

Sustainability Supply Chain Management

Greg Norris

*Adjunct Lecturer on Life Cycle Analysis
Harvard School of Public Health*



Environmental Business Council of New England
Energy Environment Economy

Sustainability Supply Chain Management

Gregory A. Norris

Co-Director, SHINE (Sustainability & Health Initiative for NetPositive Enterprise)
Center for Health and the Global Environment
Harvard School of Public Health



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Three Ideas

- “Scope 3” is Key
- Social is Coming
- NetPositive is Coming



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Footprint Scopes 1, 2, and 3

Scope 1: Your Operations

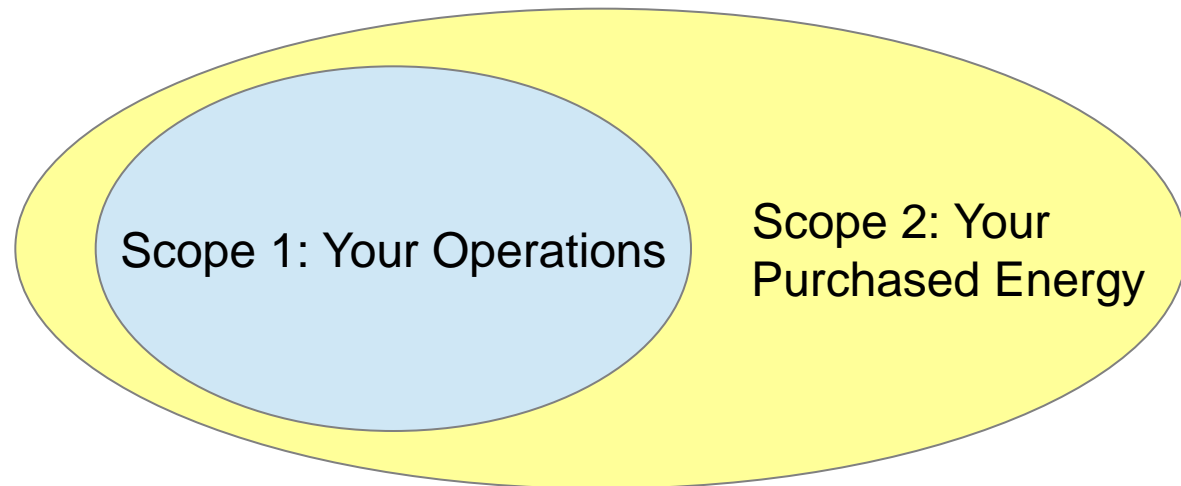


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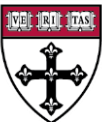


