XBRL®
THE BUSINESS REPORTING STANDARD

Collaborate | Advocate | Standardise

Some Key Developments

- **Project Tavi,**
- **Digital Signatures in XBRL**
- **What Happens When ESAP arrives?**
- **XBRL and Transactional Data**

XBRL Sweden Conference

John Turner

@xbrlint

dataamplified

Home Dinner Travel REGISTER

Don't miss the Early Bird Discount ~~ending 31 July!~~ EXTENDED to August 31!

THE HAGUE

Data Amplified 2026 | 26-27 October

Modernisation

Project Tavi

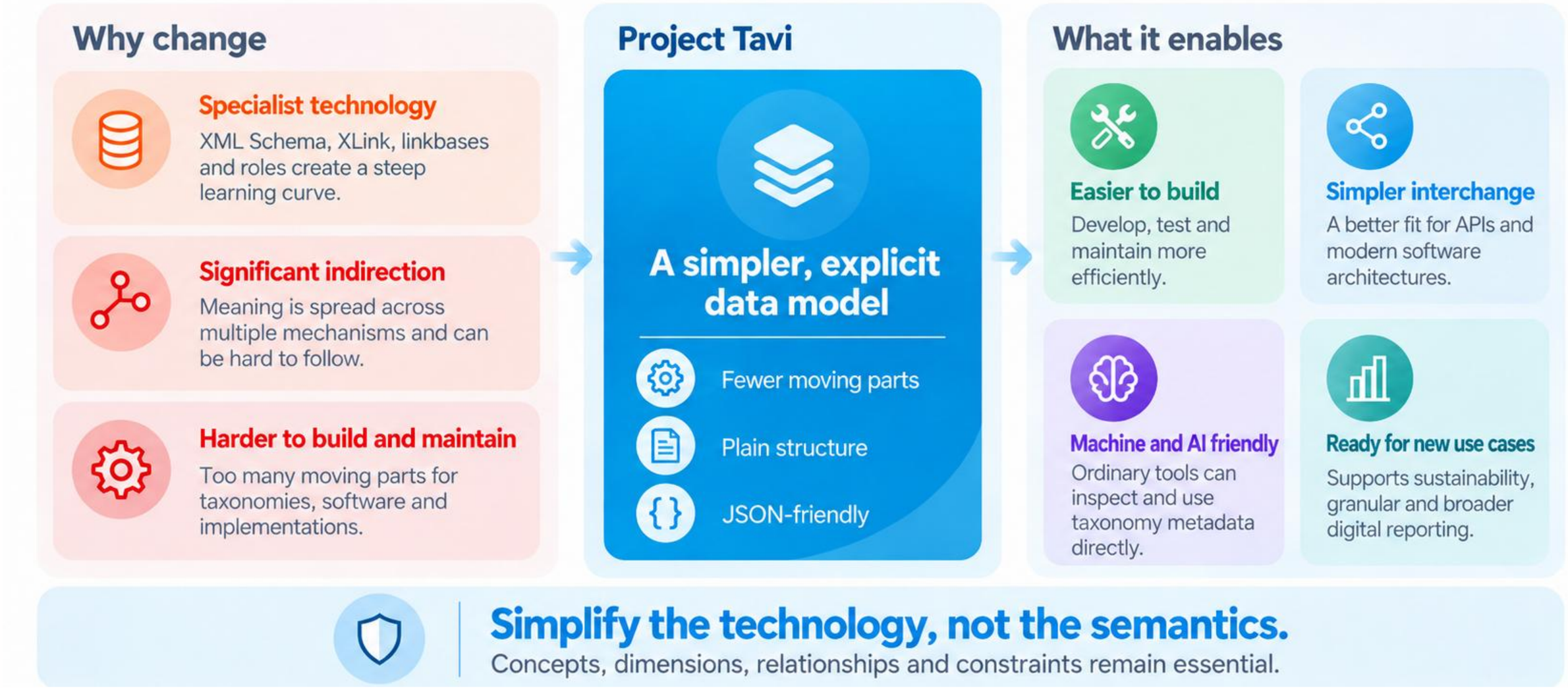
“Project Tavi??”

A First Public Working Draft is now available

- The draft of the next generation specification has been published, with the approval of the XBRL Standards Board.
- “Project Tavi” is a working name only. Stay tuned.
- This is an early draft. The scope will narrow and requirements can and will be solidified.
- The first comments are due in three weeks, but there will be another PWD before long.

