

The BUCKSTOP Methodology

How We Determine Value

At BUCKSTOP, we don't guess. We solve one of the industry's hardest challenges, the lack of standardized product data, by combining artificial intelligence with a rigorous, multi-tier data collection process.

Our proprietary system transforms raw market noise into reliable, verified, and continuously updated real-time valuations.

Sourcing the Data

We look beyond a single price list. Our system aggregates data from five distinct five tiers to build a complete picture of the market



Tier 1

Active Markets

Online marketplaces where assets are actively bought and sold, including public and privately held data from leading marketplaces with which we've partnered.

Tier 2

Secondary & Scrap Markets

Secondary market platforms and scrap aggregators to understand baseline material values of end-of-life assets.

Tier 3

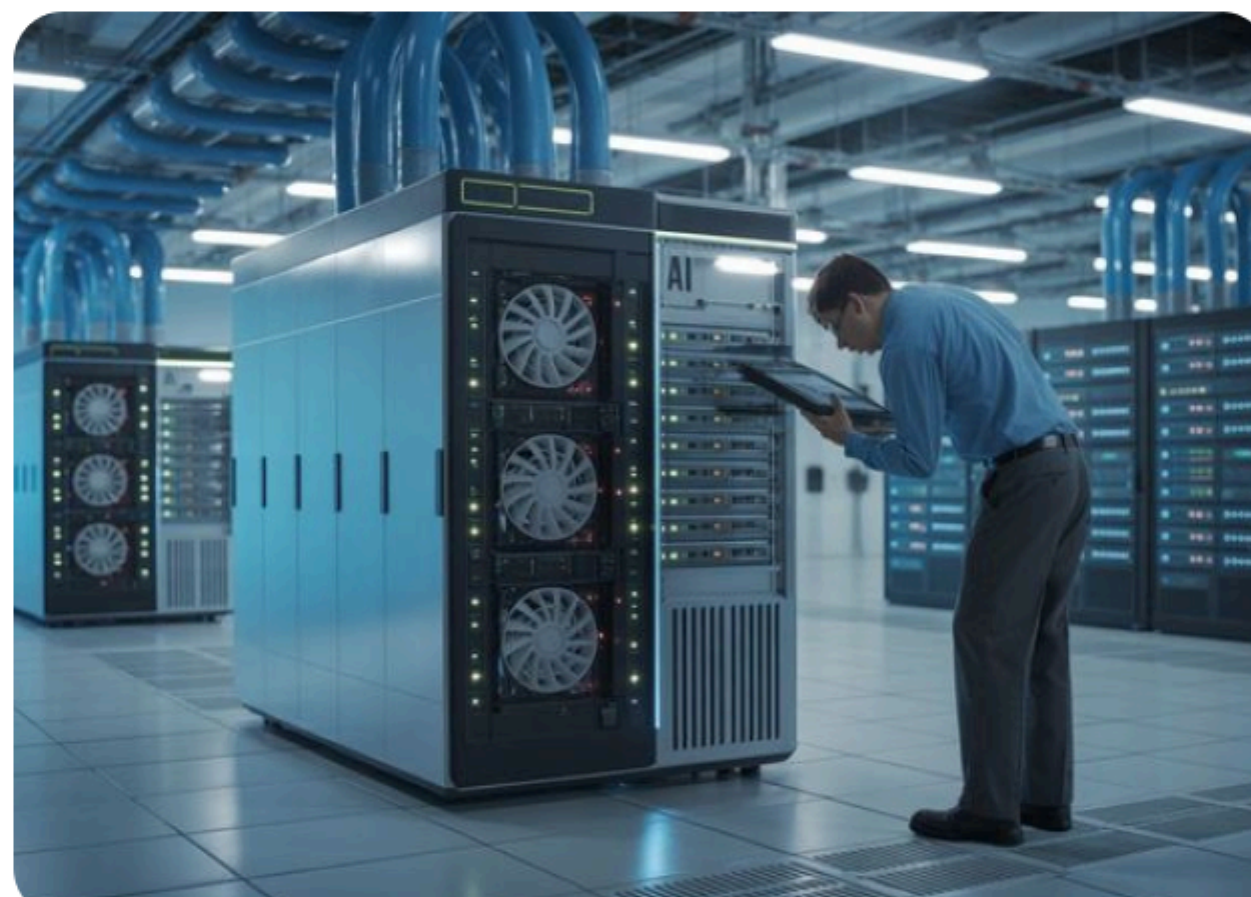
Technical Specifications

Technical product documents used to understand specific products and their material composition.

Tier 4

Economic & Geopolitical Context

Lifecycle transition costs, including live commodity prices (e.g., copper), freight indices, and regulatory costs.



Tier 5

Real-World History

Reinforcement of models using real-time transaction data at the product level.

