

Open Data Opens Doors: how we're building the world's most complete, open and accessible global supply chain map

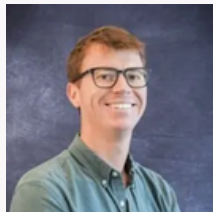
NOVEMBER 2024





Who You'll Meet Today

In Order of Appearance

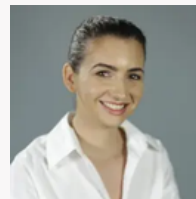


Griffin Shay

Growth & Partnerships Director

griffin@opensupplyhub.org

Based in the USA



Bruna Gomes

Community Manager

bruna@opensupplyhub.org

Based in Brazil

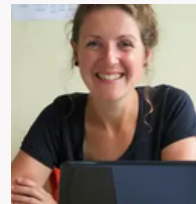


Natalie Grillon

CEO & Executive Director

natalie@opensupplyhub.org

Based in the USA



Joanna Howarth

Business Development Director

joanna@opensupplyhub.org

Based in the UK



Hannah Lennett

Stakeholder Engagement Director

hannah@opensupplyhub.org

Based in the Netherlands



Francesca Romano

Customer Success Manager

francesca@opensupplyhub.org

Based in Germany



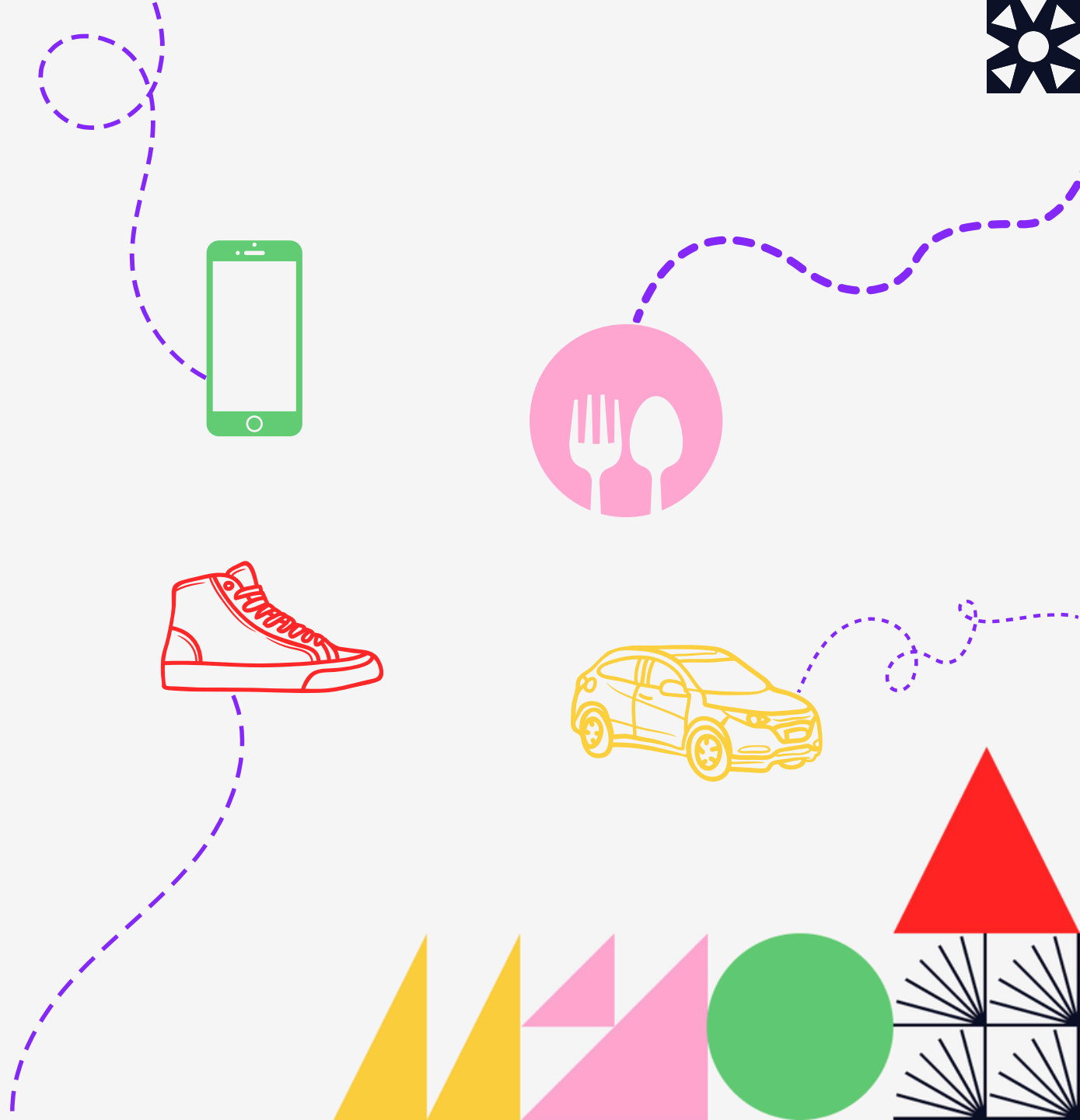
Today's Agenda

OVERVIEW

- ✦ The OS Hub Vision & What We've Done to Achieve It
- ✦ Inspiration for How You Can Use OS Hub
- ✦ Overcoming Barriers to Transparency
- ✦ Looking Ahead: What's Next in 2025 & Beyond

Every product
comes from a
supply chain.

We're all linked with
the people and
places where our
stuff comes from.



Over time, supply chains have become more complex.



Making it harder to know where those products really come from.

**A Lack of
Visibility**

**OFTEN
MEANS**



**Someone, or Some Place
is Being Exploited**



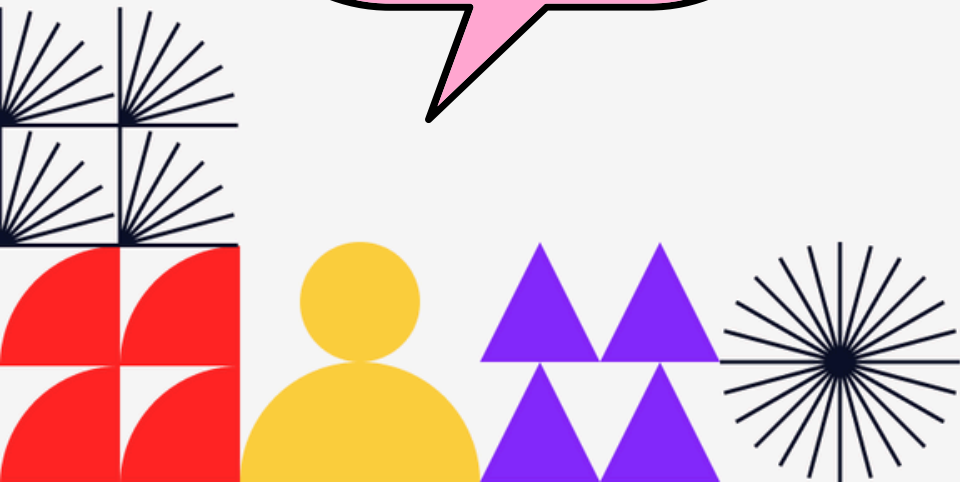


**To transform harmful supply chains
into **safe and sustainable** ones,
we need to see all the parts.**

**Where was
this made?**

**Are the
people who
made it safe?**

**Who else was
involved?**





Data mirrors real life

The way we structure our data & what is built from that data is linked. To bring about real, systemic change, we need to shift both our data and our work:

