IBM Envizi ESG Suite

Scope 3 Solution Overview



Organizations are facing increasing pressure to disclose Scope 3 emissions performance



Investor disclosures

- TCFD & CDP



Regulatory disclosures

- CSRD & SEC (proposed)





ESG disclosures





- Science Based Targets

Software can help by providing

Broad Scope 3 coverage – across categories and calculation methods

Investor-grade scope 3 accounting – auditable and GHG protocol compliant

Granular data capture and management – to support benchmarking and performance reporting

ESG Frameworks increasingly demanding Scope 3 disclosures



Procurement Policies

Disclosure 305-3 Other indirect (Scope 3) GHG emissions

Disclosure 305-4 GHG emissions intensity

Disclosure 305-5 Reduction of GHG emissions

Products ad Services - Use Phase



Climate Change and Supply Chain Modules- Scope 3

Weights across all 15 categories individually

Targets



TCFD- Supply chain risks and impacts

Reduce Supplier GHG Emissions

Carbon Neutrality Goals



SEC

Scope 3 reporting required when deemed material to investors OR when the company has emissions targets that encompass Scope 3 emissions



EU CSRD

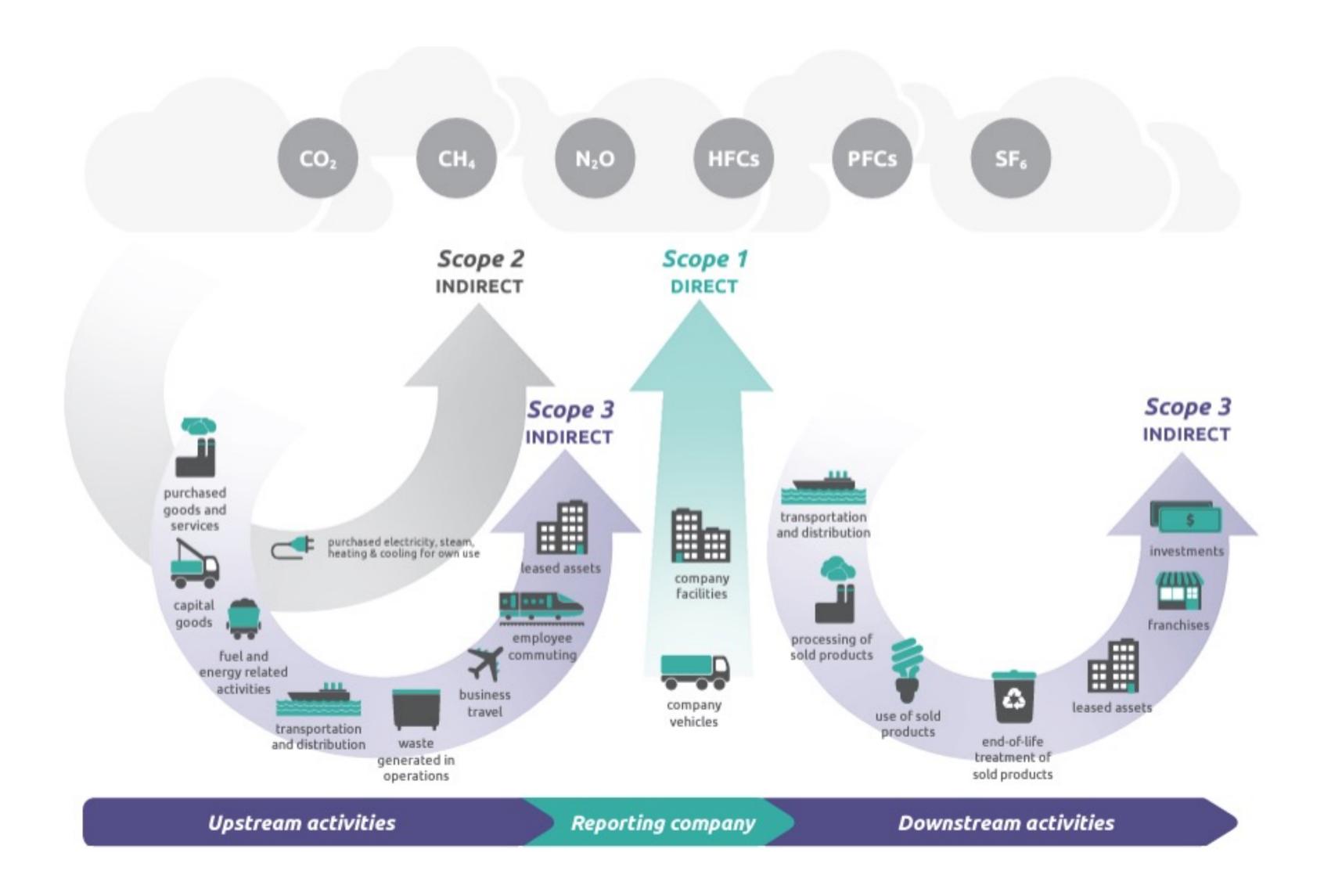
Scope 3 reporting required (ESRS E1-9) in these categories:

- (i) upstream purchasing (Cat 1&2)
- (ii) downstream sold products (Cat 11)
- (iii) goods transportation (Cat 4 & 9)
- (iv) travel (Cat 6)
- (v) financial investments. (Cat 15)

Targets required for Scope 1,2 and 3 in accordance with limiting global warming to 1.5C

Importance of Scope 3

For most companies Scope 3 emissions represent >70% of overall CO2 footprint across 15 categories



Scope 3 Categories managed for performance by:

Procurement teams:

- 1. Purchased Goods & Services
- 2. Capital Goods
- 3. Fuel & Energy (outside of Scope 1&2)
- 4. Upstream Transportation & Distribution
- 6. Business Travel
- 8. Upstream Leased Assets
- 9. Downstream Transportation & Distribution

Operational Teams:

- 5. Waste Generated in Operations
- 7. Employee Commuting
- 14. Franchisees

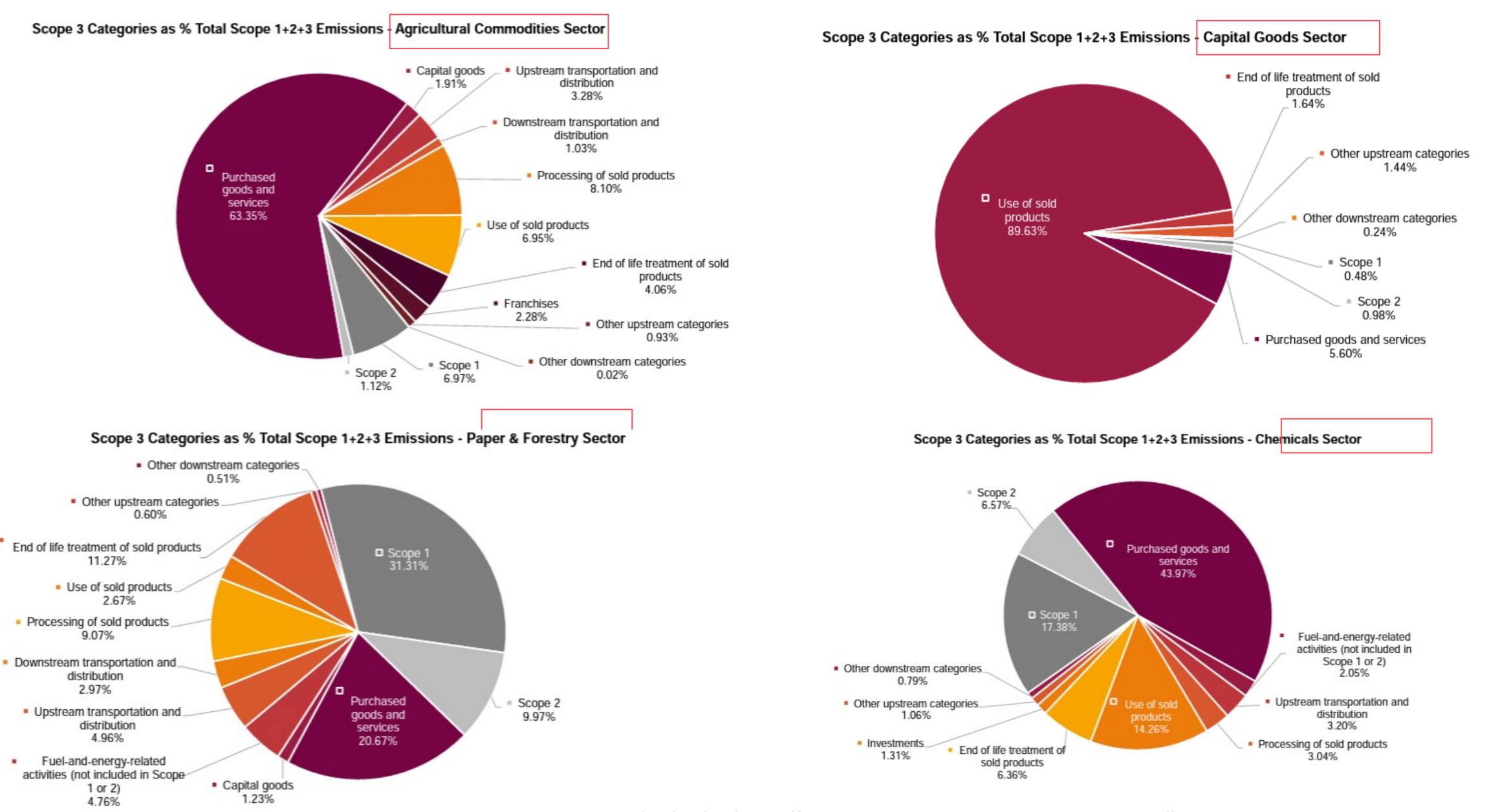
Product Design Teams:

- 10. Processing of Goods Sold
- 11. Use of Goods Sold
- 12. End of Life Treatment of Goods Sold
- 13. Downstream Leased Assets

