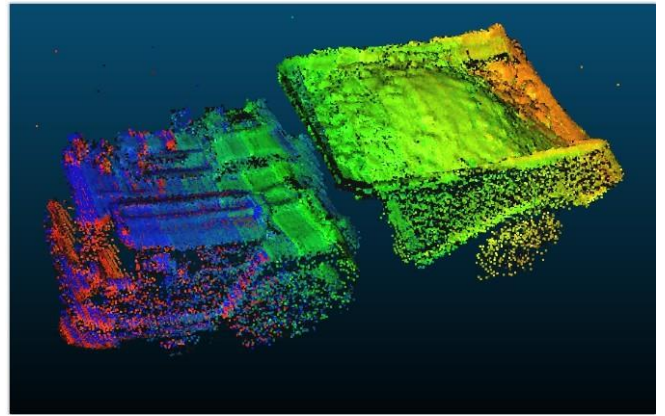


# Do You Know How Much You're **Actually Moving?**

ScanHaul measures every load - in motion, in any weather, with zero disruption.

**KNOW EVERY TON. EVERY TRUCK. EVERY LOAD.**



## Our Solution

ScanHaul is a drive-through LiDAR measurement system. For every vehicle pass, you get:

- **Volume** (yds<sup>3</sup>/m<sup>3</sup>, convertible to tons via configurable specific gravity)
- **Load state** - loaded, partially loaded, empty, or carryback
- **Equipment type** - classified by 3D geometry (no RFID, no GPS, no telemetry)
- **Speed and direction** - derived from scanned data
- **Environmental classification** - snow, atmospheric interference filtered automatically

Results in **less than 3 minutes**. Stored in database with API access, interactive 3D viewers, and processing logs.

## Industries Served

You can't manage what you can't measure.

If you move bulk material and aren't measuring, each truckload is estimated. The gap between what's billed and what's delivered goes unmeasured. ScanHaul brings **per-load accountability**:

Mining    Quarries & Aggregates    Construction    Earthmoving    Industrial    Municipalities

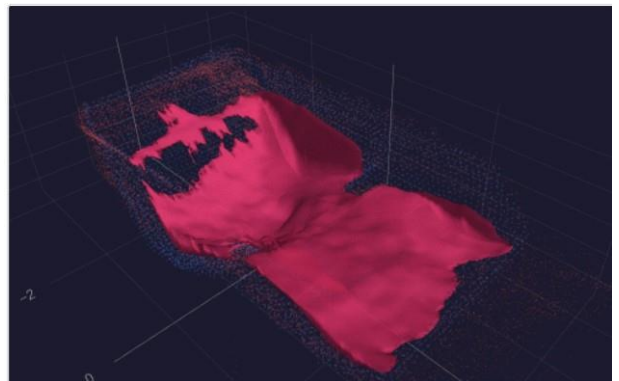
**Added benefits:** ScanHaul captures every vehicle pass, rain or shine, continually building data metrics of equipment idle time, cycle optimization, speed patterns, and weather impacts.

## How It Works

### Drive Through. Get Data.

Mount a compact LiDAR scanner above the haul road. Vehicles drive through at normal speed. Results on your dashboard in less than 3 minutes.

Equipment Details	Environment	Load
Travel direction	Snowing?	Loaded
Speed	Clear?	Carryback
Equipment type	Raining?	Empty



*Dome mesh volume calculation -per-load measurement*

**Volume in yds<sup>3</sup>/m<sup>3</sup>** - for every scan, for each equipment type.

Single MEMS LiDAR sensor+ physics-based processing. No multi-sensor arrays, no camera inference, no guesswork. **One sensor. Real 3D geometry**

But measurement is just the starting point. Each vehicle pass compiles a historical representation of your operation - rich with metadata: weather, equipment types, load states, speeds, directions. Over time, this becomes the foundation for optimization of your payloads revealing productivity swings, bottlenecks, and maximizing types of equipment to location features.

Invest early. The data compounds.

When you're ready to ask harder questions - why does productivity drop in winter? Which equipment types carry more? Where are the bottlenecks? - the data foundation is already there.

ScanHaul today: physics-based measurement.

ScanHaul tomorrow: the Physical AI foundation for your operation.



Compact MEMS LiDAR - single sensor

## Equipment Classification

**1**

### Reference Scan

Collect a 3D scan of each equipment type on Day 1

**2**

### Auto-Match

Every vehicle is automatically classified from then on

**3**

### Expand

Add new equipment types on demand - no downtime

**Need to identify individual units?** Add any labeling system (RFID, camera, dispatch) - each piece of equipment gets tagged and tracked individually.

## Proven in the Field

**16,000+**

SESSIONS

**-37°C**

MIN TEMPERATURE

<b>Environment</b>	Sub-Arctic - snow, fog, dust
<b>Max Speed</b>	35 km/h through portal
<b>Processing</b>	<3 minutes per
<b>Maintenance</b>	Zero (1+ year deployed)
<b>Lighting</b>	Works in any lighting



Surface scanner installation - North Portal

## Ready to know what every truck carries?

Distributed by:



Genesis Factor, LLC  
704 S SR 135 Suite D #295  
Greenwood, Indiana 46143  
(317) 496-0763

[www.mobilespector.com](http://www.mobilespector.com) | [paul.sanders@mobilespector.com](mailto:paul.sanders@mobilespector.com)