Achieving Scope 3 targets The Role of Supplier-Specific Carbon Footprint Data in Chemicals and Plastics Value Chains

Dr. Arne Kätelhön Managing Director & Co-Founder Mara Boitz Global Account Manager



carbon**minds**

Taking net-zero chemical value chains from ambition to achievement



cm

¹ CDP (2024); CDP Technical Note: Relevance of Scope 3 Categories by Sector

Scope 1 & 2

cm

¹ CDP (2024); CDP Technical Note: Relevance of Scope 3 Categories by Sector



24% Scope 1 & 2

cm

¹ CDP (2024); CDP Technical Note: Relevance of Scope 3 Categories by Sector

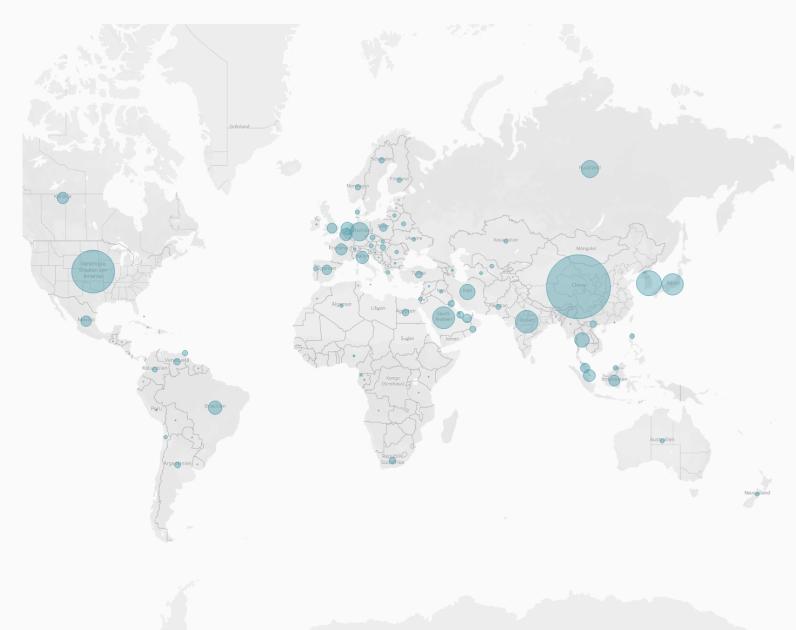
24% Scope 1 & 2

76% Scope 3

Data availability is a key challenge challenge in Scope 3 reporting²

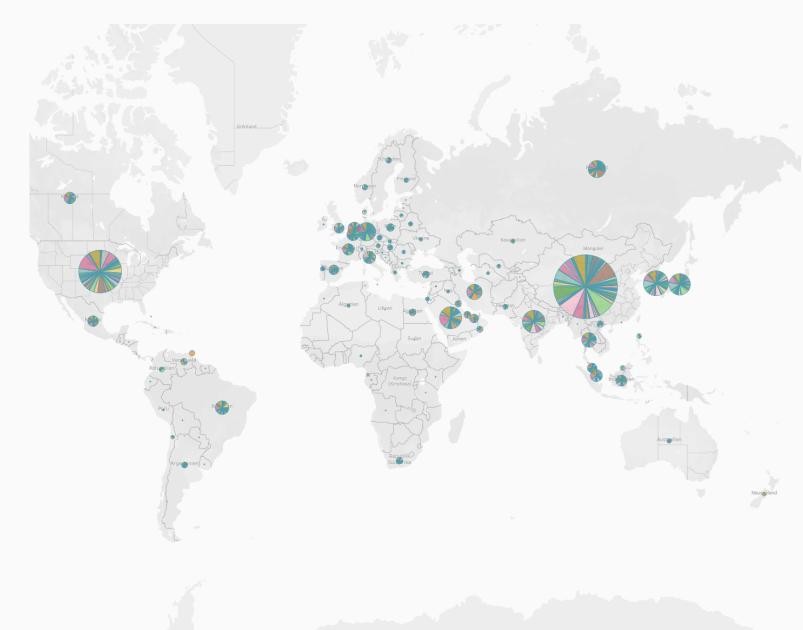
carbon**minds**





Production locations and volumes of chemicals

Technologies used and process parameters

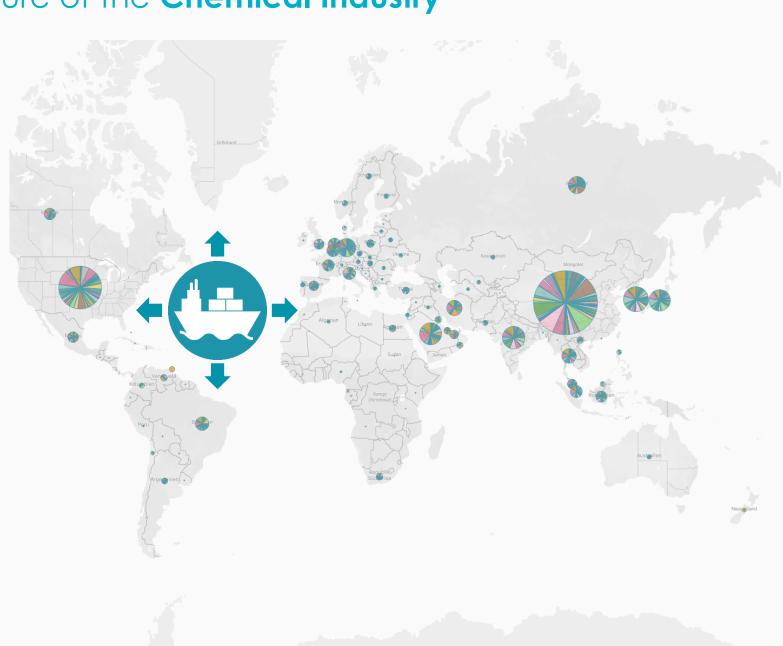


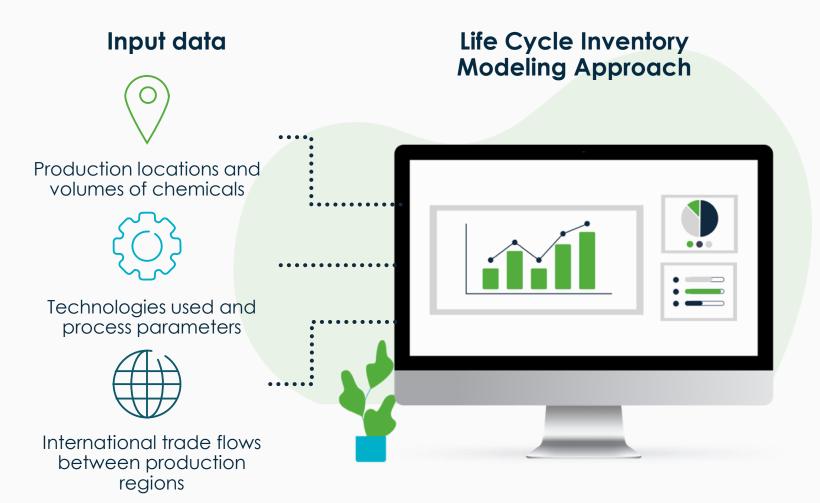
Production locations and volumes of chemicals