Comments welcome at oim-feedback@xbrl.org

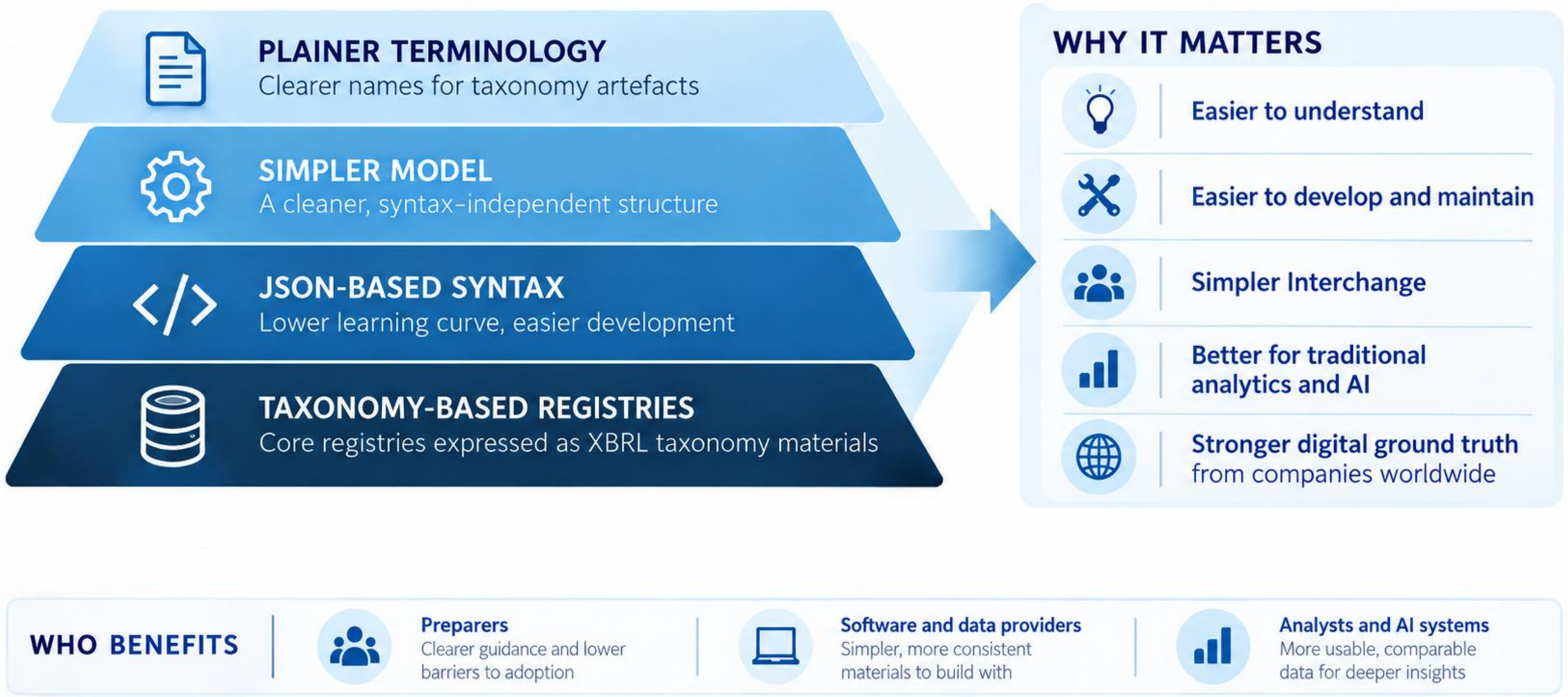
Why simplify and modernise the XBRL 2.1 Stack?



* The initial work is not yet syntax neutral. The project will ensure that XBRL is syntax neutral… eventually!