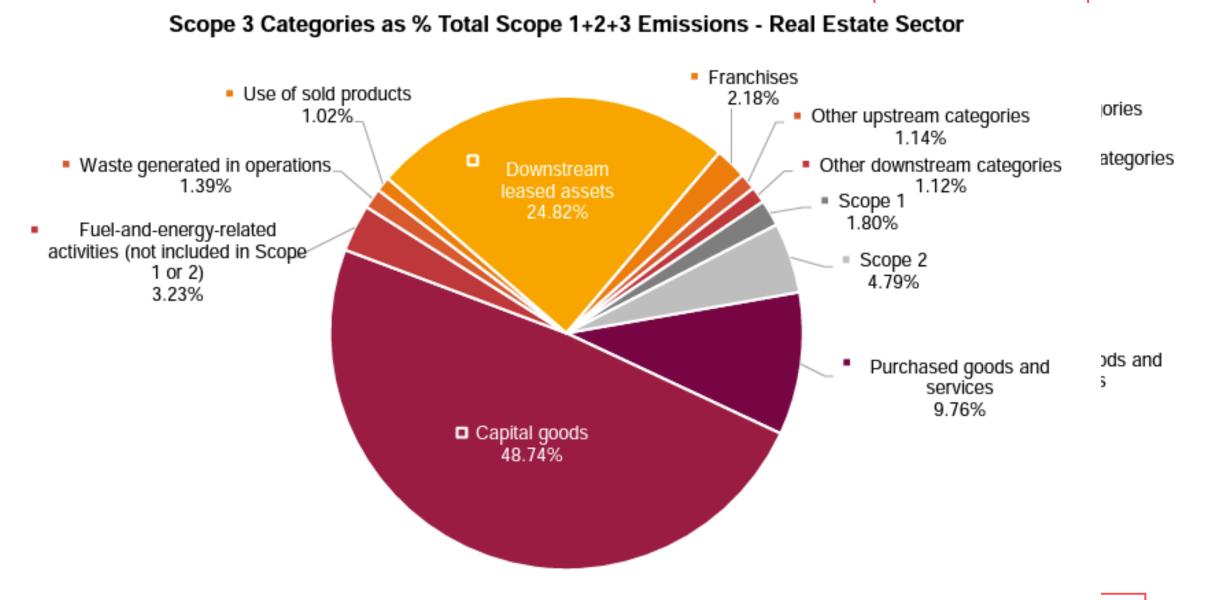
Investment Managers

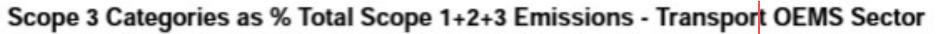
15. Financed Emissions

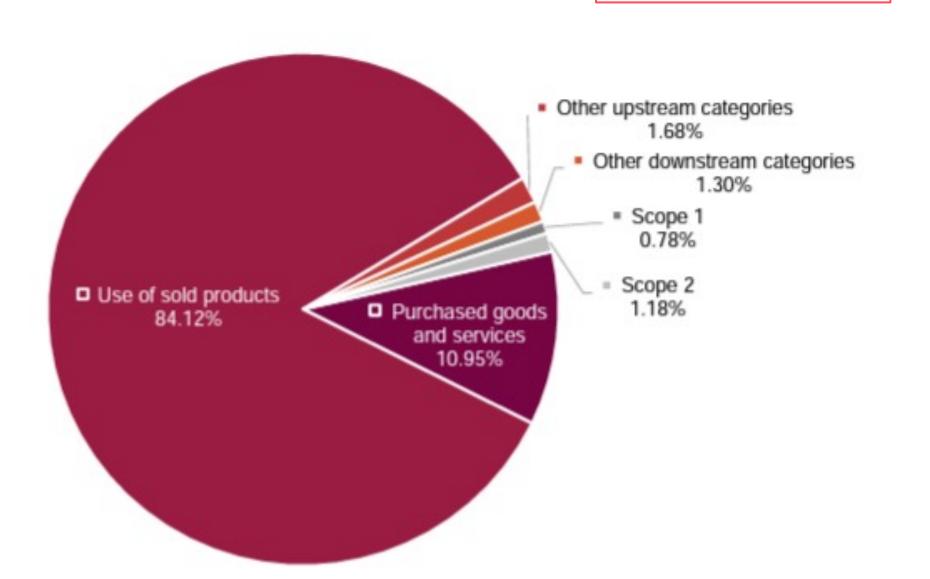
Different scope 3 categories are material and important to different industry segments

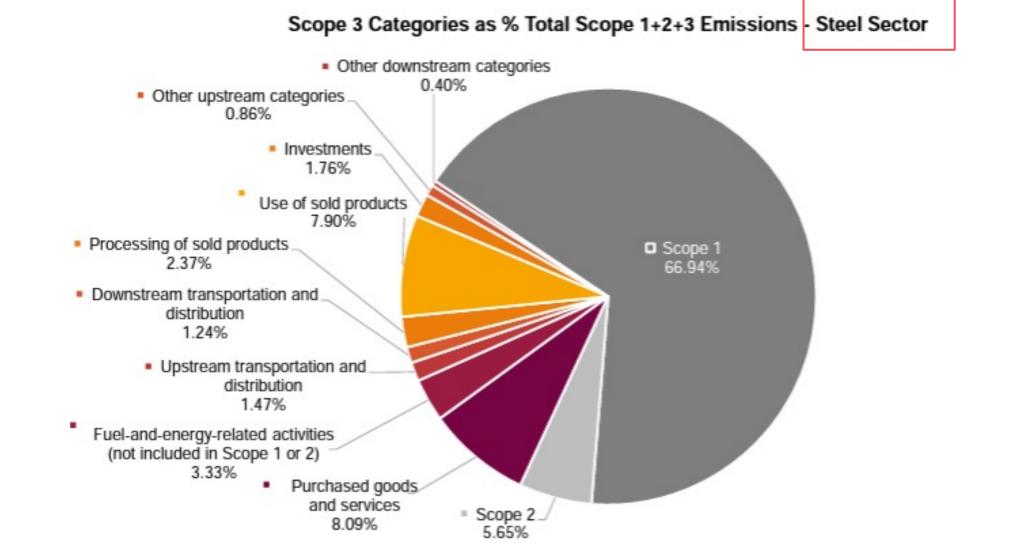


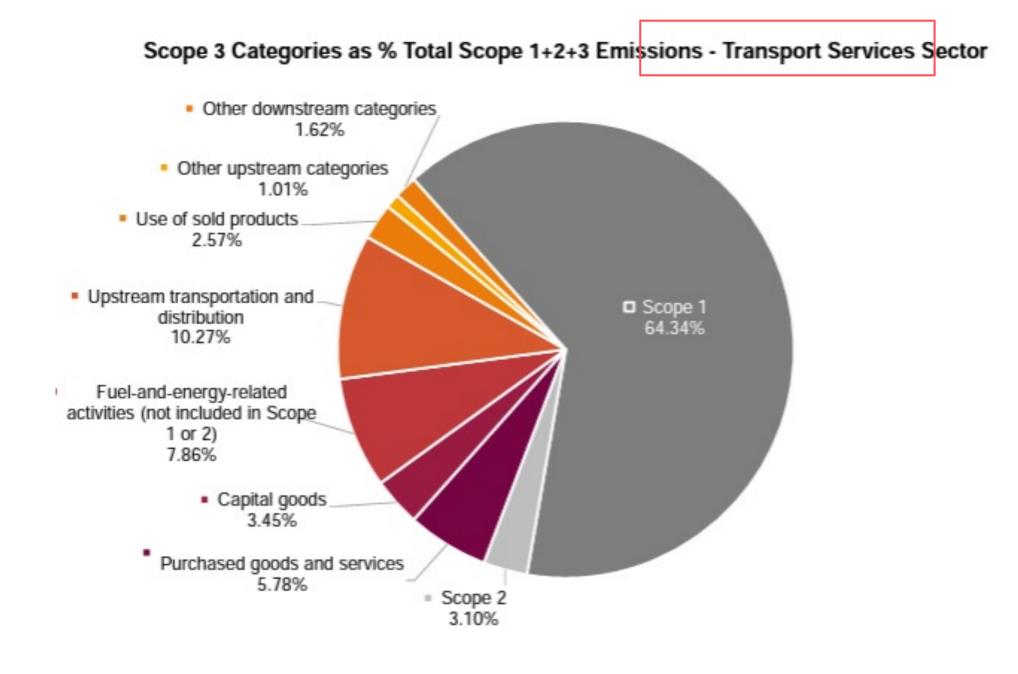
Different scope 3 categories are material and important to different industry segments







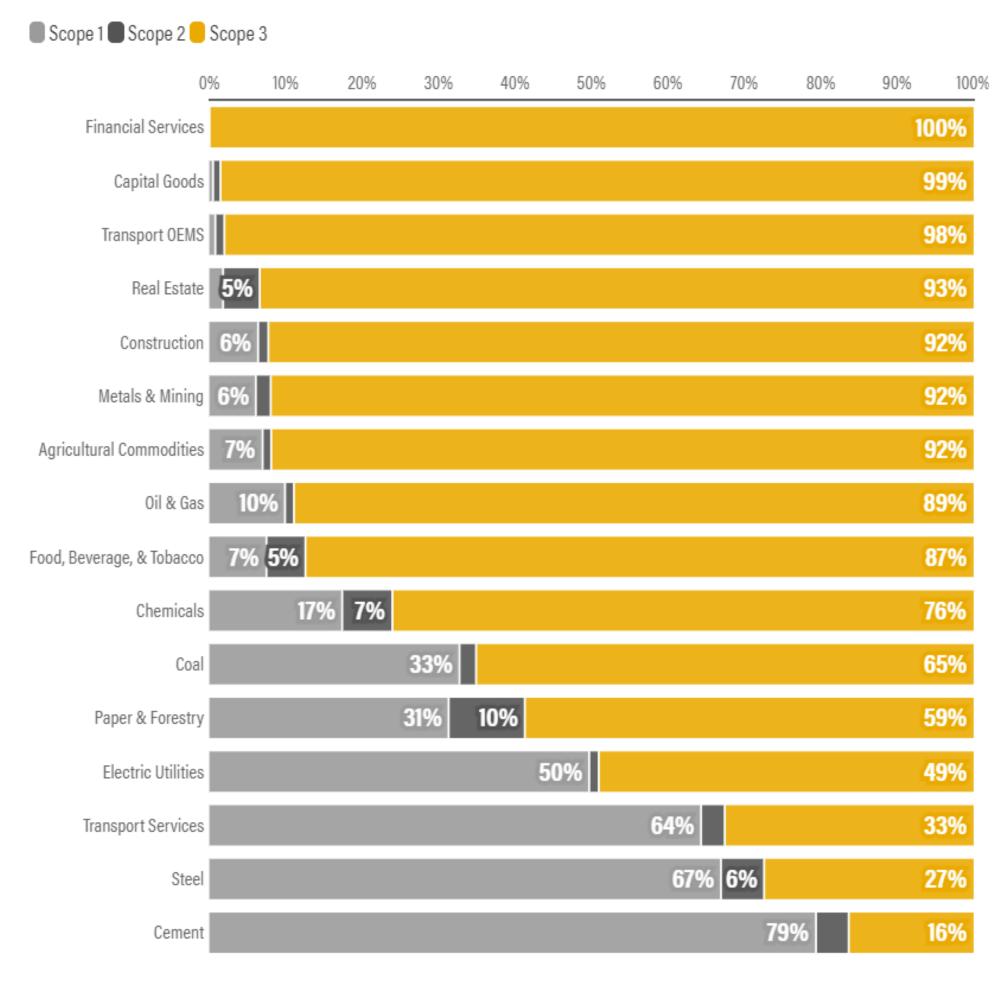




Scope 3 challenges that organizations face

1. Scope 3 data landscape is more complex than Scope 1&2

A bigger data set, with broader set of data types and more difficult to source



Source: Data is from CDP. Research and analysis of the data was conducted by Concordia University.

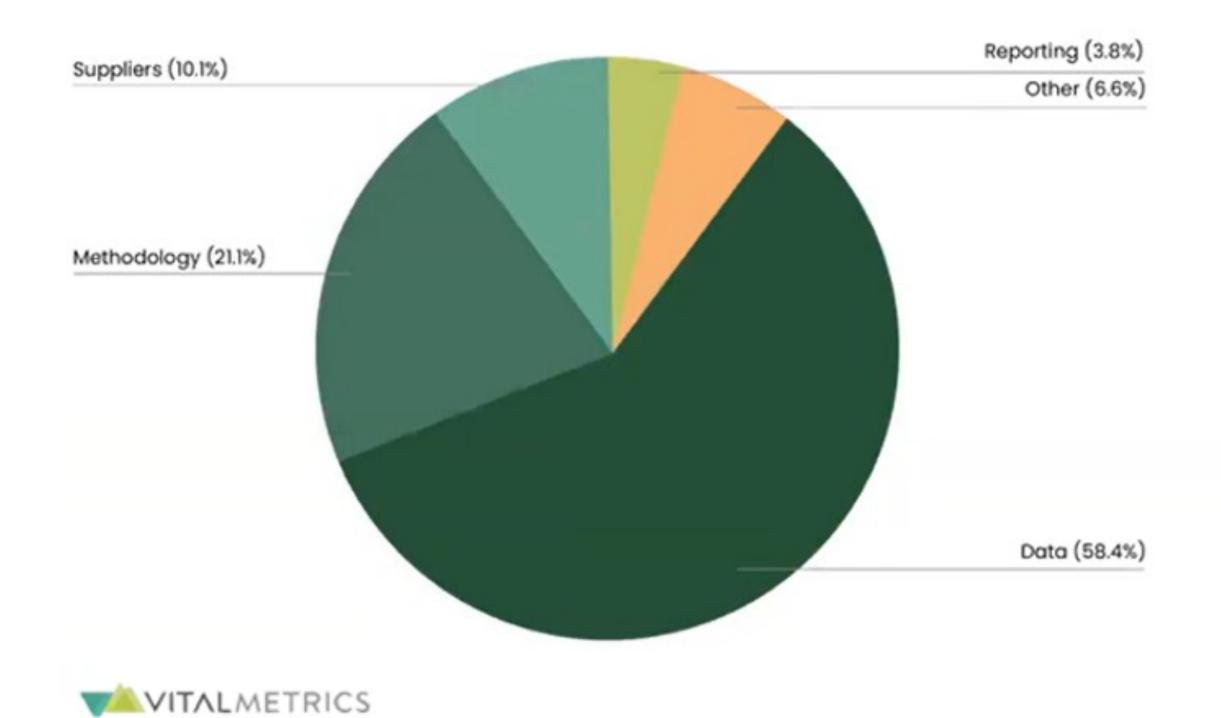


https://www.wri.org/update/trends-show-companies-are-ready-scope-3-reporting-us-climate-disclosure-rule#:~:text=Scope%203%20emissions%20account%20for%2075%25%20of%20companies'%20greenhouse%20gas,quarters%20of%20a%20company's%20emissions