Footprint Scopes 1, 2, and 3

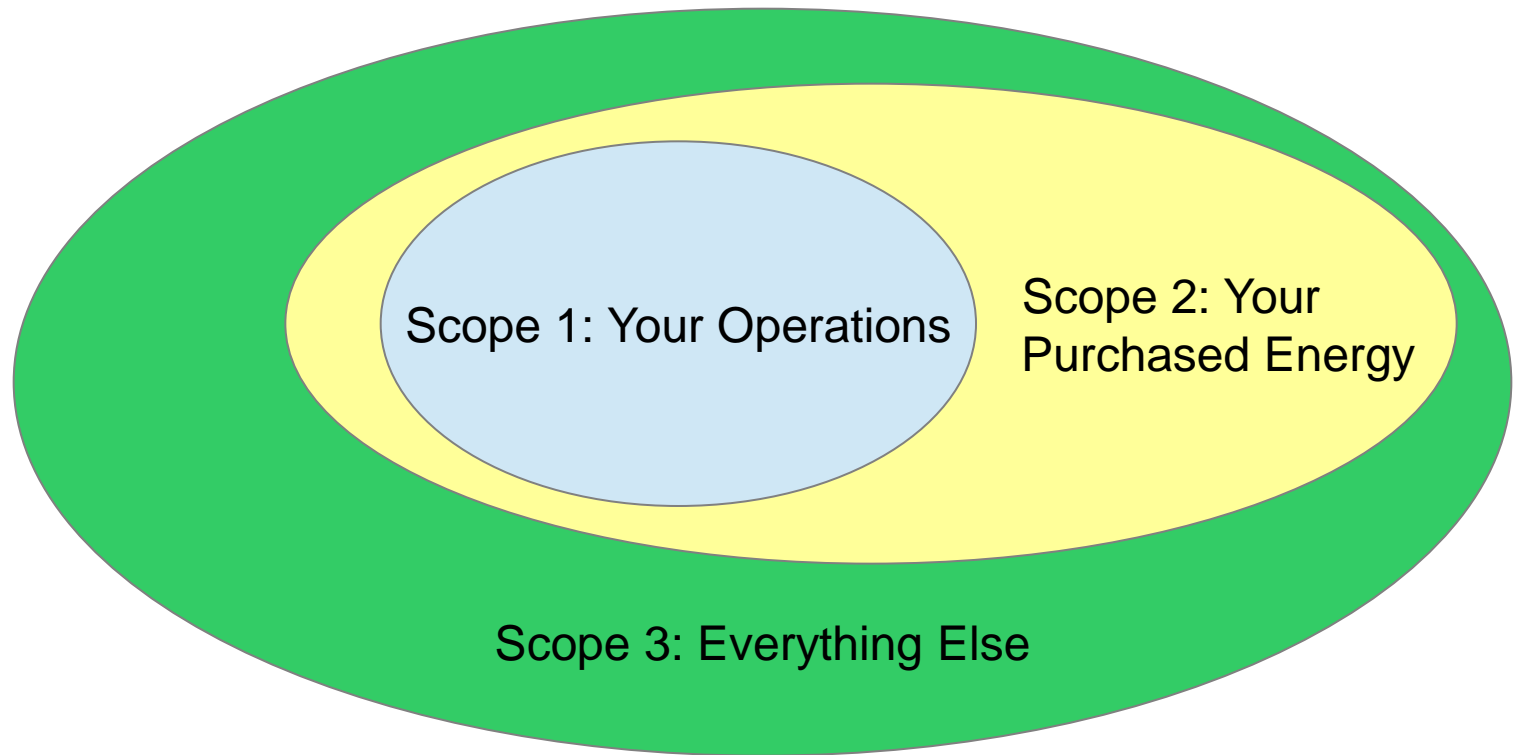


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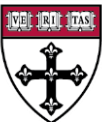


Footprint Scopes 1, 2, and 3



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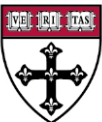
Standards

- Life Cycle Assessment
 - **ISO 14040, 14044**
- Corporate & Product Carbon Footprinting
 - **WRI / WBCSD**
- Water Footprinting
 - **Multiple; ISO on the way**
- “Environmental Footprint”
 - **European Commission just issued draft method, now being tested/piloted**

