ESG Data and Analytics from Truvalue Labs

Harness the power of AI to uncover ESG insights.

Increasingly, investors are seeking reliable, high-quality data that goes beyond company disclosures to capture corporate impact. Today's superabundance of information calls for modern environmental, social, and governance (ESG) analysis built around the application of artificial intelligence (AI) to gain deeper insights into sustainable investments.

WHY TRUVALUE LABS

Truvalue Labs is the first company to apply AI to uncover timely, objective ESG data that identifies both risks and opportunities at the speed of current events. We focus on company ESG behavior from external sources and include both **positive and negative events** that go beyond traditional sources of ESG risk data. Using machine learning, Truvalue Labs aggregates, extracts, analyzes, and generates scores on millions of documents each month, as events happen.
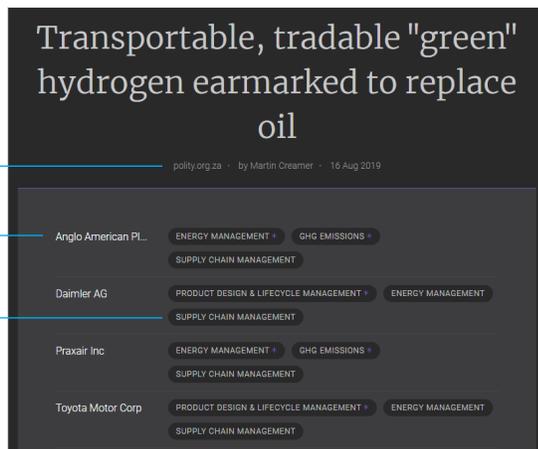
COMPREHENSIVE GLOBAL COVERAGE

200K+	**260K+**	**30+**
DATA SOURCES	**COMPANIES**	**LANGUAGES**
Local, national, and international news, non-governmental organizations (NGOs), watchdog groups, trade blogs, and industry publications	Both public and private companies are tracked with over 15 years of history, updated continuously	Encompassing English, French, Spanish, German, Chinese, Japanese, Portuguese, Italian, Dutch, Danish, Finnish, Swedish, Hebrew, and Thai

We process information from more than 150,000 sources

Source

Tagging of Multiple Entities

Material and Non-Material Categories

> "We like the objectivity of Truvalue Labs' data that isn't dependent upon what companies publish about themselves. Their timely, material ESG data helps us to continually monitor the managers in our client partner funds and to evaluate and select new managers."
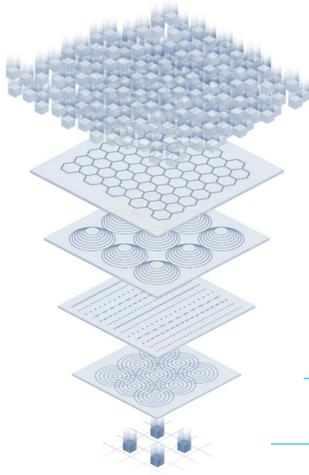
Faith Ward
Chief Responsible Investment Officer
Brunel Pension Partnership Ltd.

Supporting your workflow

The world's largest asset managers, asset owners, wealth managers, and consultants rely on Truvalue Labs' award-winning data and analytics to uncover risks and opportunities and make more informed investment decisions.

- **Asset Managers**
  - Idea Generation and Portfolio Construction
  - Composite Scoring
  - Portfolio Analysis, Alerts, and Reporting
  - Company and Industry Research

- **Asset Owners**
  - Manager Selection and Monitoring
  - Investor Inquiry Management
  - Portfolio Analysis, Alerts, and Reporting

- **Quantitative Managers**
  - ESG Risk Premia Incorporation
  - Proprietary ESG Score Creation
  - Risk Management

- **Risk and Compliance**
  - Due Diligence
  - Research and Monitoring
  - Portfolio Risk Management

- **Sell Side**
  - Due Diligence
  - Research Creation
  - Advisory

TRUVALUE AI ENGINE
We quantify ESG information from unstructured text to deliver a third-party perspective on company ESG performance.