Project Tavi – High Level Goals

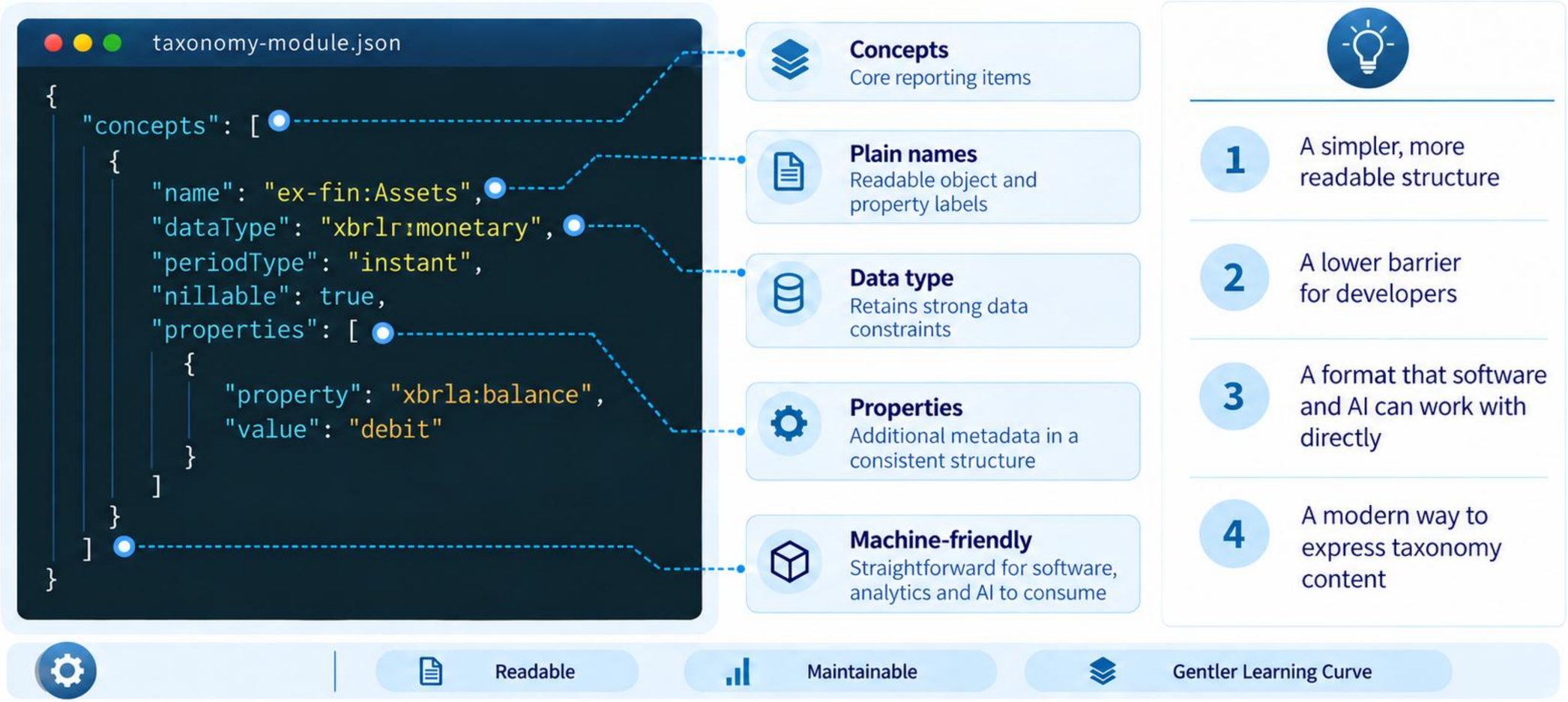
Modernising and simplifying XBRL



* JSON for now… other syntax in the future

Project Tavi

A JSON first* representation of a taxonomy

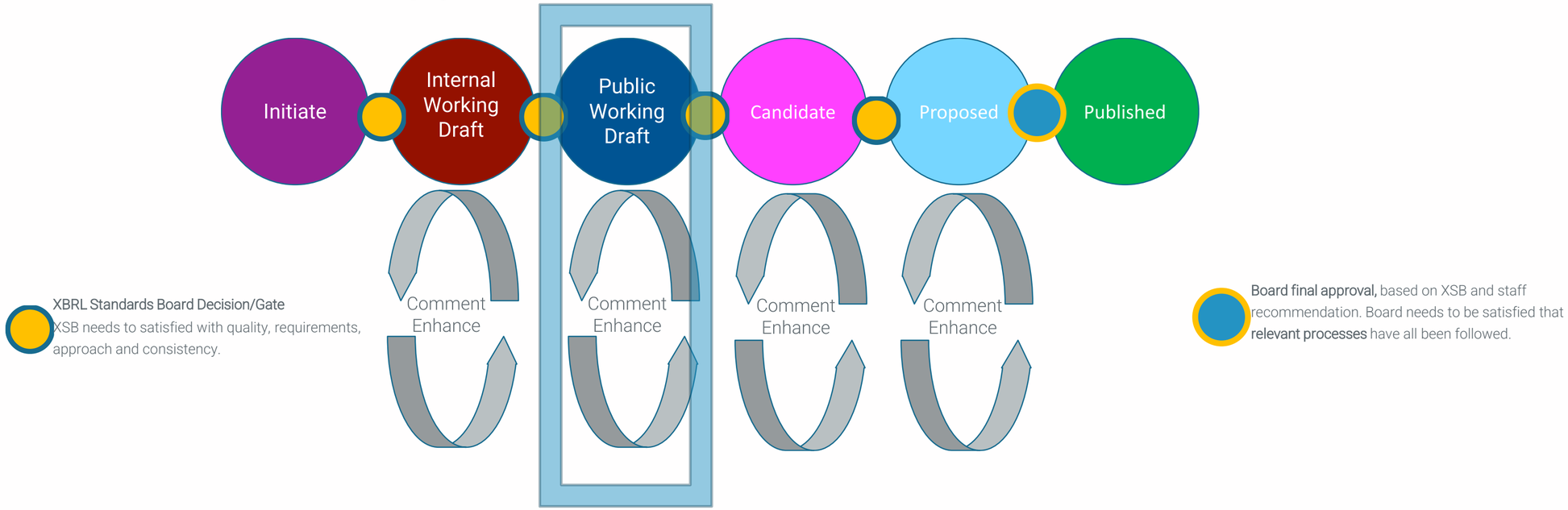


* The initial work is not yet syntax neutral. The project will ensure that XBRL is syntax neutral… eventually!

What has not changed

XBRL 2.1 is not being deprecated

- Existing taxonomies and filings remain valid. There is no migration deadline.
- Vendors are strongly advised to wait for Candidate Recommendation before investing.

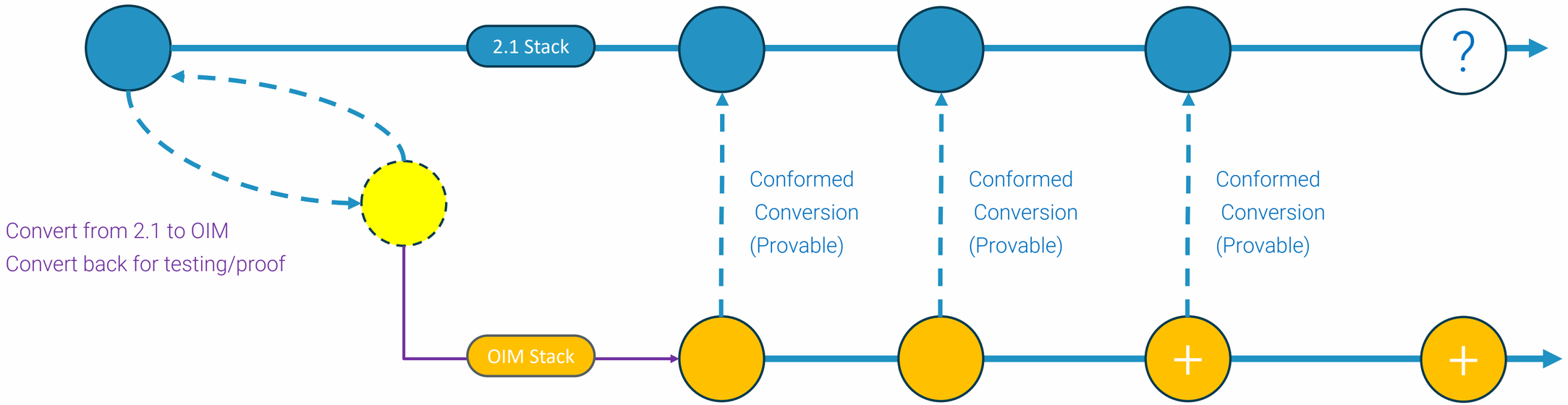


- *We are at Public Working Draft Number 1. Quite a lot will likely change.*

Not too early to think about transition

Eventually the standards setter will be able to stop producing the 2.1 artefacts although profile/conversion mechanism will mean market/jurisdictions can continue to generate 2.1 from OIM.

How might a regulator/standards setter work with the new specifications?



Initial release of OIM Taxonomy
(Must use – or contain 2.1 profile)

At some point additional OIM capabilities mean that 2.1 Taxonomy will be a subset of the OIM version)

AI & XBRL

Friends not Foes

NVIDIA GTC

March 2026

Keynote

What does this mean for XBRL?