From

CLOSED or EXCLUSIVE

SILOED & INCOMPLETE

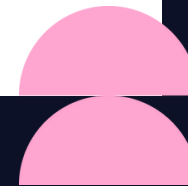
**ENGAGING THOSE WE
KNOW**

To

OPEN & ACCESSIBLE

**BUILT COLLECTIVELY TO
FILL IN EACH OTHER'S
GAPS**

**FINDING THOSE BEST
POISED FOR IMPACT**





**Without this shift, we won't be able to see
the big picture.**

**We won't be able to make supply chains
safe and sustainable.**



That's why we created



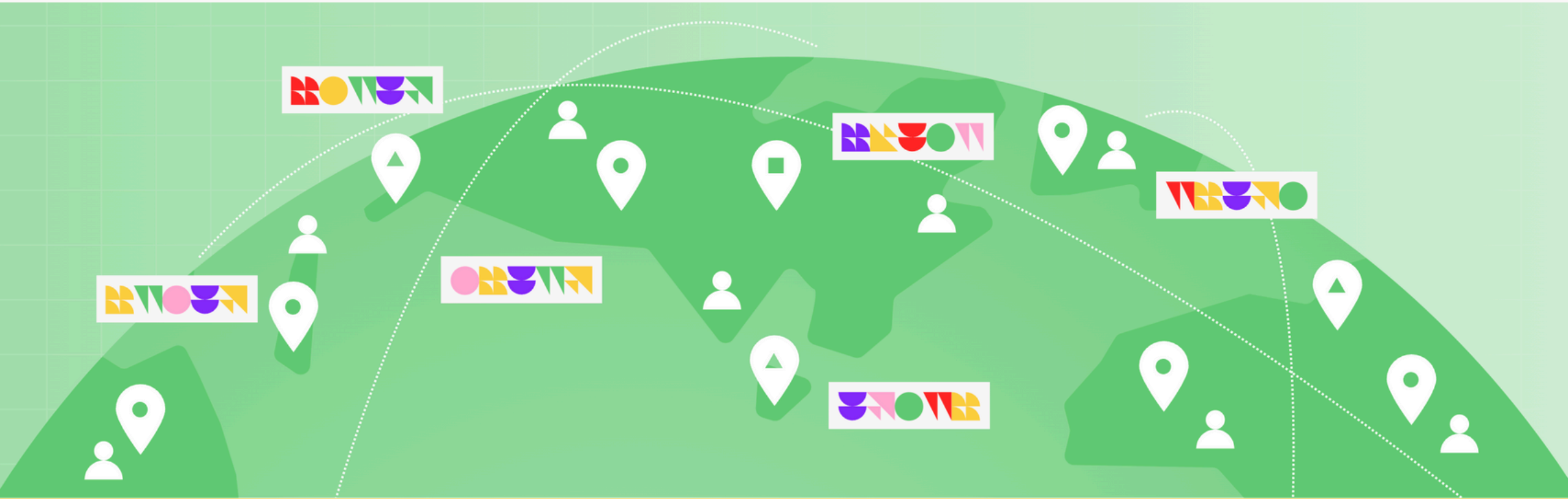
**OPEN
SUPPLY
HUB**





Open Supply Hub is powering the transition to safe and sustainable supply chains with the world's most complete, open and accessible map of global production.

Our platform shows where global production locations are and who is connected to them, and makes that data easy for **everyone** to work with. **Anyone can search and contribute to Open Supply Hub.**

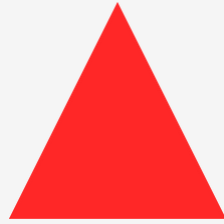


Three Pillars Make It Work



Openness & Accessibility

No more hunting down different PDFs and spreadsheets & figuring out who has access to what. Everyone starts from the same base dataset & contributes to keeping it up-to-date & accurate.



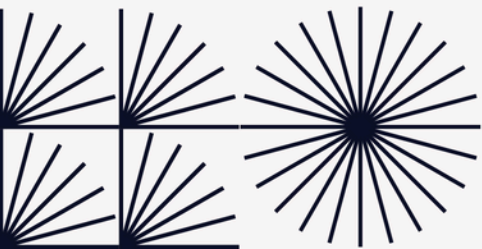
Standardization & Data Exchange

Using different formats & IDs makes it nearly impossible to connect & layer information. Get your data standardized & matched via the OS Hub algorithm & receive universal IDs for each location.



Engagement & Impact

We can't solve problems we can't see & we can't collaborate with people we don't know exist. Find which organizations are connected to your region or supply chain to build solutions together.





Using Open Supply Hub

Any supply chain stakeholder can:



SHARE

data to build the world's most complete, open and accessible global supply chain map



DISCOVER

opportunities through overlapping datasets and design the most effective solutions



COLLABORATE

with partners you may not have known existed, who can accelerate your impact



Collaboratively Mapping Global Supply Chains

HOW ARE WE DOING?





(nearly) 1 Million Production Locations Mapped

**With contributions from over 1400 organizations
around the world**



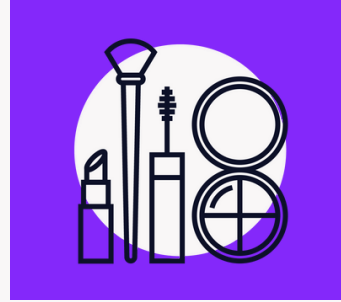
Which sectors can you find in OS Hub?



Apparel & Accessories



Automotive



Beauty



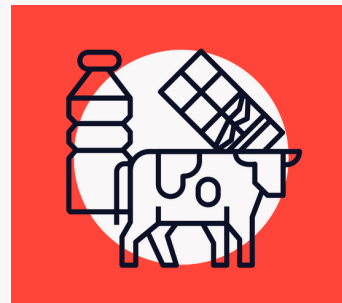
Consumer Goods



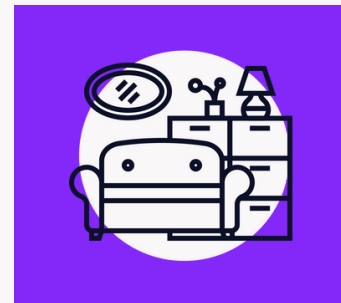
Electronics



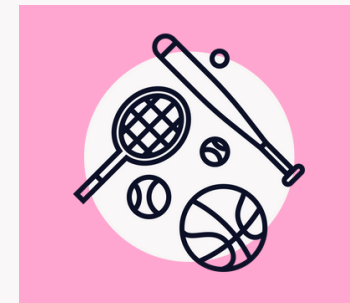
Energy & Utilities



Food & Beverage



Furniture



Sporting Goods



Rough percentage breakdown in OS Hub



**Apparel, Footwear,
Textiles &
Accessories**

35%



**Agriculture, Food
& Beverage**

37%



**General
Merchandise**

30%



**Mining,
Electronics, &
Renewable
Energy**

20%



With value for many different stakeholders

BRANDS & RETAILERS

Amazon, H&M, HEMA,
John Lewis Partnership, Target,
The Walt Disney Company

- ✦ Reliable Base for Due Diligence
- ✦ Unique IDs for Suppliers
- ✦ Collaboration Opportunities

INDUSTRY ORGANIZATIONS

amfori, Cascale, Ethical Trading
Initiative, Fair Trade Certified,
Wordly

- ✦ Unique IDs Enable Interoperability
- ✦ Automatic Syncing via API
- ✦ Facilitate Remediation and Collaboration

CIVIL SOCIETY

Business & Human Rights
Resource Centre, Solidarity
Center, Worker Rights
Consortium, WWF

- ✦ Speed up Remediation Processes
- ✦ Combine Data Sets for Further Insights
- ✦ Identify Potential Partners

MANUFACTURING GROUPS

Arvind Limited, Delta Galil,
Elevate Textiles, Hirdaramani,
Pou Chen Group

- ✦ Visibility on Global Platform
- ✦ Eliminate Confusion for Customers
- ✦ Search for Partner Facilities



How did we get here?