AGGREGATE: 200,000+ SOURCES media, stakeholders, other third parties

EXTRACT: 4,500,000+ DATA POINTS processed per month

ANALYZE: 300,000 SIGNALS generated monthly

GENERATE: FOUR KEY SCORES for 26 ESG categories and 16 SDGs

DELIVER: 15+ YEARS OF HISTORY on 260,000+ companies

ESG SOLUTIONS

Unique Scores
Truvalue Labs data separates signal from noise to help you uncover opportunities to outperform the market. Incorporate a new breed of ESG data that is uncorrelated and additive to common quant strategies. Truvalue provides four key scores that measure short-term, long-term, and the trend of performance across the Sustainability Accounting Standards Board (SASB)™ and Sustainable Development Goal (SDG) categories.

Connected Content and Workflow Solutions
Boost your sustainable investment workflows with ESG solutions for every stage of your research, portfolio construction, impact assessment, risk management, and regulatory compliance processes. Combine Truvalue Labs scores with traditional data from leading ESG vendors to create your own composite score using the most open and connected ESG data ecosystem.

Flexible Delivery
Rely on frictionless access to Truvalue Labs data through the FactSet Workstation, Truvalue Platform, data feeds, APIs, and major cloud platforms. Our platform tools provide powerful search capabilities, intuitive dashboards, and insightful analytics that let you quickly integrate Truvalue Labs data.

KEY BENEFITS

Deliver a differentiated ESG solution to your clients
Leverage the power of AI to power your strategy and manage risk.

Leverage SASB's materiality framework
Analyze companies using the industry-vetted framework of codified standards from SASB.

Stay on top of market-moving ESG issues
Manage risk and avoid being blindsided with timely ESG alerts and intuitive dashboards.

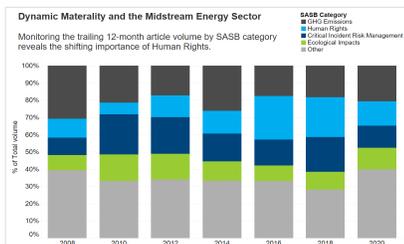### Make more informed decisions
Compare company ESG behavior in real time relative to a peer, sector, benchmark, or an industry. Spot trends before they are trending.

Measure corporate impact toward the UN SDGs
Analyze corporate activities that contribute or detract from the 16 SDGs.

Rely on 15+ years of data on material factors
Truvalue Labs provides a clean, consistent dataset with more than 15 years of history on SASB's 26 material categories and the UN's 16 SDGs.

Dynamic Materiality and the Midstream Energy Sector

Monitoring the trailing 12-month article volume by SASB category reveals the shifting importance of Human Rights.

SASB Category
- GHG Emissions
- Human Rights
- Critical Incident Risk Management
- Ecological Impacts
- Other

% of Total volume
100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%
2008 2010 2012 2014 2016 2018 2020

DYNAMIC MATERIALITY
Dynamic Materiality reveals which ESG categories receive the most attention for each company, as measured by article volume.

Research from Truvalue Labs shows that the ESG factors that are financially material for companies change over time, rather than remaining static based on industry membership. This data can be rolled up to the portfolio, sector, or country level to understand how material ESG issues evolve in importance within different cohorts through time.

TRUVALUE LABS
A FACTSET Company

Best Independent
House for ESG Research,
Truvalue Labs
WINNER
ESG Investing
Awards 2021

ESG Data Vendor
of the Year, 2021
AsiaRisk
Awards
2021 Winner
ESG data vendor
of the year
FactSet

Best Data Provider –
Alternative Data
Sources, 2020-2021
OPERATIONS
& SERVICES
AWARDS
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SCORES AND SPOTLIGHTS OVERVIEW

Truvalue Labs provides multiple scores to support a full range of investment strategies. Its Insight, Pulse, Momentum, and Volume scores form the foundation of all Truvalue products.