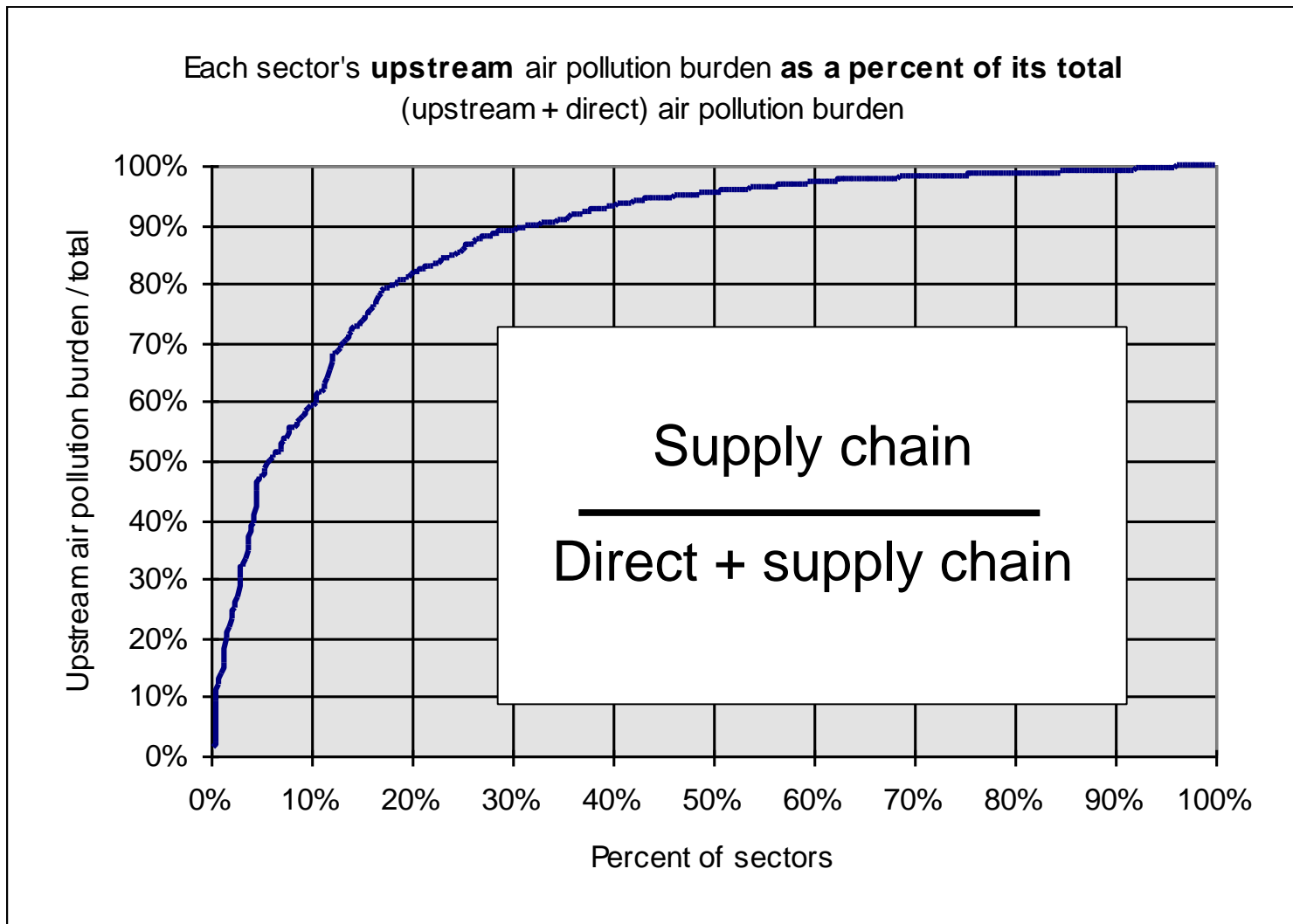


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A New 80/20 Rule: Supply Chains Dominate



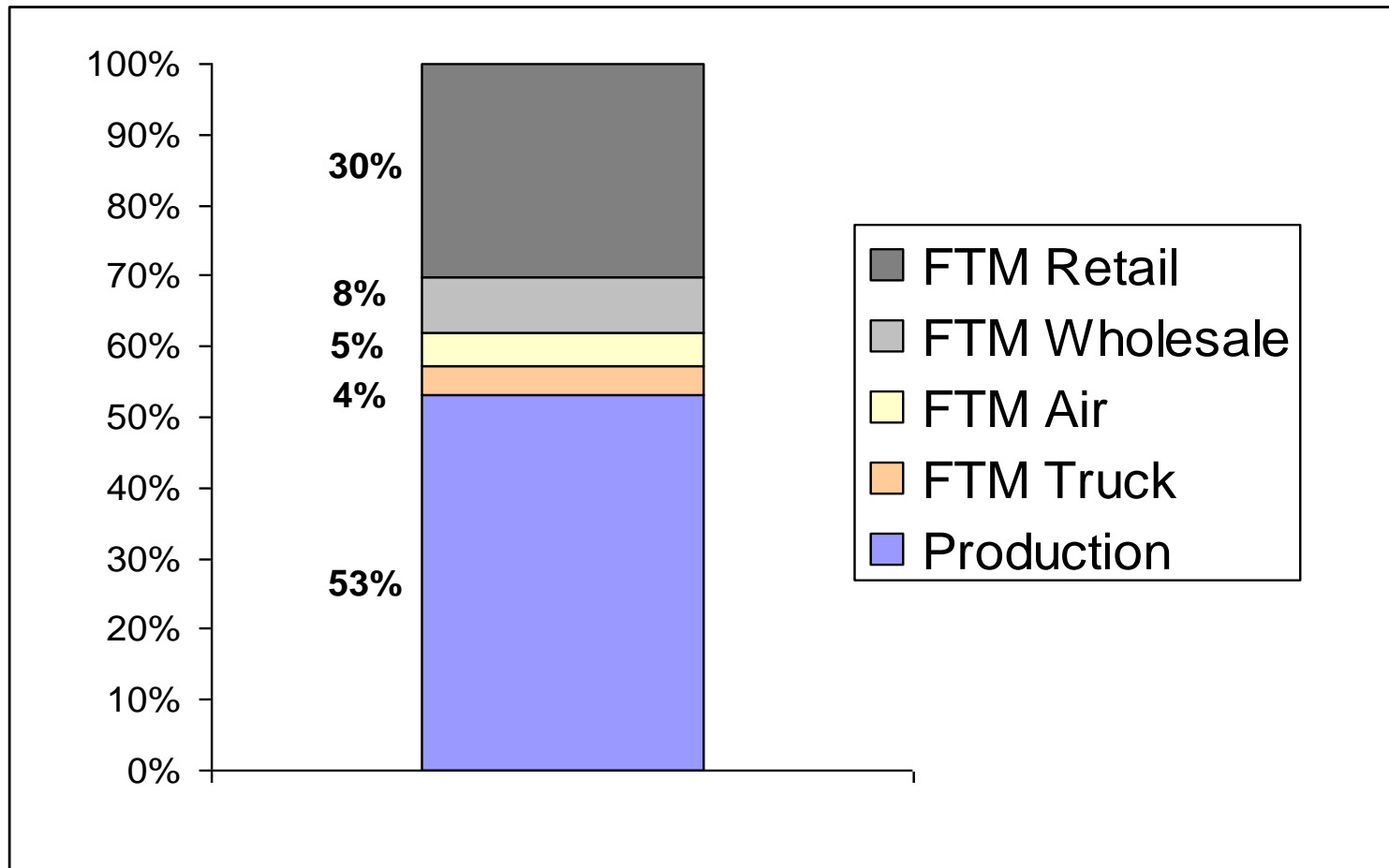
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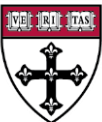
Distribution (“factory through mall”) can be huge

