



The Importance of Data Standards

**Blake Harris, Technical Director, Global Food Traceability Center
U.S. DOE Industrial Efficiency and Decarbonization Office
Stakeholders' Workshop**

August 31, 2023



Vision: A fully traceable food system enabled by interoperable digital solutions accessible to all.

Mission: Engaging food system stakeholders in their traceability journey through applied research, capacity building, advocacy, system design and implementation.

**Standard
Development
and Extension**

**Education &
Training**

**Contracted
Research**

**Best Practice
Guidance**

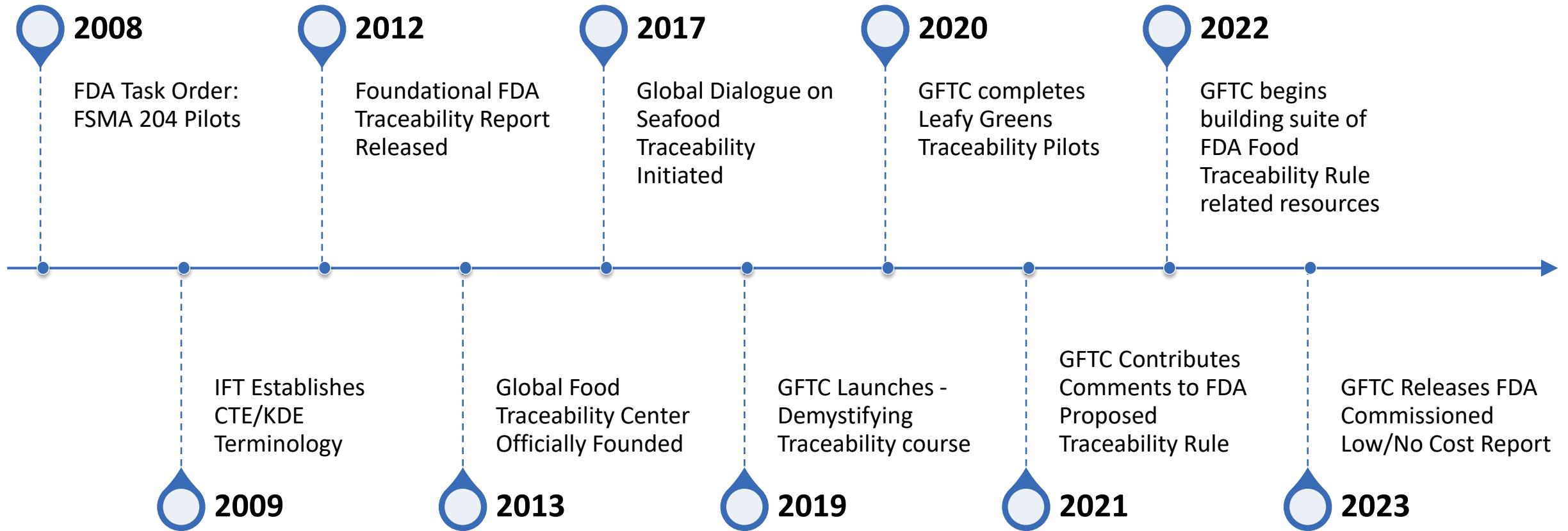
**Technical
Convenings &
Piloting**

**Tool
Development**

Advocacy

**Outreach &
Communication**

A History of GFTC's Engagement in Traceability







Food and Agriculture Organization
of the United Nations

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Food systems account for more than one third of global greenhouse gas emissions

New data tool offers detailed insights covering role of critical guidance for holistic mitigation efforts



Key insights on the Environmental Impacts of Food

Food production has a large environmental impact in several ways

Half of the world's habitable land is used for agriculture

Food is responsible for one-quarter of the world's emissions

Food production has a large environmental impact in several ways

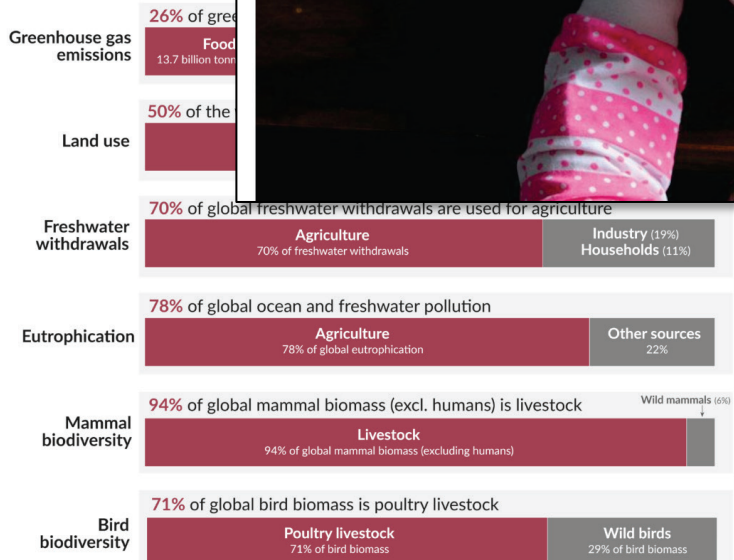
What are the environmental impacts of food and agriculture?