Technologies used and process parameters







carbon**minds**





Further details see Carbon Minds methodology document: https://www.carbon-minds.com/cm-chemicals-methodology.pdf

carbon**minds**

Carbon Footprint & LCA Data

Coverage

130,000+ datasets covering 1,300+ chemicals and plastics

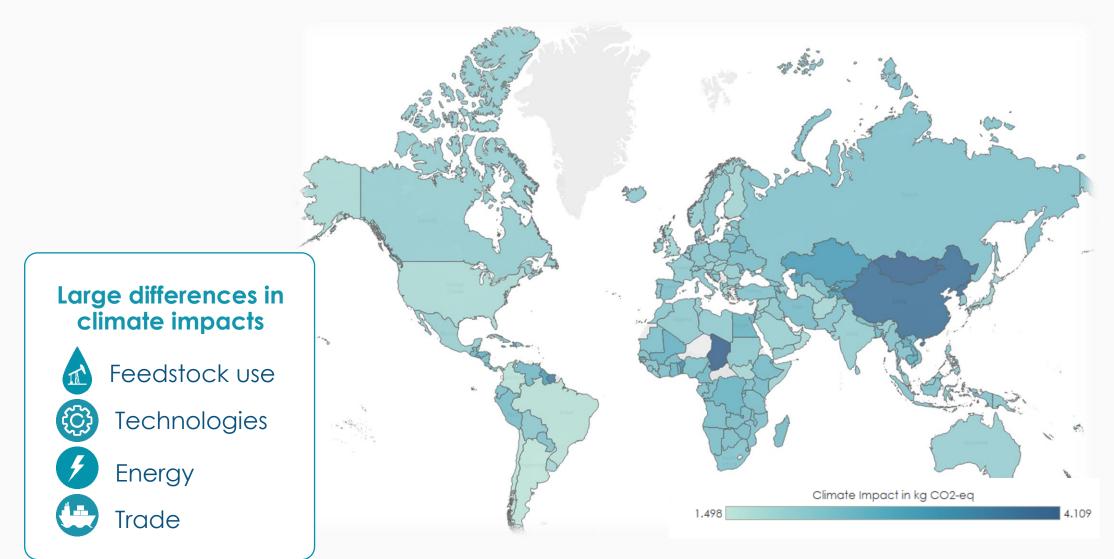
Specific 200+ regions, various technologies, and individual suppliers

Compliant

Methodology in compliance with ISO 14040/14044/14067, TfS and UEIL/ATIEL

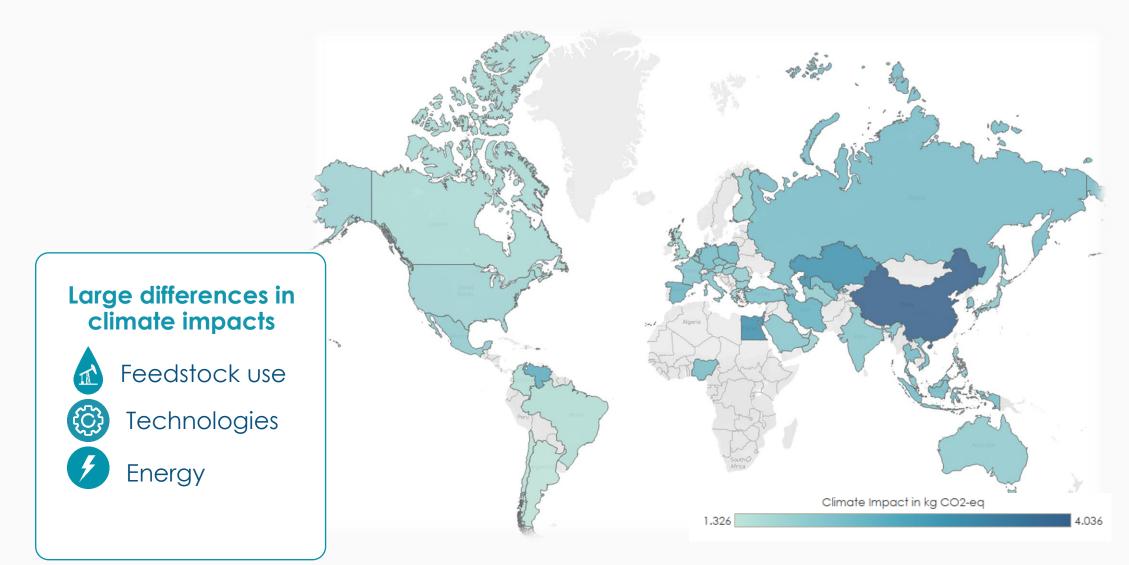
Consumption mixes: domestic production plus imports