GWP Results for average computers; data: late 1990s

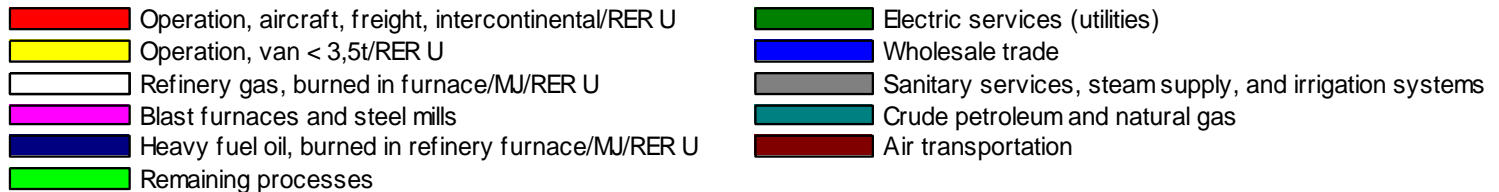
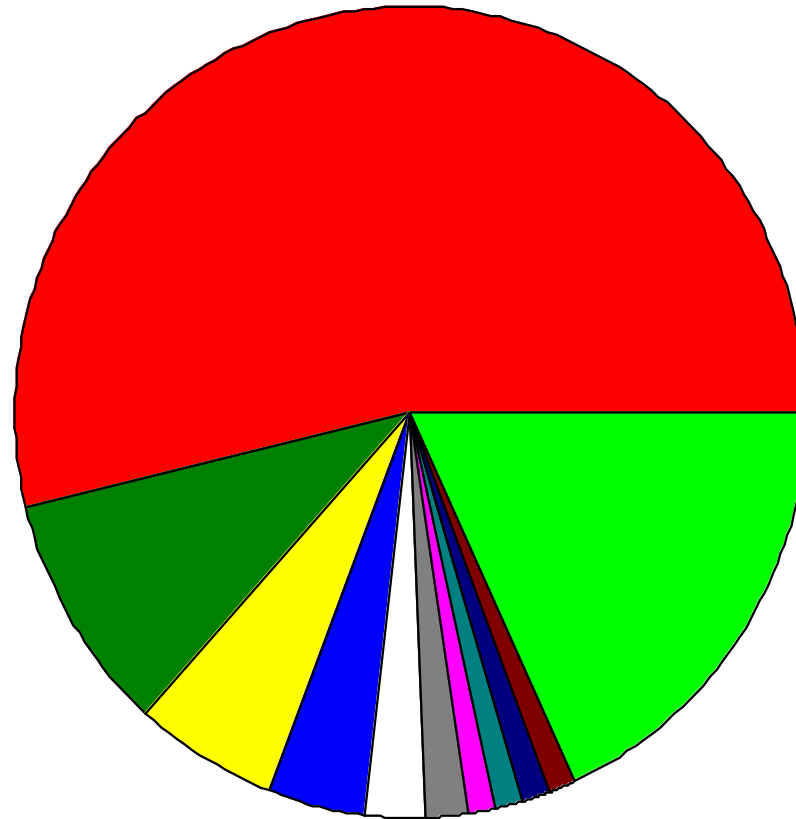


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Carbon Footprint of an On-Demand Laptop



Analyzing 1 p assembly 'DELL at Cust (van)'; Method: Eco-indicator 99 (H) V2.1 / Europe EI 99 H/H/ characterization



