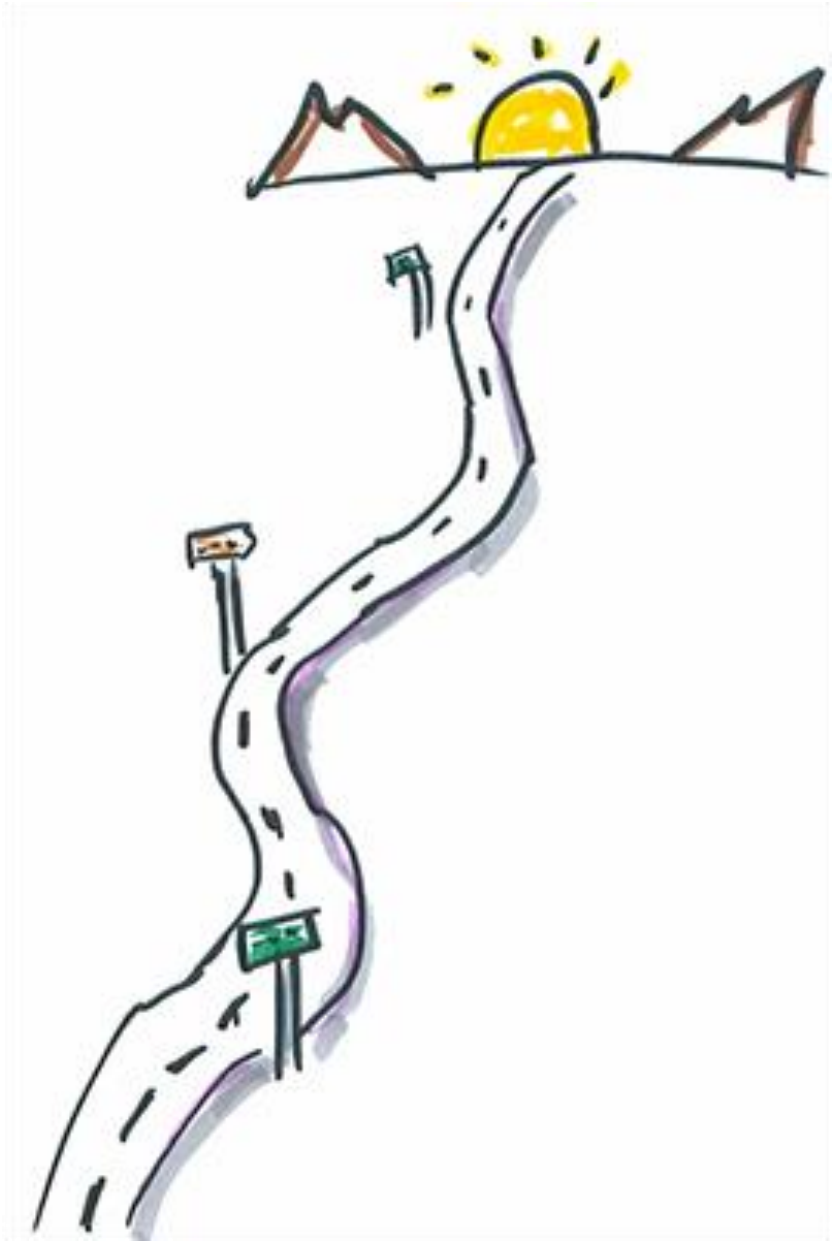
CLIMATE COLLABORATIVE™

Commit. Act. Impact.

Analysis. Action. Repeat: Steps and Tools For Comprehensive Climate Action Plans



24. September. 2019

CLIMATE COLLABORATIVE

Commit. Act. Impact.

a project of

OSC

Sustainable Food Trade Association

COMMIT. ACT. IMPACT.

Climate Collaborative Commitment Areas

Integrate carbon farming into the agricultural supply chains

Increase energy efficiency

Reduce food-waste in the supply chain

Remove commodity-driven deforestation from supply chains

Responsible engagement in climate policy

Reduce the climate impact of packaging

Commit to 100% renewable power

Reduce short-lived climate pollutant emissions

Reduce climate impacts of transportation

How to commit

CLIMATE COLLABORATIVE™ Commit. Act. Impact.

TAKE ACTION | BLOG | MEDIA & RESOURCES | EVENTS | ABOUT | DONATE

More companies are taking action to reverse climate change than ever before. They're tackling this global challenge not only because it's essential to the future of our planet but also because doing so offers tremendous opportunities for growth, job creation, and prosperity.

Companies can help reverse climate change by making a commitment to one or more of these initiatives.

WHY TAKE ACTION?

Climate change is both the greatest threat our planet has ever faced

MAKE A COMMITMENT

SIGNUP FOR UPDATES

Add Your Email Address →

CLIMATE COLLABORATIVE™ Commit. Act. Impact.

How many companies have committed?

437
Companies
Committing to Action

1685
Commitments

THANK YOU TO OUR DONORS!

Alter Eco
Annie's
Associated Labels and Packaging
Aurora Organic Dairy
California Olive Ranch
Cheer Pack
Clif Bar & Company
Connective Impact
Danone North America
Decker and Jessica Rolph
Dr. Bronner's
Eatsie.us
Foodstirs
Gaia Herbs
General Mills
Good Earth Natural Foods
GreenSeed Contract Packaging
Griffith Foods
Guayaki
Happy Family
Harmless Harvest
INFRA
Justin's
KeHE
Lotus Foods
MegaFood
MOM's Organic Market
Mountain Rose Herbs
National Co+op Grocers
Natural Habitats
Nature's Path
New Hope Network
New Morning Market
Numi
Nutiva
Oregon's Wild Harvest
Organic India
Organic Valley
Outpost Natural Foods
Patagonia
Plum Organics
Pluot Consulting
Presence Marketing
REBBL
Rogue Creamery
Safe Sterilization USA West
Sambazon
Stonyfield
Straus Family Creamery
Studio Fab
Sweet Additions
Traditional Medicinals
Trayak

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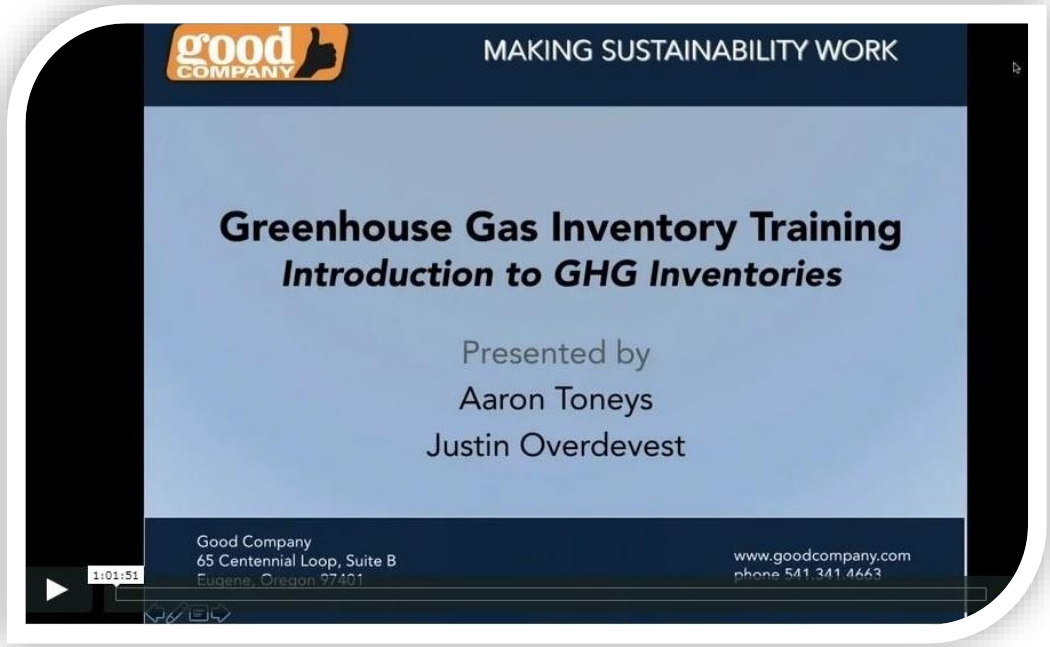
Previous SFTA GHG Inventory Sessions



GHG Inventory 101 Webinar

Beyond Your Walls Lessons Learned from the Scope 3 Tracking Annals

Our Speakers

Joshua Proudfoot

Principal

Good Company

Lisa Spicka

Associate Director

Sustainable Food Trade Association

(SFTA)

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Today's Content

- 4-Step Climate Action Plan Process
- CAP Company Examples
- Tools & Resources
- Q & A

CLIMATE COLLABORATIVE™
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Analysis. Action. Repeat:

Steps for Comprehensive Climate Action Plans

Presented by

Good Company

Joshua Proudfoot

Good Company
65 Centennial Loop, Suite B
Eugene, Oregon 97401

www.goodcompany.com
phone 541.341.4663

Webinar Outline

- Intro to Good Company
- Climate Action Planning
- Project Examples

Intro to Good Company

MEASURE

- Life-Cycle Analysis
- Social and Environmental Performance Assessments
- GHG Inventories (Scope 1 - 3, including supply chain)
- Feasibility Studies and Business Plans

MANAGE

- Climate Mitigation and Adaptation Plans
- Decision Support
- Social and Environmental Management Systems and Tools
- Sustainability Plans and Programs
- Training

MARKET

- Business and Market Development
- Due Diligence
- Market Research and Positioning
- Transparency Reporting and Public Disclosure (CSR)

Intro to Good Company

Climate Action Planning

Source: Good Company

1. Hotspot Analyses

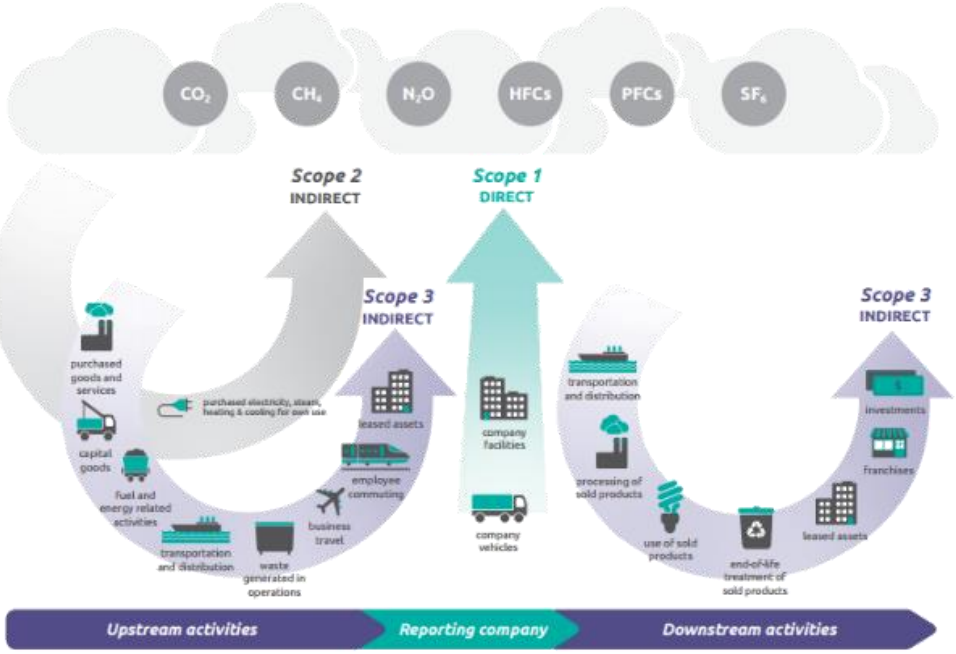
a. Carbon footprinting – GHG measurement

b. Climate materiality – what matters to us

c. Climate risk analysis – what risks should we be aware of

1a. Carbon Footprint

- Operational Greenhouse Gas Emission Inventory
  - Scopes 1-2
  - Supply Chain Analysis (Scope 3)

