

UKRI Research “Financially redesigning the Anthropocene: Investigating tools, data, and practices for climate risks and targets”

Research snapshot: Emissions data production & curation

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'Carbon Reality': Knowability of economic entities' emissions

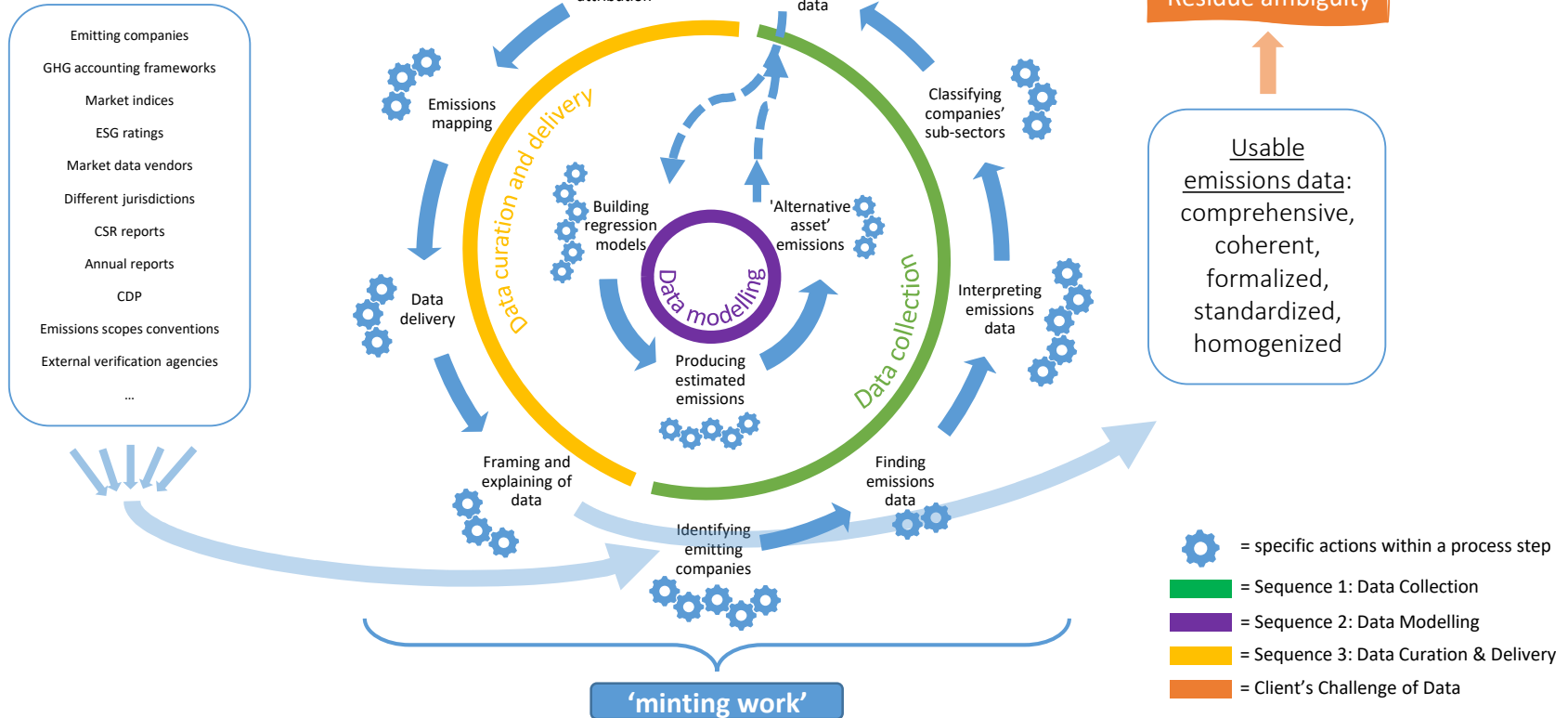


Ambiguity of 'Carbon Reality' Domains: reported emissions, non-emissions data vendors, frameworks ...	Managing ambiguity & producing distinct 'Carbon Reality' Domain: emissions data provider	Validity claims on unambiguous 'Carbon Reality' Domains: provider, client
Absence & incompleteness	Adding and complementing information	Completeness
Inaccuracies (factual)	Judging and correcting	Accuracy
Instabilities (methodological)	Understanding and adjusting	Consistency
Heterogeneity (multiple classifications)	Re-contextualizing and formalizing	

