



Global Supply System Dashboard

**Global Supply System Dashboard Overview
Forum Industry Action Group (IAG) Initiative
Update: March 2021**



The COVID-19 pandemic has highlighted and exacerbated **the vulnerabilities and fragility** of global supply and logistics systems.

Relieving bottlenecks are crucial to getting **humanitarian supplies** where they need to be and create future **supply system resilience** and preparedness.

With a variety of private and public-sector organizations, there is an opportunity for **private-public collaboration** to lead to better human outcomes, starting with **food distribution**.

The World Economic Forum is leading from the front – creating a **Global Supply System Dashboard** to fill this need.

“By the end of the year, 12,000 people across the globe could die each day for hunger linked to COVID-19.”

Oxfam Briefing, 09th July 2020

What is the purpose of GSSD?



















































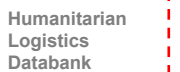







Provide system-wide visibility on the movement of essential goods needed to protect and preserve lives. GSSD improves future supply system resilience and enables preparedness and rapid response using data for common good.

Global Supply System Dashboard constitutes a cross-platform, transformational industry action group concept.

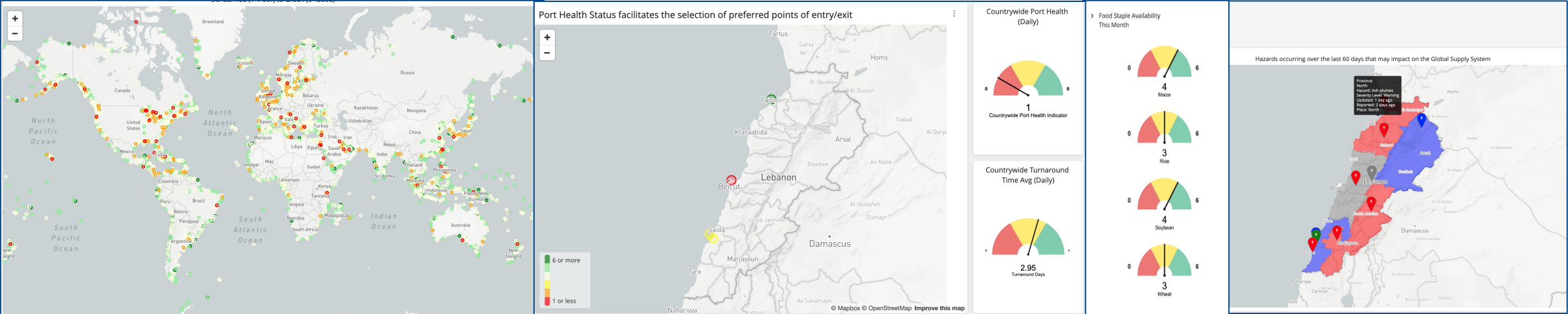
GSSD is an open source, neutral & pre-competitive dashboard and data sharing tool:

- Aggregates sources of near real-time data providing an indicator of system wide supply performance
- Highlights disruption & bottlenecks
- Enables swift & pre-emptive action
- Improving overall system resilience
- Indicator of supply system health – for essential goods (i.e.; food, vaccine distribution)

Research shows that multiple data sharing initiatives exist, however none provide an aggregated, open source view

Examples of interest:		 Commodity-focused	 Logistics-focused				Data aggregation at commodity level
Archetypes ¹	Examples	Description		Use cases	Typical value chain players		level
Carrier led	 	Blockchain-based platforms by large carriers focused on ocean freight		<ul style="list-style-type: none"> Near real-time shipment visibility Paperless trade 	 Carriers  3PLs  Ports  Customs  Shippers		
Port/ Airport operator led	   	Port & airport community systems deployed independently at several terminals globally		<ul style="list-style-type: none"> Port specific cargo flow visibility Traffic planning & control Paperless documentation & trade 	 Carriers  3PLs  Truckers  Customs  Shippers  Ground handlers  Ports  Reg. body		
Integrator/ forwarder led ²		Cloud based solutions by large forwarders offered to customers to integrate with ERP systems		<ul style="list-style-type: none"> Near real-time shipment visibility to predict & mitigate risk across modes 	 Carriers  3PLs  Shippers		
Customer led	  	Blockchain powered niche solutions by companies for upstream & downstream material traceability		<ul style="list-style-type: none"> Material movement traceability across value chain 	 Manufacturers  Suppliers		
E-commerce player led	 	Platforms led by e-commerce players for B2C supply chain visibility for own customers		<ul style="list-style-type: none"> Near real-time shipment visibility Smart routing & demand forecast 	 Carriers  3PLs  Shippers		
Tech provider led	   	Platforms by tech companies geared towards shippers for visibility across all transport modes		<ul style="list-style-type: none"> D2D shipment visibility across all modes 	 Carriers  3PLs  Shippers		
Neutral body led	  	Platforms led by international bodies majorly for industry-wide standardization for data exchange		<ul style="list-style-type: none"> Open APIs for data exchange Facilitate data sharing between networks 	 Carriers  3PLs  Ports  Shippers  Reg. body  Customs		

GSSD provides humanitarian, industry & public stakeholders with near real time visibility of the flow of goods at a global and local level.