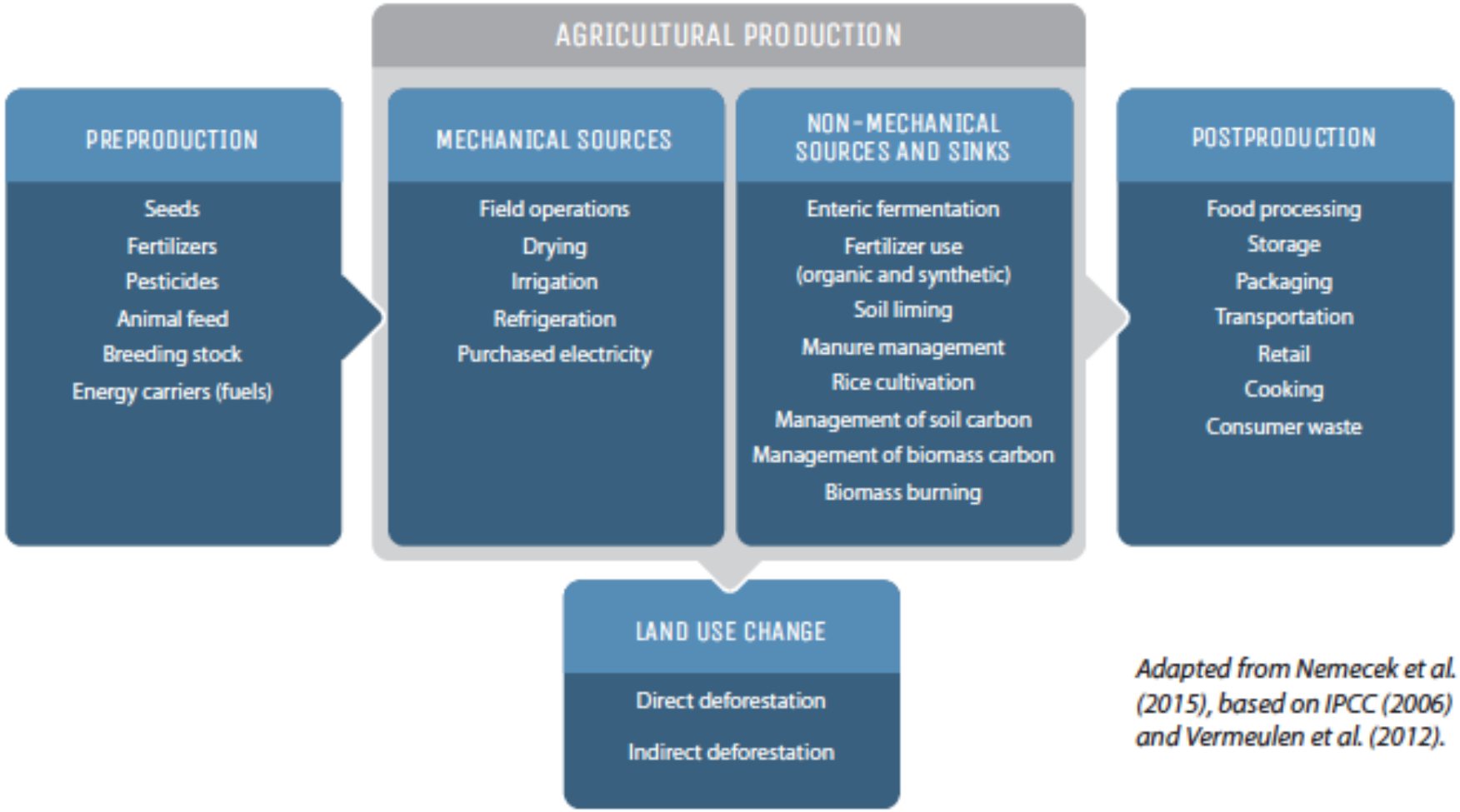


1a. Carbon Footprint – Value Chain & Product Hotspots

- Sense of scale by value & supply chain stage

Source: Weber, Matthews. Food Miles and Relative Climate Impact

1a. Carbon Footprint – GHG Inventory



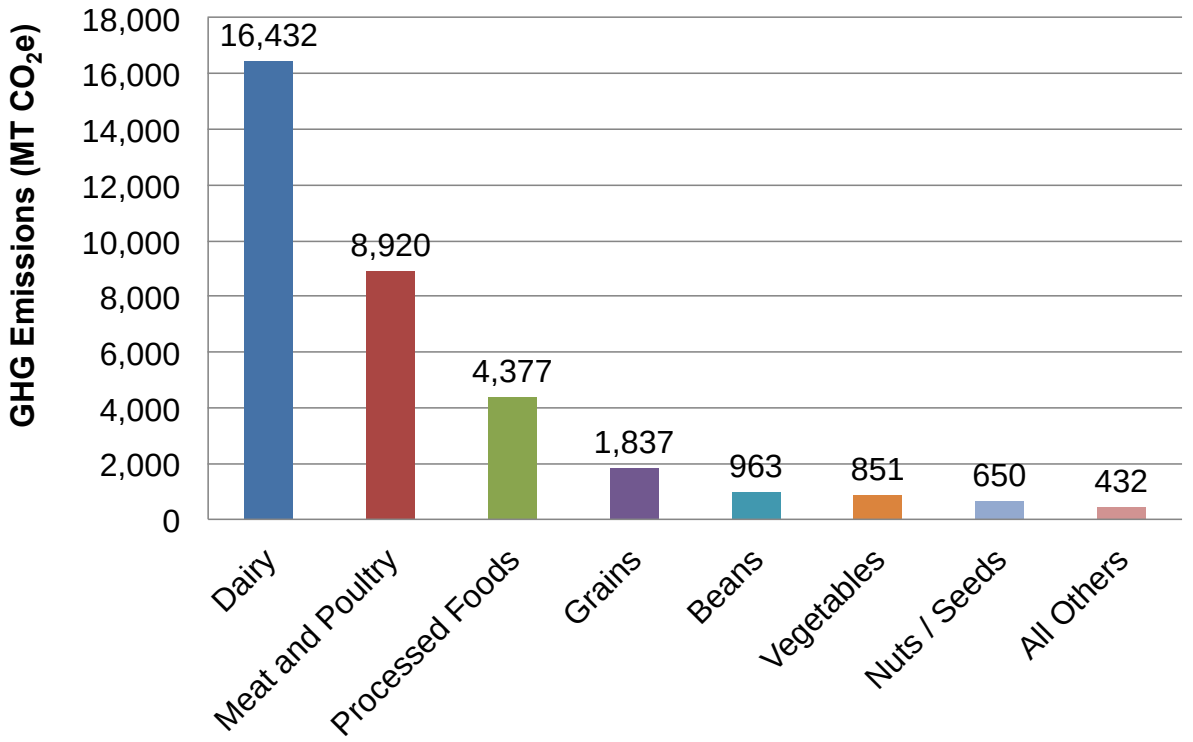
Adapted from Nemecek et al. (2015), based on IPCC (2006) and Vermeulen et al. (2012).

1a. Project Examples

- Pacific – hotspot analysis for top 10 ingredients by volume
- Bare – life cycle analysis of ag production, co-packer facilities, packaging, shipping and warehouse
- Alameda County, CA and City of Bend, OR – supply chain analysis Scope 3