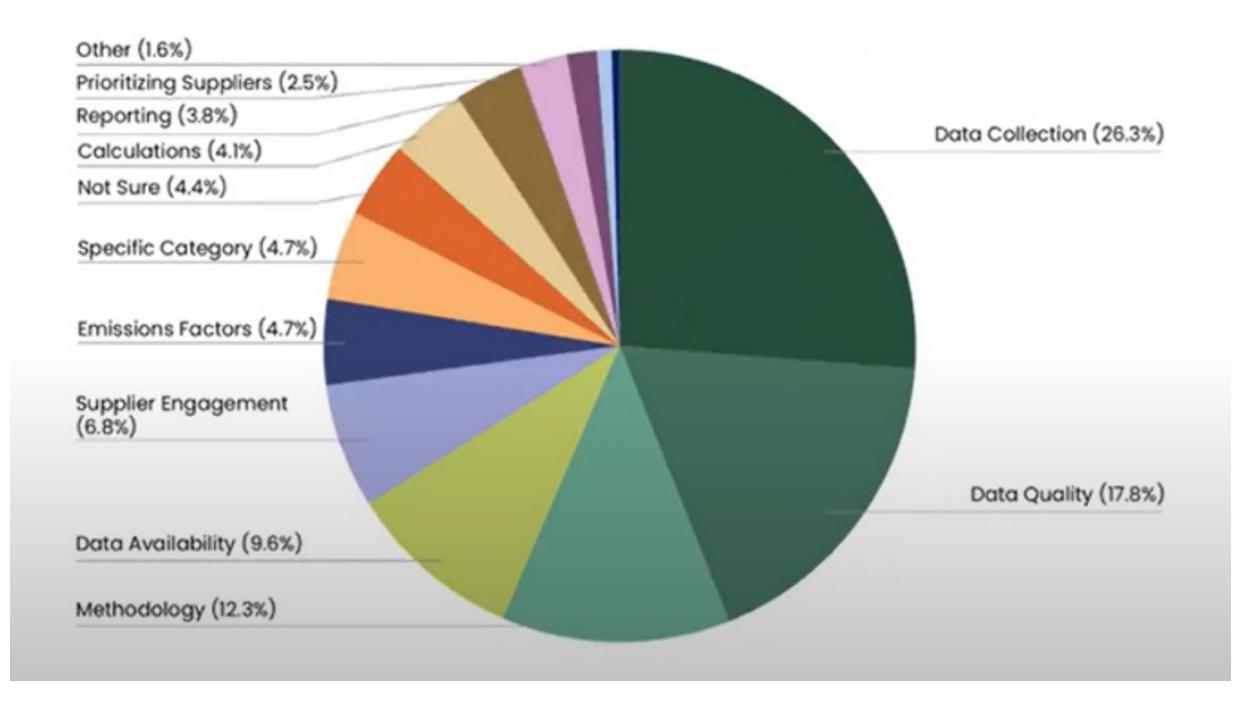
2. Companies struggle mainly with data and methodology

Data capture | data quality | choosing a methodology | consistent availability of data

Biggest Scope 3 Challenges



Biggest Scope 3 Challenges — Detail



Preparers identified Scope 3 emissions as one of the more difficult metrics to disclose, with 39% specifying it as very difficult, 42% as somewhat difficult, and only 20% as not at all or not very difficult. The most common challenges identified included difficulty accessing relevant data (83%), challenges selecting or applying calculation

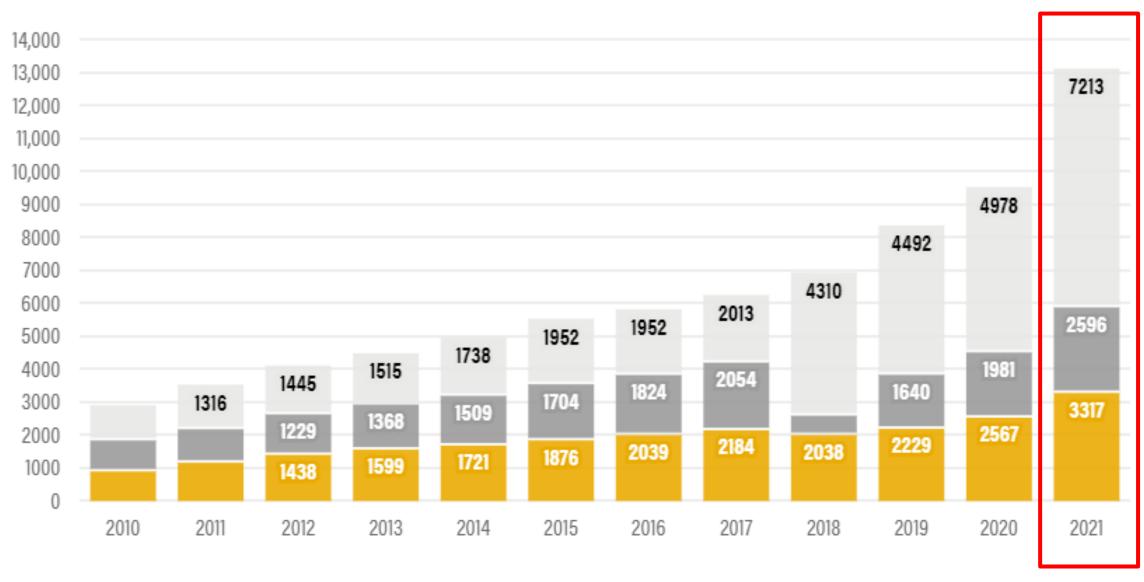
methodologies (60%), and lack of internal expertise or resources for calculating Scope 3 emissions (29%). Almost all respondents (90%) expressed support for Scope 3 disclosure (47% irrespective of materiality and 43% based on materiality).

3. Most companies are just getting started

Only 25% disclosing today

Number of Companies that Publicly Disclose Scope 3





Source: Data is from CDP. Research and analysis of the data was conducted by Concordia University.

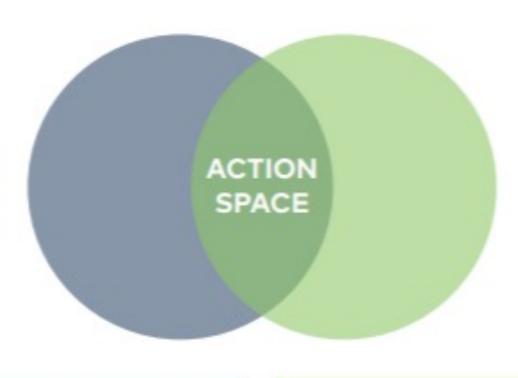


4. Engaging suppliers on decarbonization targets and execution

Decarbonizing the supply chain requires engagement and influence vs. direct action within your own organization for Scope 1 & 2



Value chain emissions that are relevant to your company



Value chain emissions that are cost-effective to address

SCOPE 3 EMISSIONS RELEVANCY CRITERIA

- + Volume of emissions
- Your ability to influence
- + Risk to your business
- + Stakeholder views
- Outsourcing practice
- + Spending or revenue
- + Sectoral guidance

COST EFFECTIVE EMISSION REDUCTION OPPORTUNITIES

- + Renewable energy in key locations
- Untapped energy efficiency
- + Transportation

Envizi Scope 3 Solution Summary

1.

Build ~

Data Foundation

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A single system of record that delivers auditable, robust ESG data and GHG calculations

- Automated data capture
- Supplier survey data capture
- GHG Accounting engine all S3 categories
- Scope 3 emission factor libraries
- Universal Scope 3 data load templates
- Virtual accounts to support hybrid method
- Enhanced Scope 3 emission factor libraries
- Supply chain optimization solution
- AI Spend data categorization

2.

Streamline → Reporting + Disclosure



Flexible reporting tools to meet internal and external requirements for comprehensive ESG reporting and disclosure

- ESG framework library with Scope 3
- Customizable reporting via PowerBI
- Audit tools
- Supplier benchmarking & visualization
- Enhanced Scope 3 analytics
- SKU-level analytics & reporting

3.

Accelerate \bigcirc

Decarbonization



Analytical tools to identify opportunities to reach low carbon goals and track performance to sustainability commitments

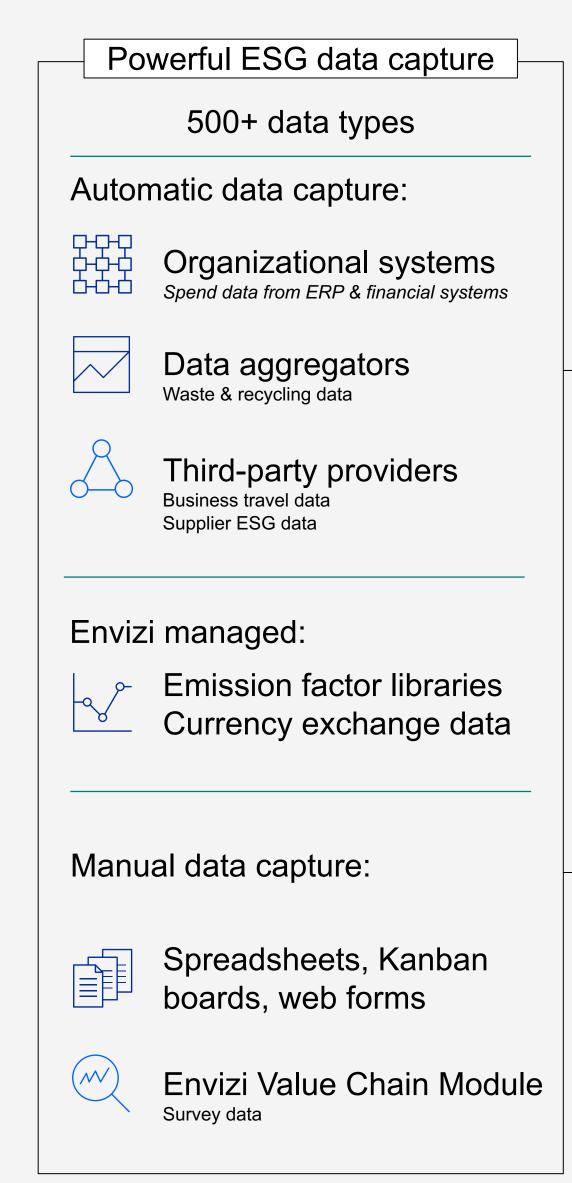
- Programs: prioritize Scope 3 initiatives
- Forecasting & scenario planning (Coming soon)