Example: Polypropylene (PP)



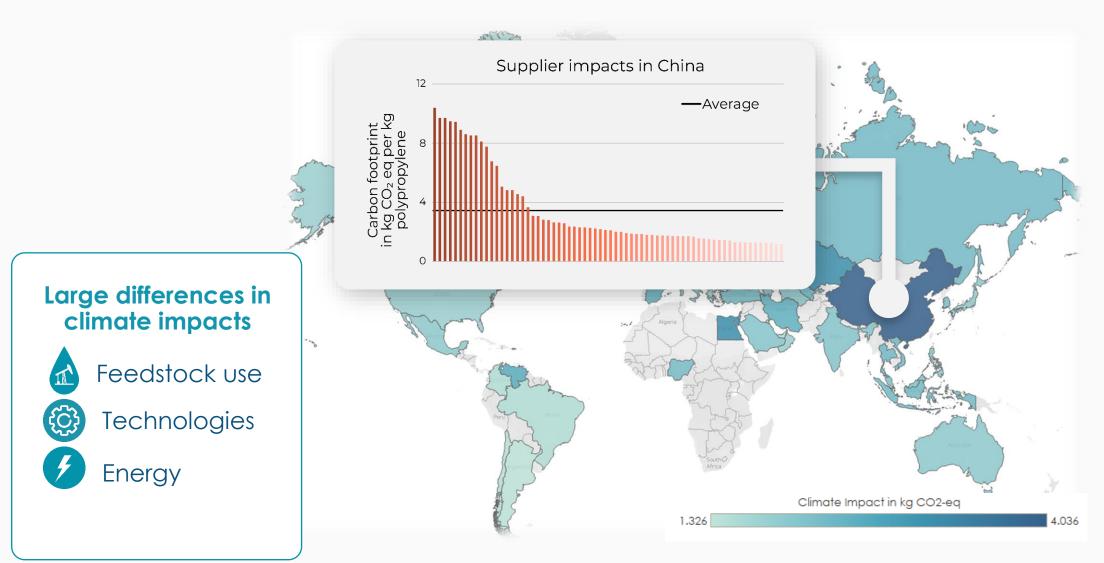
Production mixes: domestic production only

Example: Polypropylene (PP)