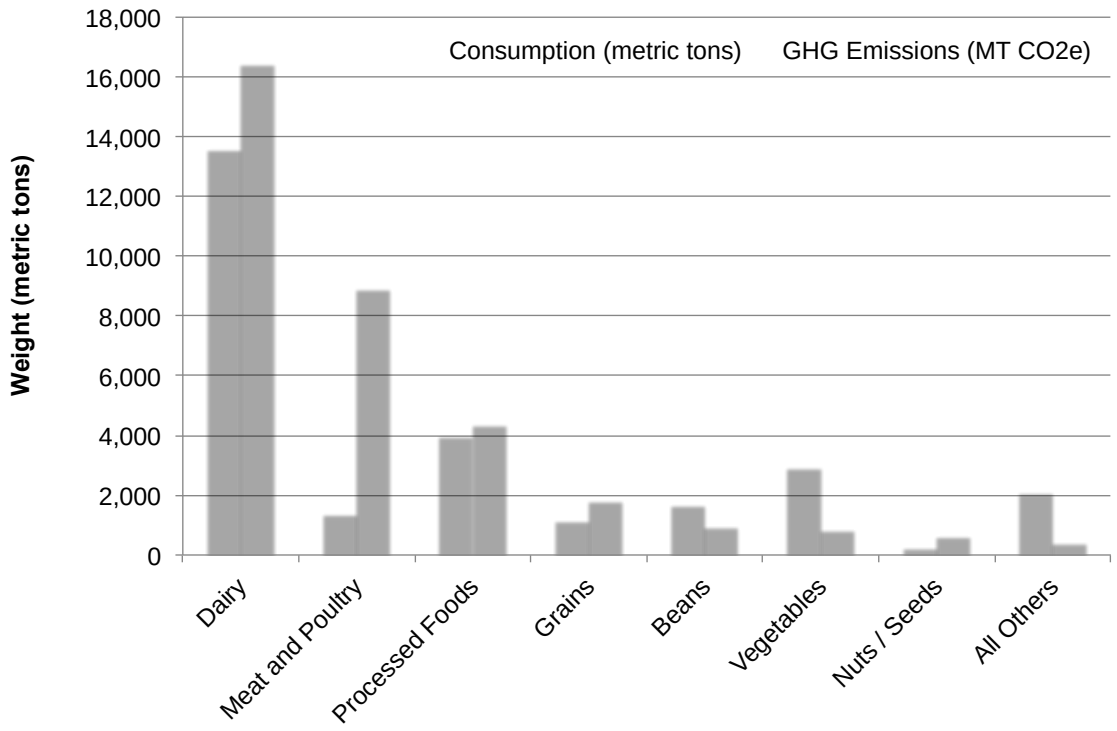
1a. Project Examples

- Pacific – hotspot analysis for top 10 ingredients by volume



1a. Project Examples

- Pacific – hotspot analysis for top 10 ingredients by volume

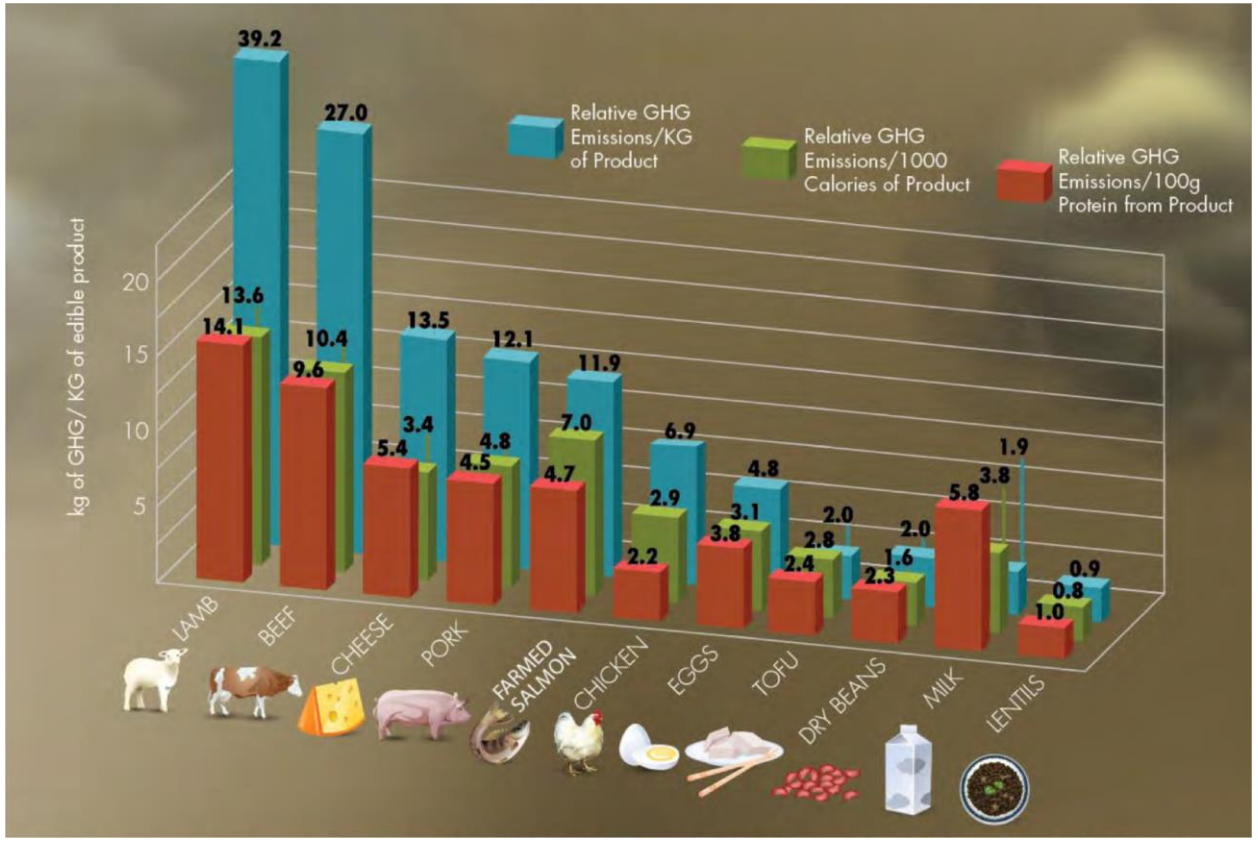


1a. Project Examples

- LCA = GHG inventory

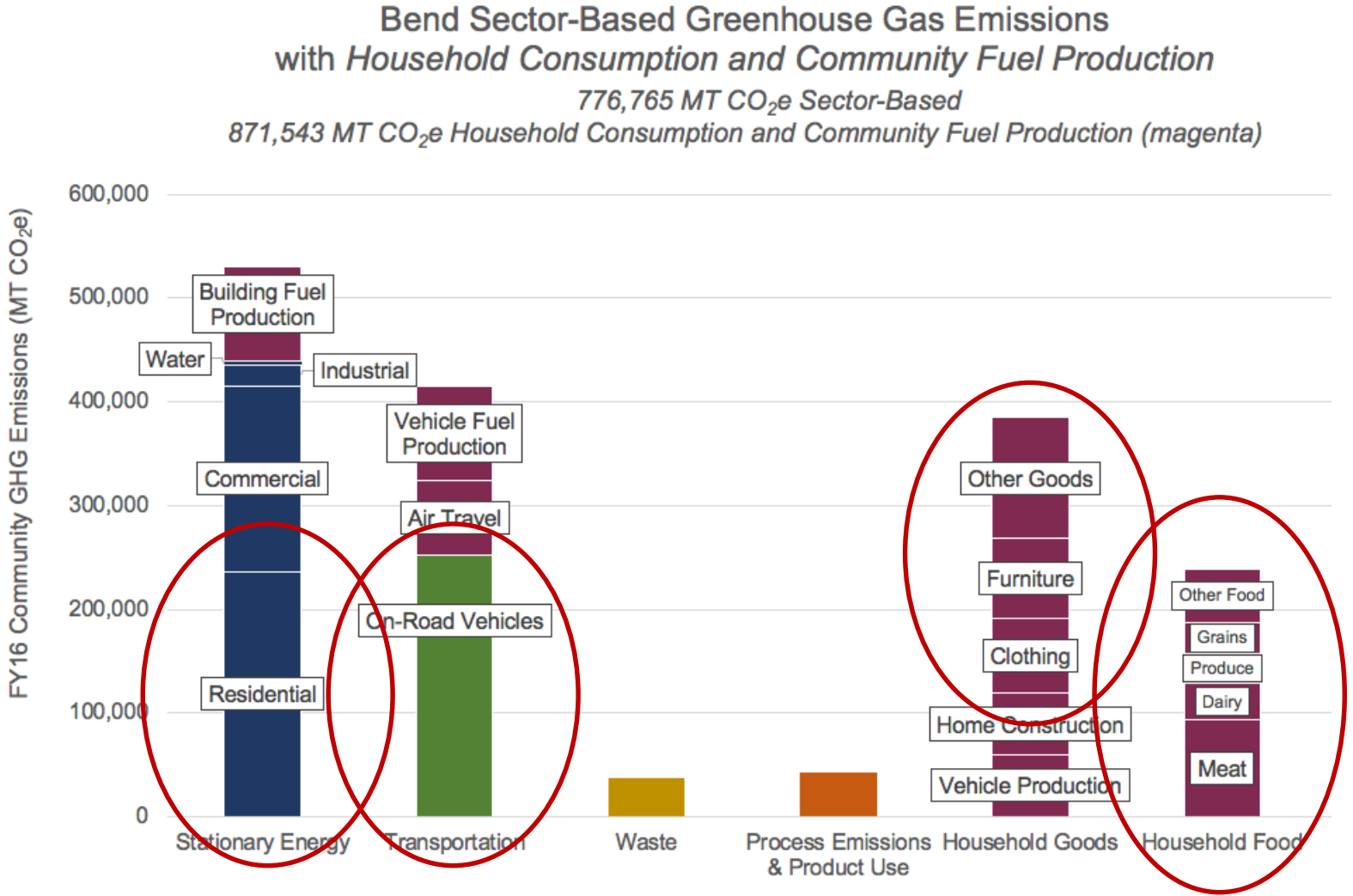
Life-Cycle Stages for Bare Products

1a. Project Examples

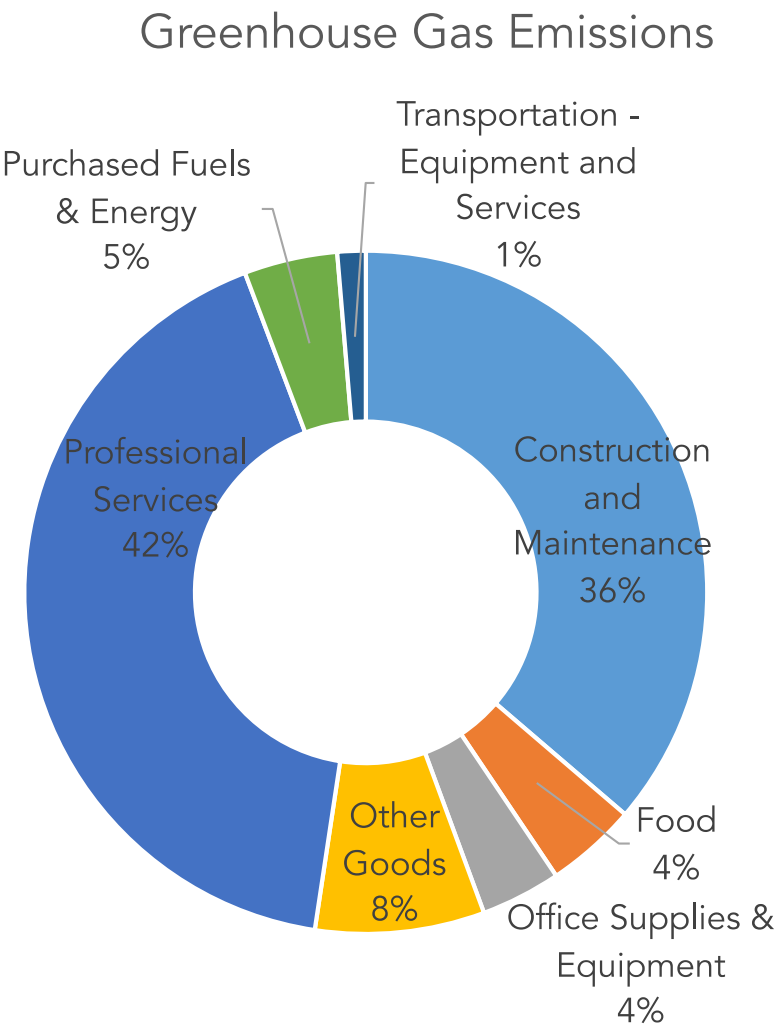


Source: Menus of Change. 2017. Annual Report.

1a. Scope 3 Analysis – Daily Life of a US Community



1a. Scope 3 Analysis – Alameda County



1b. Climate Materiality

- Why is it important?
  - Identifies potential risks and opportunities
  - Highlights issues of control vs. influence
  - Provides reporting structure
  - Directs efforts and attention to progress and performance

1b. Climate Materiality – Mitigation (Qualitative)

Environmental

On-farm Practices
Materials
Energy and Refrigerants
Water
Soil Nutrients and Health
Biodiversity
GHG Emissions
Land Use Change
Effluents and Waste
Products and Services
Compliance
Transport
Supplier Environmental Assessment
Impact or Environmental Business Model
Physical Climate Risk

Social

Labor Practices
Governance
Health & Safety
Diversity & Equal Opportunity
Human Rights
Ethics, Compliance, Anti-Corruption
Animal Welfare
Healthy and Affordable Food
Product Responsibility

Economic

Economic Performance
Market Presence
Indirect Economic Impacts
Procurement/Sourcing Practices

SFTA Member:

Materiality

Greenhouse Gas Emissions

SCOPE 1

DISTRIBUTION	2016	2017	2018
Fleet CNG			
Fleet 20% biodiesel	1071	1107	1035
Propane			

SCOPE 2

ENERGY	2016	2017	2018
Natural gas			
Electricity	37	135	186

Greenhouse gas (GhG) measurements help us track and reduce our company's impact on the atmosphere through our operations.

- **Energy:** Electricity in Lane County is very clean, creating only 27 lbs CO_2 per MwH.
- **Total:** GloryBee generated 1462 tons of CO_2 in 2018, which is equivalent to 175 homes' electricity for a year.
- **Goal:** Reduce CO_2 to 1000 tons by 2020.

