emite
A PROPHECY SOLUTION

Single Source of Truth Diagnostic

Assess Your Data Foundations for Reliable Analytics and AI

Many organisations believe they have a **data strategy**.

But when operational decisions are made, teams often discover that different systems report different numbers.

- Customer metrics differ between CRM and finance.
- Operational dashboards disagree with reporting tools.
- AI models are trained on inconsistent datasets.

The root cause is rarely analytics.

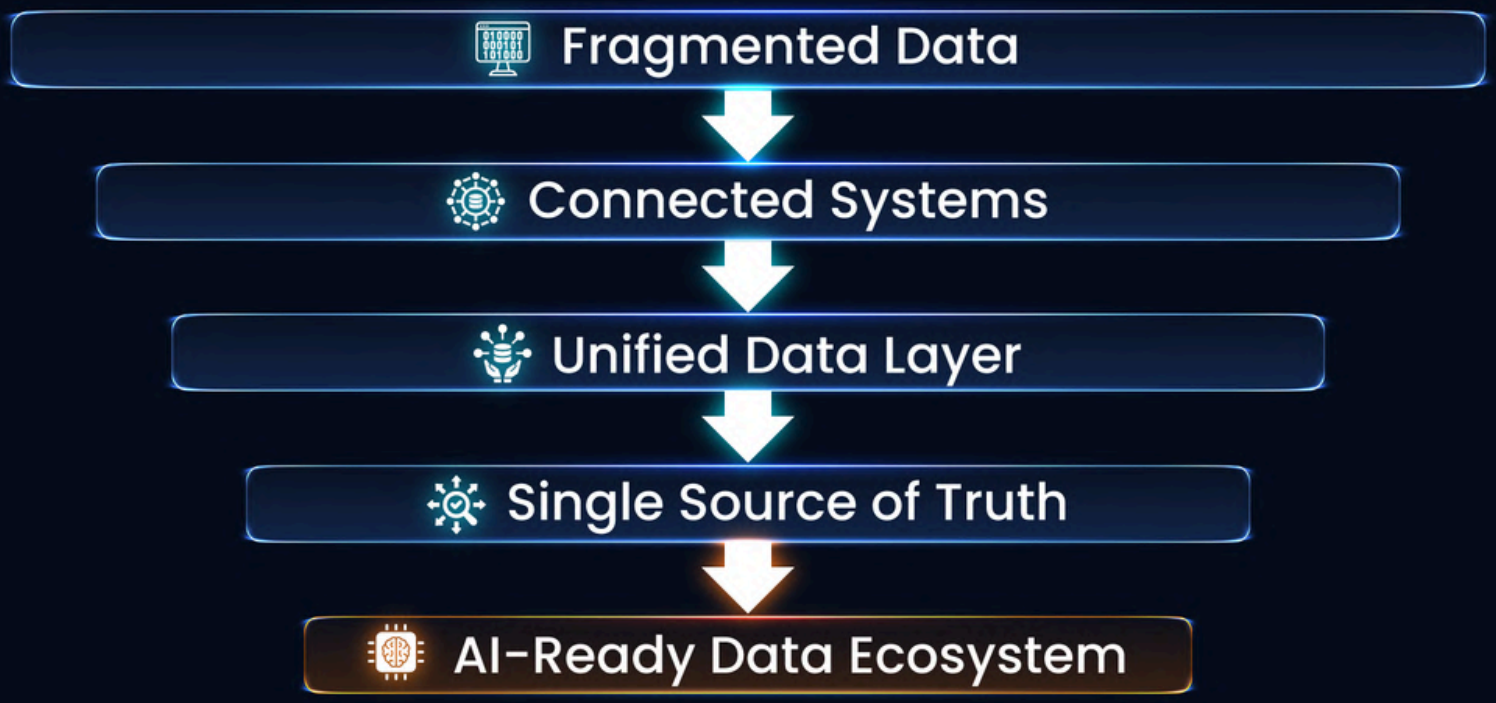
It is usually **data integration and governance.**

This diagnostic helps organisations evaluate whether their current data ecosystem is capable of supporting **a trusted single source of truth.**

How to Use This Diagnostic

Rate each statement from 1 to 5.