Structured data is enabling infrastructure for the technology everyone is focused on.

AI ON UNSTRUCTURED PDF / HTML

~76%

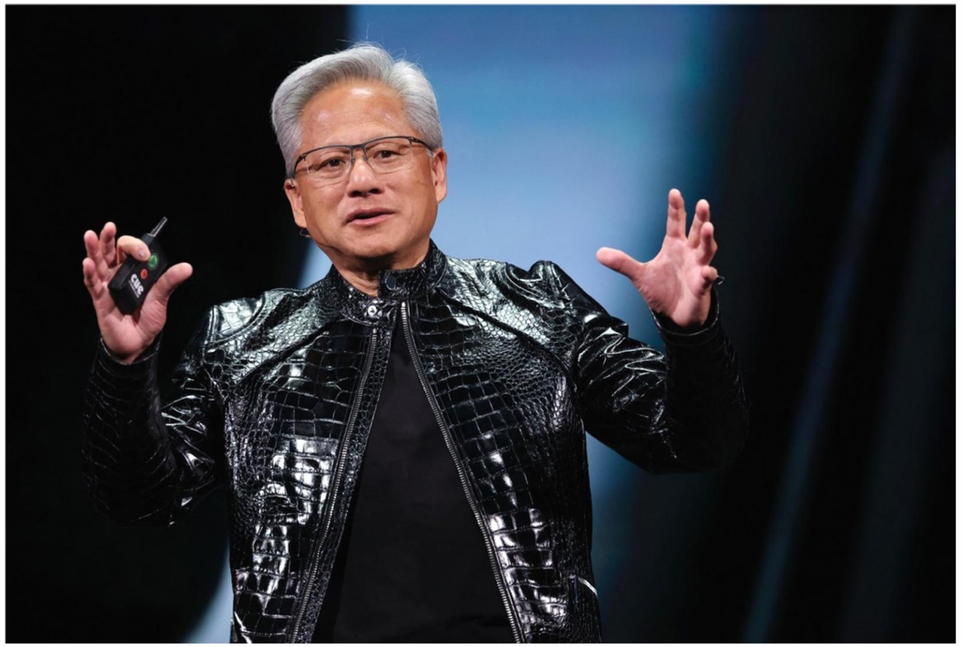
accuracy on key data point extraction
from a single filing

AI ON TAGGED / STRUCTURED XBRL

~99%

accuracy on the same data points
when retrieved from structured tags

Wang et al arXiv:2505.20650



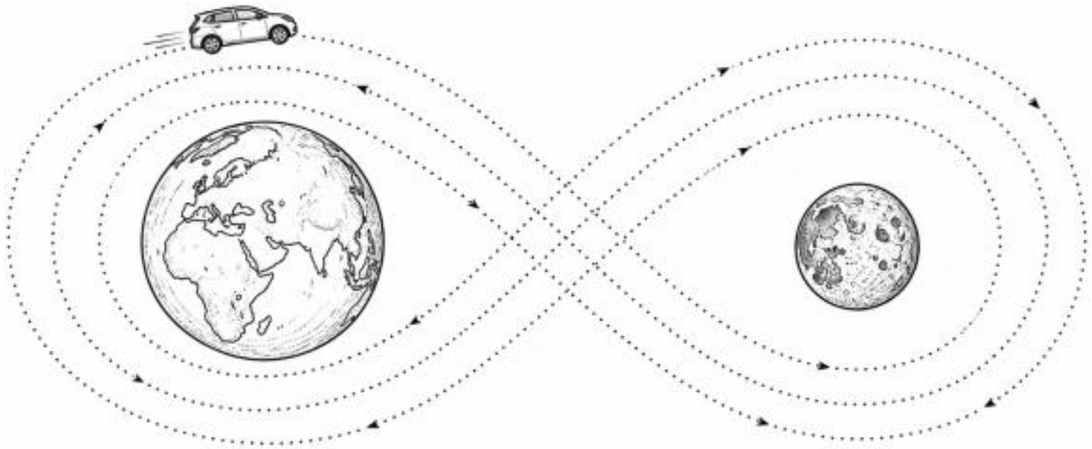
Is Nvidia suddenly an advocate for standards bodies?

No. Better to read this as a hardware economics argument.

Unstructured inputs are an inefficient consumer of AI compute. They don't create reliable, high-quality inputs for high-end AI analysis.