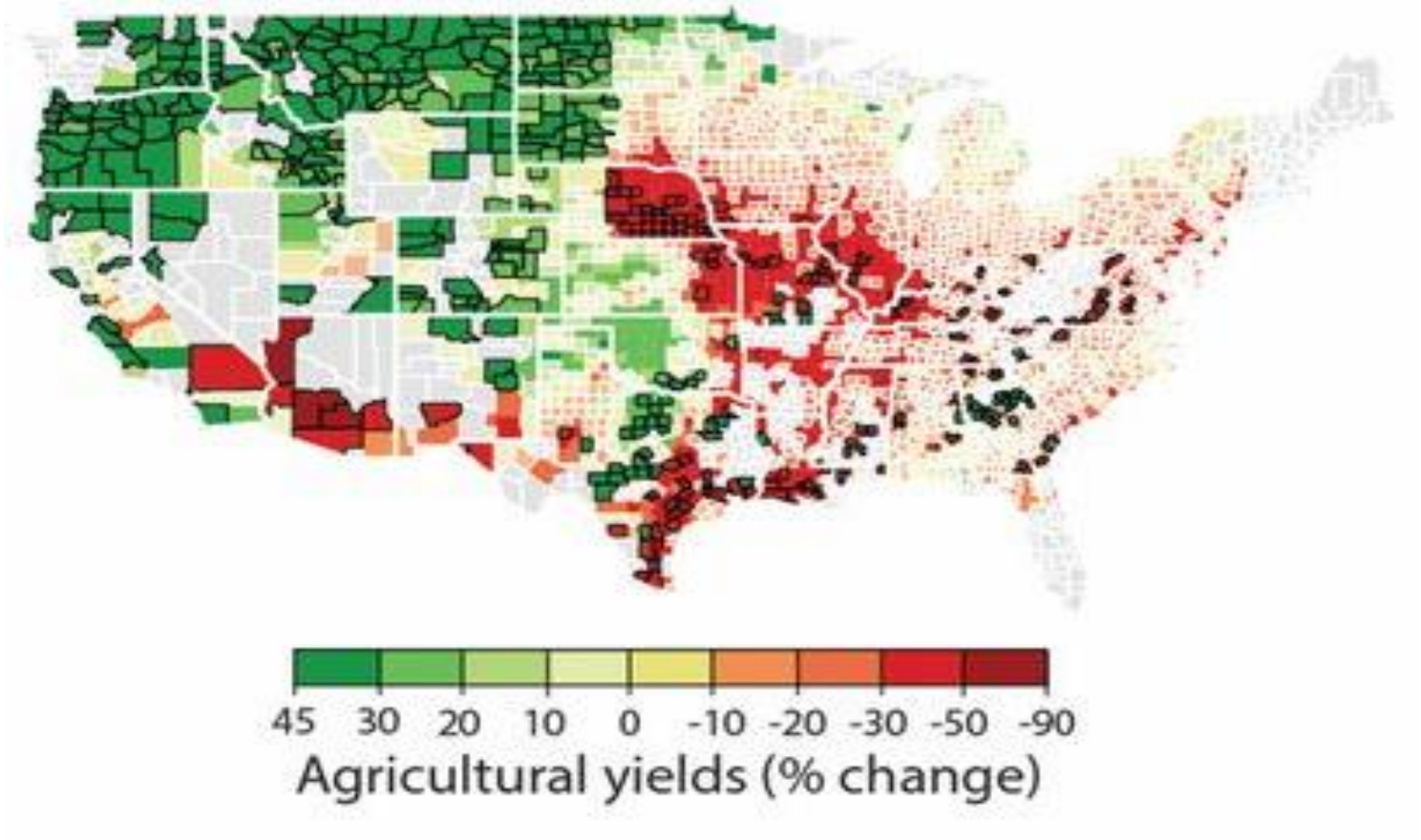
SCOPE 3

TRAVEL & WASTE	2016	2017	2018
Employee commuting			
Business travel	304	459	241
Waste disposal			

1c. Climate Risk Analysis

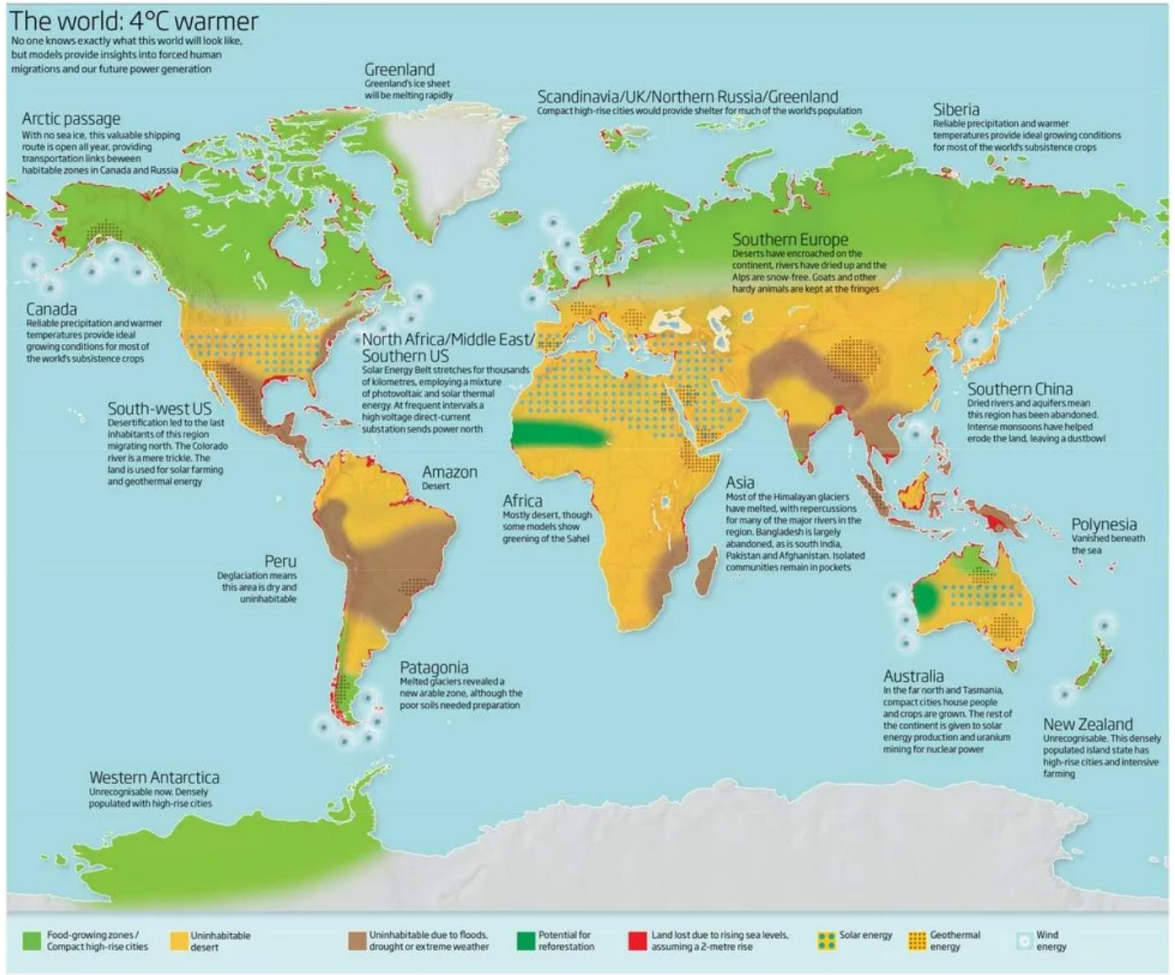
- Mitigation vs. adaptation – generally focused on adaptation
- Types of risks identified and assessed
  - **Mitigation:** new laws that alter business activities or costs ex. Refrigerants or fuels
  - **Adaptation:** physical (temperatures, extreme events, water supply), market and infrastructure risk – key analysis but focused on impacts to supply chain and operations

Changes in yields –
Where are your ingredients grown?



Source: Estimating economic damage from climate change in the United States

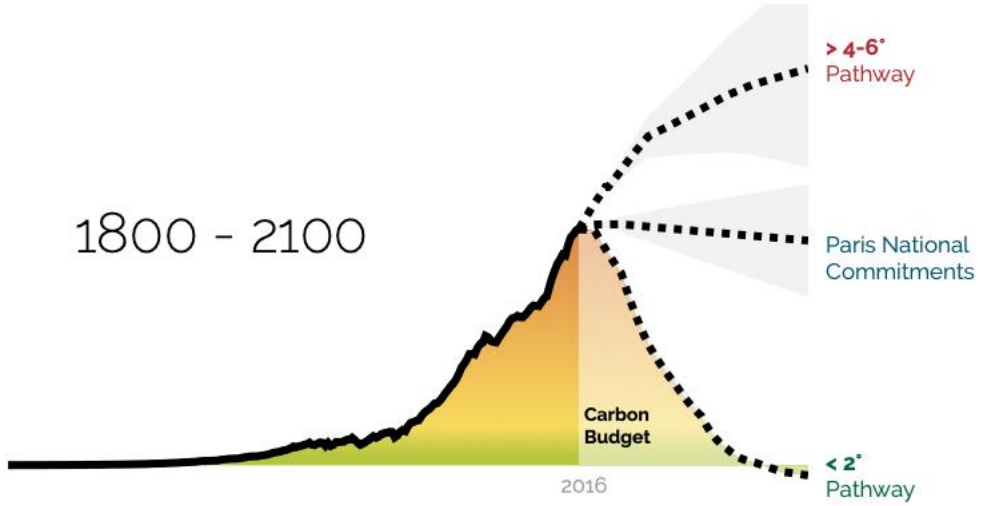
Changes in yields –
Where are your ingredients grown?



New Scientist, 2010

2. Goal Setting – Internal vs. Science-based

- Internal Approach
  - Qualitative – programmatic
  - Quantitative – non-SBT goals
- Science Based Targets – SBT
  - GHG reductions based on “fair share” of emissions in line with keeping warming to 1.5, WB2C and 2ºC



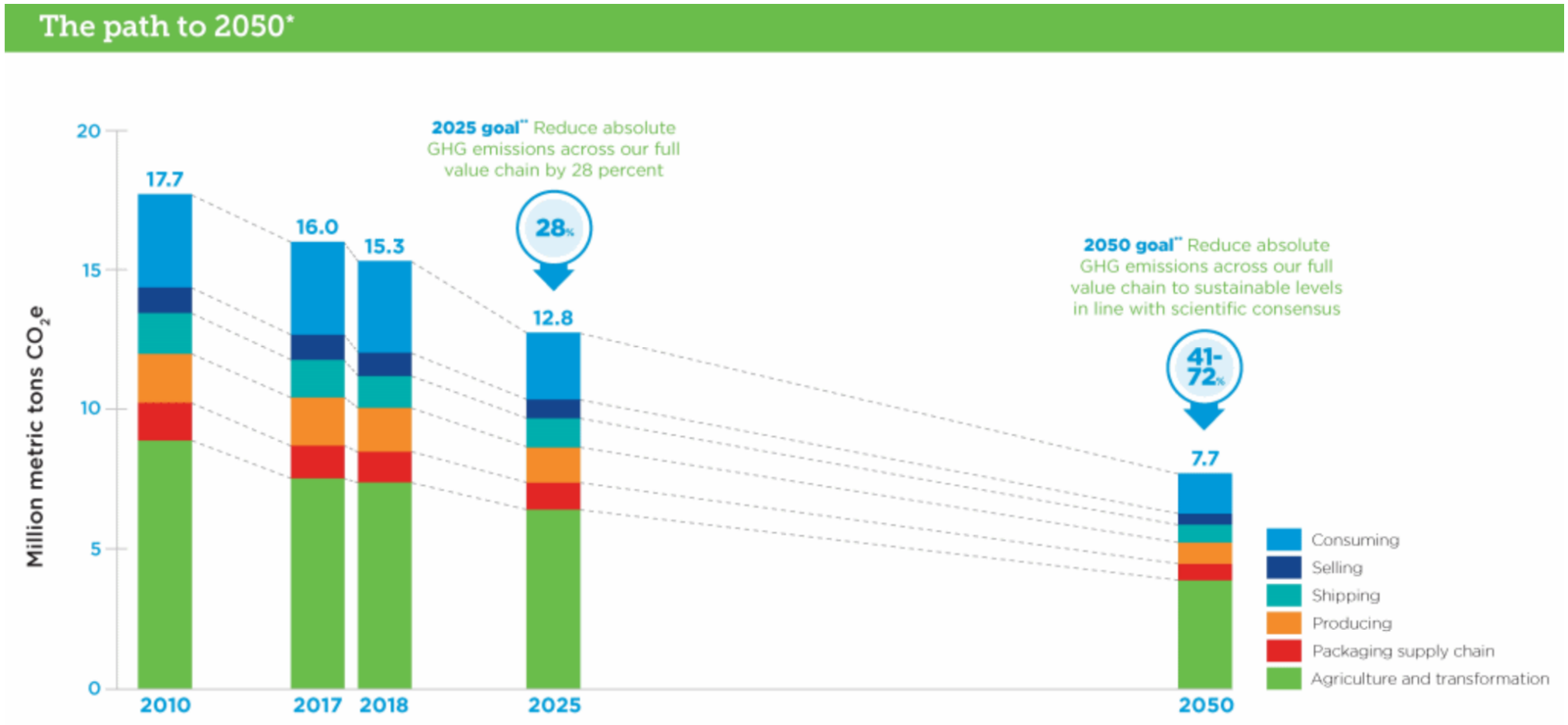
SCIENCE BASED TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