SPOTLIGHTS ON A FEW
COLLABORATIVE EFFORTS



Introducing:

Global Supply Chain Data Exchange Standard

VISIT US AT:

 supplychaindata.exchange

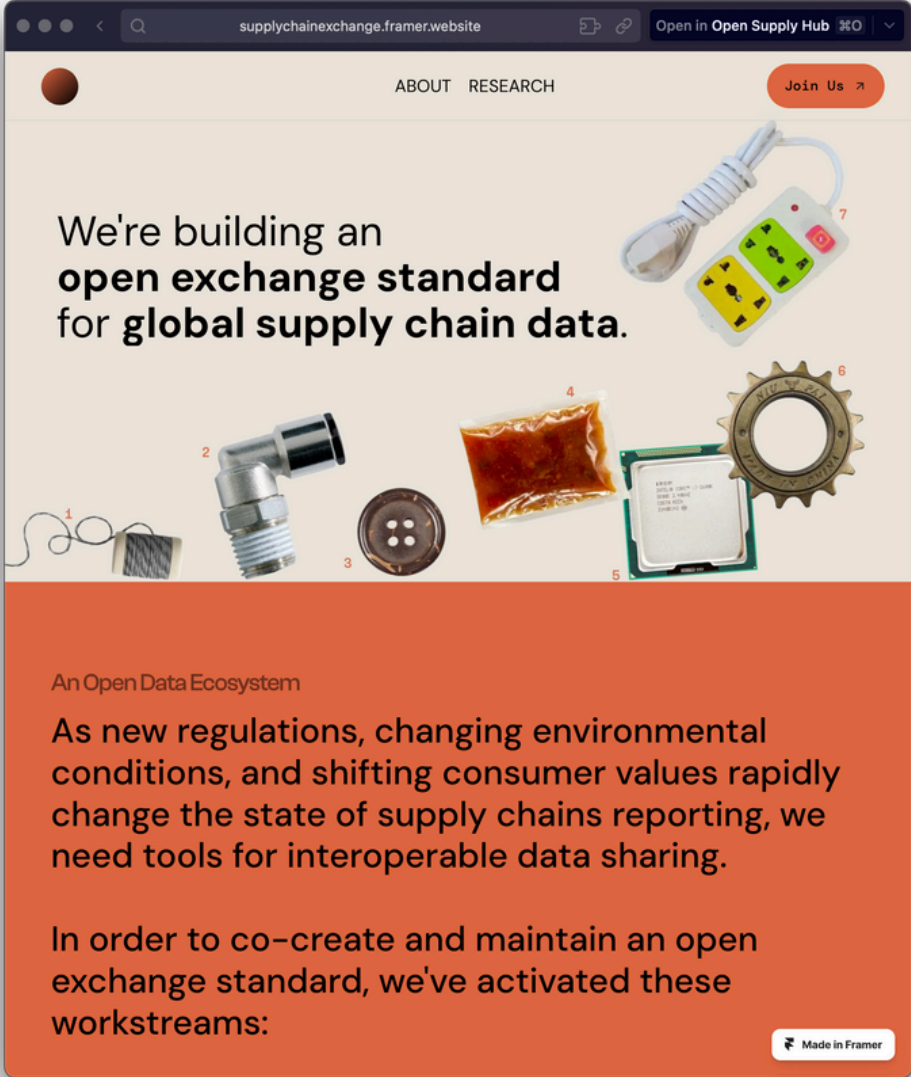
OR SCAN:



INITIAL PARTNERS:



ANCHOR FUNDERS:





Breaking into new sectors with

Data Sprints



From Bean to Cup: How Open Data Can Power the Transition to Safe and Sustainable Coffee Supply Chains



Mapping Renewable Energy Supply Chains for a Just Transition

- ✦ **Six-week internal sprints to consolidate & standardize existing public data**
- ✦ **Coupled with stakeholder engagement to inform research & application of collected data**
- ✦ **In a sector new to transparency, this makes the theoretical tangible.**



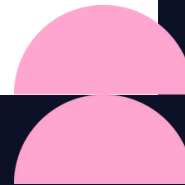
400+ companies are now lined up to share their supply chain data on Open Supply Hub

As part of a series of recently announced collaborations with cross-sector multi-stakeholder initiatives (MSIs)

The screenshot shows the ETI website header with navigation links: 'Who we are', 'What we do', 'Join ETI', 'ETI Base Code', and 'Insights'. The main article title is 'ETI's transparency journey and partnership with Open Supply Hub', dated 14 October 2024 by Amelia Cherry. The article features a photograph of a textile factory floor with workers and sewing machines. Below the image, the text states: 'ETI becomes first multistakeholder initiative to mandate publication of tier one suppliers directly on Open Supply Hub'.



The screenshot shows a LinkedIn post with the title 'Lift-off for supplier data sharing programme'. The main image is a woman in a white shirt and blue overalls working at a sewing machine in a factory. Below the image, the text reads: 'LONDON - More than 400 companies are now preparing to share their supply chain data and accelerate their transparency across global textile and garment supply chains with Open Supply Hub (OS Hub), following a series of partnerships with multi-stakeholder initiatives (MSIs)'.



The screenshot shows a LinkedIn post with the title 'Cascale, Open Supply Hub partner for transparent, sustainable supply chains'. The text describes a strategic collaboration between Cascale (formerly the Sustainable Apparel Coalition) and Open Supply Hub (OS Hub) to accelerate transparency and sustainability across global supply chains. The post is dated October 28, 2024, by Shemona Safaya. Below the text is a photograph of a person in a dark suit holding a smartphone displaying a 'Procurement' app interface with various icons for supply chain management.





Andrew Martin

Executive Vice President, Cascale (formerly the Sustainable Apparel Coalition)





How can I make use of OS Hub?

SHARE, DISCOVER and COLLABORATE





Using Open Supply Hub

Any supply chain stakeholder can:



SHARE

data to build the world's most complete, open and accessible global supply chain map



DISCOVER

opportunities through overlapping datasets and design the most effective solutions



COLLABORATE

with partners you may not have known existed, who can accelerate your impact



Or in a due diligence context...



Identification

Know and show your supply chain



Risk Assessment

Make your data interoperable



Remediation & Stakeholder Engagement

Find collaborators



Using Open Supply Hub

Any supply chain stakeholder can:



SHARE

data to build the world's most complete, open and accessible global supply chain map



DISCOVER

opportunities through overlapping datasets and design the most effective solutions



COLLABORATE

with partners you may not have known existed, who can accelerate your impact



Benefits for Data Contributors



Standardized Data + Universal IDs

Save time and money by automatically processing location names and addresses against OS IDs



Show Commitment to Transparency

Demonstrate your commitment to open, transparent supply chain data in service of collaboration and impact.