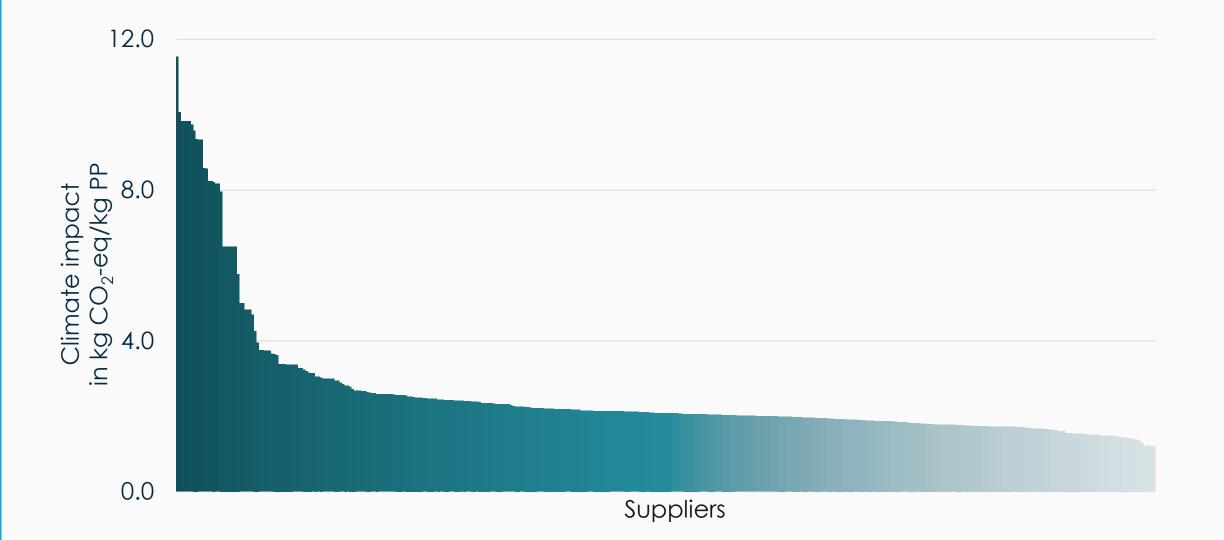


Production mixes: domestic production only

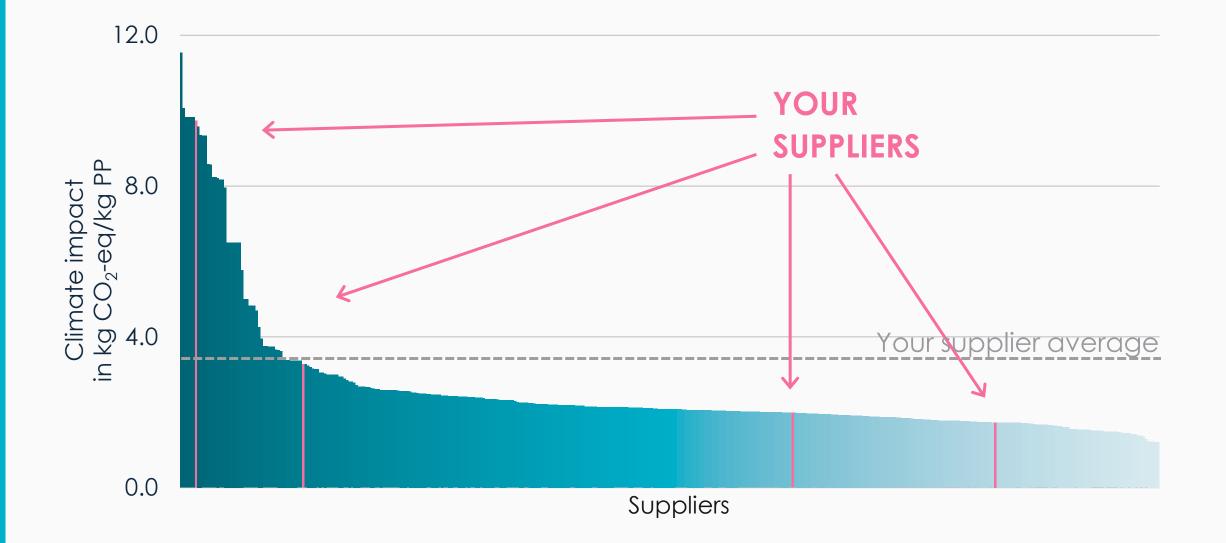
Example: Polypropylene (PP)