Importance of Distribution Varies by Product Category

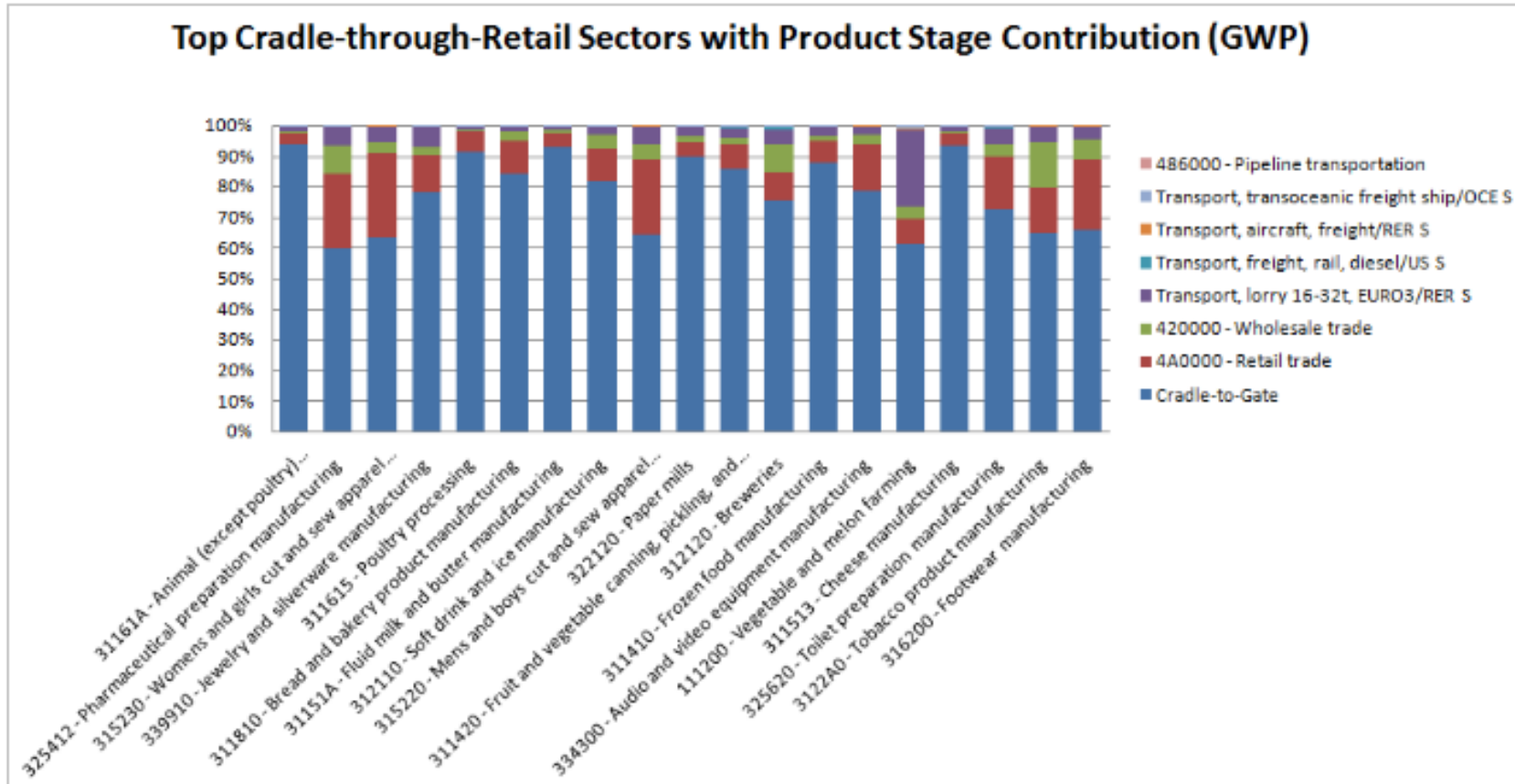


FIGURE 3: TOP C2C SECTORS WITH PRODUCT STAGE CONTRIBUTION

Data: 2002. Prioritization analysis for Walmart



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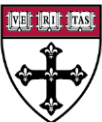
Use Phase Can be Huge