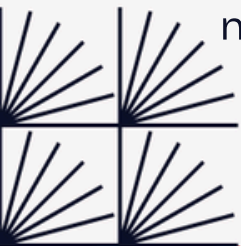
Visibility for your organization

Thousands of users interact with our platform each month. Listing where you are operating is a great way to increase visibility for your work and/or data collection.



Collaboration Opportunities

Understand connections of current and prospect locations, identifying new opportunities for collaboration





Supplier Engagement: Claims



-  **Build trust by sharing data openly with existing and new partners**
-  **Reduce the number of times you need to fill data**
-  **Make it easier for stakeholders to work with you and to be found for new opportunities**
-  **Increase the possibility of collaboratively trace supply chains**

Veshin: Illustrating their commitment to transparency

To achieve their own goals and to satisfy their clients' requests, Veshin Factory needed a transparency solution that would allow them to easily share their supply chain data with any stakeholder who might want it.

OS Hub provided an open and collaborative database in which they could share supply chain information, connected automatically with an interactive map on their website. When visiting their website, clients are now able to immediately see Veshin Factory's supply chain information and their participation in an open supply chain data initiative.

The screenshot shows the Veshin website's 'Transparent Supply Chain' interface. At the top left is the VESHIN logo, and at the top right are navigation links for 'About Us' and 'Working W'. The main heading is 'Transparent Supply Chain'. Below this is a search bar labeled 'Facilities' with '13 results' and buttons for 'Download' and 'Copy Link'. A filter section on the left includes dropdown menus for 'Contributor List' (set to 'Select'), 'Country Name' (set to 'Select'), and 'Sector'. The main content area displays two facility entries: 'ANANAS ANAM' with OS ID GB20222039EXS89 and address 'Somerset House, South Wing Strand,' and 'Desserto' with OS ID MX2022221A6JZM5 and address 'Av Jalisco 5000 Bodega 35. Col vistas de Tesistan'. On the right, a map shows the location of these facilities with a 'ZOOM TO SEARCH' button.



Veshin Factory is an OEM / ODM luxury handbags & SLG manufacturer specializing in leather alternatives.

[FIND OUT MORE](#)



Building a culture of supply chain transparency for a just transition

Using OS Hub has helped Sunrock begin mapping what had previously been an extremely opaque supply chain.

By asking their suppliers to share their suppliers on OS Hub and introducing them to the platform, they are starting a conversation that could eventually lead to unearthing thousands of suppliers connected to their operations.

To drive continuous momentum in these efforts, sharing data on OS Hub is now even a part of Sunrock's supplier onboarding.



SUNROCK

Founded in 2012, Sunrock has become the largest developer of solar roofs in the Netherlands and is now expanding rapidly across Europe.

[FIND OUT MORE](#)



Using Open Supply Hub

Any supply chain stakeholder can:



SHARE

data to build the world's most complete, open and accessible global supply chain map



DISCOVER

opportunities through overlapping datasets and design the most effective solutions



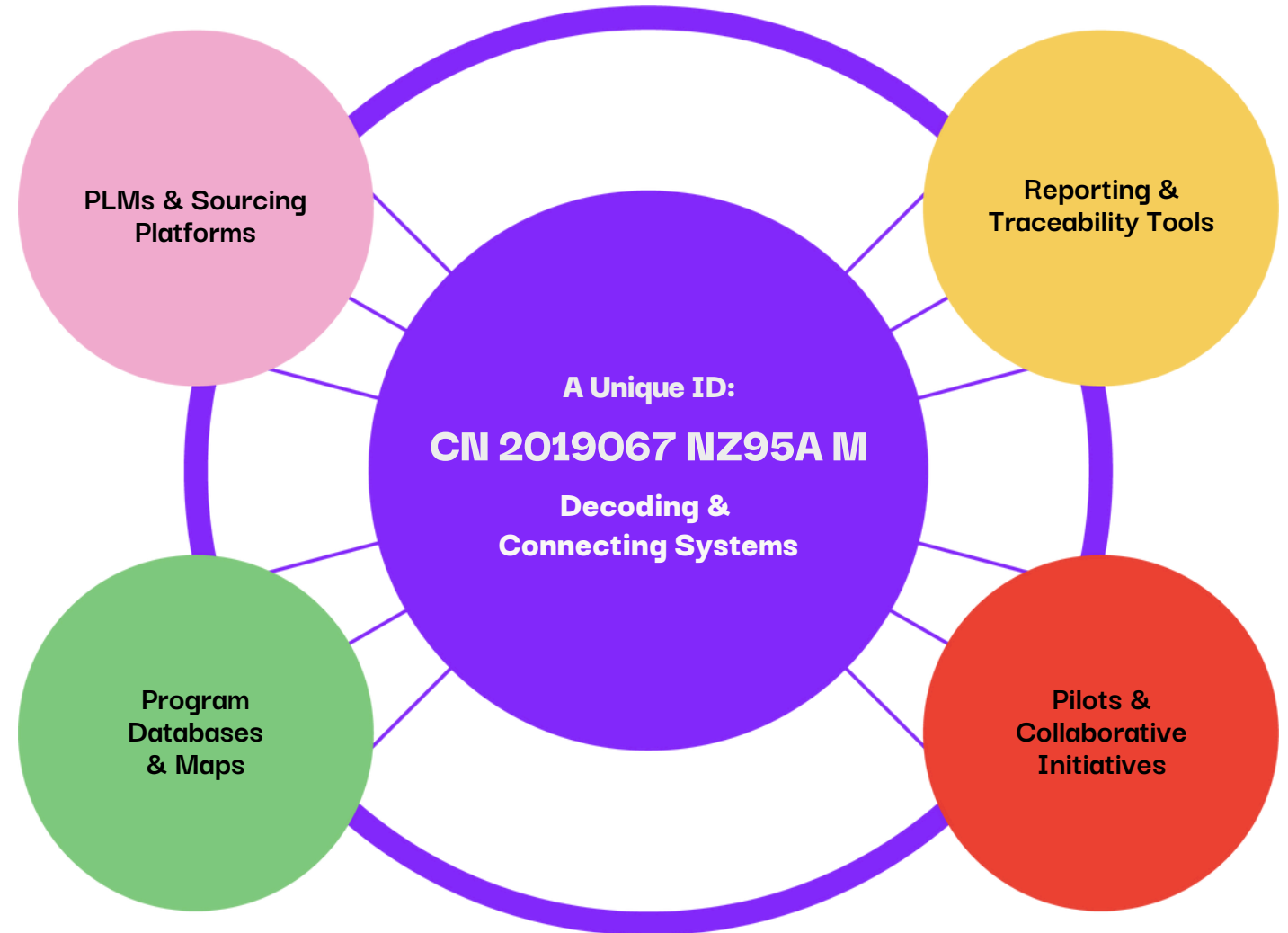
COLLABORATE

with partners you may not have known existed, who can accelerate your impact



UNLOCK INTEROPERABILITY WITH THE OS ID

Free & accessible production point ID for all sectors, stakeholders, geographies, and systems to live alongside location information, meta data and other IDs.





Driving interoperability and harmonization for electronics and automotive supply chains

“We’re pleased to be able to offer these identifiers to our members and make them a cornerstone of how we standardize and organize our data.”



Gaining a single source of truth for facility data

“We can match our facilities easily and quickly with any external dataset and return OS IDs to users.”





