CarbonVue™

Operational Carbon Accounting & Verification

Real-Time Carbon Intensity Measurement
Auditable Carbon Reporting

Challenge:

As the carbon market continues to mature, organizations require a comprehensive and effective approach to managing a complex web of regulatory, ESG, production standards, credit and offset generation protocols, and reporting requirements.

Solution:

The CarbonVue™ ecosystem provides a "Secure First Mile" methodology, tool kit, and services to establish a cybersecure structured, contextualized, and consistent real-time data hierarchy that seamlessly synchronizes both time-series and event-based data from diverse sources and external APIs. This creates a robust data foundation that serves as the single source for emissions reporting and carbon accounting.

This foundation also provides a Carbon Intensity Monitoring System (CIMS), enabling asset-level monitoring and benchmarking of carbon intensity in real-time.

CarbonVue™ Ecosystem

Manage Regulatory, ESG & Carbon Trading Reporting and Verification

Real-Time Monitoring:

Visualize asset-level monitoring and benchmarking in real-time with easy-to-use dashboards.

Verification Engine:

User interface and tool kit for verification against various standards and jurisdictions.

Data Integrity and Assurance:

Cyber secure, auditable, and quality assurance data foundation to support fiscal auditing.
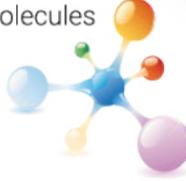
Open Data Architecture:

Consolidate and provide contextualized data to support various applications, reporting tools and third party and stakeholder data requirements.
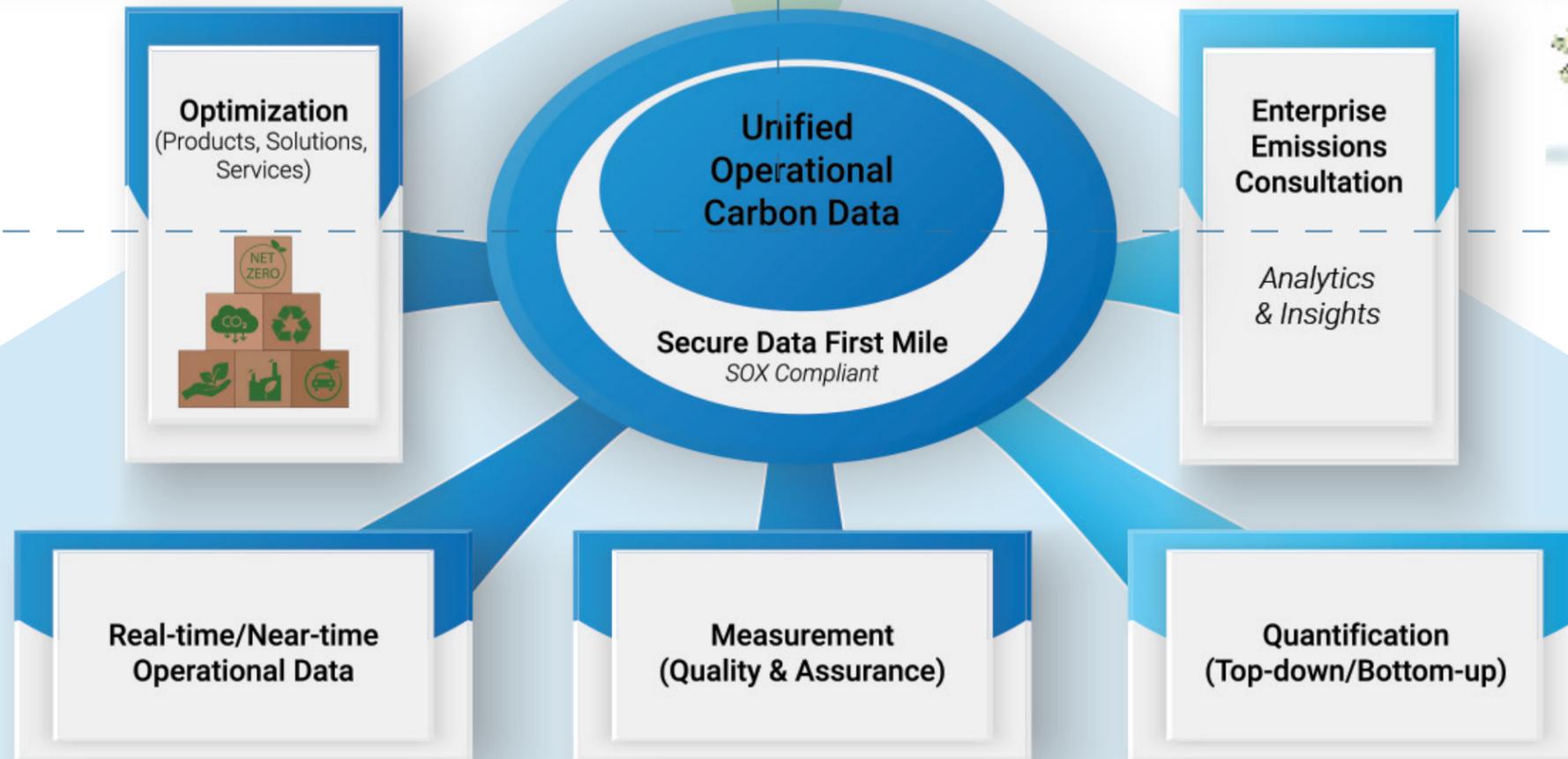
SPARTAN CONTROLS

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CarbonVue™

REGULATORY & SOCIAL

FISCAL & MARKETS

Regulatory Reporting
(Government)
Dir60, CFR, TIER

ESG

Financial & Corporate Reporting

Certification & Offset Validation
(Revenue)
CCUS, CO_2E, EO100, MiQ, CI

Marketing & Logistics
(Contracts & Fulfillment)

Molecules

Corporate & Business Stake Holders (IT)

Operational Stake Holders (OT)

Optimization
(Products, Solutions, Services)

NET ZERO

Unified Operational Carbon Data

Secure Data First Mile
SOX Compliant

Enterprise Emissions Consultation

Analytics & Insights

Money

Real-time/Near-time Operational Data

Measurement
(Quality & Assurance)

Quantification
(Top-down/Bottom-up)

Blue indicates solutions available via Spartan and/or Partners

"Brings production accounting methodologies to operational carbon accounting and verification."

CarbonVue™ Benefits
Creating a Complete Carbon and Sustainability Data Ecosystem

- Secure and Auditable data from source with data integral quality, assurance and integrity
- Open data ecosystem for integration and data exchange with various application and stakeholders
- Verification engine and tool kit to support, streamline and de-risk the MMV (MRV) verification process

Additional Ecosystem elements include:

- CarbonVue™ Verification Engine
  - Emissions and Project Quantification
- Supercritical CO_2 Measurement
- Measurement System Anomaly Detection
- Open Path CO_2 leak detection (Boreal Technology)
- Erosion/Corrosion Monitoring
- Partner Data Portal
- AI/Machine Learning Model Development

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