Residue ambiguity

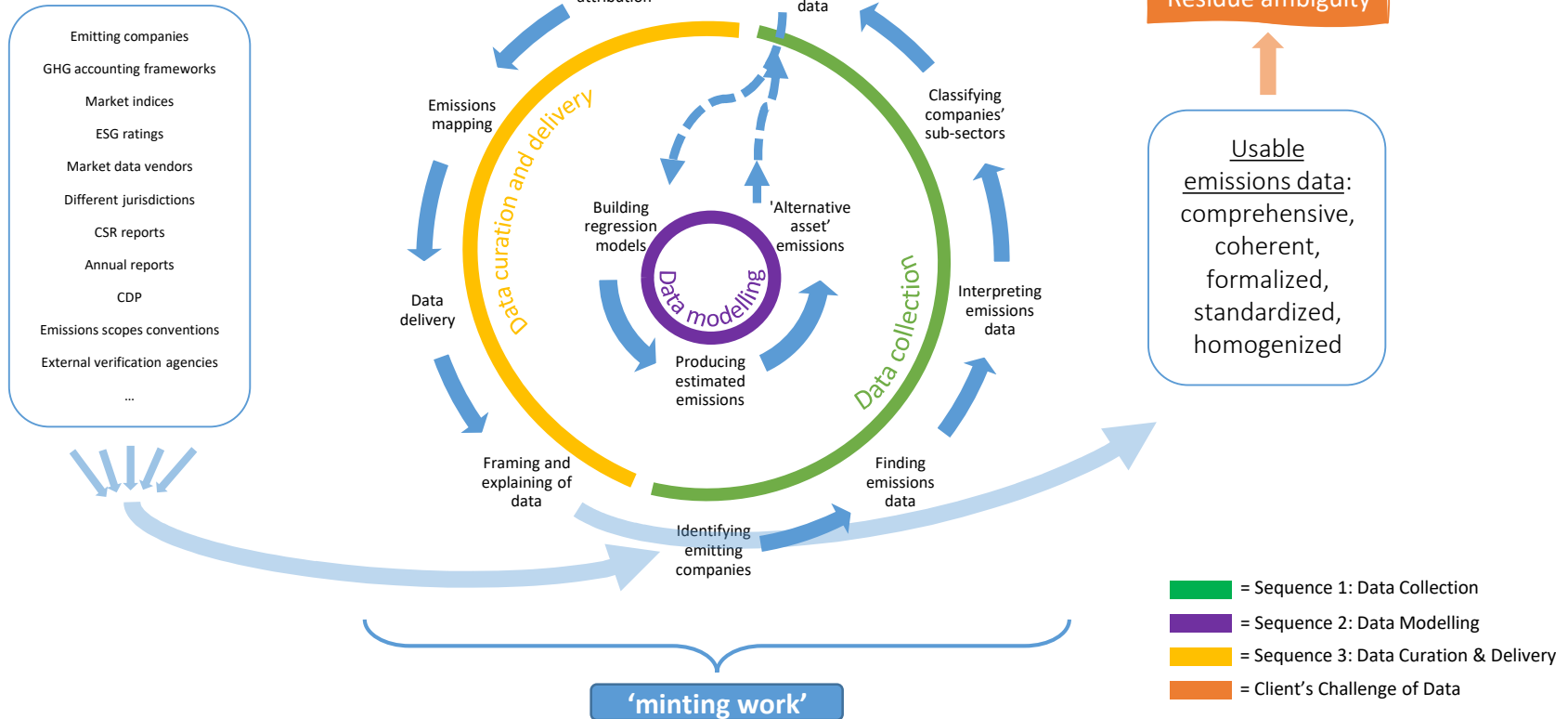
Emissions data production

Case study of an emissions data provider



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Key Insights

- ① The 'minting work' of providers plays an important role in creating a useable representation of 'carbon reality', i.e., a valid emissions data universe.
- ② Clients are an important aspect in the 'minting work' of providers: they force providers to review, revise, and justify their provided emissions data.
- ③ 'Residue ambiguity' from minting work is inevitable. It requires FIs' to develop coping strategies (see 'FI Data & Metrics usage' below).
- ④ The International Sustainability Standards Board (ISSB) of the IFRS is taking up its work this year but its uncertain when the standards will come into force. Providers' minting work will remain essential for the time being.
- ⑤ AI can be used to scrape data from the web and for judging, correcting and estimating emissions data, but especially for the latter part it still needs a lot of care and feeding by humans. AI wouldn't necessarily replace humans in the 'minting work'.
- ⑥ There are efforts to create open GHG emissions repository (e.g., EU, OS-Climate): here, minting work will still have to be done, but by whom?
- ⑦ Representation problems are magnified and multiplied in Scope 3 emissions. Given the central role of Scope 3 in correctly identifying high-emitting companies and effectively managing portfolio emissions, minting work will become even more important.