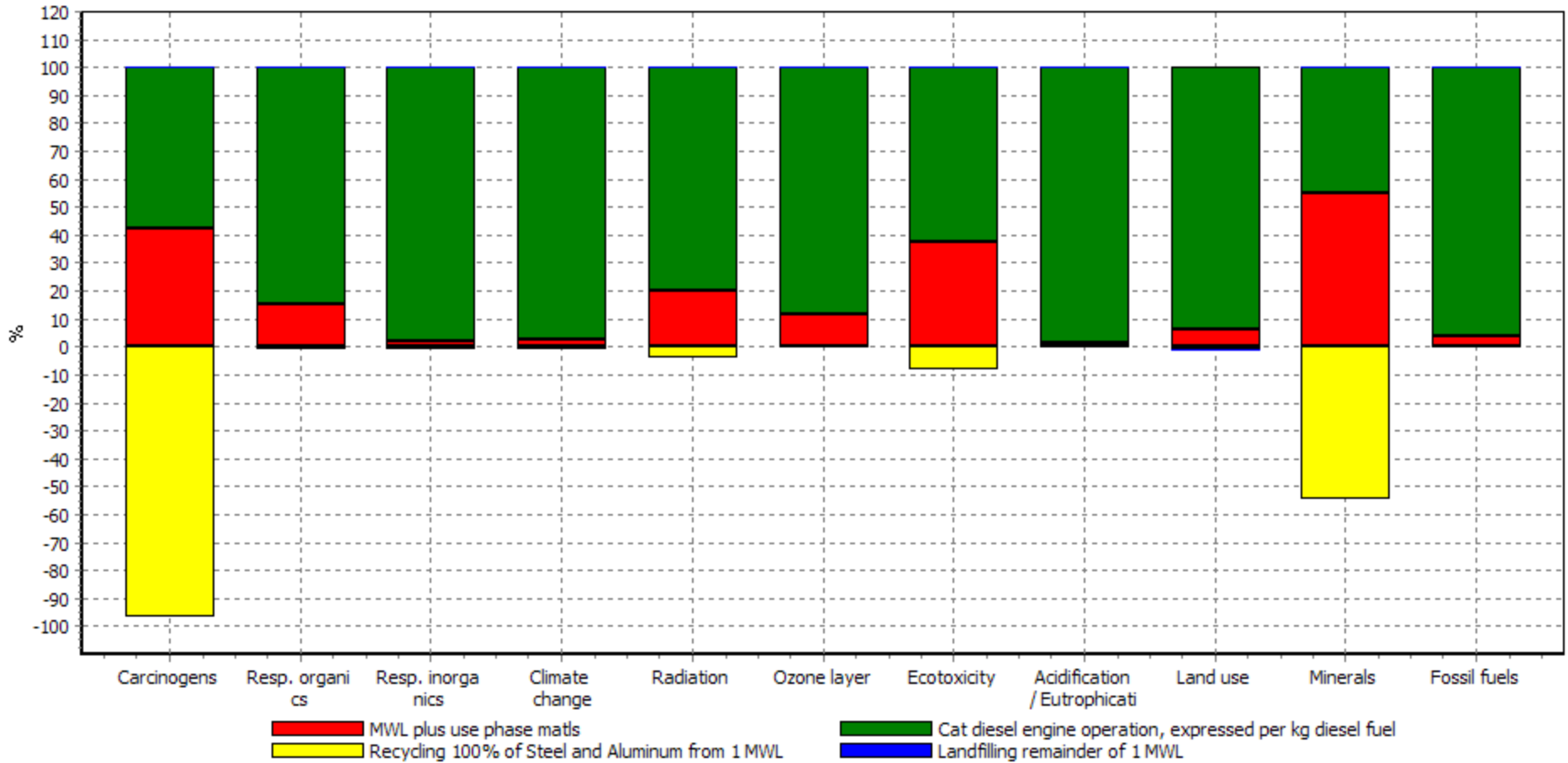
- Energy use:
 - Buildings
 - Appliances
 - Food: cooking, clean-up
 - Clothes: washing and drying
- Material use:
 - Cosmetics, cleaners: Indoor emissions
 - Printers: paper



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Analyzing 1 p life cycle '8.3 Years Life'; Method: Eco-indicator 99 (H) V2.1 / Europe EI 99 H/H / characterization

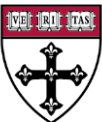
More surprises...

- Service Sector Inputs can be huge
- Guess what else can be huge? (Pharma example)
- Guess what can be not huge? (Potato example)



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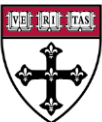
Bottom-Line Messages

- Learn from actual data, for actual situation
 - **Scoping Assessments are fast and efficient**
- Identify “Hot Spots” – activities responsible for large share of the impact
 - **There are Always hot spots**
- Check if uncertainties make conclusions uncertain
- Iteratively refine where necessary
- Derive message and conclusions → **Act and Report**



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Three Ideas

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Social LCA, Social Risks and Opportunities

- More and more customers, including governments, are asking about social sustainability (even EPA!)
- It started with Scope 1, then first tier suppliers
- “Scope 3” will be Key again
- The work you do to assess Environmental Footprint pays Social Dividends