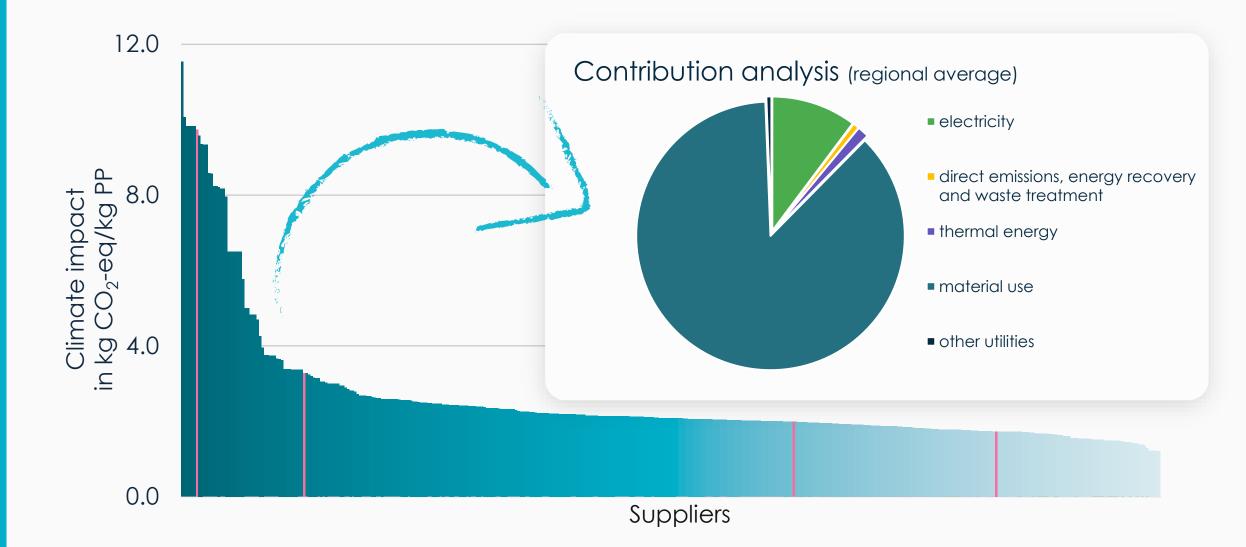
Differences in Climate Impacts based on Production Technologies