Cleaning the Mess (Entity Resolution)

Industrial valuation data is messy. A single asset (e.g., a solar panel) may appear online with different spellings, incomplete model numbers, or conflicting specifications. Furthermore, an asset's manufacturing might have gone out of business or been acquired by another company.

BUCKSTOP'S **proprietary Entity Resolution®** process automatically:

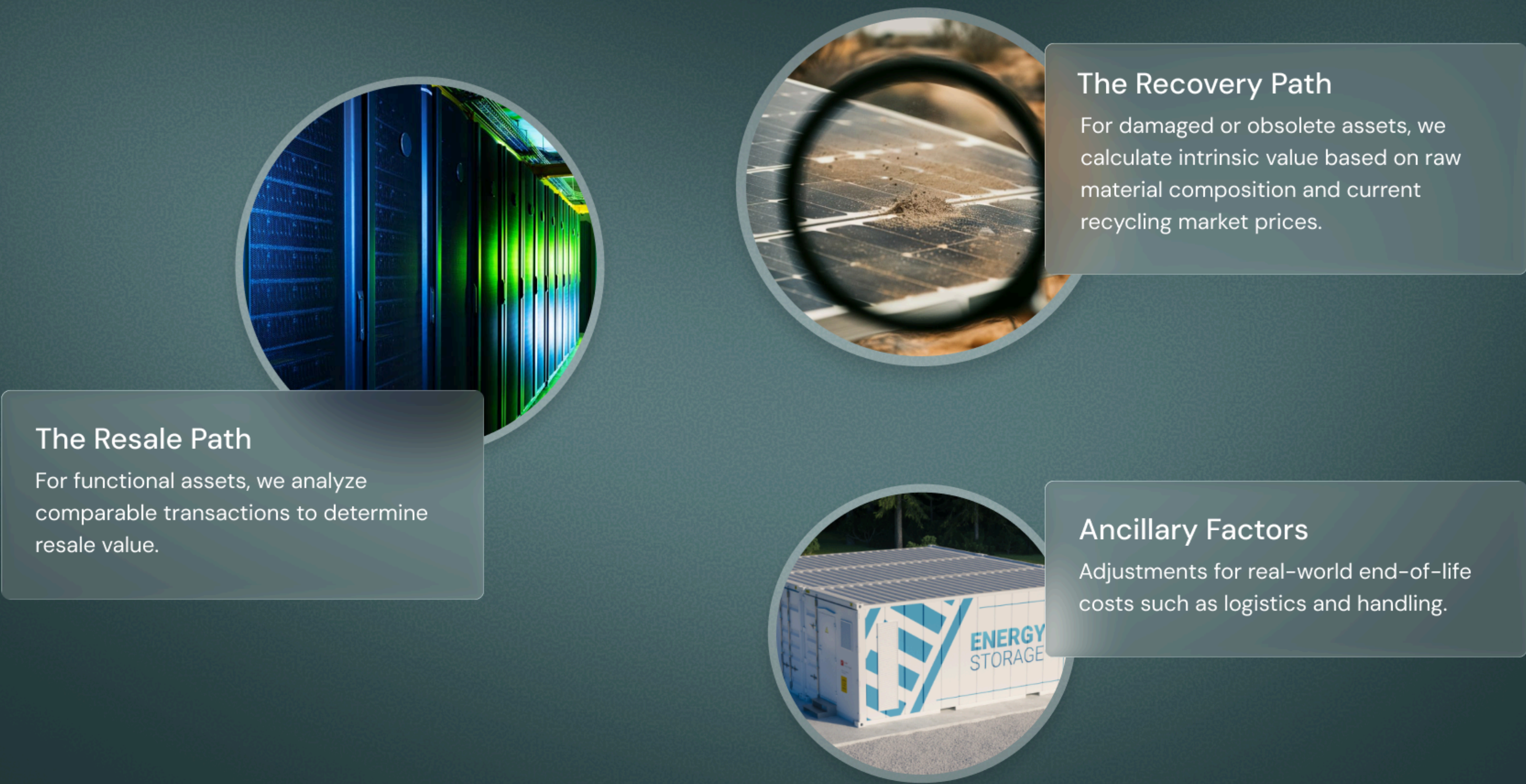
- Identifies duplicates
- Merges them into a single, clean canonical record
- Matches an asset with its original/new manufacturer despite the company name changing

This reduces work that once took days of manual effort into seconds of automated precision.



The Valuation Engine

Once data are cleaned, BUCKSTOP determines value based on asset condition:



Data Privacy, Security & Integrity

The BUCKSTOP platform is engineered for institutional-grade security and uncompromising accuracy:

Tenant Isolation

Strict logical separation of all user data. Proprietary inputs never inform another organization’s results.

Algorithmic Precision

Powered by BUCKSTOP’s purpose-built internal AI, not a wrapper for generalized, off-the-shelf tools like ChatGPT. Custom algorithms operate exclusively on verified data, completely eliminating generative hallucinations.