2. Goal Setting: SBTi approaches

- Modeling Options
  - Generally trajectory is based on level of commitment – 1.5C, WB2C and 2C.
  - Operational vs. supply chain emissions (control vs. influence)
  - Scope 3 target required if emissions > than 40% of total
  - Food sector methodology and options for reporting evolving
- Timeframe
  - Model annual and total Scope 1, 2 and 3 reductions in short and long-term (~2025-2030 & 2050)

2. SBT Example – General Mills

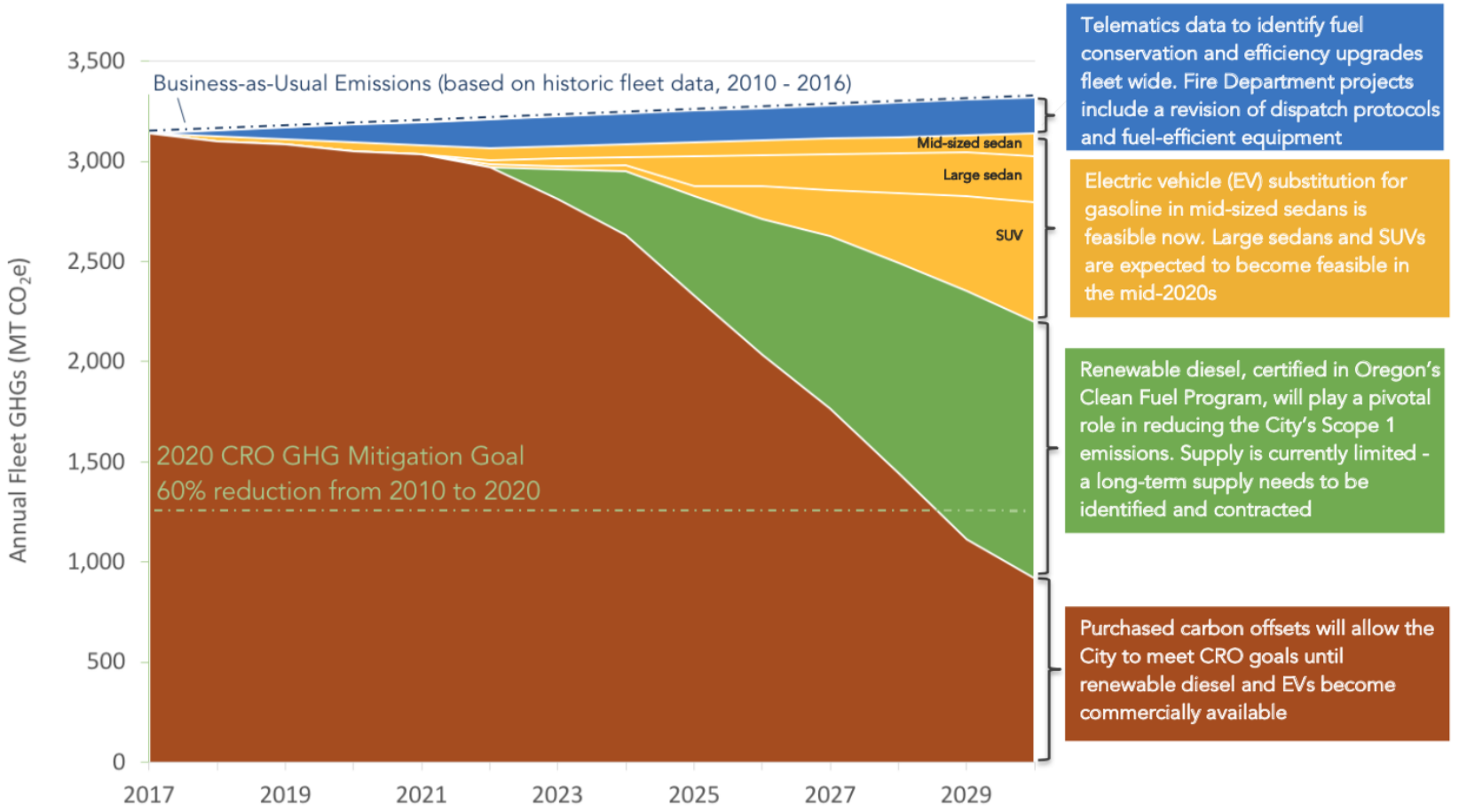


Source: General Mills, 2019 Global Responsibility Report

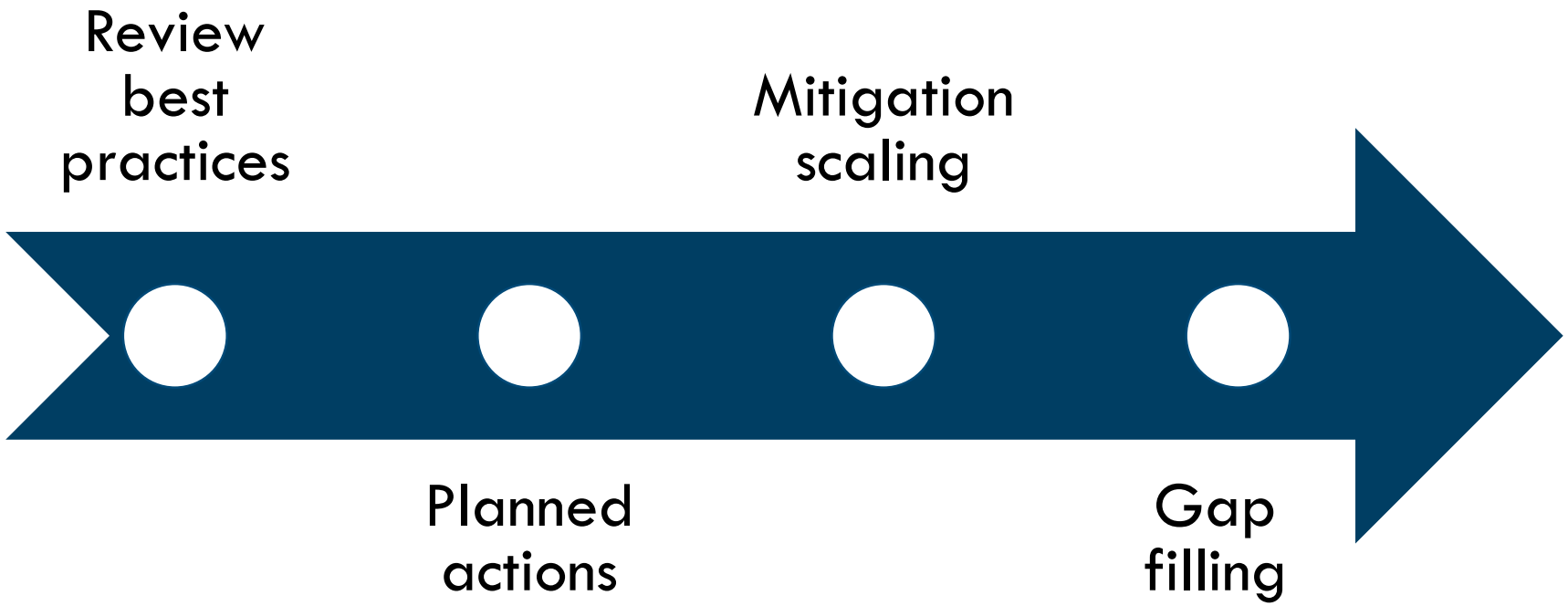
2. SBT Example – City of Eugene

1.1. ESTIMATED TIMING OF GHG REDUCTIONS – FOR COST-EFFECTIVE FLEET ACTIONS (COMPARED TO OFFSETS @ $15 / 1 MT CO_2E)

Figure ES-1: Graphic predicting the City's GHG emissions (brown area) over time compared to CRO targets.



3. Develop a Climate Action Plan



3a. Review best practices for climate mitigation

- Fertilizer efficiency
- Cover & intercropping
- No-till farming
- Low carbon foods

- Building & lighting efficiency
- HVAC systems
- Efficient equipment
- Energy audits
- White roofing

- Coordination with community & supply chain partners
- Composting
- Storage & cold chain management

- Reforestation & agro-forestry
- Reduce land use change impacts

- Carbon pricing
- Renewable energy legislation

3a. Best practices for climate mitigation

- Use post-consumer recycled content in place of virgin materials
- Conduct LCA to identify opps for reductions
- Collaborate with partners to identify solutions

- On-site renewables
- Power Purchase Agreement (PPA)
- Purchase green energy or renewable energy credits (RECs)

- Natural refrigerant options
- Audit & monitoring of pollutants
- Reduce ag contribution – livestock & field burning

- Electric and low-carbon fuels
- EPA SmartWay
- Telematics & fleet efficiency
- Increase rail transport mode
- Multi-modal options for employee commuting

3a. Best practices for climate mitigation

Project Drawdown: 12 of top 20 solutions relate to food

- Silvopasture
- Regenerative agriculture
- Temperate forests
- Peatlands
- Tropical staple trees
- Afforestation
- Conservation Agriculture
- Tree intercropping
- Managed grazing
- *Reduced food waste*

- Refrigerant management
- *Reduced food waste*

- Plant-rich diet
- *Reduced food waste*

Source: Project Drawdown

3b. Identify existing and possible actions

- Decide which common actions are relevant
- Take stock of existing actions
- Determine what your company's version of best practices would look like
- Determine which can be done soonest or offer the best value (co-benefits)