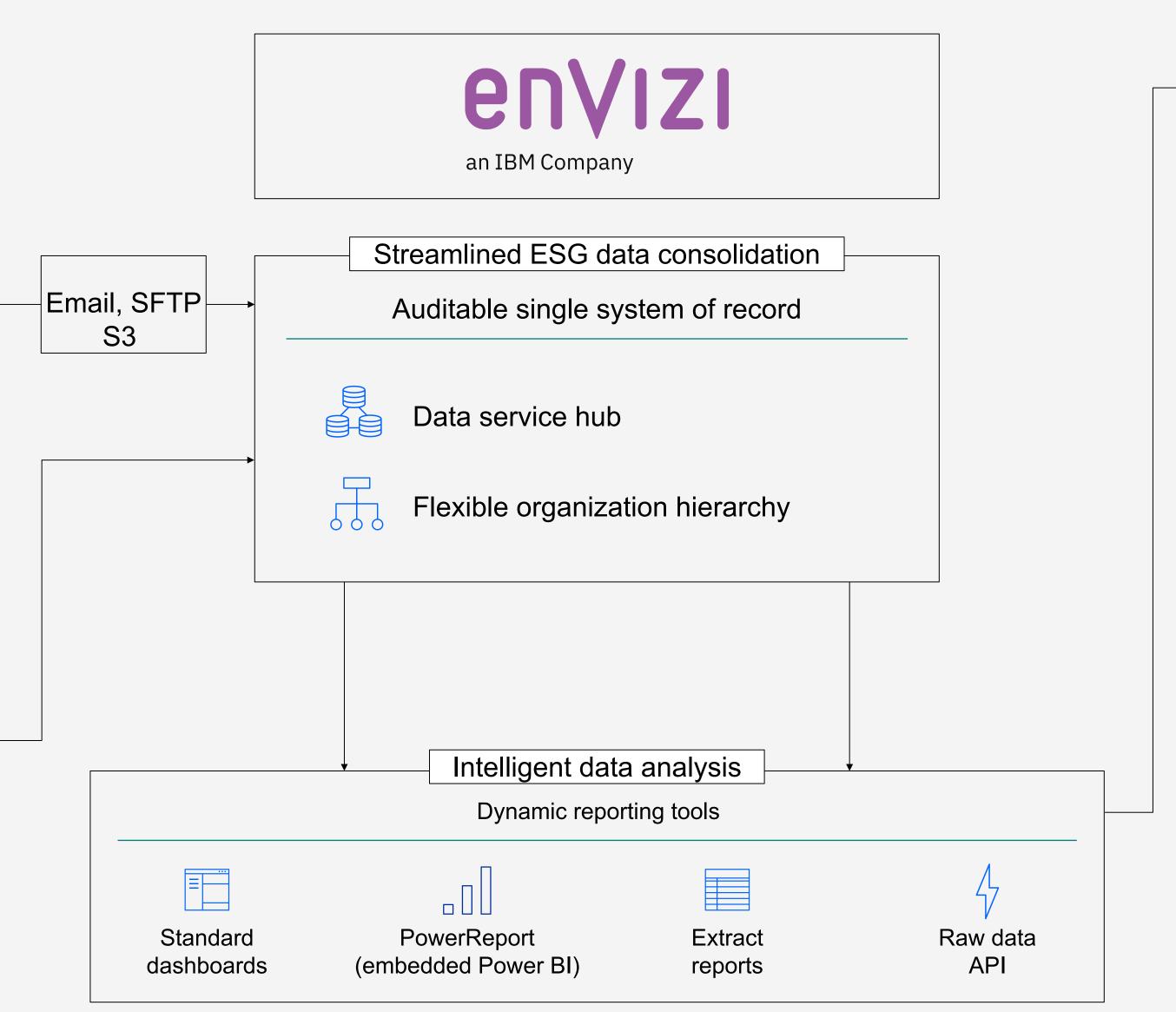
Scope 3

Data Foundation



Automated Scope 3 Data Capture





Customizable ESG reporting

Reports for every audience

Driving ESG performance improvements:



Executive reporting



Benchmarking

reporting



king

Flexible reporting granularity

Meeting disclosure and stakeholder requirements:





Location and market-based GHG



Trace back to source

Reporting templates

ESG reporting framework





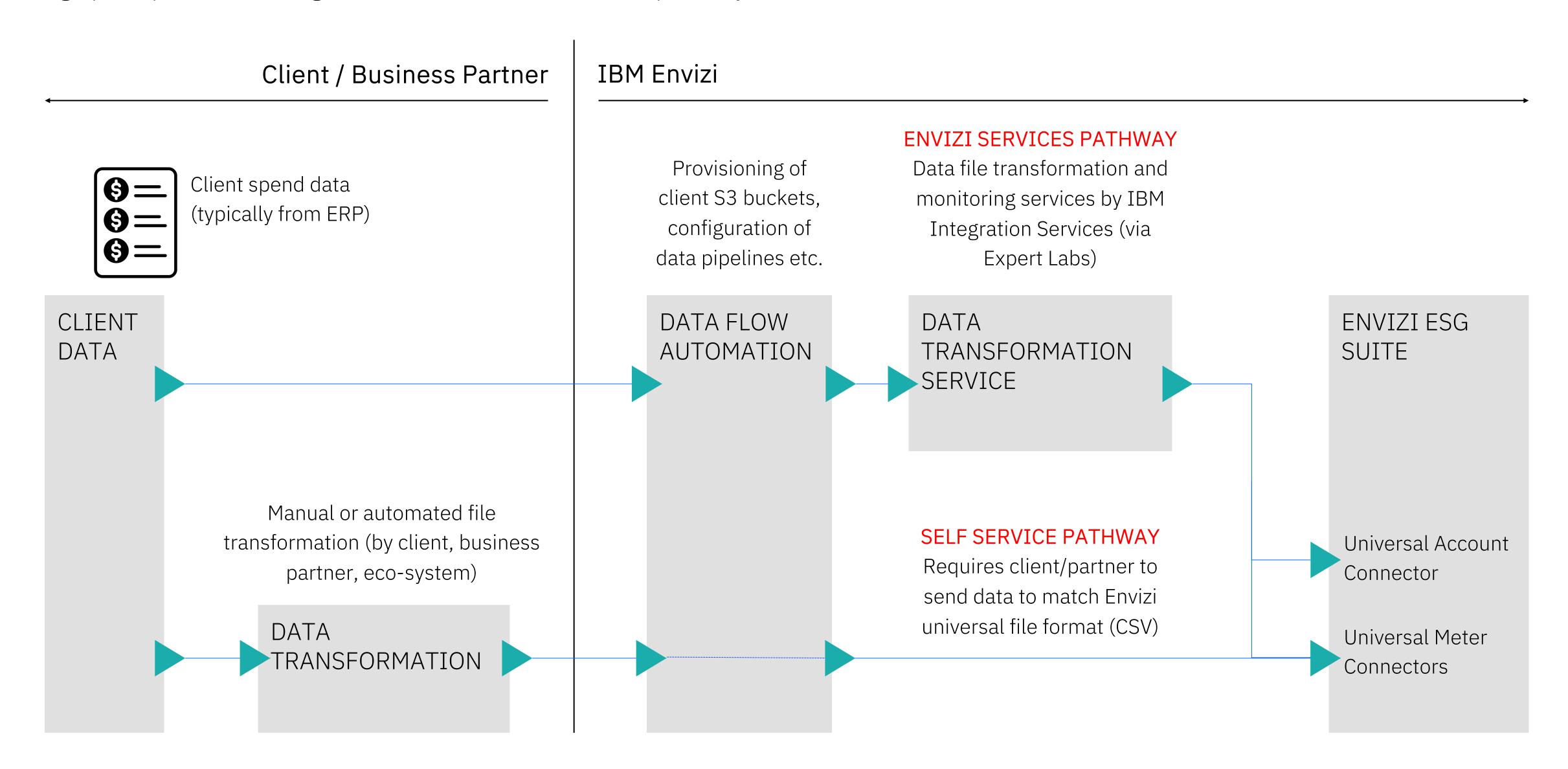






Automated Scope 3 Data Capture

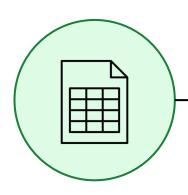
Setting up the process to bring data into Envizi can follow two pathways



Automatically categorize scope 3 spend data

Using Watsonx.ai to categorize transaction data to spend categories

Client spend data



Transaction records from ERP and financial accounting systems containing transaction descriptions, cost and currency information relating to purchased goods and services, including capital goods.

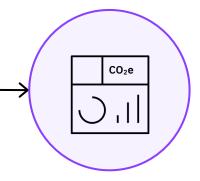
PROBLEM

Client transaction data typically adopts client-specific descriptions and spend categorizations.

How do we efficiently categorize client transaction data to align with Envizi's standard library of categorized spendbased emissions factors?

Manual data mapping processes are very time consuming, particularly when mapping very large datasets. This is not a scalable solution.

Envizi



Envizi supports EORA spend-based emissions factors, covering 66 industry categories harmonized for 189 countries, to enable spend data to be converted to scope 3 emissions:

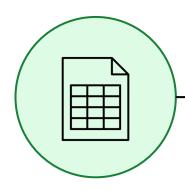
- Purchased Goods & Services (cat 1)
- Capital Goods Purchased (cat 2)

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Automatically categorize scope 3 spend data (con't)

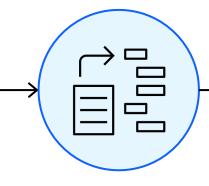
Using Watsonx.ai to categorize transaction data to spend categories

Client spend data



Transaction records from ERP and financial accounting systems containing transaction descriptions, cost and currency information relating to purchased goods and services, including capital goods.

Watsonx.ai



Natural language model developed by IBM Research to automatically process and classify client transaction data to match EORA spend categories.

Spend data is automatically categorized at the time of data ingestion and appended to the correct Accounts in Envizi.

Envizi

Envizi supports EORA spend-based emissions factors, covering 66 industry categories harmonized for 189 countries, to enable spend data to be converted to scope 3 emissions:

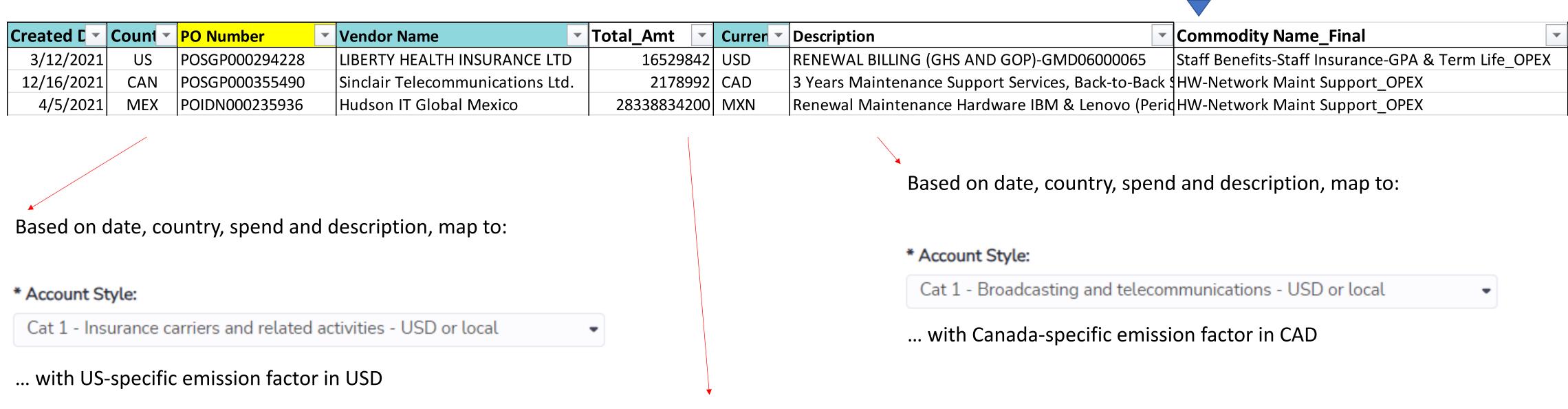
- Purchased Goods & Services (cat 1)
- Capital Goods Purchased (cat 2)

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General ledger coding from financial system

Automatically categorize scope 3 spend data (con't) Mapping Example

Individual spend transactions from ERP/financial systems – automatically mapped to most appropriate emission factor



Based on date, country, spend and description, map to:

* Account Style:

Cat 1 - Data processing, internet publish, other IT - USD or local

... with Mexico-specific emission factor in MXN

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Scope 3 emission factor libraries

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Spend-based factors

Eora Global Supply Chain Database

Breadth: 66 spend categories in 188 countries, published annually from 2015

Alignment: Spend categories aligned with US EPA EEIO categories.