Bounded Corpus Execution

Valuations are confined to a verified corpus of approved sources. If data cannot be confirmed, the system refuses to speculate or query the open internet.

Data Sovereignty

User data is never sold, traded, or shared with third parties.



Human Oversight & Trust

BUCKSTOP applies a human-in-the-loop governance model:

- Expert Review**

Complex or unusual equipment is reviewed by human experts.
- Ground-Truth Calibration**

Models are validated with scientists, certified appraisers, EPCs, insurers, and disposition companies using real recovery data.
- Full Traceability**

Every data point is traceable back to its original source URL or document.

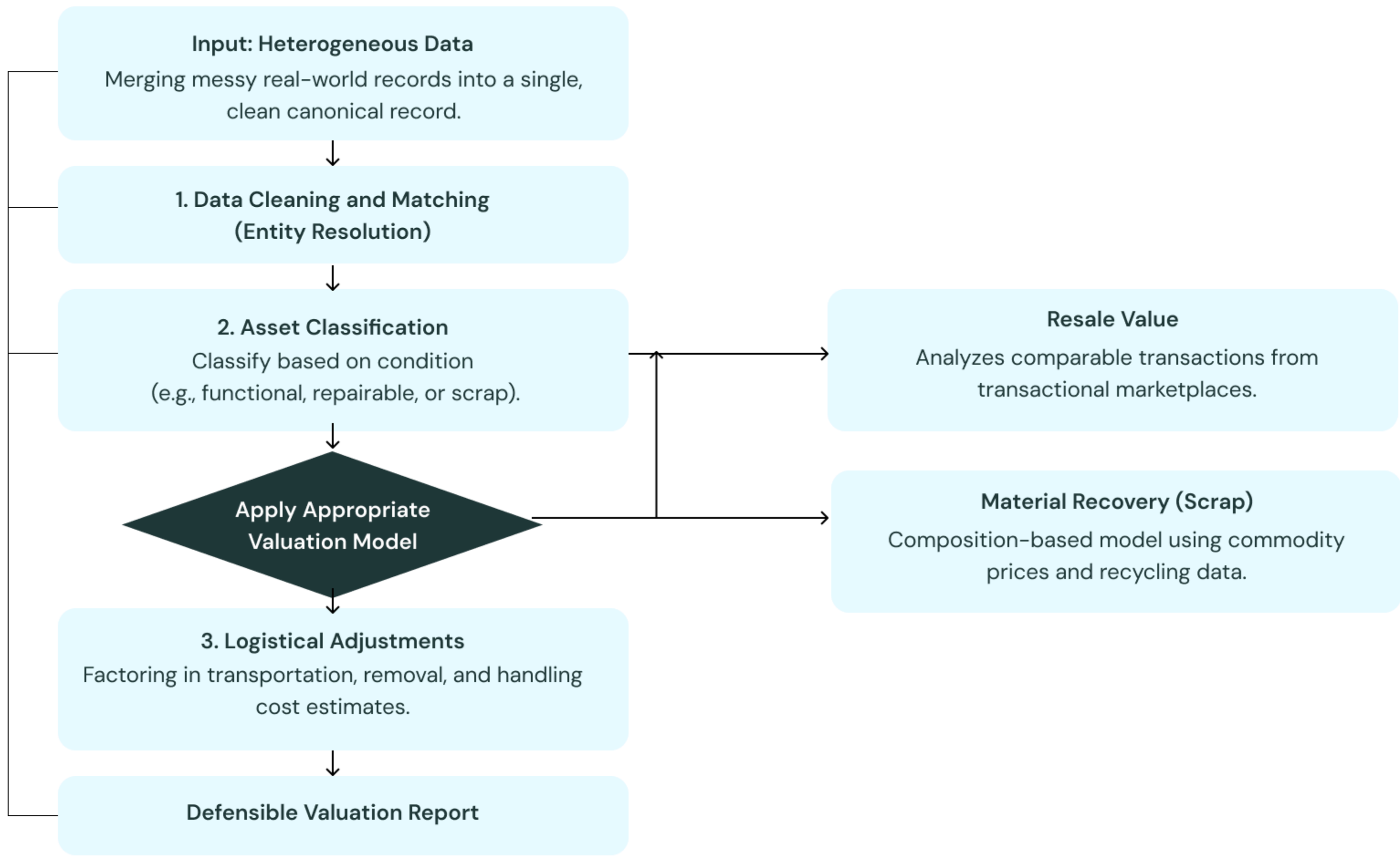


Transparency

BUCKSTOP is transparent about uncertainty, reporting multi-variate confidence levels when data are limited.



Conceptual Overview of the Algorithmics Assay



The BUCKSTOP Methodology

Clear Valuations

BUCKSTOP transforms diverse, messy data into trusted, AI-driven asset appraisals for the energy and industrial sectors.