Users



Producers & suppliers



Logistics players



Humanitarian Entities



Retailers & wholesalers



Public & regulatory bodies

Use Cases



Disruption monitoring



Visibility of transportation flow



Supply system indicators



Food or vaccine supply



Food demand & insecurity



Supply demand matching

Actionable Outcomes

- Understand demand surges and address specifically
- Monitor shortages of goods and allows alternative sourcing
- Choose alternate route(s) to transport goods due to congestion
- Combinatorial power of data allows better cooperation and more detailed action plans
- Leverage improved supply/demand transparency, that promotes on the ground collaboration
- Build evidence base to support policy discussions and pre-emptive actions

Data Aggregation Model leverages existing data sources and technologies to make it a Transformational Initiative

Open-source information map is “view only” – direct action requires referral to contracted partners or control tower

Key:



OUTPUT



TOOLS



INPUT



*Multiple Shipping, Forwarding & Logistics companies
PLUS Open data sources*

*Multiple Healthcare & Consumer Industries companies
PLUS Open data sources*

POTENTIAL CONTRIBUTORS

- Calista
- Everstream (Riskpulse)
- FleetMon
- DCSA
- IATA
- IPCSA
- UPS Foundation
- Commodity Control Towers
- Existing open-data sources

- Independent Industry Contributors
- Companies not associated to aggregators
- Existing open-data sources

Guiding Principles

To achieve shared success, GSSD will be built upon the following principles:

Open Source

Non-Competitive

Neutral Entity

Sustainable

Secure

To ensure our principles are met, we need to:

- 1 Create a **sustainable funding model**
- 2 Be **governed in a flexible but strict fashion**, as parties move in and out
- 3 Build **data trust and leverage excellent sources**, transforming only if absolutely needed
- 4 Have a **mechanism that remains independent** to host, transform, maintain and avail data securely

GSSD Value Proposition: Furthering SDGs

1 Driving Societal Impact by Addressing Global Supply Issues

Supply system transparency ensures the right products are delivered to the right place at the right time, improving humanitarian outcomes like food security, health and medical equipment, poverty reduction and improved disaster relief

4 Generating Shared Value for Businesses

In addition to facilitating global citizenship, GSSD will improve for-profit outcomes by enhancing labor management, sourcing & production visibility, and customer experiences



2 Powering Collective Action across Diverse Stakeholders

Multiple data sharing initiatives exist – few provide an aggregated view. GSSD enables a model for the private-public collaboration needed to drive value for multiple groups in the ecosystem

3 Creating an Enduring Public Good

The solution is an action oriented, fully open-source visibility tool that provides a view of the ‘health’ of the supply system with the purpose of driving humanitarian outcomes

GSSD contributes to furthering 4 UN Sustainable Development Goals



Governance: We propose establishing a neutral entity to oversee GSSD. This is needed to build trust, reduce risk, and manage data.

REQUIREMENT

IMPLICATION

1

Trusted & Impartial Governance

Data that is aggregated by a **neutral and pre-competitive player**, will build **trust and credibility** with both users and data contributors.



The transformative element is **aggregating both public & private sector data** that would not otherwise be shared. GSSD will be established as an independent, nonprofit & neutral entity with a **robust governance** structure to ensure **trust & impartiality**

2

Robust Data Governance & Insights

Data aggregated from multiple production, demand, transport, egress and event sources. Strict data governance practices through appropriate authorizations and extractions applied to **ensure data security and availability**.



GSSD mandates a charter for **robust data governance**, provides an independent data sharing hub with APIs for importing and sharing data, an aggregation & insights engine, and analytics interfaces.

3

Centrally Mandated & Consistent Governance

Processes and capabilities differ in various organizations, therefore a **centralized structure and processes are necessary** to ensure continuity



GSSD is **governed centrally** as parties may transition in/out and fixed on principles of pre-competitiveness, security, and usefulness for humanitarian needs.⁹

Governance Roles: In the transition (current phase), workstreams will be supported by the GSSD team and the Steering Committee.

