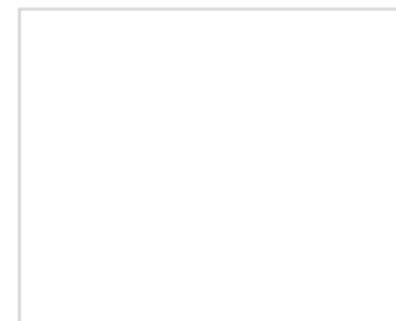
Global NOG
Alliance



NetArt



NIX.cz



U.S. Internet



Unimus



ZeroTier

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

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

Most requested tool !!!

We are collecting donations to buy fiber optic splicers and send them to areas where repairs are most needed!!! We already sent 4 of them!

Keep Ukraine Connected

Help us get more splicers!

€4,998

How much a decent splicer costs

€1130

How much we've raised for the next splicer

2/20

Number of splicers purchased*

*2nd splicer successfully purchased! Thank you all. 3 May 2022

<https://nogalliance.org/our-task-forces/keep-ukraine-connected/fundraising/>

Thank you!

Mail us: ukraine@nogalliance.org