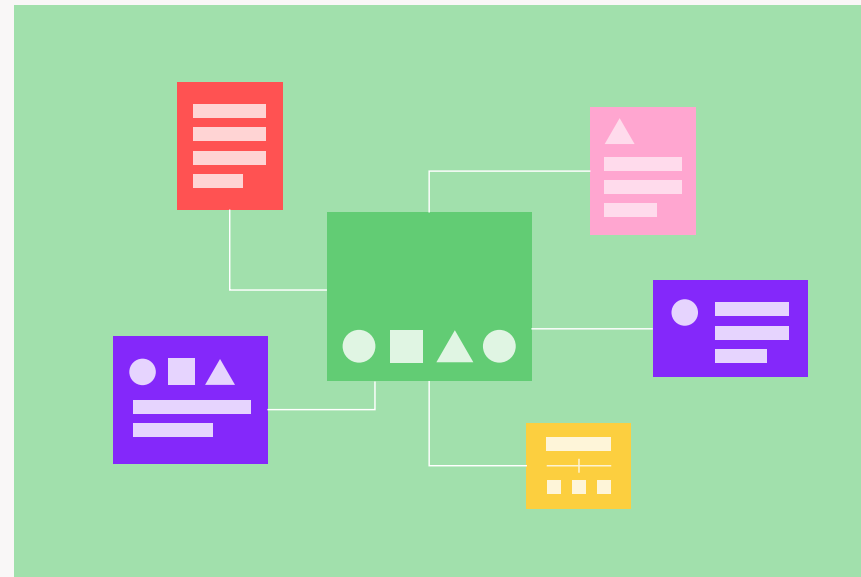
GET MORE WITH OS HUB PREMIUM FEATURES



Embedded Map

Automatically display your data on your own website as a customized map

[View Live Examples](#)



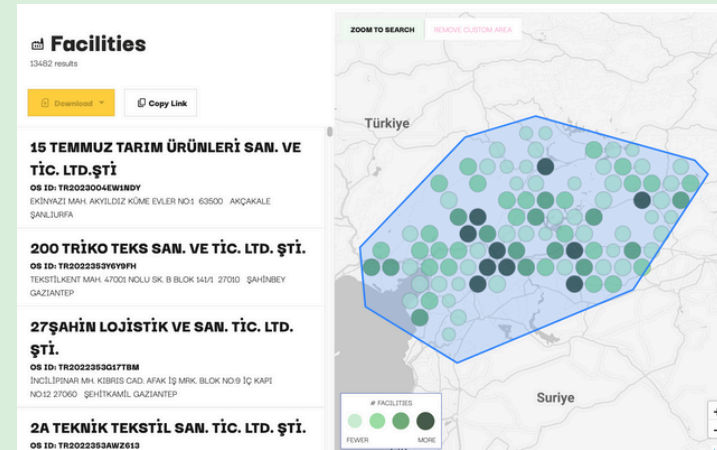
API

Automatically push and/or pull data + OS IDs between your system and OS Hub

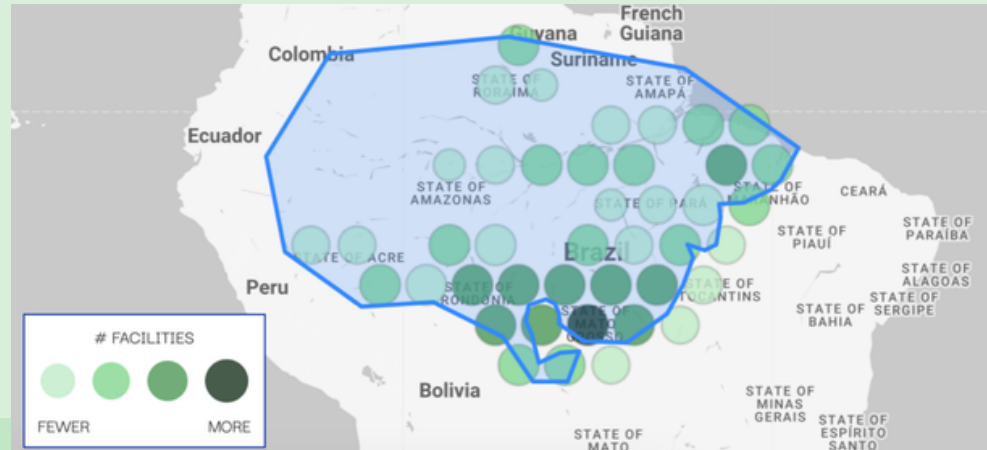
[Try It Out](#)

Mapping Global Challenges

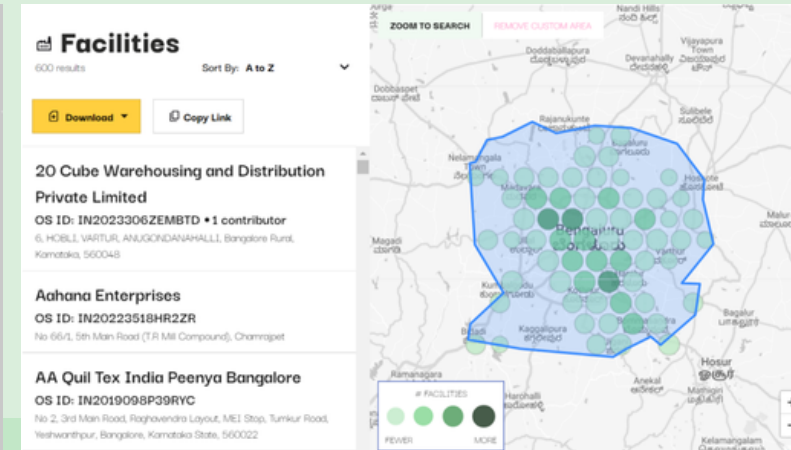
You can draw custom maps on OS Hub to gain insights on production in a region, stakeholders connected to that region, and more. Check out some that the OS Hub team has created and saved for you!



Earthquake Response



Brazil Biomes Maps



Water Risks in Bengaluru

Create your own maps to match the impact you want to create.



Identifying risks & opportunities in apparel facility clusters

When WWF was laying a map of the world's wetlands over the map of apparel facilities in Open Supply Hub, the consistent overlap between wetlands and apparel production zones was immediately striking.

In November 2022, WWF and Open Supply Hub collaboratively published a report outlining the risks and opportunities facing apparel and textile clusters worldwide.

Having an open, accessible map of global apparel facilities enables WWF to quickly see and identify **distribution issues and potential negative (and positive) biodiversity or water impacts, without having to assemble apparel production zone data from scratch.**



WWF is the world's largest conservation NGO whose mission is to stop the degradation of the earth's natural environment and to build a future in which humans live in harmony with nature.

[FIND OUT MORE](#)



Using Open Supply Hub

Any supply chain stakeholder can:



SHARE

data to build the world's most complete, open and accessible global supply chain map



DISCOVER

opportunities through overlapping datasets and design the most effective solutions



COLLABORATE

with partners you may not have known existed, who can accelerate your impact

Collaboration Inspiration



Internal:

Make it easier to share data within your organization and collaborate/find opportunities between teams and departments.



Regional collective action:

Build social or environmental programs on a regional level and search for stakeholders invested in that region.