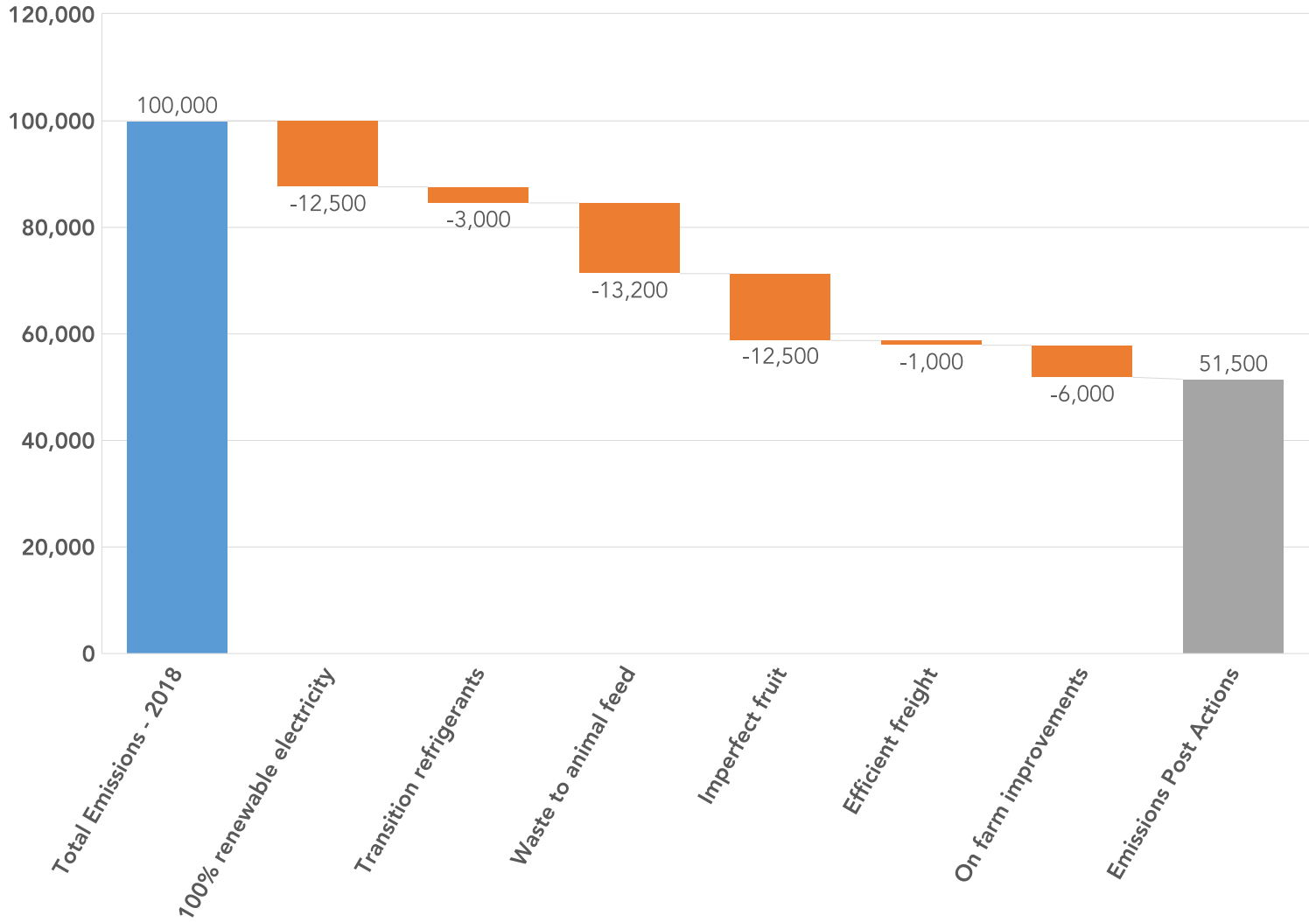
3c. Mitigation & co-benefits scaling

- Mitigation scaling
- Co-benefits scaling
  - Improves equity
  - Supports adaptation
- Easy to do? Largest benefit?
- Low price per tonne?
- Need to do action anyway?

3d. Gap Filling

- Quantification of target with actions
- Review of best practices not chosen
- Action prioritization

3d. Gap Filling – Confidential Client



4. Measure and Report

- Measurement – rough scaling vs. detailed
  - Compare performance to baseline
  - Revisit or repeat footprinting and SBT analysis if need be
- Reporting & communication
  - Standalone document? Combine with financial reporting?
  - Internal vs. external communication

4. Measure and Report – Confidential Food Client

- **2019 Low Carbon Transition Plan Contents**
  - GHG profile – past performance & projects
  - Plans and measures – targets, hotspots, scaling actions
  - Projected risks and business changes – management, risk by location, approach and changes
  - Management and policy – mission, materiality, reporting
  - Business model and supplier engagement – model, supply chain engagement, projected impacts and next steps

Closing Thoughts

- We must act
- Be purposeful – no time for feel good actions without scale

Questions? Connect with Us

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541.341.4663 x213

joshua.proudfoot@goodcompany.com

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Action Planning Tools

10. April. 2019

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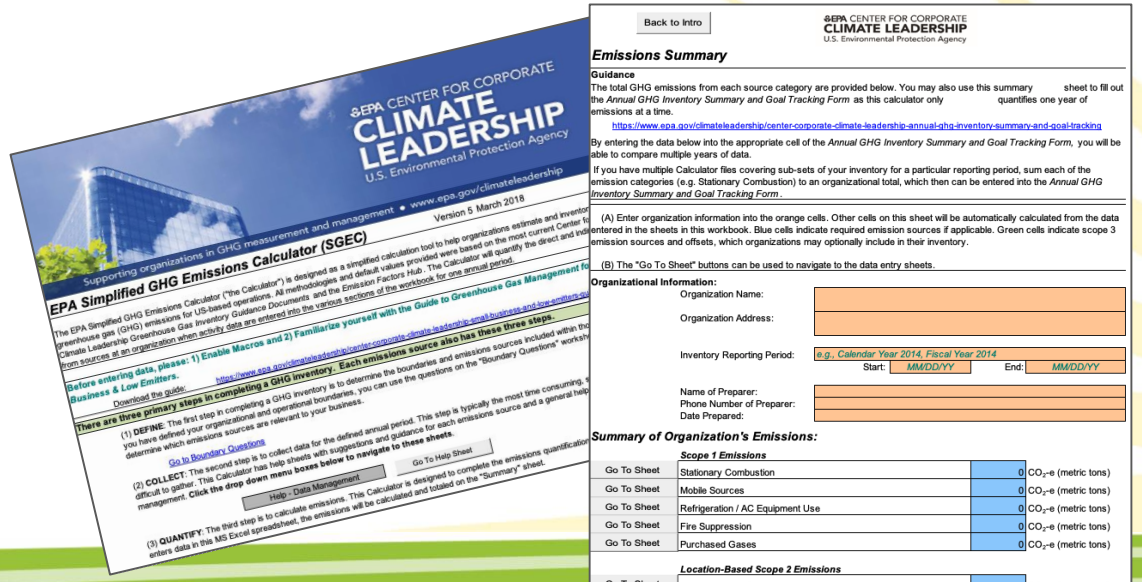
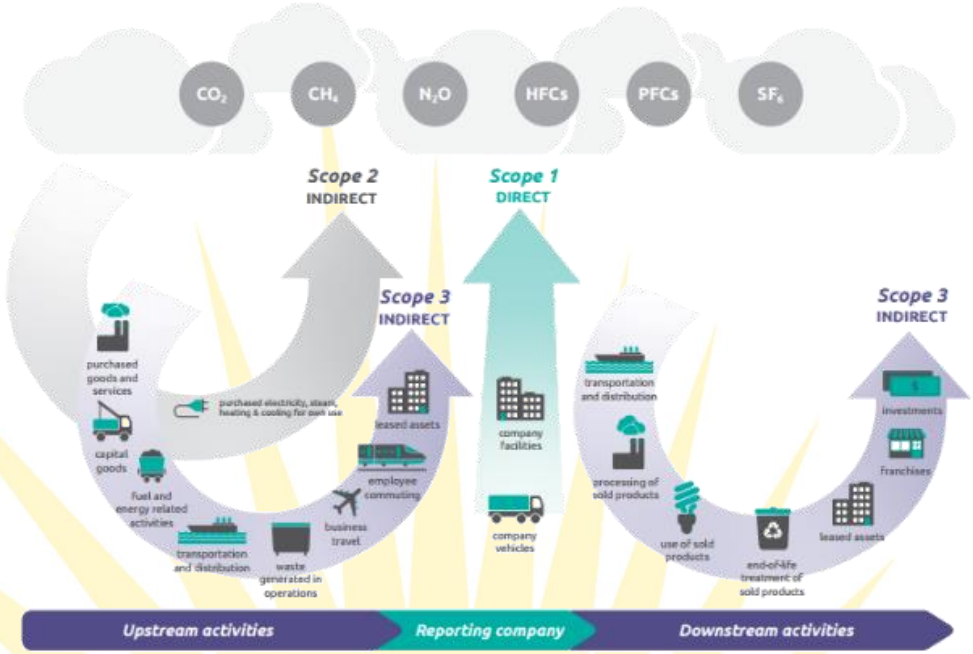
Climate Action Planning Tools

Tools: **Hotspots and Impacts**

- *GHG Protocol:* Scope 1,2, & 3 Emissions Explanation
- *GHG Protocol:* GHG Calculation Standards
- *GHG Protocol:* Emissions Calculators
- *GHG Protocol:* Scope 3 Evaluator
- *EPA:* Simplified GHG Calculator

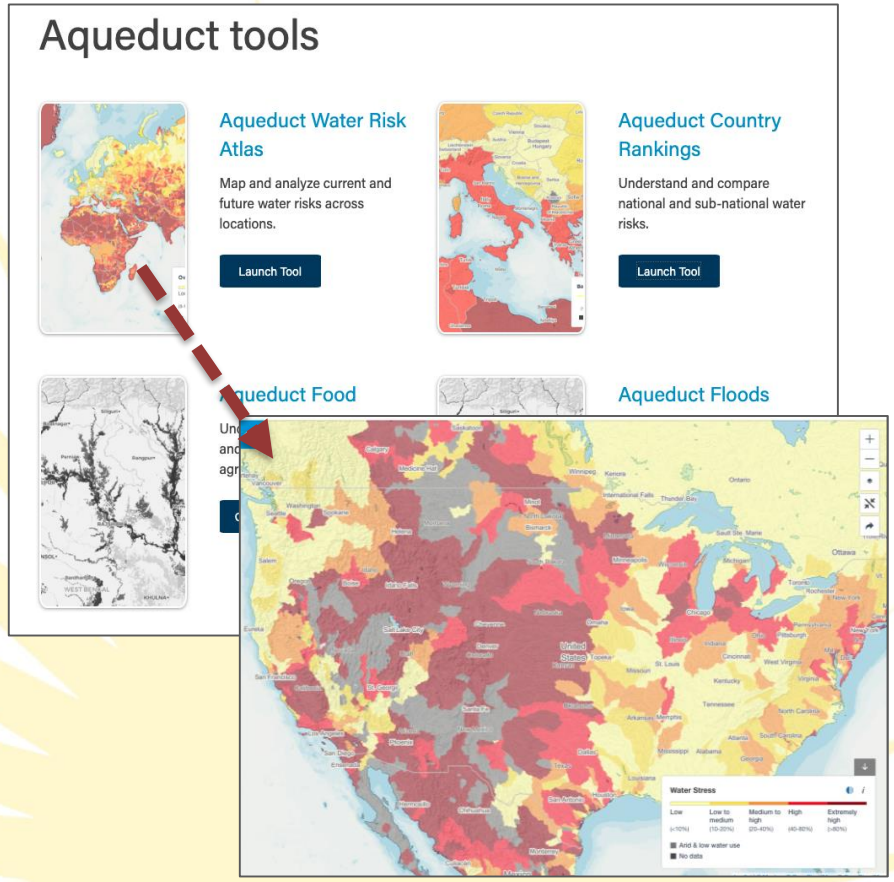




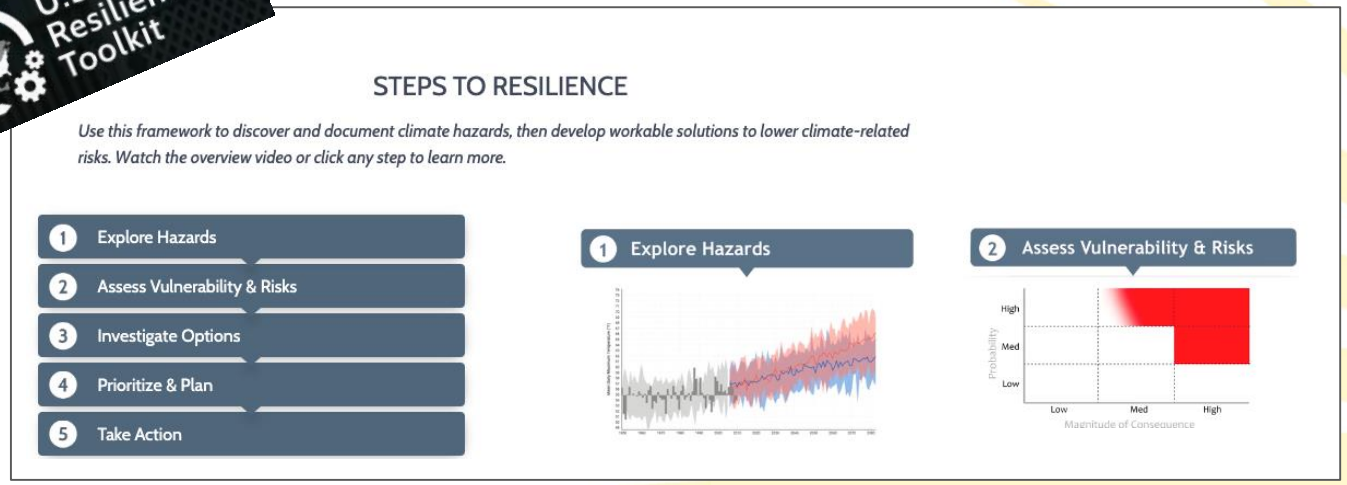
Tools: **Hotspots and Impacts**

- *WWF:* Water Risk Filter
- *WRI:* Aqueduct Water Risk Atlas
- CDP: Global Climate Analysis
- *NOAA:* U.S. Climate Resilience Toolkit