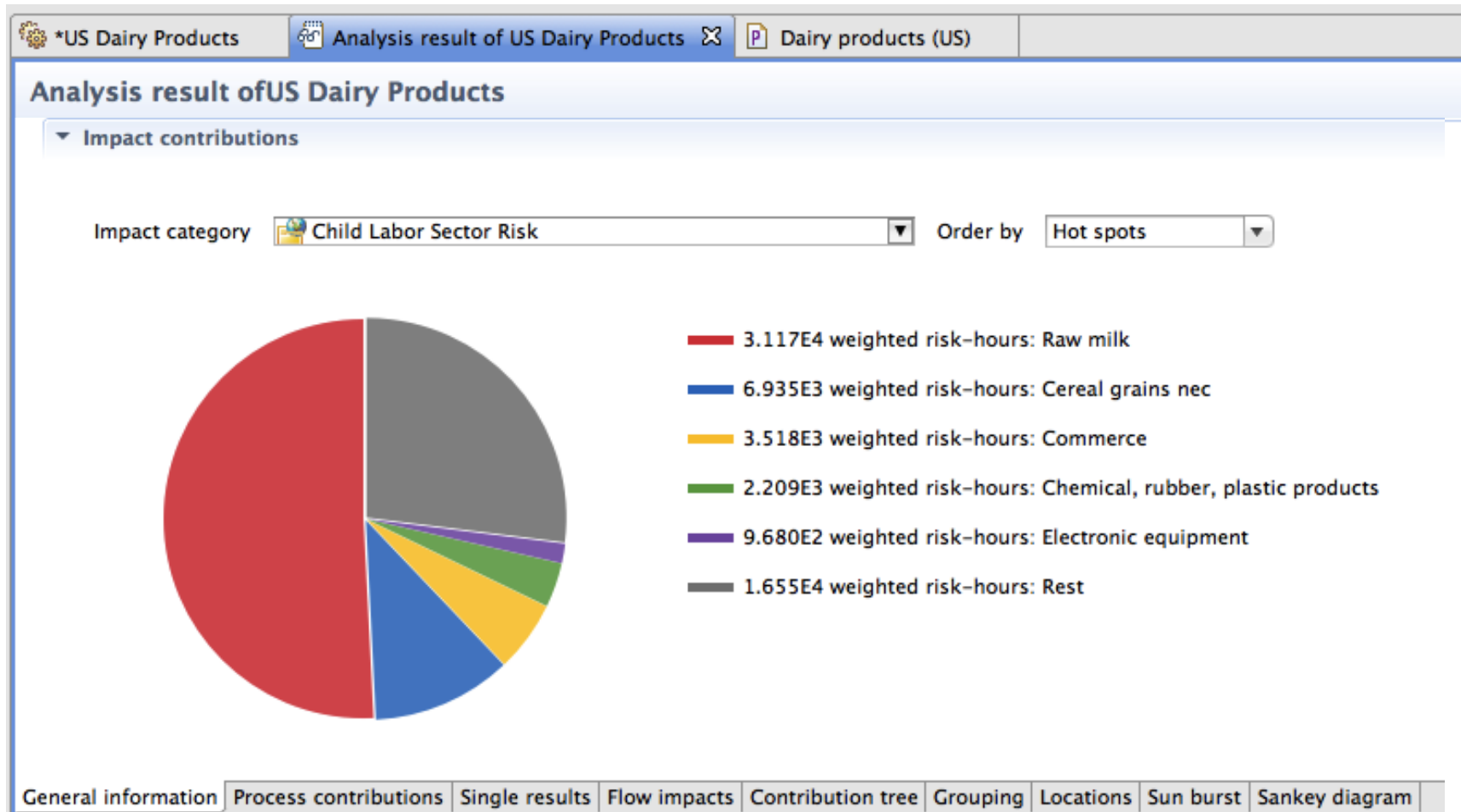


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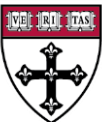