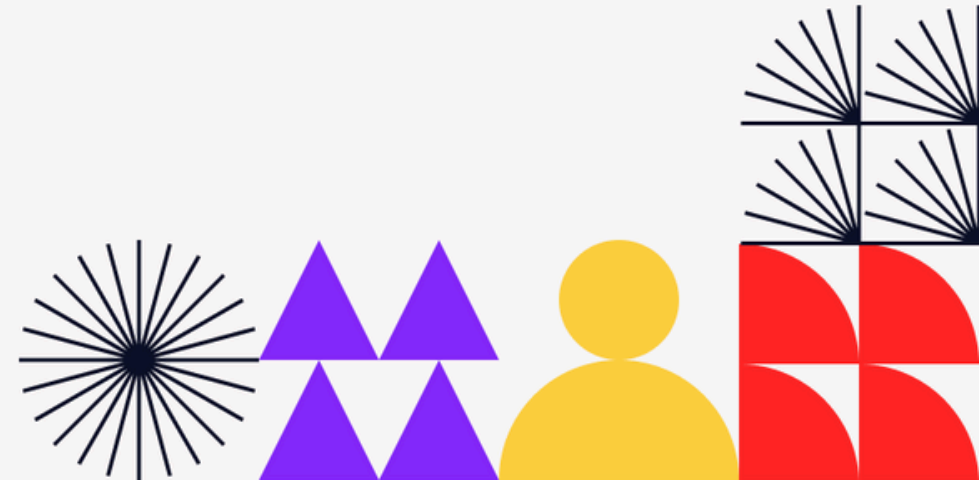
Facility by facility:

Collective grievance mechanism development, investment in new technology or programs, shared auditing, and more.



Ecosystem level:

Layer the OS Hub dataset with others to identify hotspots and flag risks & opportunities.





Streamlining information sharing between workers in factories and the global brands they are connected to

Integrating with OS Hub's dataset has two-way benefits for GRC: it has made it much easier for GRC to corroborate worker reports, no longer having to manually search through supplier lists from individual brands.

It has also meant that they have been able to provide much more accurate data to brands, when they have been able to establish connections via OS Hub, which boosts trust and collaboration.



Global
Rights
Compliance

Global Rights Compliance (GRC) is an international human rights legal practice based in the Netherlands.

[FIND OUT MORE](#)



Identifying global hotspots & affiliated stakeholders

As part of their work in the sector, AWS oversees the International Water Stewardship Standard (AWS Standard). The AWS Standard is a tool that guides water-users to understand their water impacts and to go beyond management towards stewardship. To roll out that standard, AWS needed to identify supply chain hotspots across the globe and which stakeholders are affiliated with those hotspots. This is exactly what OS Hub has provided.

Data from OS Hub has been a reliable source of third-party information for their team's strategic discussions, enabling them to make more informed decisions, more quickly. It has also helped them conduct more extensive stakeholder mapping.

OS Hub's database of facilities and the diverse range of stakeholders that contribute to it has provided AWS a global snapshot of textiles manufacturing allowing them to very quickly identify where to focus engagement efforts.



AWS is a global membership collaboration comprising businesses, NGOs and the public sector. Their members contribute to the sustainability of local water resources through their adoption and promotion of a universal framework for the sustainable use of water – the International Water Stewardship Standard – that drives, recognizes and rewards good water stewardship performance.

[FIND OUT MORE](#)



Asda's human rights team seeks actionable and engaging transparency

While some of the initial benefits of OS Hub stemmed from having an easy-to-use industry tool, instead of one they had to build themselves, Asda's drive for transparency led to partnerships with platforms such as OS Hub as a critical building block for their human rights and due diligence work and the transparency and accountability they wanted to demonstrate.

Open Supply Hub has enabled us to take complex supply chain information and disclose it in an easy to use and context specific way which was a key requirement for us on our roadmap for Human Rights.

It has also allowed us to engage with numerous organizations globally and enhanced our understanding of salient risks. The more users, engagement and data points contributed to the platform the greater the benefit for us all and the more best practice we can generate via collaborative solutions focused on people within our shared supply chains.



Asda Stores Limited, trading as Asda and often styled as ASDA, is a British supermarket chain. Its headquarters are in Leeds, England.

[FIND OUT MORE](#)



Overcoming Barriers to Sharing Data

WE'RE HERE TO HELP!



POLL:

What's keeping you from publishing data on OS Hub or expanding what you publish?



Let's talk about it!

We hope you'll find that the benefits of open data far outweigh what are quickly becoming minimal and out-dated risks.

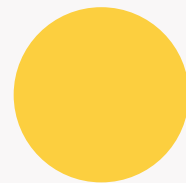




Overcoming Internal Hurdles



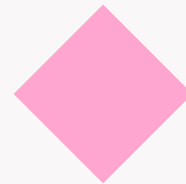
Loop in the right teams from the start. Involve other internal teams who will be involved in the process. Our team is always happy to set up a demo or Q&A session.



Reference our ever growing community of reputable contributors whose legal and procurement teams have given the green light!



Build in deadlines: It's difficult to push through decisions without a timeline and a deadline you're working towards.



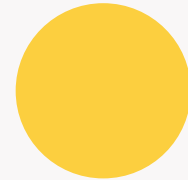
We have resources for you! Check out our brand & retailers page for an internal sell-in deck or reach out to our team to talk through specific challenges. We've had this conversation a lot!



Not wanting to invite public criticism



Stakeholders are able to reach out to you directly to resolve issues, rather than turning to the press or more public tactics. This is often the preferred solution for both parties.



Stakeholders can also proactively reach out to share information and prevent issues. If your goal is to conduct effective due diligence and make improvements, opening up data allows you to get more information, make more informed decisions, and demonstrate that you've made changes based on what you have learned. Keeping your data closed hinders that process and can generate more risk in the long-run.



Your data is likely already out there one way or another. Be in control and get as much benefit as you can out of it.



You can't fix what you don't know or you can't see.



Fears of anti-trust / anti-competition or GDPR/privacy violations



You don't have to publish data that would violate privacy or anti-trust regulation to receive great benefit. You can keep it to *phone book data* which isn't considered proprietary and doesn't require extra layers of protection or privacy.



If you have NDAs with suppliers, we can help you with contract language or processes to ensure transparency is baked in.



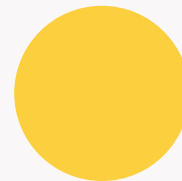
We'll have a memo coming out soon providing greater guidance on this!



Will we lose our competitive advantage?



In this age of information-sharing, production locations are rarely a secret - whether you disclose them yourselves or not. This is more about being in control of how and where that information is shared.



More and more brands are saying that their competitive advantage comes from the quality and type of relationship with their suppliers, not simply whether or not they source from them.



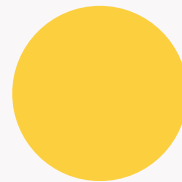
We offer an API package for deduplicating data & getting OS IDs, without publishing publicly, if you have particularly sensitive data.



We have so many production locations, I wouldn't know where to start



It isn't all or nothing to share data on OS Hub.



What is the right starting place for you? Is there a tier, region, product line, issue area, etc. where you can test out publicly sharing supplier data and grow from there?



Leverage MSIs or organizations you are a part of to share a specific subset of your data alongside peers to demonstrate impact more quickly.

Let's reframe



FROM

**Transparency for
Transparency's Sake**



TO

**Transparency That
Solves Problems**





What's Next for OS Hub?

2025 AND BEYOND!



Maximizing value from transparency: OS Hub 2.0



Explore

How It Works ▾

About Us ▾

Resources



My Account ▾

Upload Data



Home



Data Cleaning



ID Matching



Custom Maps



Data Downloads



Notifications



Insights



Claim Campaign



API



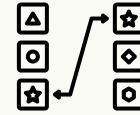
Embedded Map

Messy Data?



OS Hub can help you clean and deduplicate your data.

ID Matching



Match your locations with custom data points to OS IDs and other IDs.