AQUEDUCT



U.S. Climate Resilience Toolkit



Tools: **Goals & Action**

- *Climate Collaborative:* Nine Commitments
- *SFTA:* Member Sustainability Reports
- *SFTA:* Climate Metrics Guidance (available to SFTA members)

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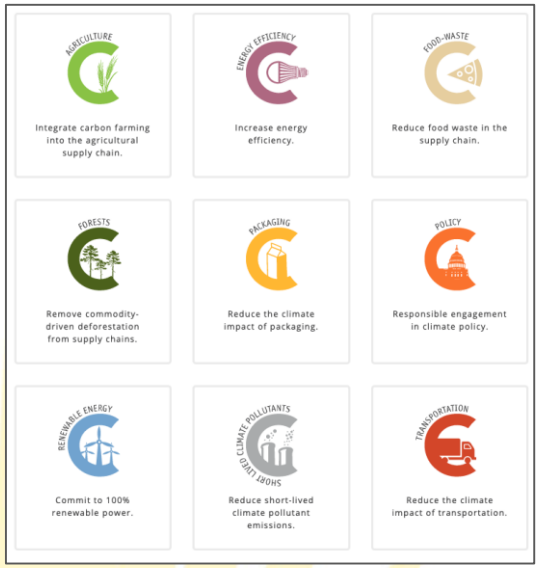
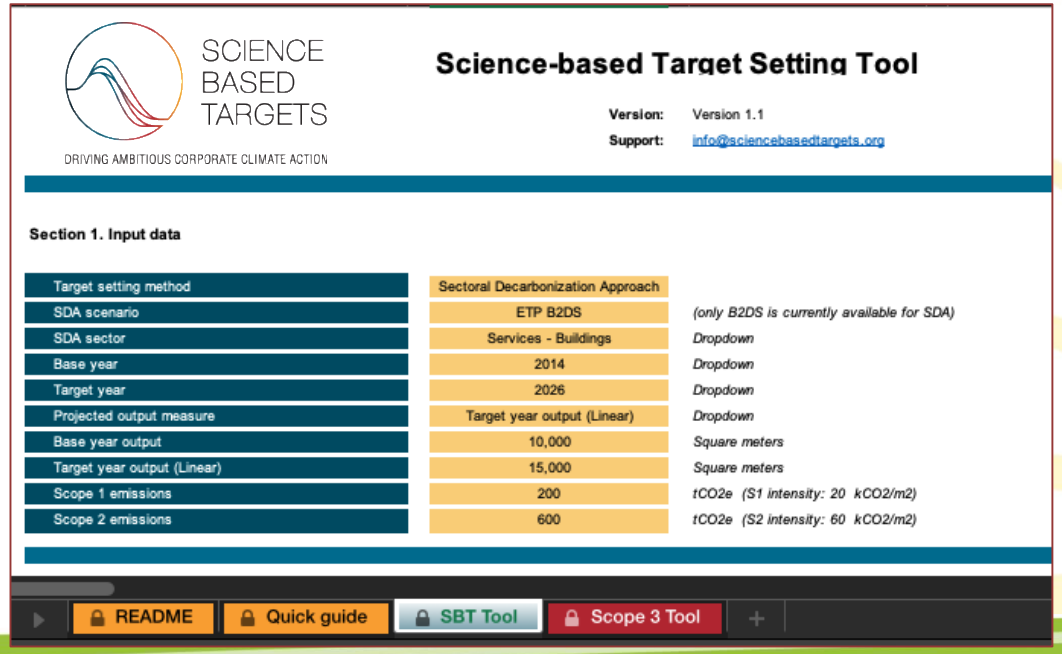
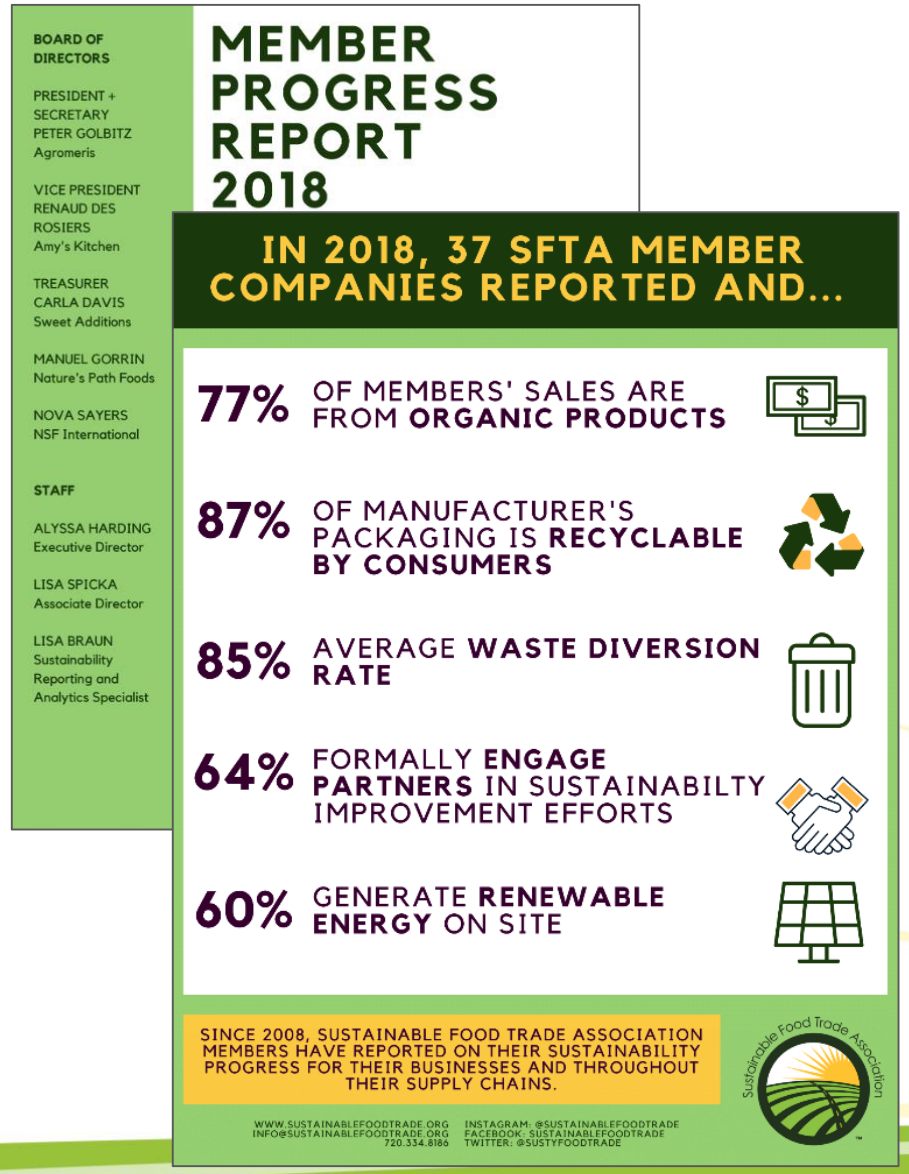




Target setting method	Sectoral Decarbonization Approach	
SDA scenario	ETP B2DS	*(only B2DS is currently available for SDA)*
SDA sector	Services - Buildings	*Dropdown*
Base year	2014	*Dropdown*
Target year	2026	*Dropdown*
Projected output measure	Target year output (Linear)	*Dropdown*
Base year output	10,000	*Square meters*
Target year output (Linear)	15,000	*Square meters*
Scope 1 emissions	200	*tCO2e (S1 intensity: 20 kCO2/m2)*
Scope 2 emissions	600	*tCO2e (S2 intensity: 60 kCO2/m2)*

- *SBTi:* Science-Based Target Setting Tool
- *SBTi:* Step-by-Step Guide

Tools: **Reporting & Communication**



Metrics, Measurement, Techniques

- *Second Nature:* Carbon Mgmt. & GHG Mitigation Handbook
- *SFTA:* SFTA Sustainability Metrics Framework
- *SFTA:* Climate Metrics Guidance *(SFTA members)*