All scores are updated daily. They are provided for each category within the lenses created by Truvalue, including the 26 categories within the SASB materiality framework and 16 UN Sustainable Development Goals.

Insight
Measures a company's longer-term ESG track record, equivalent to an ESG rating. Scores are less sensitive to daily events and reflect the enduring performance record of a company over time.
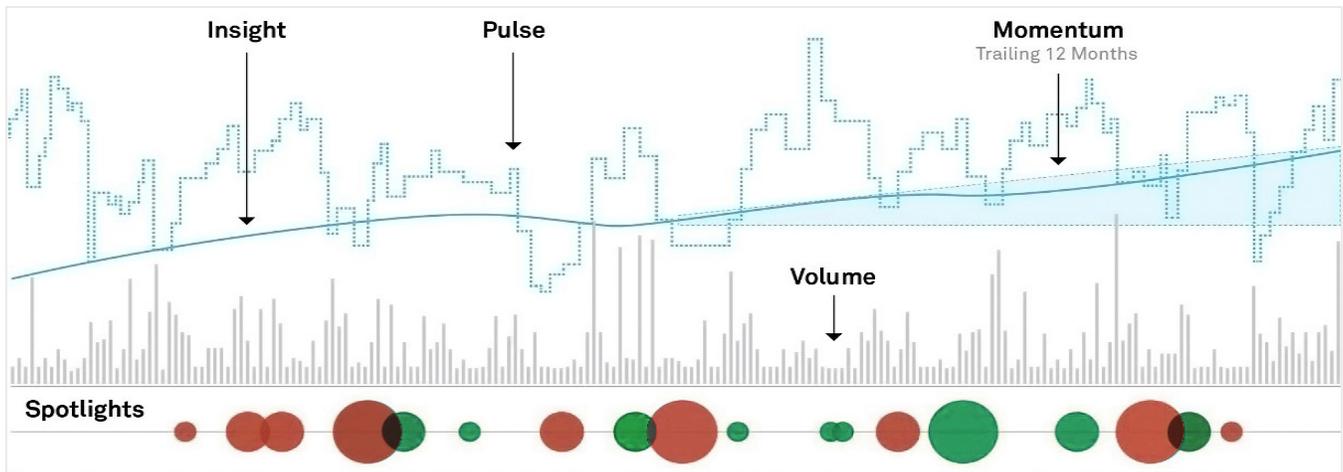
Momentum
Measures the trend of a company's Insight score and is used to identify companies with improving or deteriorating ESG performance.

Pulse
Measures near-term performance changes that respond to news as it happens. It highlights both opportunities and controversies, enabling real-time monitoring of companies.

Volume
Measures the information flow or number of articles about a company over the past 12 months.

SPOTLIGHTS

The Truvalue AI engine detects the most significant positive and negative events through time as defined by SASB and summarizes them through rich, contextualized Spotlights. Leverage unprecedented transparency into ESG events and their sources, topics, and impact magnitude.

Truvalue provides three additional scores that are built off the Insight score and feature broader universe coverage, allowing users to easily identify ESG leaders and laggards.

Adjusted Insight
Measures a company's long-term ESG track record. For low-volume and no-volume companies, the Adjusted Insight score uses a blend of the company's Insight score and the industry median. For medium- or high-volume companies, the Adjusted Insight score is equivalent to the Insight score.

Industry Percentile
Offers context on company-adjusted Insight scores relative to peers in the same Sustainable Industry Classification System (SICS)® industry.

ESG Ranks
Provide the overall company categorical ranking based on its industry percentile used to systematically identify leaders and laggards. The categories are as follows:

| LAGGARD | BELOW AVERAGE | AVERAGE | ABOVE AVERAGE | LEADER |