The visualization here shows a summary of some of the main global impacts:

- Food production accounts for over a quarter (26%) of global greenhouse gas emissions.¹
- Half of the world's habitable land is used for agriculture. Habitable land is land that is ice- and desert-free.
- 70% of global freshwater withdrawals are used for agriculture.²
- 78% of global ocean and freshwater eutrophication is caused by agriculture.³ Eutrophication is the pollution of waterways with nutrient-rich water.
- 94% of non-human mammal biomass is livestock. This means livestock outweigh wild mammals by a factor of 15-to-1.⁴ This share is 97% when only land-based mammals are included.
- 71% of bird biomass is poultry livestock. This means poultry livestock outweigh wild birds by a factor of more than 3-to-1.⁵

Tackling what we eat, and how we produce our food, plays a key role

The environmental



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Food systems account for over one-third of global greenhouse gas emissions





How Does *Your* Company Inventory GHG Emissions?

- As measured by what and how?
- How complete is your data?
- How are you receiving data from suppliers?
- How are you sharing data with customers?
- Can you validate or verify data?





Collective Understanding

Universally defines what data is required to measure decarbonization



Communication

Gets everyone speaking the same “language”



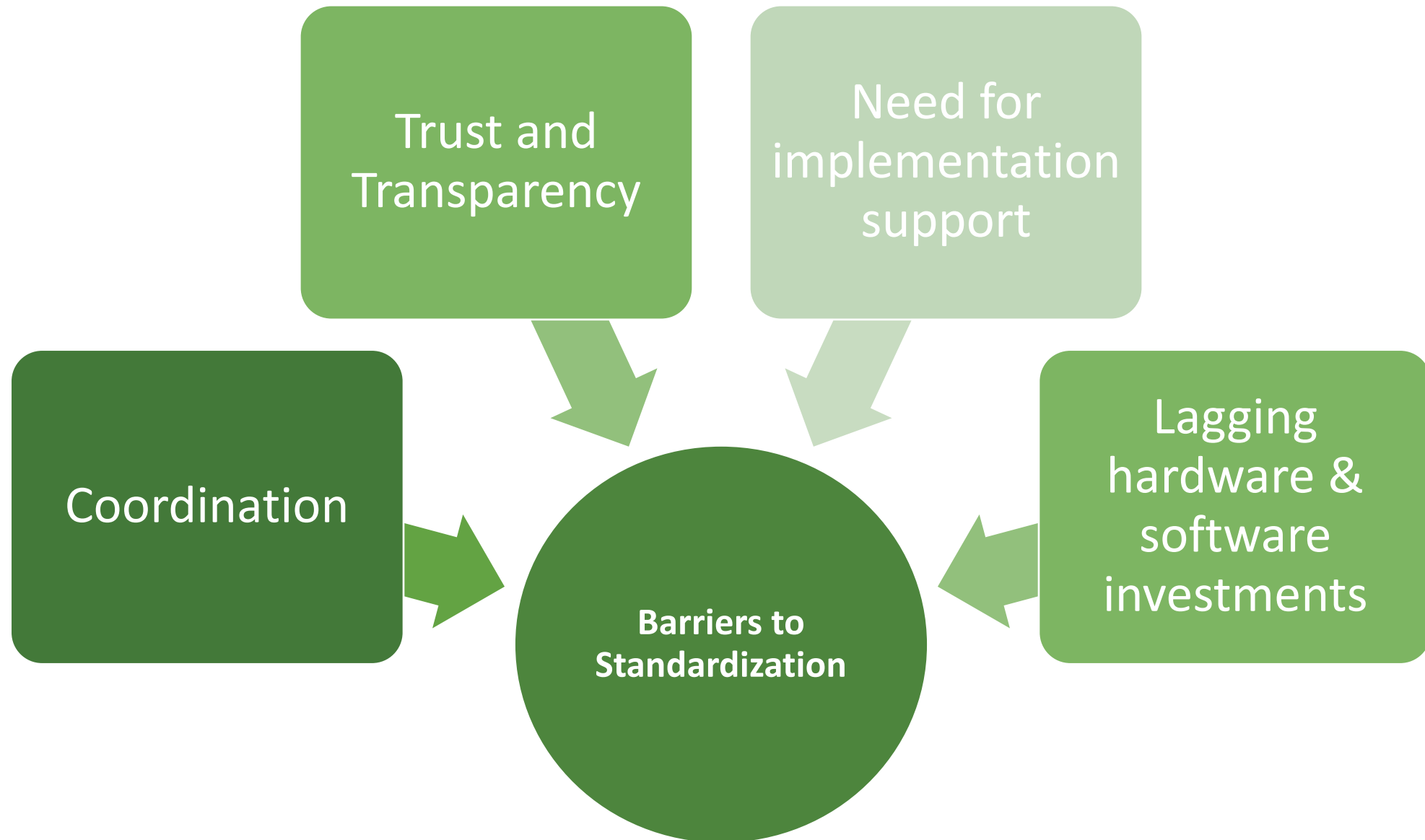
Benchmarking

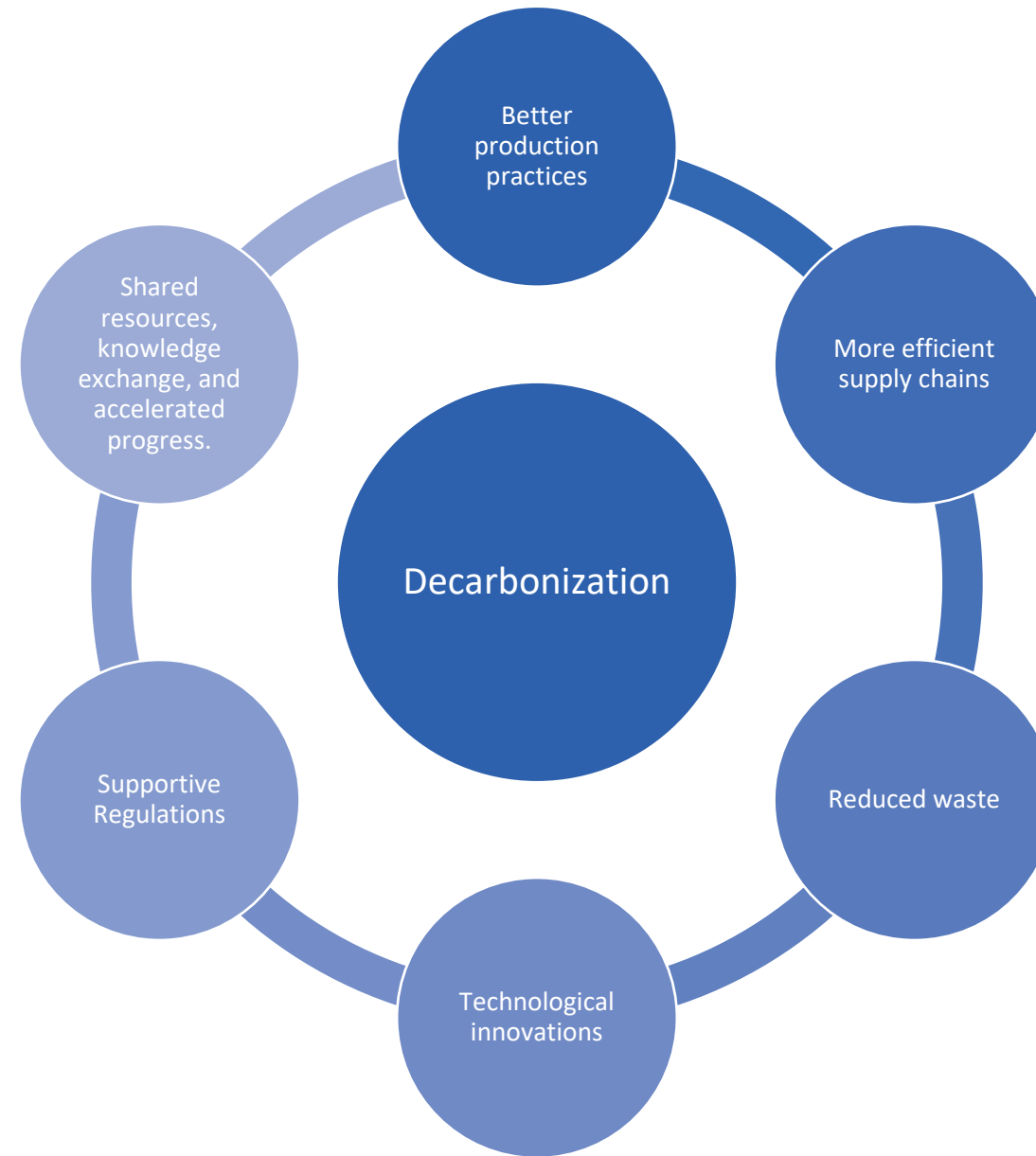
Sets a baseline for achieving compliance