Custom Maps



Create custom maps to share with your team or display on your website.

Insights



See insights related to social & environmental indicators

Notifications



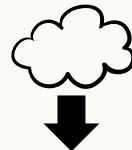
Set up alerts to be notified when data you care about is added or changed on OS Hub.

Claim Campaign



Start a campaign to illuminate supply chain locations beyond your tier 1 suppliers.

Data Downloads



Download OS Hub data ad hoc or set up recurring download reports.

Embedded Map



Plug-n-play solution for displaying your supply chain data on your website.

API



Download OS Hub data ad hoc or set up recurring download reports.



Insights & Partnerships



Insights:

enhanced
visibility into
supply chain
relationships,
ESG data
assessments,
certifications
and more

Name & Address:

Zaber & Zubair Fabrics Ltd ✓

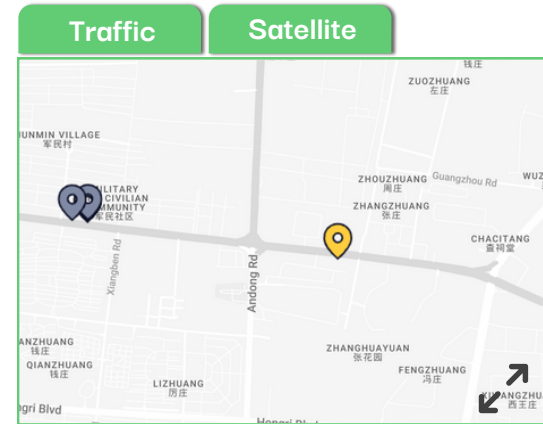
Pagar, Tongi, Gazipur Tongi, Gazipur

Dhaka Gazipur 1710 Dhaka - Bangladesh

OS ID: BD2021113R7R87P

Profile Level: CLAIMED

Last contribution: July 21, 2024



Overview

Network

Claimed

Insights

951 MWh Estimated Annual Consumption

Mitigate ESG Score Current to July 2024

Expected Energy Source: 60% Solar

Active Certifications: TradedFairly, Cottonified, WR1

314,820 CO2e100 in 2022
Powered by Climate TRACE

Auditable Audit Available - July 2024

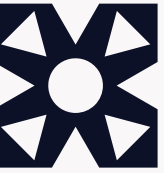
Suggest an edit

//

Report location as closed

//

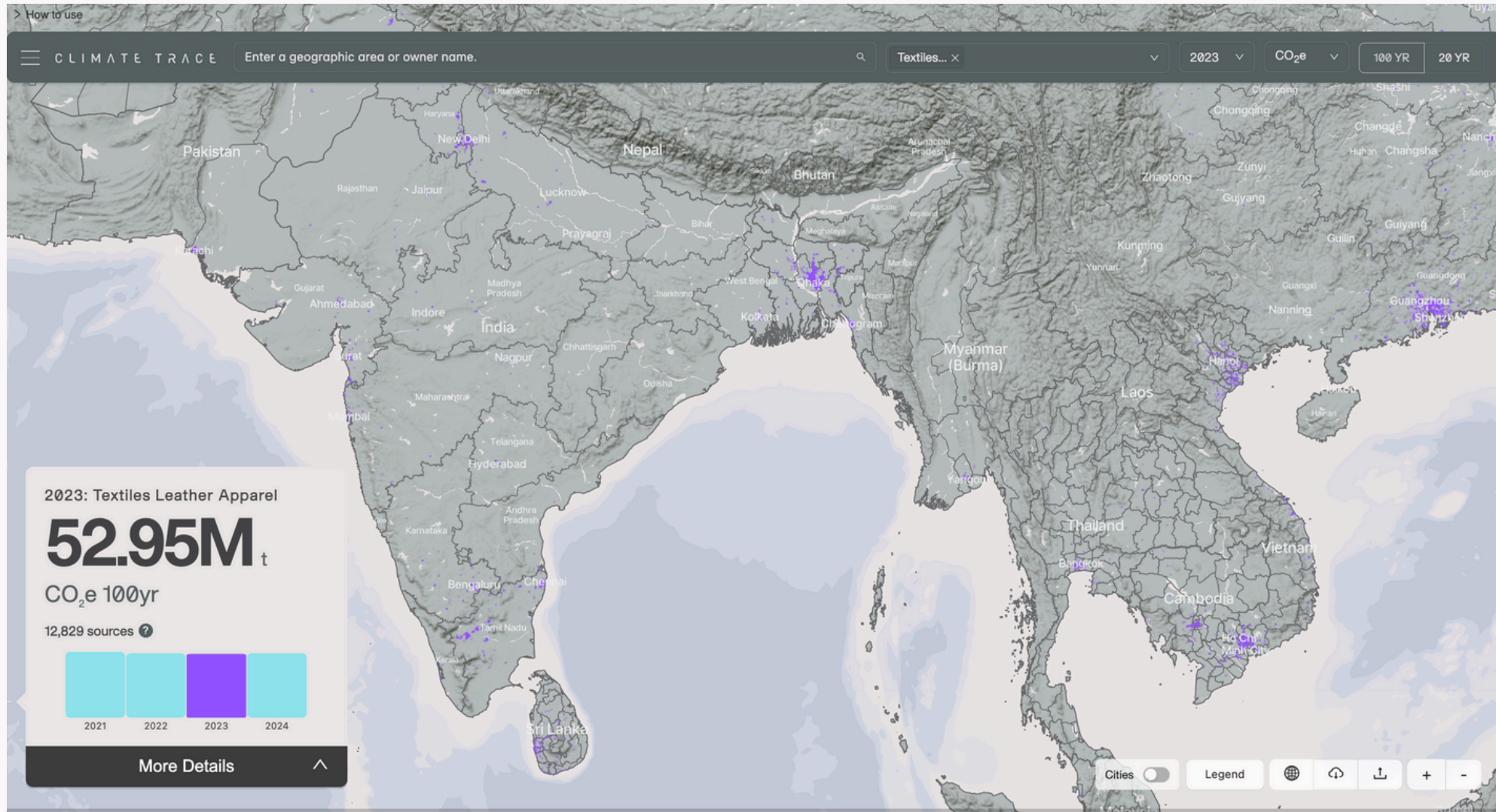
Report a duplicate



Lekha Sridhar

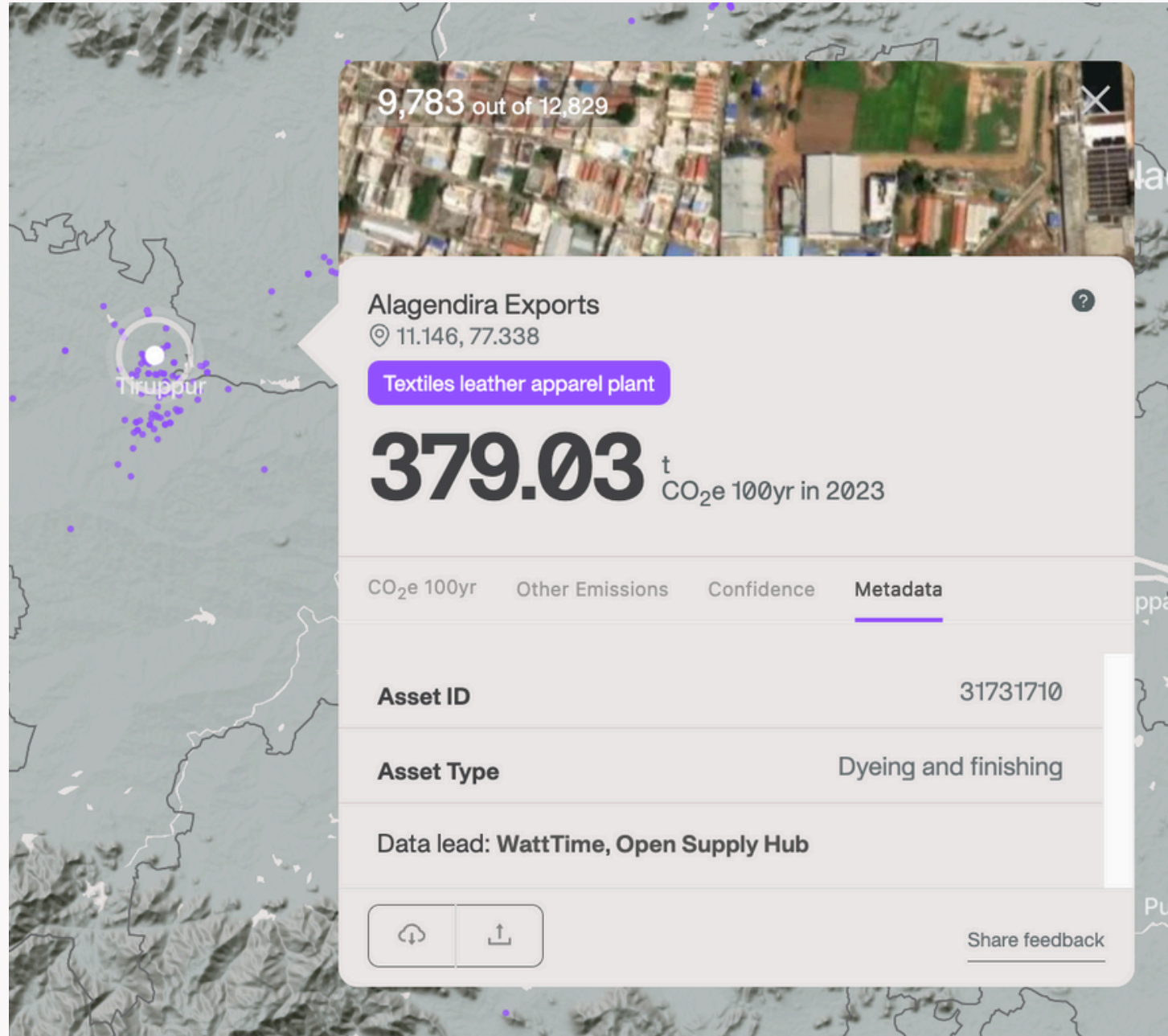
Research & Special Projects Lead, WattTime





WITH GRATITUDE TO







Updates for OS Hub users in 2025

A FEW HIGHLIGHTS



A Funnel for Better and Better Data



Three Levels of Production Location Profiles

Directory

An OS ID for every production location.

Foundational map of production



Connected

Showing overlap between stakeholders and cross-checking data.

Data convergence: more trustworthy and greater detail



Claimed

Production location management have confirmed their information.

Primary sourced data



A New Workflow for Adding Single Locations

English Español Tagalog Tiếng Việt More languages

OPEN SUPPLY HUB

Explore How It Works About Us Stories & Resources My Account Add Data

Add production location data to OS Hub

Contribute your data here to help build the world's most complete, open and accessible map of global production:

Upload a dataset with multiple production locations using a spreadsheet.

This option is best if you have a large number of production locations to contribute.

[Upload Multiple Locations](#)

Add data for a single production location.

This option is best if you want to register your production location or contribute data for one production location at a time.

[Add a Single Location](#)

Have messy data?

We can get it ready for you. All you need to do is upload your data and we'll take care of the rest.

[Learn More](#)

Open Apparel Registry, Inc. doing business as Open Supply Hub, is established as a 501(c)(3) nonprofit organization, registered in the United States of America.