Account for your own supply chain emissions for your PCFs

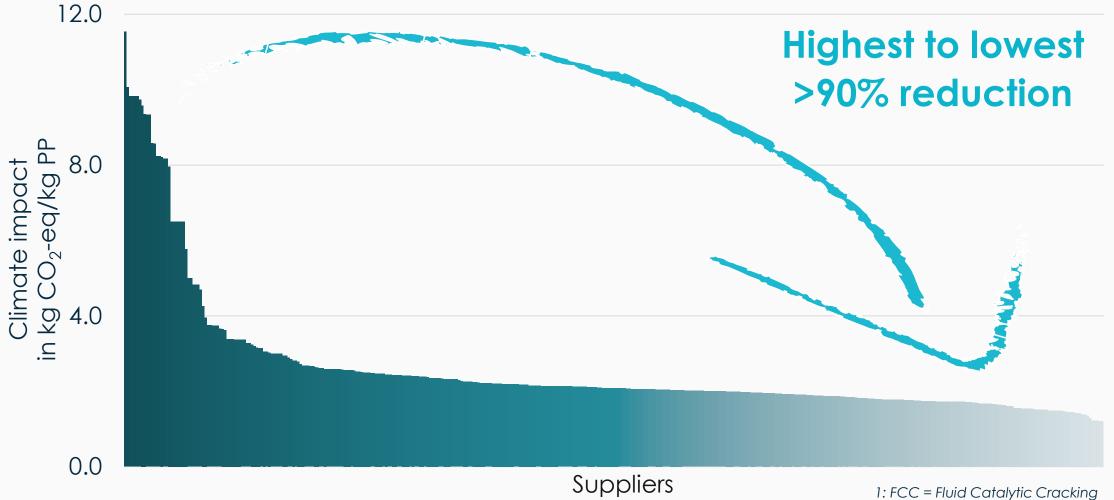


Engage with your suppliers based on solid data



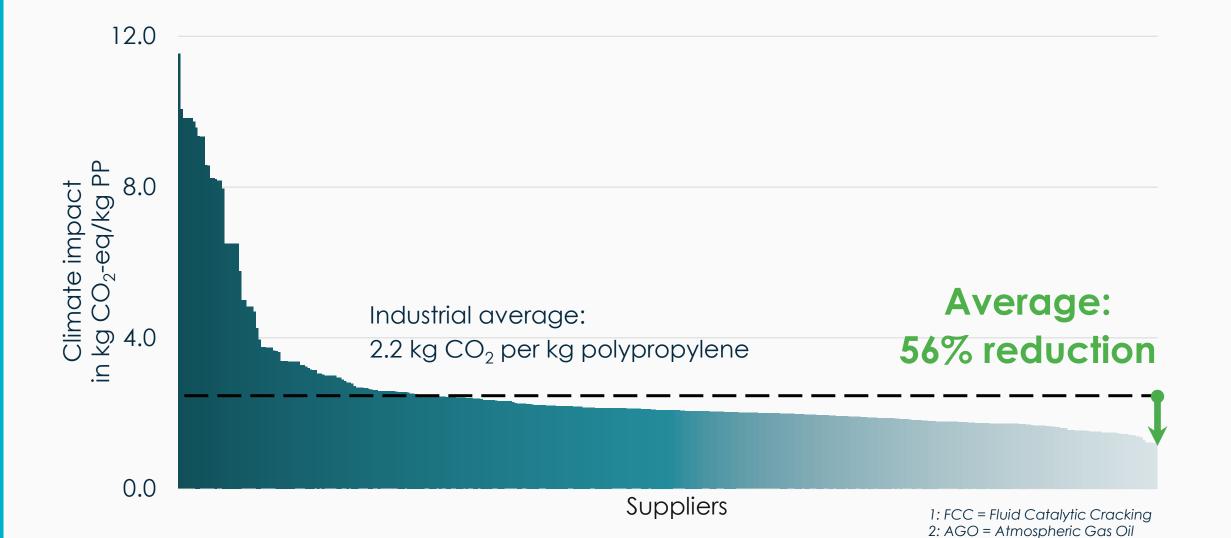
Reduce emissions though purchasing decisions