Applicability: factors can be used for the spend-based GHG calculation method for the following scope 3 categories:

- Category 1, purchased goods and services
- Category 2, capital goods
- Category 4, upstream transport and distribution
- Category 6, business travel
- Category 9, downstream transport and distribution
- Category 15, investments (financed emissions)

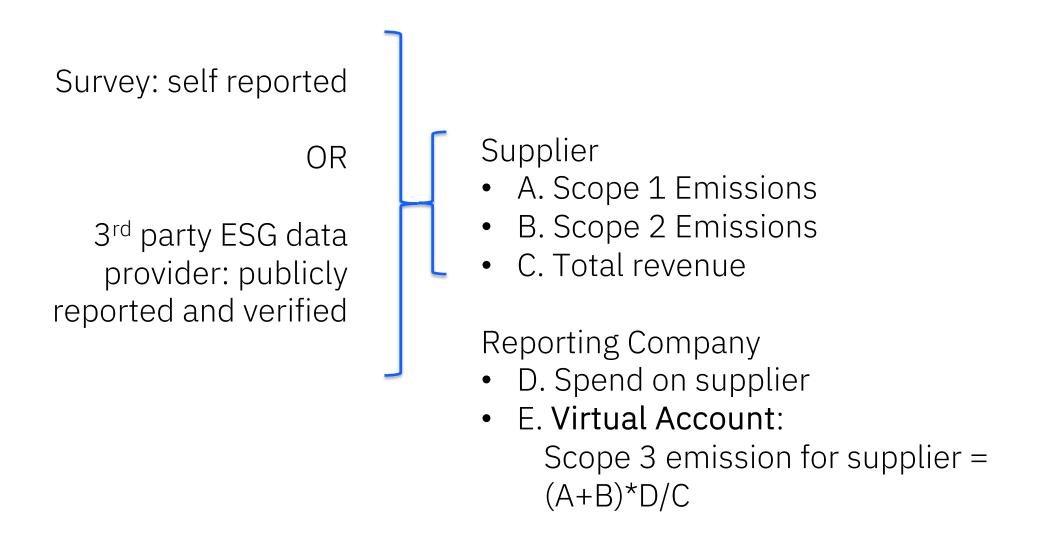
https://knowledgebase.envizi.com/home/managed-emission-factors-eora-mrio-multi-region-in

Virtual Accounts provide the flexibility needed to support Category 1 & Category 13 calculation requirements

Account-level arithmetic for emission or activity data

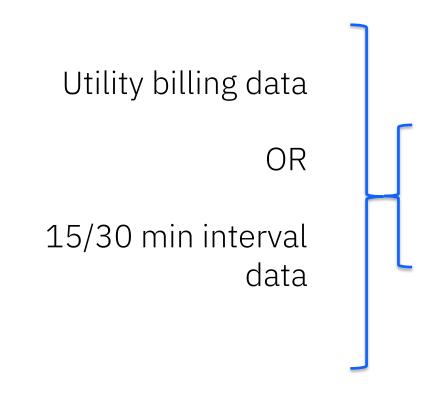
Use Case 1: Hybrid Calculation Method

Category 1 Purchased Goods and Services, Category 2 Capital Goods



Use Case 2: Building-level apportionment

Category 13 Downstream Leased Assets



Building level – available data

- A. Whole building consumption data
- B. Tenant 1,2,3...N consumption

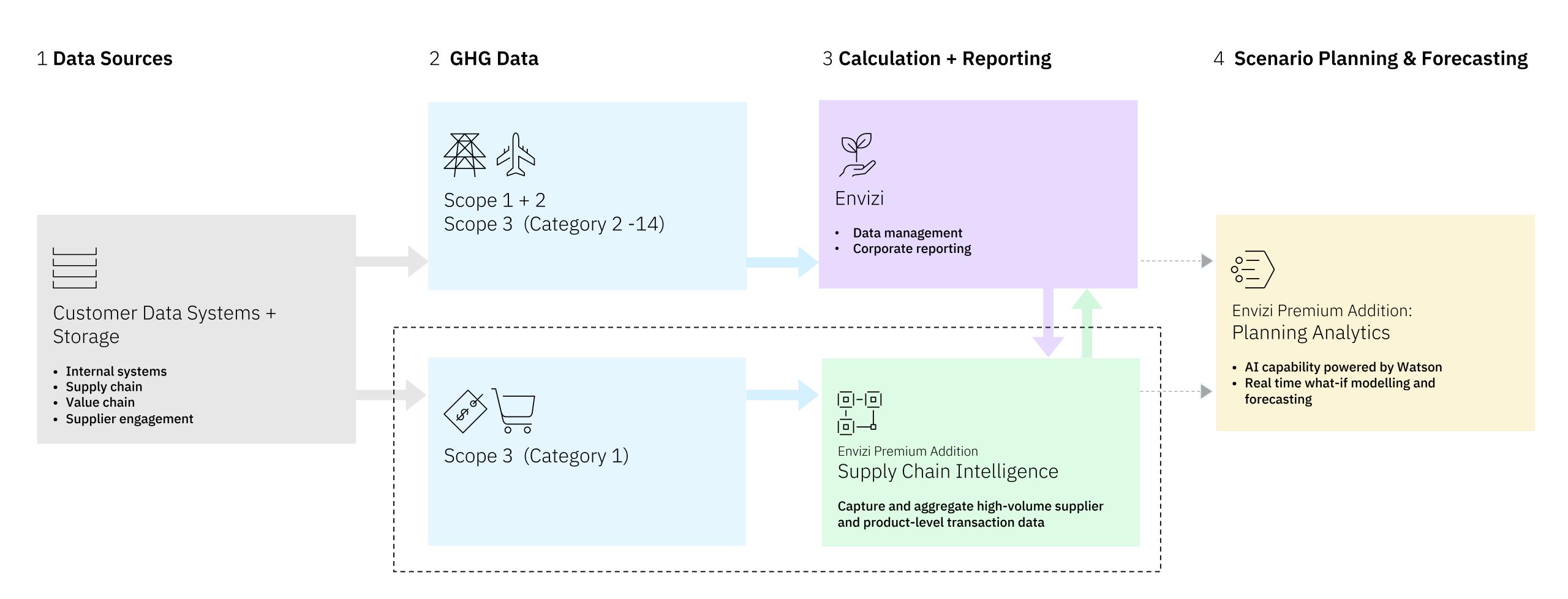
Building level – calculated data

- Virtual accounts:
 - C. Aggregated tenant consumption
 - D. Base Building: consumption = A-C

Most commonly done for electricity but could be done for gas, water, waste

Supply Chain Optimization

For high volume, SKU-level, capture and reporting of Category 1 data



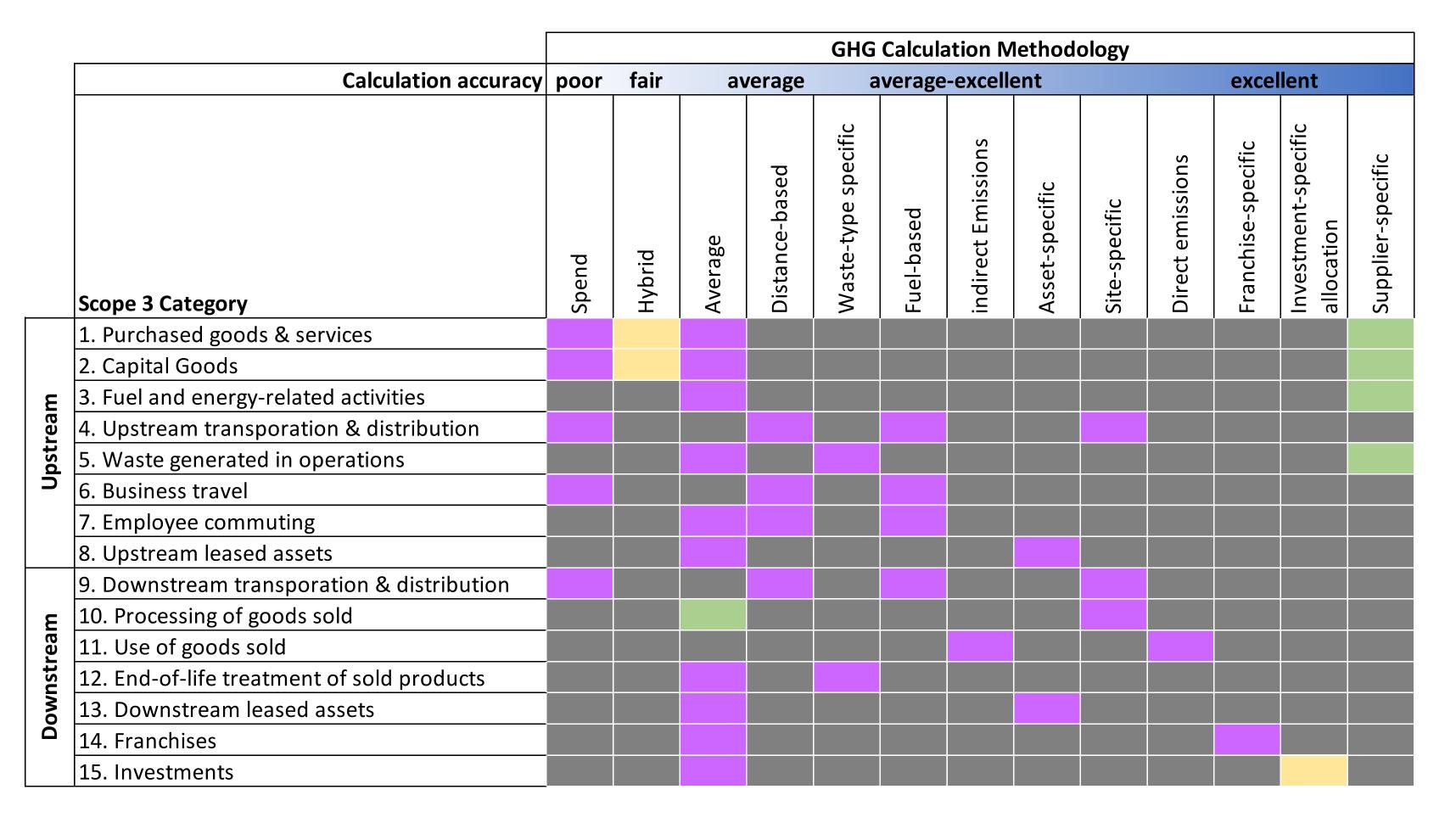
IBM Sustainability Software / © 2023 IBM Corporation