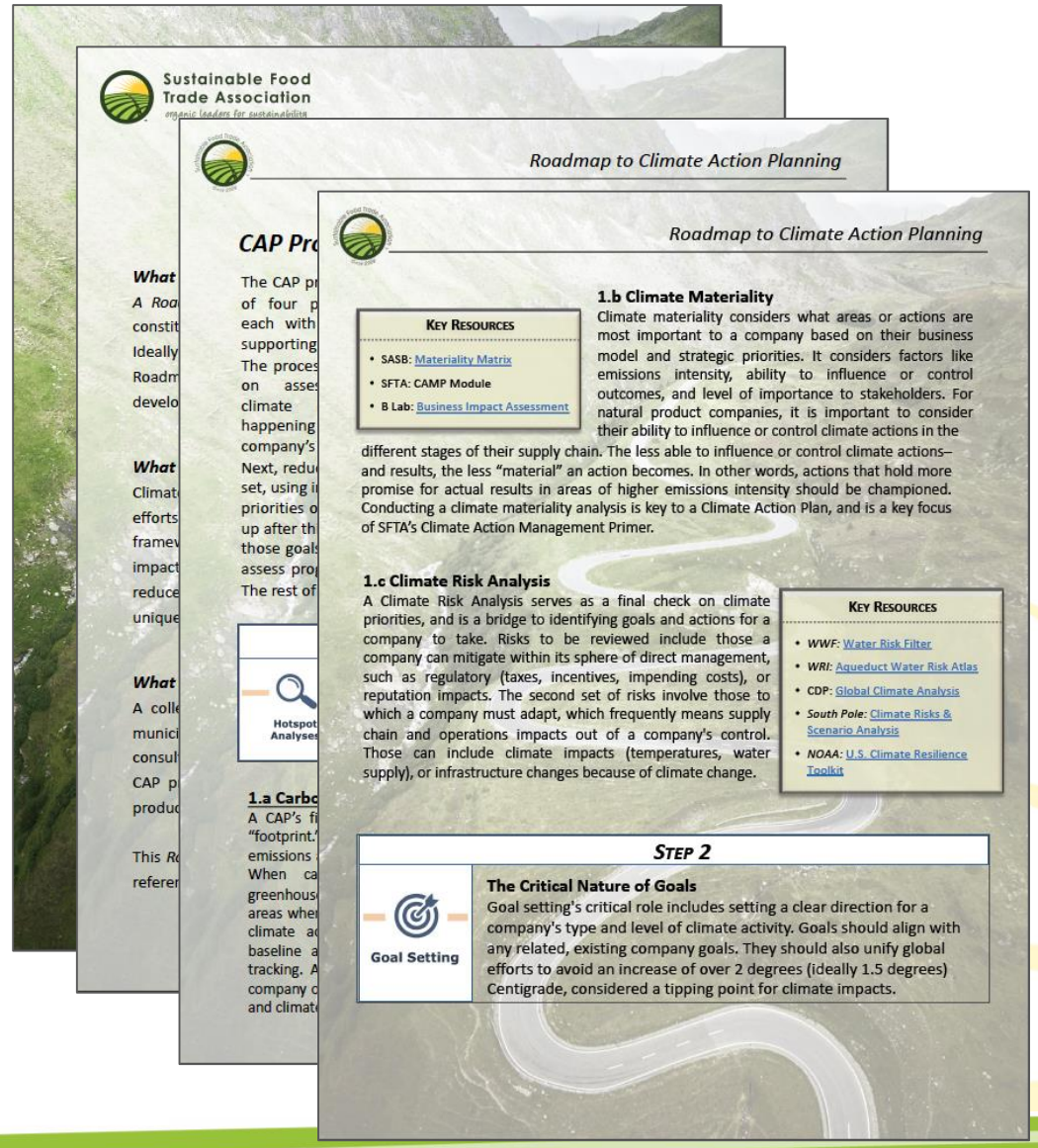
External Reporting

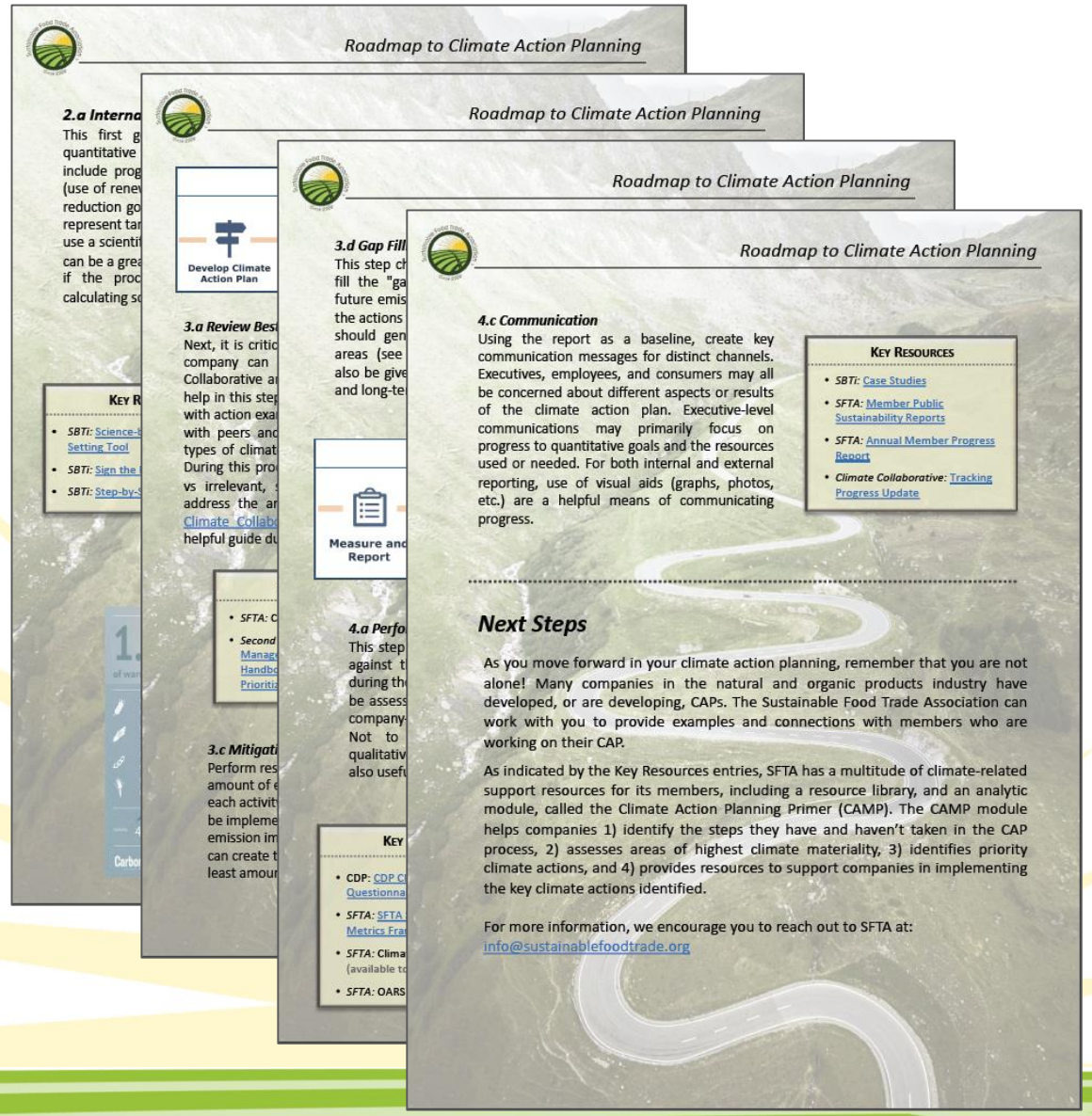
- *SFTA:* Annual Member Progress Report

2018 Results Published this week!

- *SBTi:* Case Studies

Roadmap to Climate Action Planning





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organic leaders for sustainability

SFTA's "CAMP" Module

Climate Action Management Primer

What is the Climate Action Management Primer?

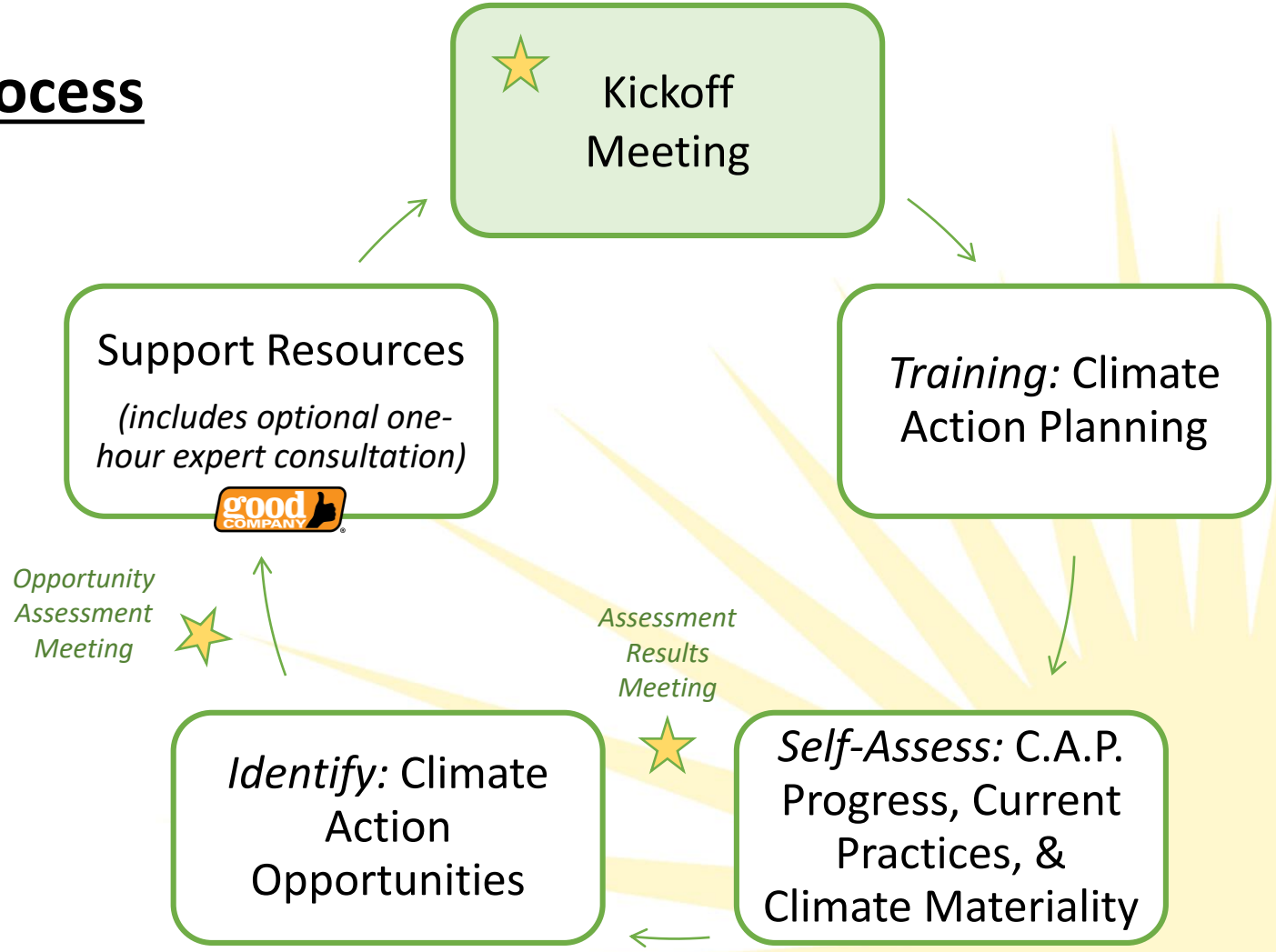
- SFTA Educational and Analytic service module
- Great entry-to-mid level Climate Action Planning tool

Outcomes *

- *Education:* Deeper dive on Climate Action Planning
  - One-hour Good Company instructional
- *CAP Progress Assessment:* Clear map of steps yet to take to complete a full CAP
- *HotSpot Analysis:* Understanding of highest climate-impact areas
  - Includes product hotspot map and customized materiality assessment for value chain
- *Recommended Climate Actions:* Prioritized actions to address high-impact areas

**** Please note these outcomes do NOT constitute a comprehensive climate action plan***

CAMP Process



About CAMP – **Analytic Service Modules Family**

CAMP
Available in **November** after
Exclusive
SFTA-Member launch!

PLAN YOUR JOURNEY

Materiality Assessment Process (MAP)

Need to identify the central components of your sustainability program?
This tool and your SFTA guide will help to identify what sustainability efforts are most important to your company, and to identify gaps between that and what you are actually doing.

- Identify sustainability priority areas
- Map next steps, identify potential goals and key reporting areas

State of Sustainability (SOS)

Creating a new sustainability report or want to take stock of the sustainability activities in your organization? This tool and your SFTA guide helps you identify the practices, goals, and data your company already has in order to share your progress with customers, C-suite and/or investors.

- Identify existing information
- Build policies, SMART goals, and reporting data specifically for sustainable operations
- Provide recommendations for additional measurements to enhance reports

STAY ON COURSE

Opportunity Analysis and Resource Support (OARS)

Committed to improvement? Now that you are on your way, this annual checkup with your SFTA guide strengthens your sustainability program by analyzing strengths and opportunities.

- Review comparative reports from the SFTA/B Lab impact assessment
- Catalyze additional action via specific feedback and follow-up consultation

Supply Chain Assessment Notification (SCAN)

Want to engage your supply chain in becoming more sustainable?
Assess the sustainability performance of five of your key supply chain partners. The SFTA/B Lab impact assessment is used by your SFTA guide to collect data and identify where your suppliers are excelling or need improvement.

- Compare suppliers with similar operations
- Learn about strengths and opportunities
- Identify resources for supply chain engagement and education

Sustainable Food Trade Association
organic leaders for sustainability

Thank You!

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707.407.5375

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Discussion

Lisa Spicka

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Sustainable Food Trade Association

(SFTA)

Joshua Proudfoot

Principal,

Good Company

CAMP Guide

Lisa Braun

Sustainability Reporting and Analytics Specialist,

Sustainable Food Trade Association

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