

Assessing Risk in Frutura's Global **Supply Chain and Operations**





Sophie Angleton, Lexi Weintrob, Rajan Patel

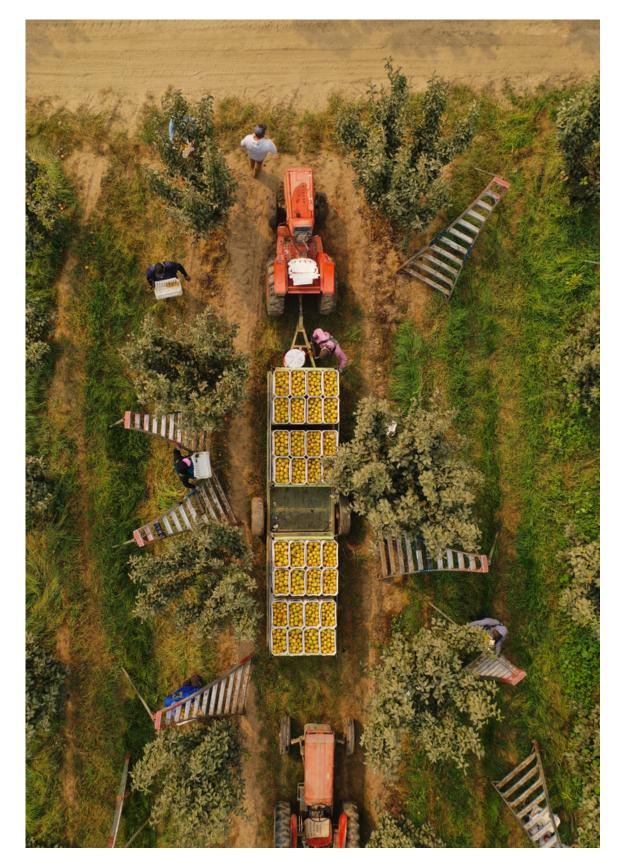
Purpose and Objectives



The global fruit industry faces increasing social and environmental risks. Shifting weather, unstable rainfall, and pollinator decline threaten yields, while labor exploitation and social inequities weaken supply chain resilience, leaving the sector increasingly fragile.

Founded in 2021, Frutura is a platform of fruit growers, packers, and marketers, managing a portfolio of seven primary business units with operations spanning across various levels of the supply chain, from farming to export. Headquartered across six countries – Chile, Colombia, Peru, Mexico, Uruguay, and the U.S. – each business unit maintains its own suppliers, facilities, and practices, while Frutura provides centralized strategic direction.

The purpose of this project was to assess key social and environmental risks facing Frutura's operations and supply chain. Our deliverables enhanced Frutura's understanding of risk in their supply chain and created a risk analysis strategy and framework moving forward.



Methodology 🌉



Data Collection & Cleaning

Gather and organize data for each site: site name, operation type, geographic coordinates, commodity, kilos sourced or handled (grown or serviced)

Generate Risk Scores

Calculate social and environmental inherent risk scores -- on a scale from 1-10 -- using Sedex and the World Wildlife Fund (WWF) databases

Map Sites & Scores in ArcGIS

Create three maps with site information and risk scores: 1. Dayka and Hackett Suppliers 2. Sun Belle U.S. Suppliers 3. Direct **Operations**

Identify Hotspots & Trends

Use ArcGIS analysis tools to identify hotspots -- a geographic location with a statistically significant aggregation of high risk for a given topic

Provide Recommendations to Frutura to Mitigate Risk

Outline next steps for Frutura to address the identified inherent risks, including suggestions for how to approach a site specific risk analysis

Deliverables



GIS Maps suppliers and direct operaton sites

ArcGIS StoryMap detailing hotspots and the most pervasive risks across all maps

Recommendations for Frutura to create a risk analysis strategy going forward

Our risk assessment serves as an important step in strengthening risk mitigation and management strategies. It also serves as a foundational piece for several elements of supply chain management for Frutura, including retailer compliance, B Corp requirements, and current and potential regulatory requirements, particularly for markets in the EU. Additionally, a risk analysis will help inform how the company strengthens a robust supplier onboarding and management program.





Data Sources



A comprehensive suite of tools and services to manage human rights within business supply chains. We utilized their *inherent* risk tool to generate social risk scores based on the country, industry, activity, and commodity of a given site.