Scope 3

Reporting & Disclosure



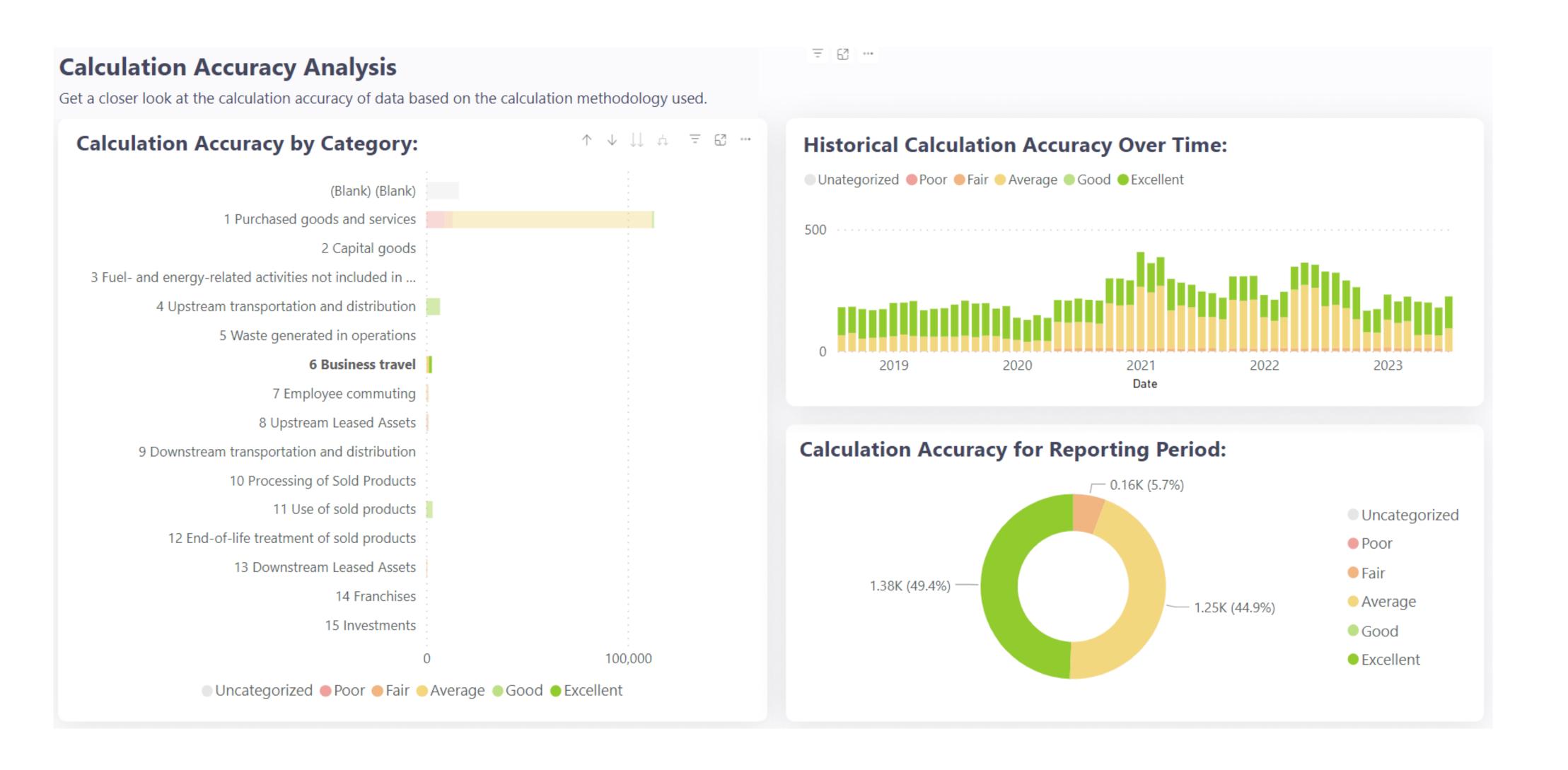
Envizi Support for all GHG Calculation Methods



Legend Calculation method not supported by the GHG protocol Factor from Envizi emisison factor library Apportioned, no emission factor used Emission factor provide by supplier

Reporting on Calculation Accuracy

Support audit commentary | Qualify data-driven decisions | Highlight calculation liabilities



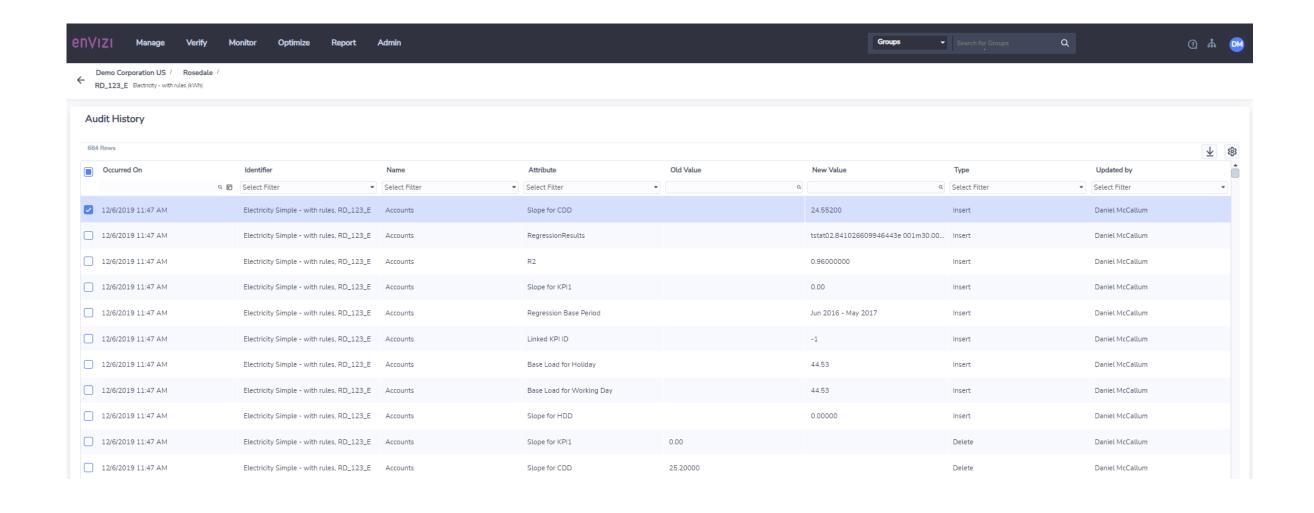
Scope 3 Audit Tools

Audit history | Audit reports | Data Health

Audit history

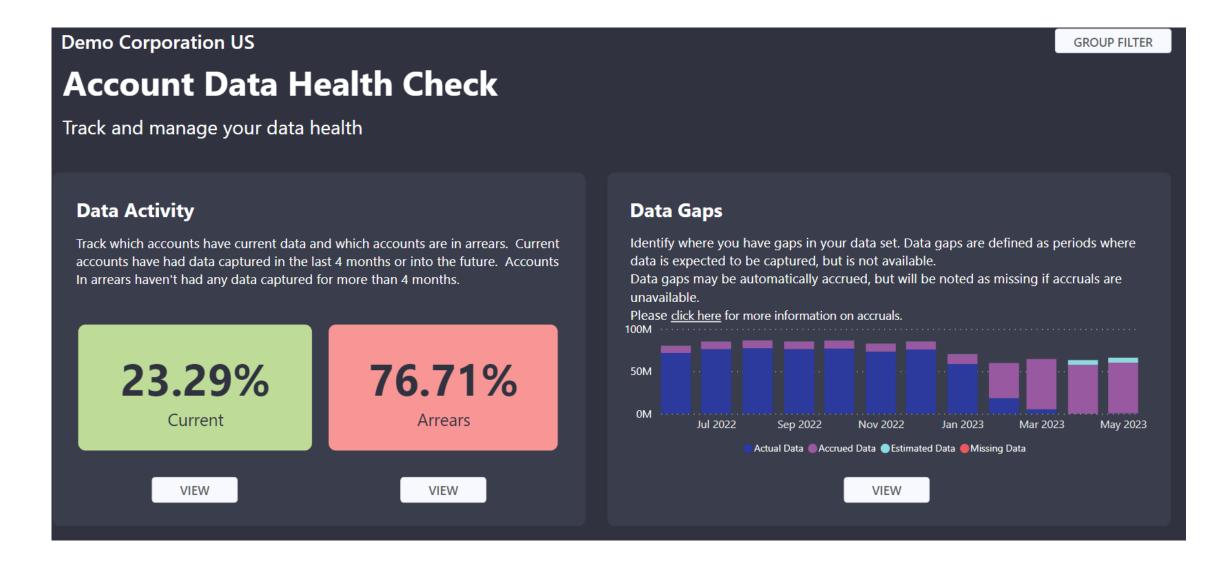
Detailing changes – who, what, when, previous values - on client master data (e.g. account, location, group etc.) and records within accounts.

A suite of audit reports spanning: emission and energy factors, audit history, data extracts including attachments, usage details of reports, open and close dates of accounts,



Data health dashboards

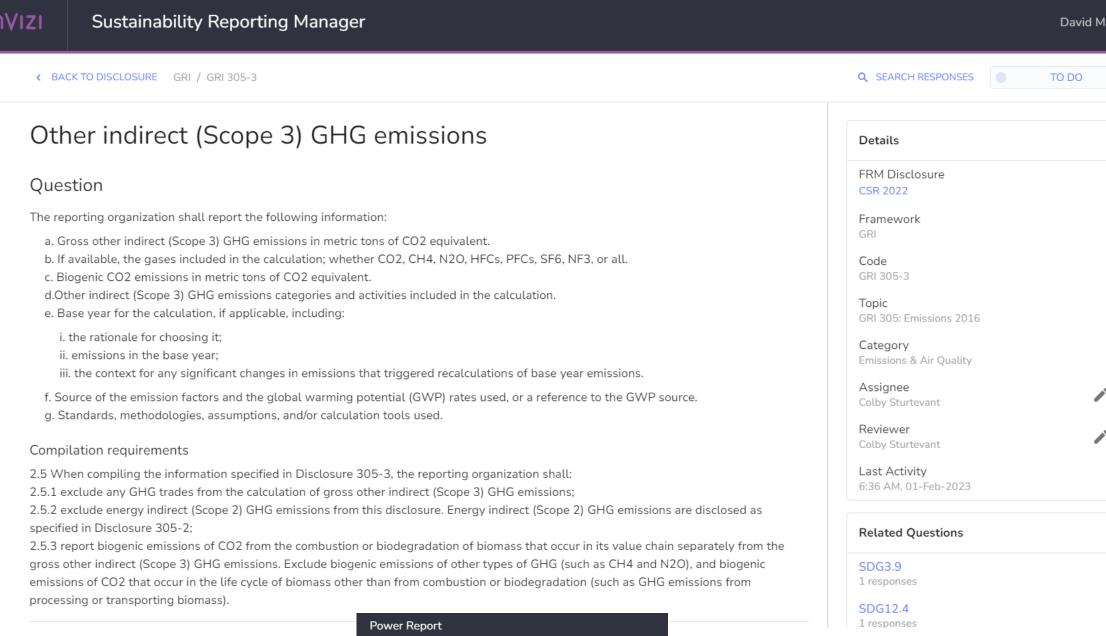
Summarizing data health by data type, scope 3 category, scope 3 data types. Drill down to any level in the organizational hierarchy and down to account level.

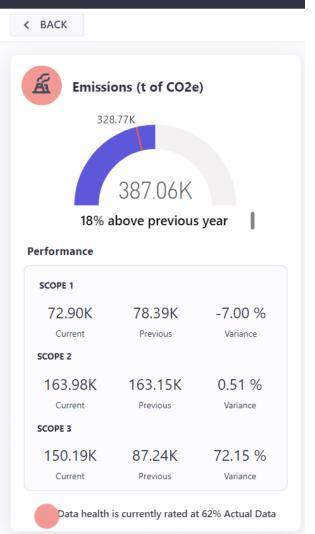


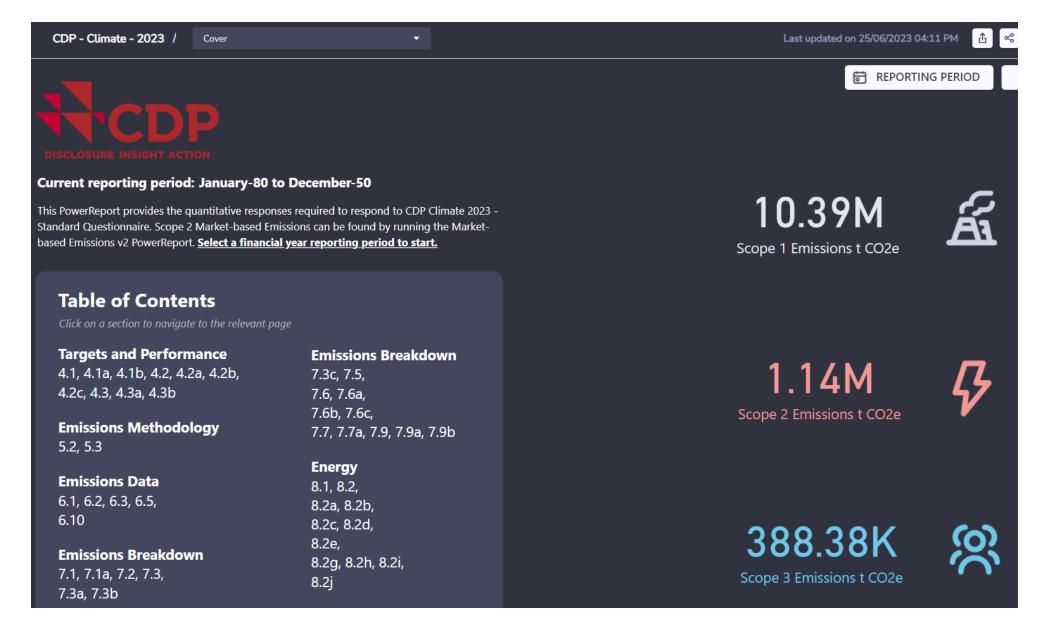
^{*}Verdantix ESG Data Management & Reporting Green Quadrant 2023 for carbon accounting capability,