Score	Meaning
1	Not in place
2	Early stage
3	Partially implemented
4	Mostly implemented
5	Fully implemented



Data Integration

Goal: Evaluate whether the organisation shares common data definitions.

Question	Score
We can integrate new data sources quickly without custom engineering.	_
Our systems connect using APIs, event streams, or standard connectors.	_
Integration pipelines are managed centrally rather than system-to-system.	_
SaaS applications and cloud data sources are integrated into our analytics ecosystem.	_
We can ingest both batch and real-time data streams.	_

Section Score: **/ 25**

Data Consistency

Goal: Determine how effectively your systems are connected.

Question	Score
Different departments use consistent definitions for key metrics.	_
Customer records are synchronised across operational systems.	_
Reports generated from different analytics tools produce consistent numbers.	_
Data duplication across systems is minimal.	_
There is a documented definition for critical business metrics.	_

Section Score: / 25

Data Timeliness

Goal: Assess how quickly insights become available.

Question	Score
Operational data is available in near real time.	_
Business decisions do not rely solely on overnight batch reports.	_
Operational teams can monitor performance continuously.	_
Data pipelines update frequently enough to support operational decision-making.	_
Incident or performance anomalies can be detected quickly.	_

Section Score: / 25

Data Governance

Goal: Measure visibility and accountability across the data ecosystem.

Question	Score
We can trace where our data originated and how it was transformed.	_
Data ownership is clearly defined across the organisation.	_
Data quality monitoring exists for critical datasets.	_
Compliance and audit requirements are embedded in our data architecture.	_
There is a clear process for resolving data discrepancies.	_

Section Score: / 25

AI Readiness

Goal: Evaluate whether your data environment can support reliable AI outcomes.

Question	Score
AI models are trained on well-governed datasets.	_
Data pipelines feeding AI models are monitored for anomalies.	_
We can trace the source of data used in AI recommendations.	_
There are safeguards against incomplete or inconsistent training data.	_
Our AI strategy includes governance for model drift and hallucination risks.	_

Section Score: / 25

Total Score

Maximum Score: **125**

Add your section scores.

Your Score: / 125

Your Decision Velocity Profile

100–125 Points

AI-Ready Data Ecosystem

Your organisation has strong integration foundations and governance practices.

You likely operate with a reliable single source of truth capable of supporting advanced analytics and AI.

Focus areas:

- decision automation
- AI optimisation
- advanced operational intelligence

75–99 Points

Integrated but Still Evolving

Your organisation has made significant progress in integrating data systems but may still rely on manual pipelines or fragmented reporting layers.

Focus areas:

- integration standardisation
- real-time data pipelines
- improved governance visibility

Your Decision Velocity Profile

50–74

Fragmented Data Environment

Multiple systems likely operate independently, leading to inconsistent reporting and limited operational visibility.

Focus areas:

- integration architecture
- unified data pipelines
- consistent metric definitions

Below 50

High Risk for AI Initiatives

Your organisation likely lacks a reliable single source of truth.
AI initiatives built on this foundation may produce unreliable outcomes.

Focus areas:

- integration platform strategy
- data governance frameworks
- operational data architecture

Key Insight

Most organisations discover that the biggest barrier to reliable analytics and AI is not the analytics platform itself.

It is the **lack of integration architecture capable of creating a trusted data foundation.**

Recommended Next Step

Modern data ecosystems increasingly rely on **integration platforms** capable of connecting cloud systems, APIs, operational platforms, and event streams into a unified data layer.

This is where **Integration Platform as a Service (iPaaS)** solutions play a critical role.

They allow organisations to move from fragmented data environments to a **trusted operational single source of truth.**

Explore How Modern iPaaS Platforms Enable a Single Source of Truth

Discover how organisations are using **integration platforms** to connect systems, standardise data pipelines, and power reliable analytics and AI outcomes.

Learn more about emite Advanced iPaaS