Operating Model Workstreams

Strategy & Oversight

Program Management

Technology Partners

Knowledge & Advisor

Cross-cutting support

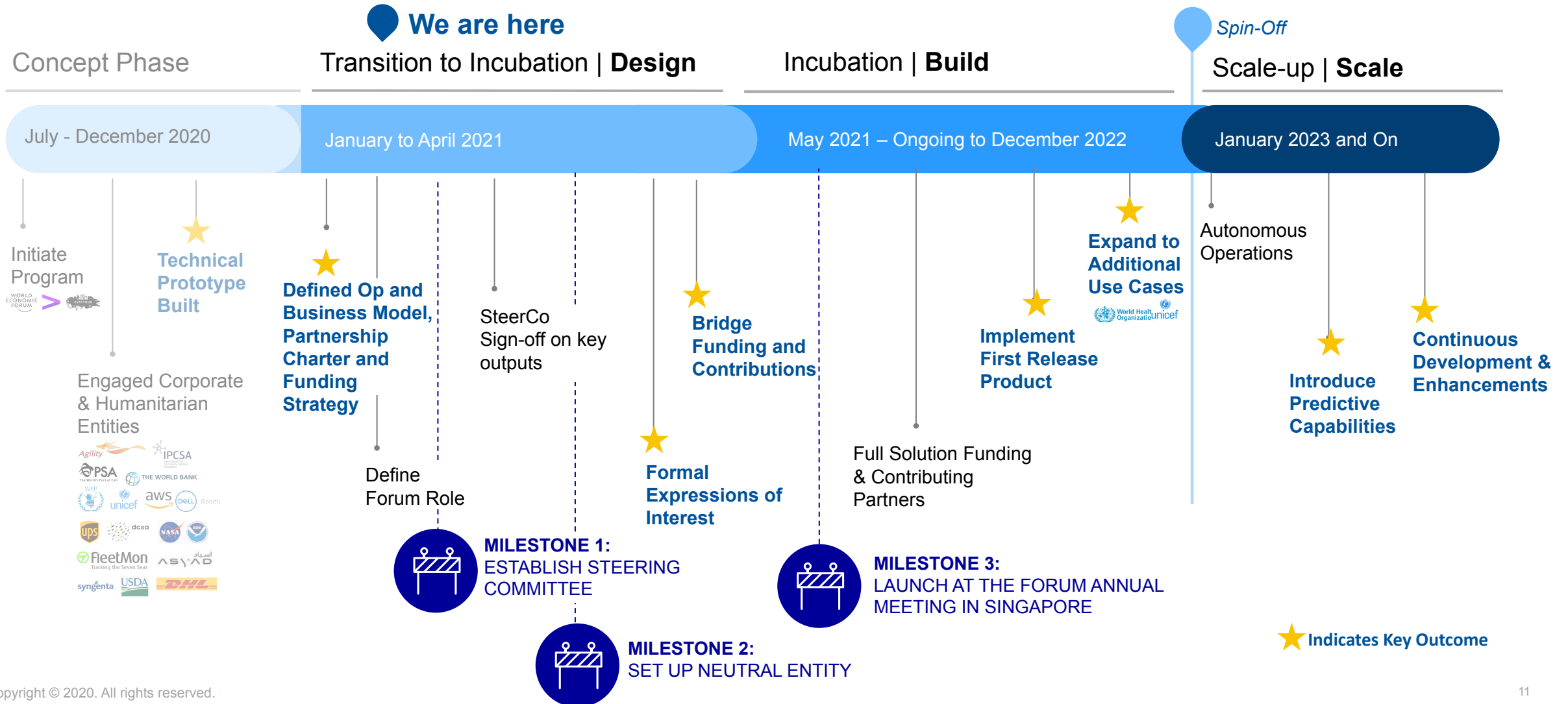
Convening

Principal(s)

Illustrative Steering Committee

Please note, during the transition phase there will be a transparent, procurement process to select those providing support or services (pro-bono or paid) to GSSD. Principals engaged in the transition are not committing to the incubation phase. They may opt out after transition phase.

Timeline: GSSD will be incubated to a sustainable, independent platform over three phases.



WHAT'S NEXT AND GETTING INVOLVED

As we grow, we are looking for additional partners to participate, invest and grow the platform with us globally.



Efforts to date have galvanized excitement and a model for the initiative.

Incubation will be focused on solving key health, food supply chain risk challenges.



Identify additional partners to build ecosystem including public sector champions.

Develop opportunities based on the concept to grow a wider collaborative.



GSSD Engaged Concept Team

WEF



Margi Van Gogh

Head of Supply Chain & Transport Industries

Accenture



Karen O'Regan

Managing Director, Strategy

EVERYTHING



Niall Murphy

CEO & Co-Founder



Andrew Moose

Head of Retail, Consumer Goods & Lifestyle Industries



Tal Viskin

Senior Manager, Technology Innovation, Project Co-Lead



Craig Kirkland

Product Owner
Project Co-Lead

Thank you

For more information please contact:

CI IAG: Andrew Moose – WEF: andrew.moose@weforum.org

SCT IAG: Margi van Gogh – WEF: Margi.VanGogh@weforum.org

Craig Kirkland – EVRYTHNG: Craig.Kirkland@evrythng.com

Tal Viskin – Accenture: Tal.Viskin@accenture.com

Conceptual Prototype - Mock Data

globalsuppliesystem.org