10 Social Risk Categories

1 Emissions Category

WWF

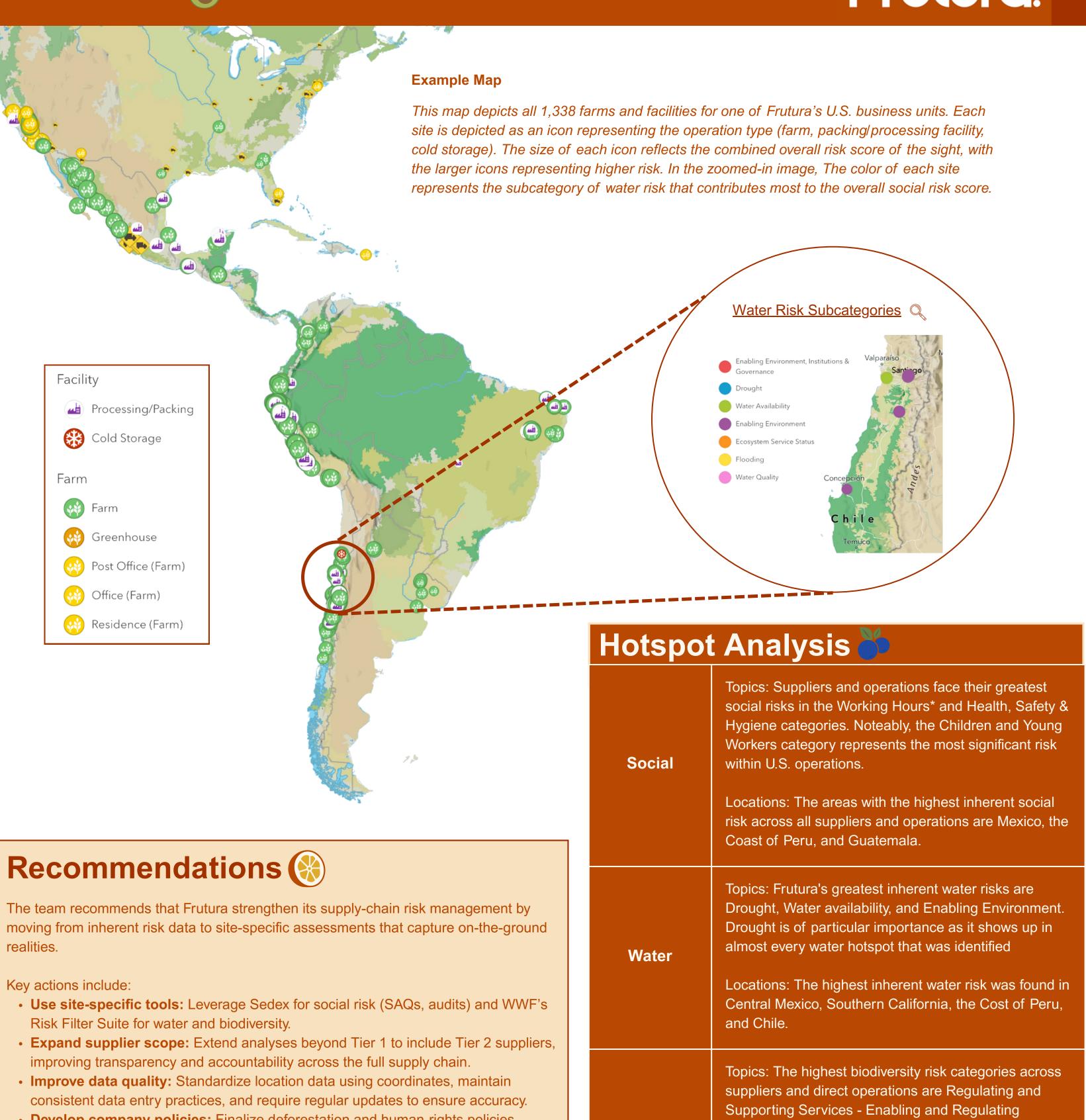
A suite of filters to analyze water and biodiversity risks across business operations and supply chains. Each water and biodiversity *inherent* risk score is based on the specific geographic region, industry, and operation type of a given site.

8 Water Risk Categories

4 Biodiversity Risk Categories







- **Develop company policies:** Finalize deforestation and human-rights policies aligned with the Accountability Framework Initiative (AFi) and international standards.
- Implement a phased approach: Prioritize high-risk regions first (e.g., Central Mexico, Peru, California), followed by medium and low-risk sites.
- Institutionalize risk management: Conduct assessments regularly, integrate tools and training for suppliers, and use consistent reporting systems

Overall, these steps create a structured roadmap for Frutura to enhance risk management, improve data credibility, and build long-term supply-chain resilience.

Locations: West and Central Mexico are consistently a biodiversity risk hotspot across direct operations and suppliers. Central/Western Mexico and the Coast of Peru are consistently hotspots across all risk categories for suppliers and Frutura's direct operations.

Services - Mitigating

Biodiversity

We'd like to thank our wonderful partners, Rachel Bigby, Jesse Last, and all of the Frutura Team that supported us throughout this project. And a huge thank you to our incredibly supportive advisor, Meghan McCarroll!