Guidance

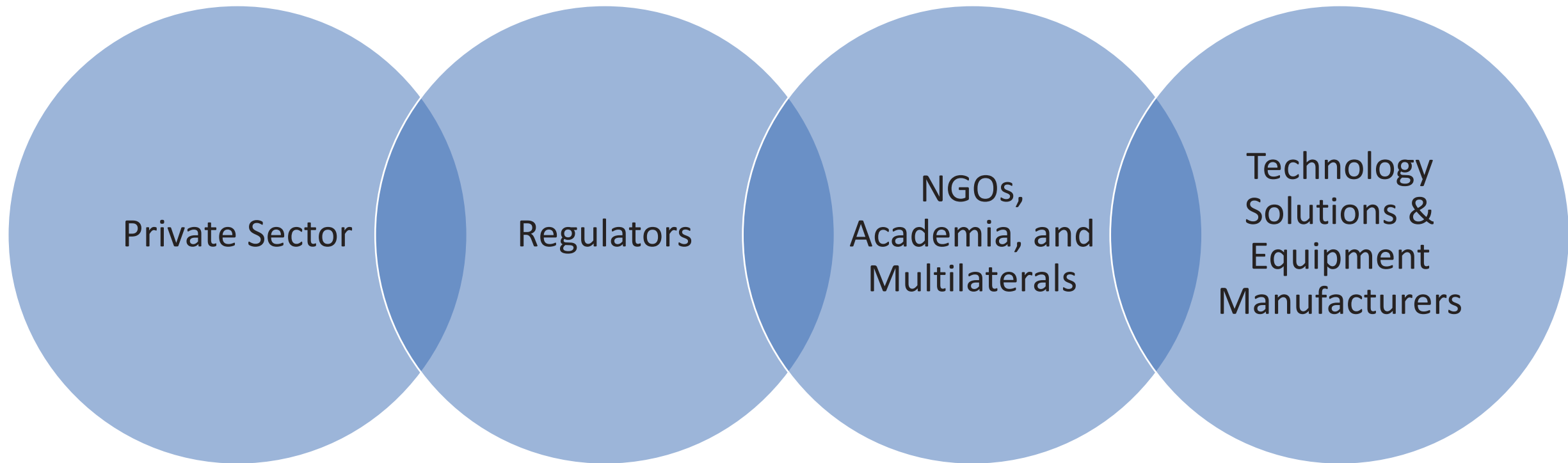
Provides a “north star” for all to follow







Who needs to be involved in setting these data standards?





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Basic Importing and Exporting

Forced Labor

ACE and Automated Systems

How to Use the Automated Commercial Environment (ACE)

ACE Portal Modernization

Getting Started with Automated Systems

ACE Automated Broker Interface (ABI) CBP and Trade Automated Interface Requirements (CATAIR)

Vessel Entrance and Clearance System (VECS)

ACE Frequently Asked Questions

Business Transformation and Innovation Division

Additional Studies on Emerging Technologies

DHS Silicon Valley Innovation Program

DHS University Programs on Blockchain

Envisioning ACE 2.0

Leading with Global Interoperability Standards

CBP supports the creation and use of global interoperability standards, or standards that guide software exchange data, bridging data silos that exist today among global supply chain participants. To facilitate that will foster a transparent, seamless, and global supply chain.

CBP's support for international interoperability standards continues to gain traction. For example, CBP's Identifiers (DID) and Verifiable Credentials (VC) as an official web standard by the World Wide Web Consortium focused on the implementation of VCs, which, together with DIDs, form a strong identifier for entities and private sector partners to establish additional verifiable trade data standards across several standardization via global interoperability standards, allowing trade partners to maintain technology choice while future

Tags: Trade

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MAR 18

Leading Companies Launch First-Ever Global Seafood Traceability Standards

POSTED BY: MELISSA ARONSON / UNDER: INDUSTRY ENGAGEMENT, TRACEABILITY

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- > Uncategorized
- > Wild-Caught Seafood

“If you want to go fast, go alone. If you want to go far, go together.”



Thank You

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