This site was designed for low energy usage and is hosted on data centers using 100% renewable energy.

Contact Us
Cookie Preferences
Privacy Policy
Terms of Service

FAQs
Press
Funding
Work With Us

Follow Us
in



2025 Data Review Windows

# of Production Locations / Situation	Data Will Be Reviewed Within X Business Days
Fewer than 1000	15
Over 1000	30
Get feedback and need to reupload?	7
Embedded Map Users	5

✦ This will apply to at least the first six months of 2025

✦ We have a lot of exciting updates coming your way in the next year - from making the platform easier to use, to leveraging new technology to increase the size and quality of the dataset, to partnerships that can open up more data points and impact opportunities than ever before. But to integrate these updates into new datasets as they come into the system, we need more time to process your uploads.

✦ How to make this work for you? Plan your uploads in advance.



Driving Greater Impact

A NEW PILLAR IN OUR STRATEGY

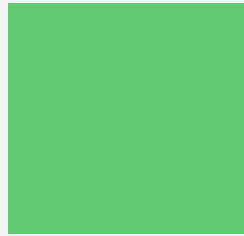


Guidelines for Impact Programs



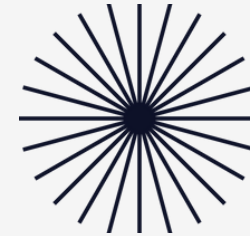
Data-Driven

Stakeholders working around data we already have in the platform or address dataset gaps collaboratively



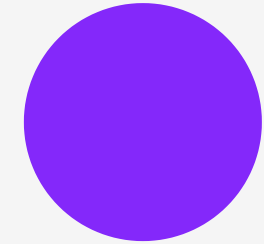
Neutral but collaborative

We maintain dialogue with civil society, companies, suppliers, unions, and more. This position allows us to bring stakeholders with different goals to the same table around a common challenge.



Action-led

We are looking for to generate tangible and concrete outcomes with communities lined up to use them, such as new layered datasets, maps, actionable reports, or resources for crisis response, for example.



Guided by Users

We want to make sure those affected by the supply chain challenges are at the heart of our processes and that we can together bring positive solutions.





Advancing a Just Transition with Open Data

WITH GRATITUDE TO

Laudes ———
—— Foundation





We're looking for a:

Stakeholder Engagement Manager

UNIONS & CSO FOCUS

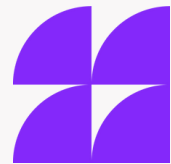




Open data opens doors:



Turn a complex chain into a clear picture



Discover allies and build collaborations



Innovate and invest where it matters



We're here to help!

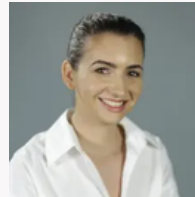


Griffin Shay

Growth & Partnerships Director

griffin@opensupplyhub.org

Based in the USA



Bruna Gomes

Community Manager

bruna@opensupplyhub.org

Based in Brazil

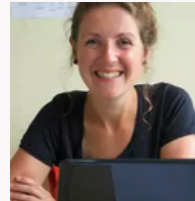


Natalie Grillon

CEO & Executive Director

natalie@opensupplyhub.org

Based in the USA



Joanna Howarth

Business Development Director

joanna@opensupplyhub.org

Based in the UK

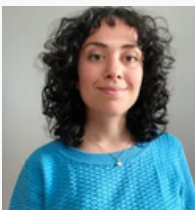


Hannah Lennett

Stakeholder Engagement Director

hannah@opensupplyhub.org

Based in the Netherlands



Francesca Romano

Customer Success Manager

francesca@opensupplyhub.org

Based in Germany