Social LCA, Social Risks and Opportunities

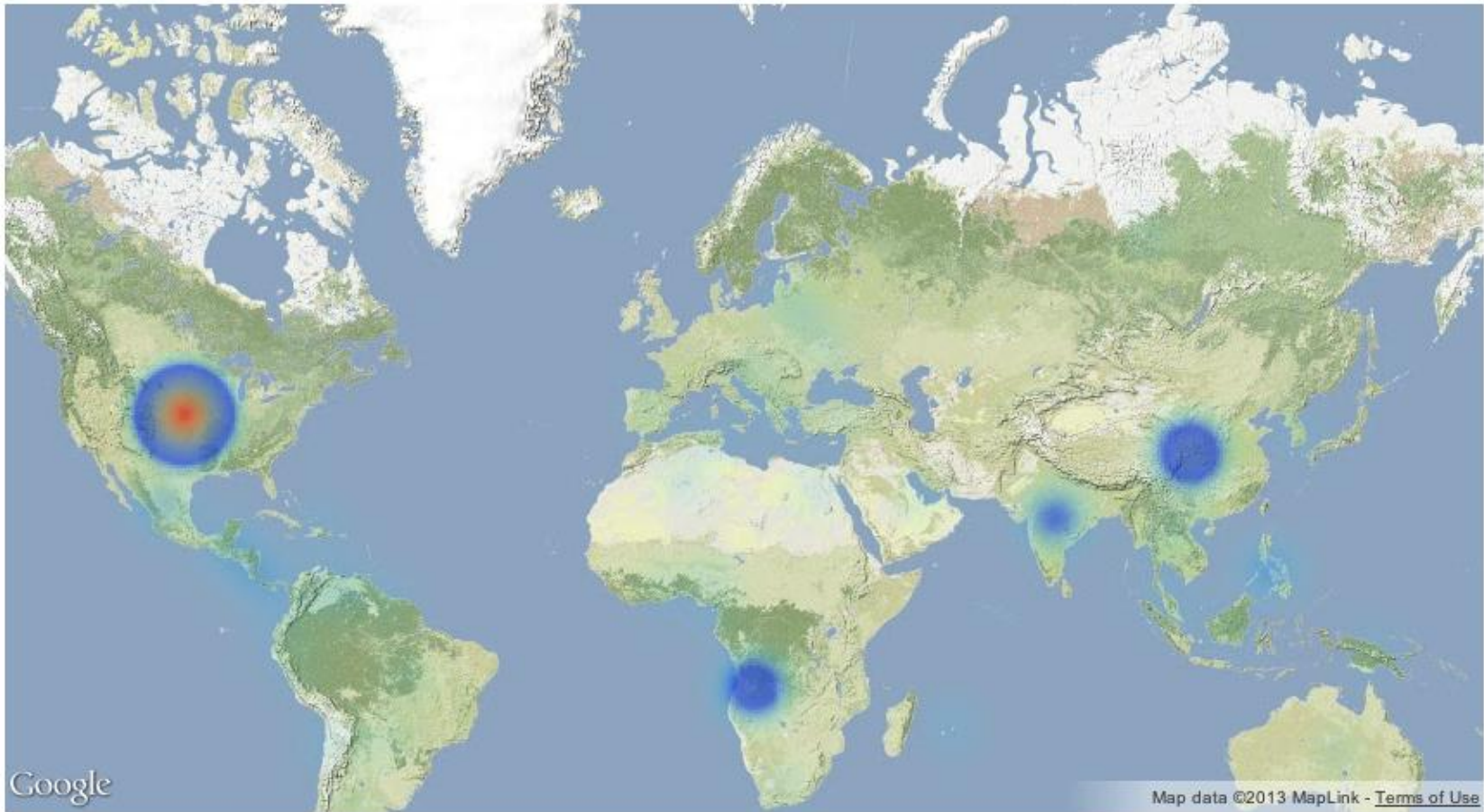


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Social LCA, Social Risks and Opportunities

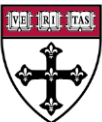


General information | Process contributions | Single results | Flow impacts | Contribution tree | Grouping | **Locations** | Sun burst | Sankey diagram

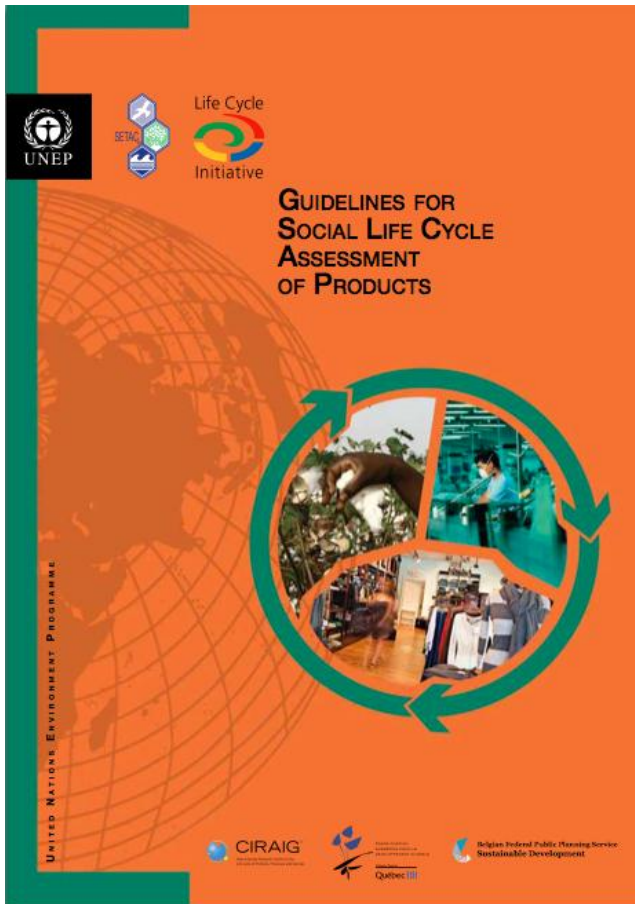


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Social LCA: Guidelines and Resources



socialhotspot.org

social hotspots database

HOME USER PORTAL SERVICES LICENSES ABOUT SHDB PUBLICATIONS

Identifying the Social Theme Contributing to the Most Risk within an Impact Category

Country: Albania
Sector: *Country Level
Theme: Gender Equity
Characterized Result (Ave of all indicators in theme): 2.513
SHI-not weighted: 71.43

✓ Keep Only ✕ Exclude

Social Theme

- Gender Equity
- High Conflict Zones
- Human Health - Communicable D.
- Human Health - Non-communicable
- Indigenous Rights

Aggregated Social Hotspot Index

- 0.00
- 100.00
- 200.00
- 300.00
- 376.05



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Footprints are only half of the story



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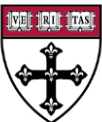


Net-Positive: Handprint > Footprint



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Discussion

Thank You!



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