Integration with ESG Frameworks

via the Sustainability Reporting Manager and PowerReports







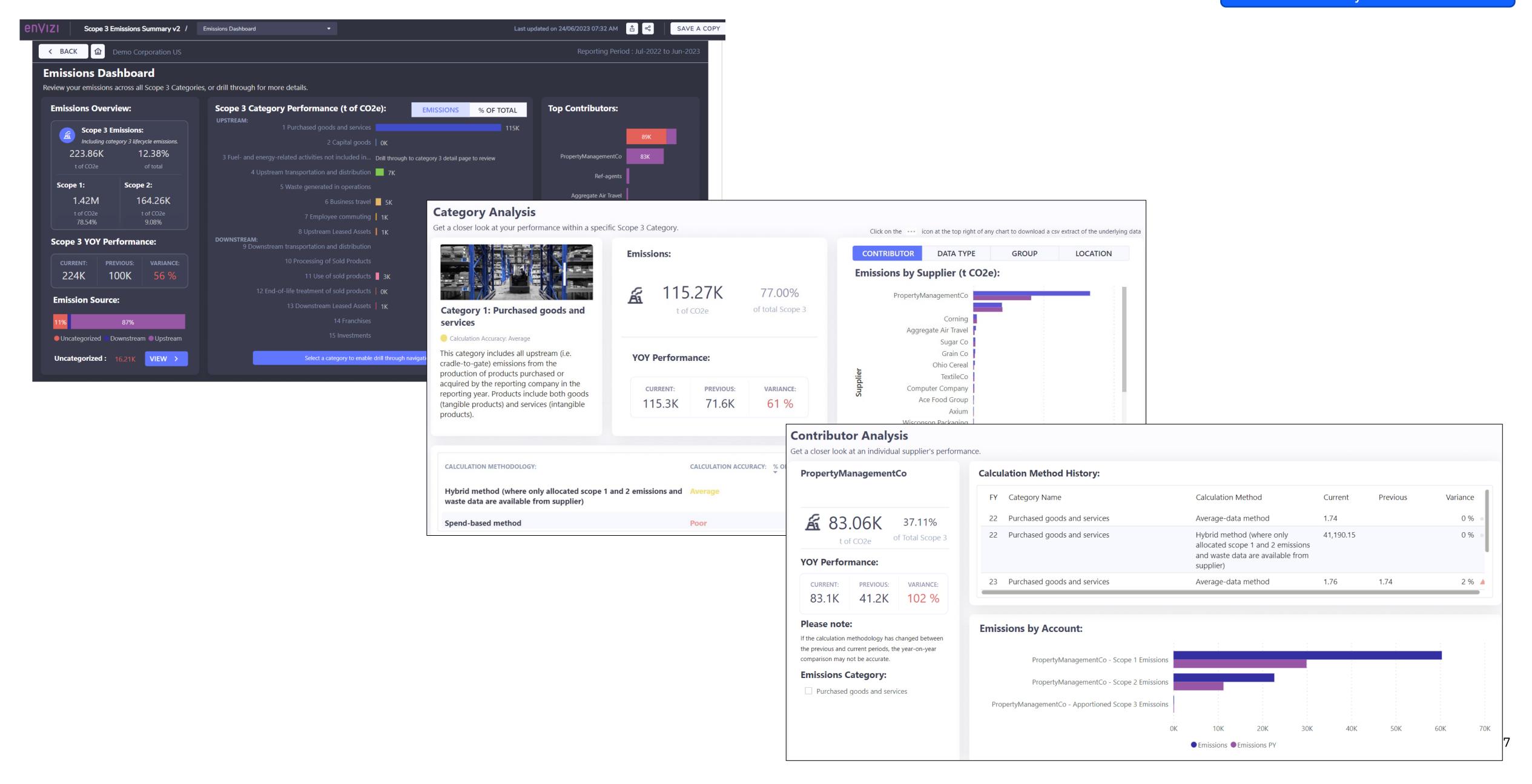
6.5 Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Guidance: Table below showing Scope 3 emissions by Data Type Category and Data Type. Responses for 'Evaluation status', 'Emissions Calculation Methodology' and 'Percentage of emissions calculated using data obtained from suppliers or value chain partners' is sourced from outside Envizi. Also note that Envizi adheres to the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard for all Scope 3 sources.

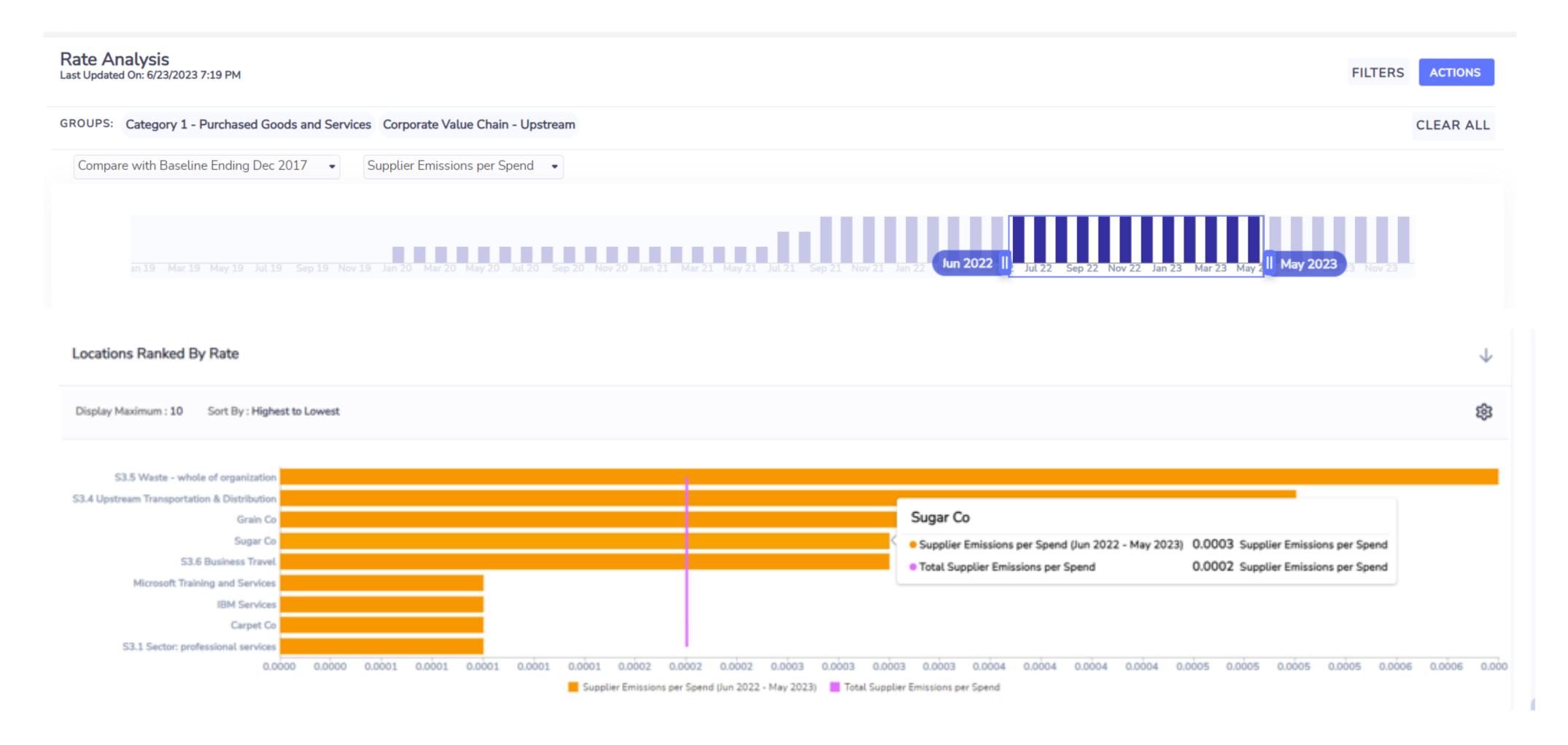
Data Type Category	Data Type	Scope 3 Emissions (tCO2e)
Scope 3 Spena-basea	Accommodation [USD]	1,1/4.80
Scope 3 Spend-based	Air transportation [USD]	11,641.22
Scope 3 Spend-based	Computer and electronic products [USD]	195.74
Scope 3 Spend-based	Computer systems design [USD]	52.40
Scope 3 Spend-based	Computer systems design and related s	8.47
Scope 3 Spend-based	Copper, nickel, lead, and zinc [USD]	0.27
Scope 3 Spend-based	Fabricated metal products [USD]	1.25
Scope 3 Spend-based	Food and beverage and tobacco produc	9,299.80
Scope 3 Spend-based	Furniture and related products [USD]	61.08
Scope 3 Spend-based	Motion picture, sound recording industr	819.84
Scope 3 Spend-based	Other plastic products [USD]	383.32
Scope 3 Spend-based	Other services, except government [USD]	26.13

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Scope 3 Analysis and Performance Reporting