Example: Polypropylene (PP) production

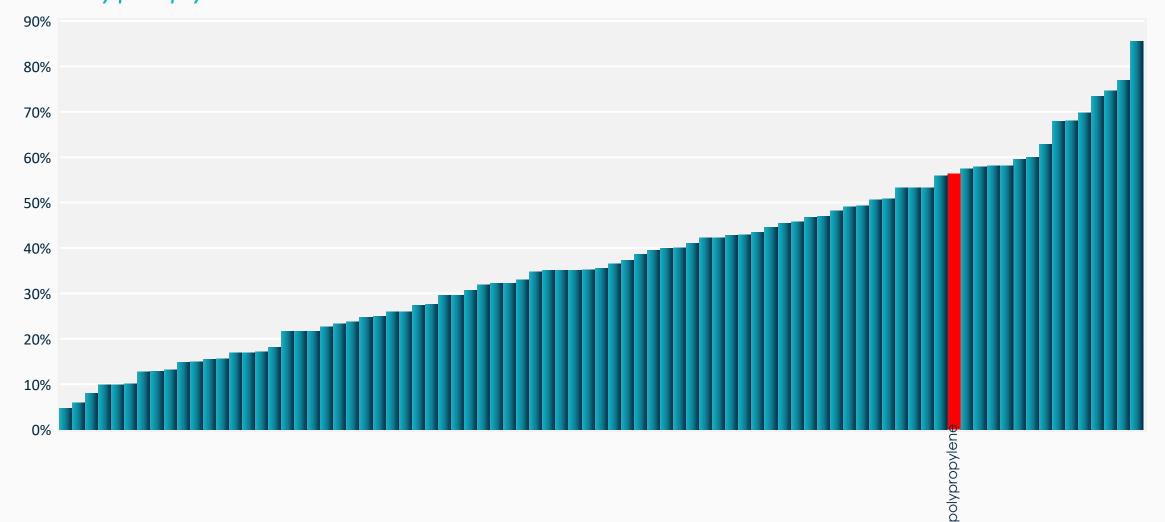


2: AGO = Atmospheric Gas Oil

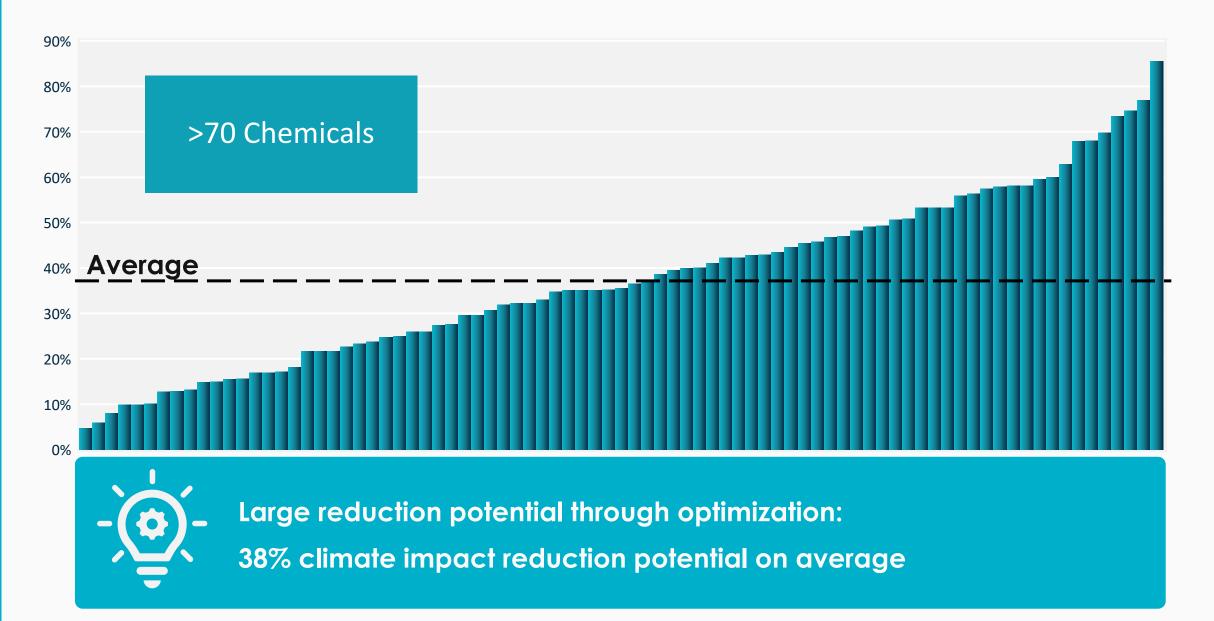
Reduce emissions though purchasing decisions



Average Climate Impact Reduction: Polypropylene



Average Climate Impact Reduction:



Carbon Minds data suite for Scope 3.1

∽ ∽cm.chemicals

- PCF and LCA data for chemicals and plastics
- 100,000+ datasets covering 1300 chemicals in up to 200 production regions
- Country averages for production, consumption & technologies, as well as contribution analyses

Supplier Footprint Analytics

- Supplier-specific PCF and LCA data
- Covers nearly all suppliers for 72 commodities in all production regions

New

• Benchmarking and contribution analysis

- o Implementation: Automated matching services for large product portfolios
- Closing data gaps though detailed modelling & proxy suggestion engine
- Consulting & training: Net zero pathways, PCFs, LCAs and capacity building

Summary

PCFs for Scope 3 targets

Quantify your supply chain emissions

Benchmark and engage with your suppliers

The role of supplier-specific

Identify emission reduction opportunities

Systematically reduce your supply chain emissions

230

228

229

Thank you!

Mara Boitz

E-Mail:	mara.boitz@carbon-minds.com
Web:	www.carbon-minds.com

Stay in touch:



linkedin.com/in/mara-boitz linkedin.com/company/carbon-minds