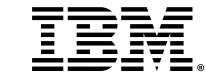


Supplier Benchmarking



Scope 3

Accelerate Decarbonization

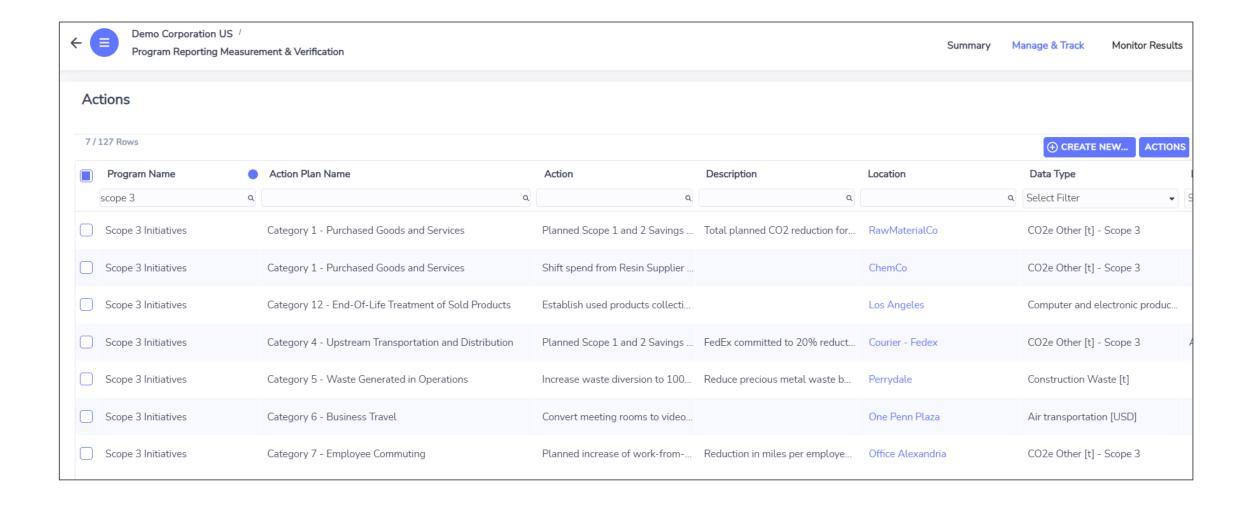


Prioritize Scope 3 decarbonization initiatives

Via Envizi Programs Module

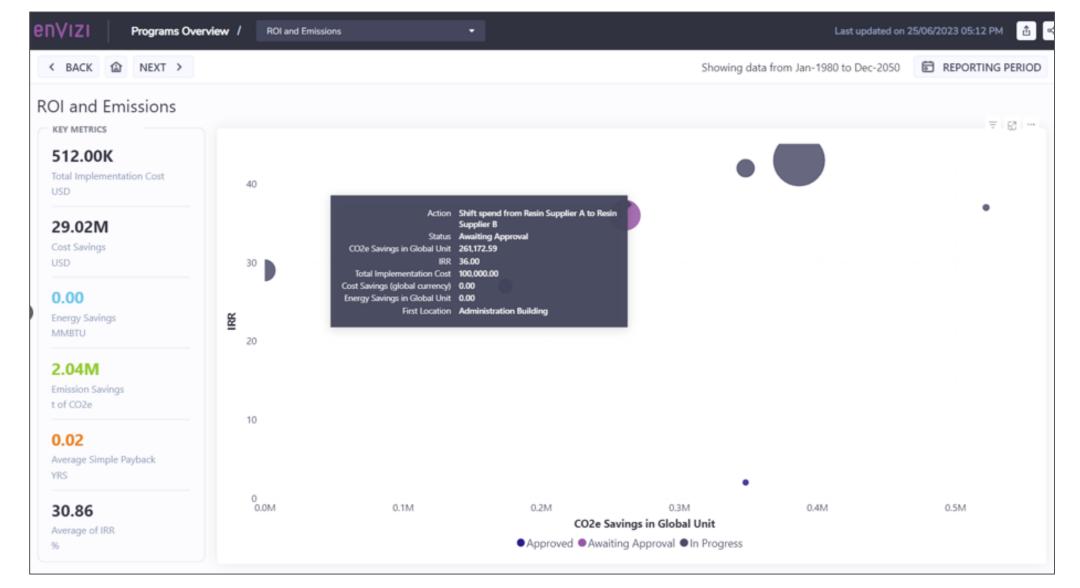
Define Candidate Scope 3 Decarbonization Initiatives

Expected CO2 reductions over time, cost savings, cost of implementation, implementation timeline.



Compare & Rank Initiatives

Through multiple lenses according to corporate guidelines, both financial and CO2 impact.

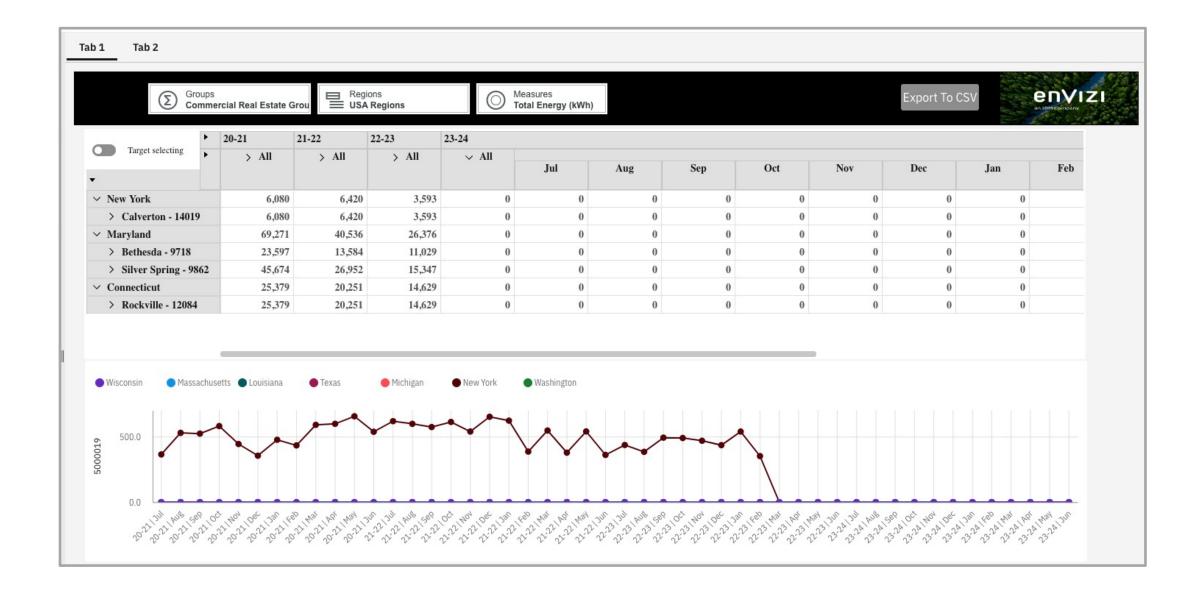


Planning & Forecasting: On Roadmap

Envizi + Planning Analytics

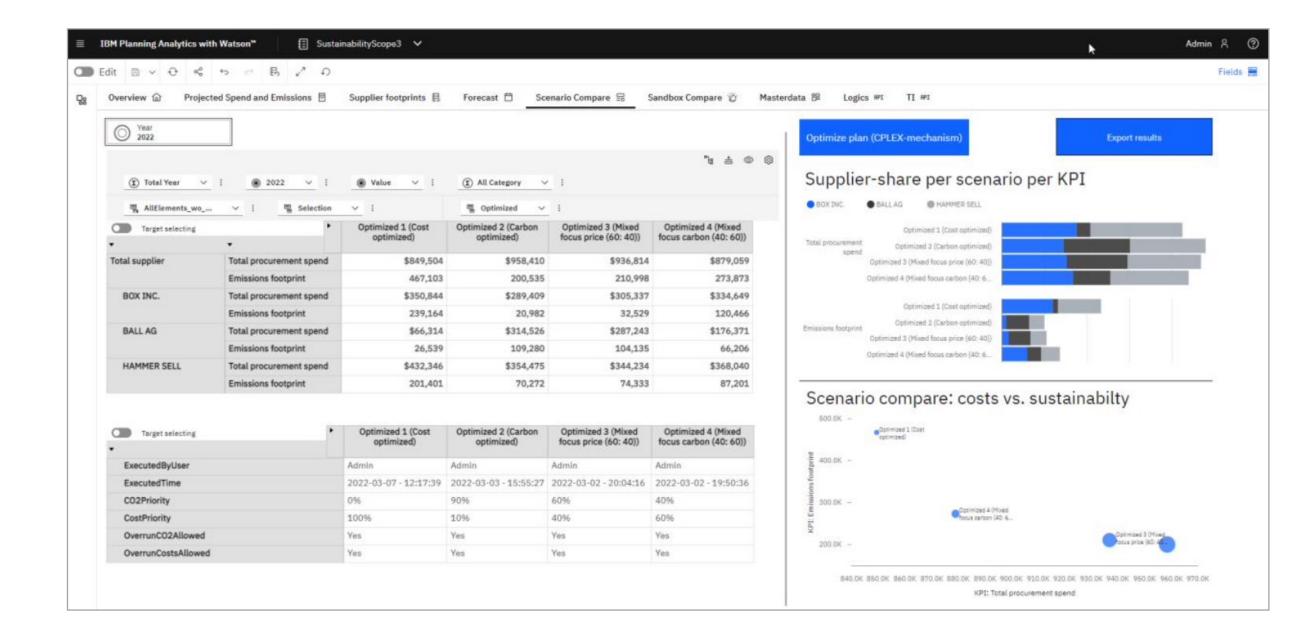
Performance Forecasting

Establish emission targets. Forecast future performance: can we meet targets?



Carbon Reduction & Program Planning

Understand how to achieve carbon reduction goals. Bring outcomes into Envizi to develop actions to meet those targets.

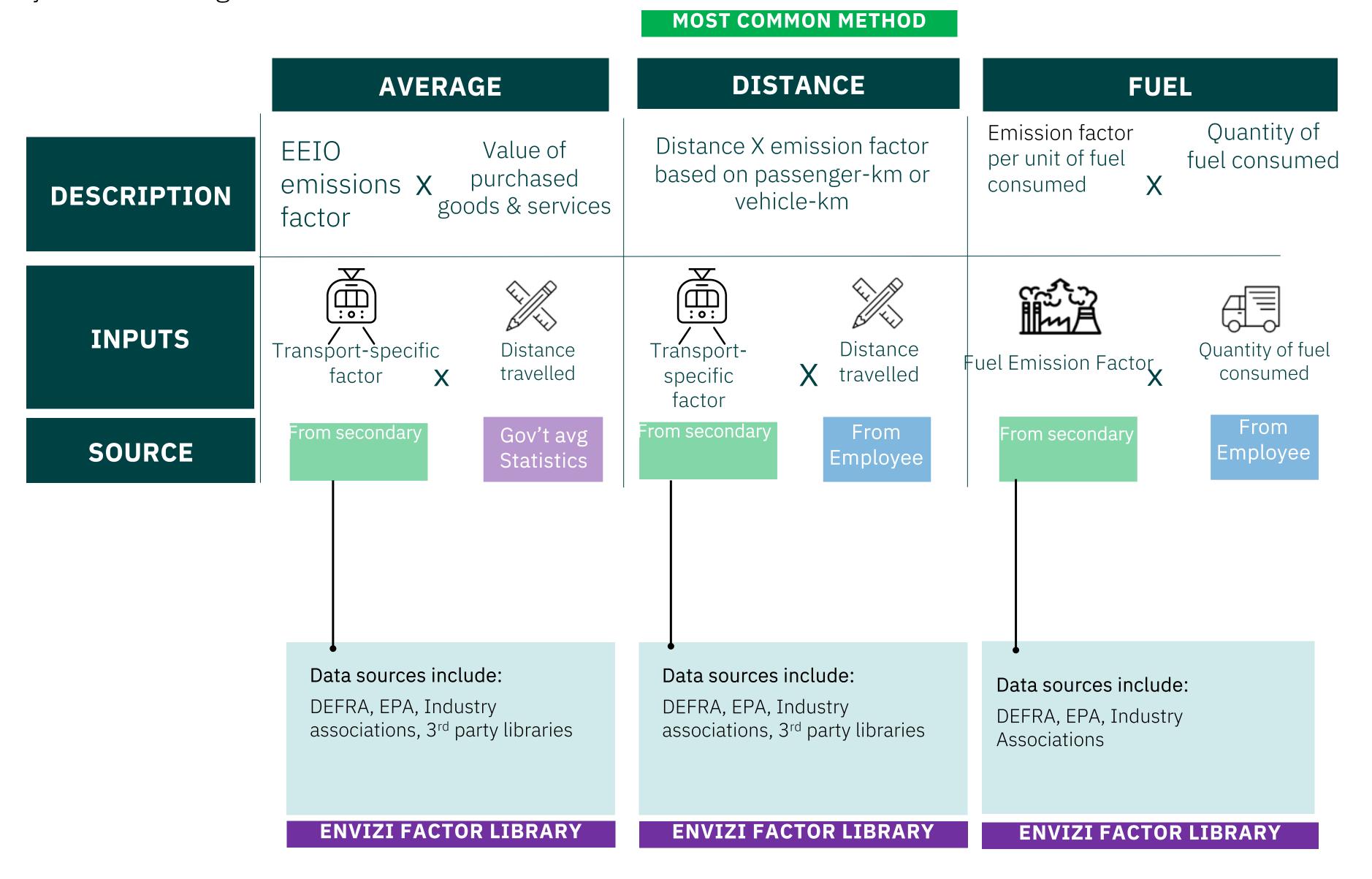


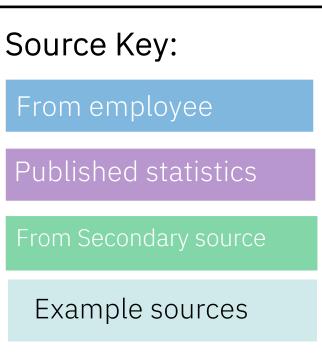
Calculation Methods for various Categories



Calculation methodologies: S3.7

Employee Commuting





Calculation methodologies: S3.7

Employee Commuting