Huang's argument is AI only reaches regulated, high-stakes enterprise workloads *if its inputs are trustworthy*. He's pushing for higher quality inputs in order to optimize AI outcomes: Nvidia needs the productivity pop in order to create the demand for its hardware.

Structured data is a key input for AI capex.



But… don’t drive to the Moon!

If investors, analysts, data providers, NGOs and consultants **use AI** to turn unstructured disclosures into their *own* versions of structured information, they **waste millions of kWh** every year.

One management-verified, taxonomy-aligned **digital report** can serve the whole market **instead** of thousands of independent guesses.

UK sustainability PDFs alone could mean the AI-energy equivalent of **driving a VW ID.4 to the moon and back**; add Europe and the number becomes absurd.

Don’t drive to the moon – tag your data.

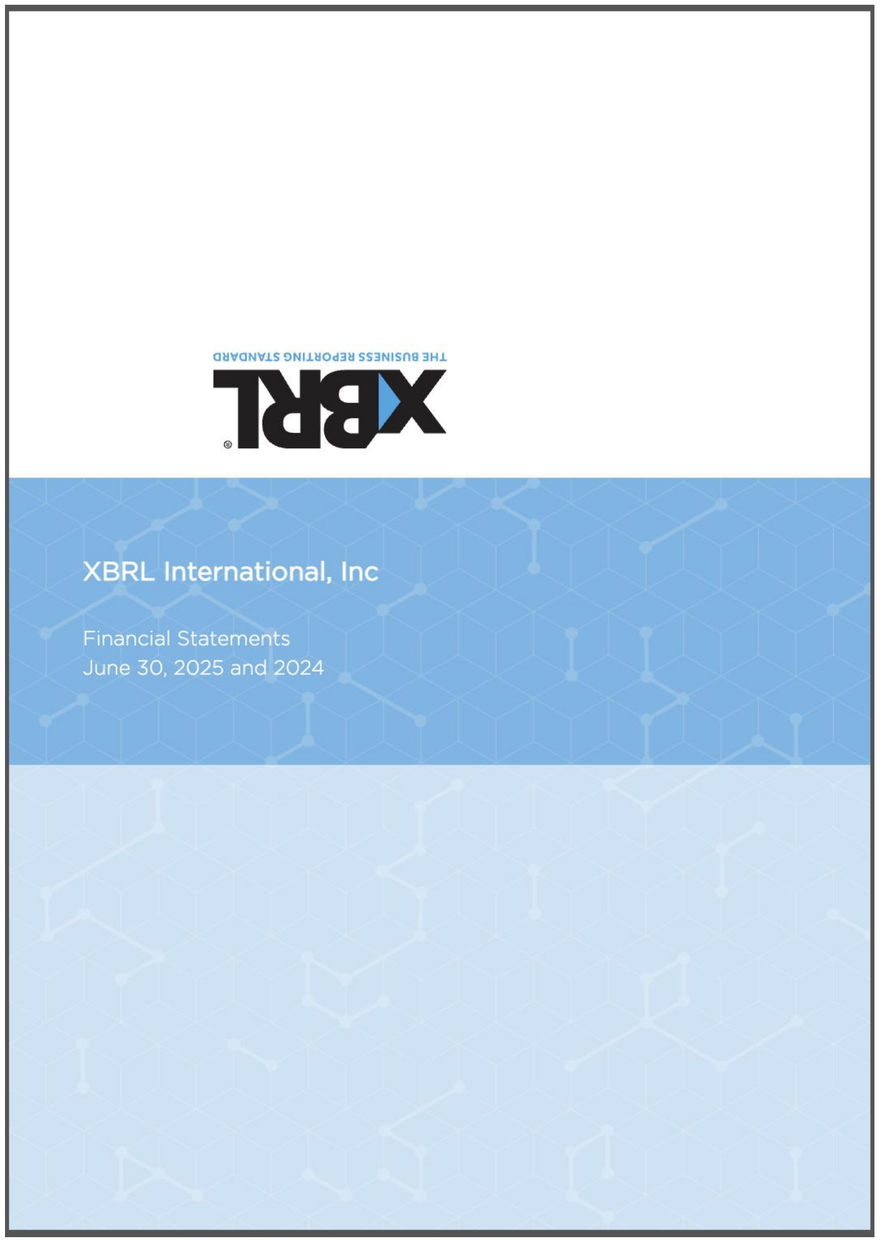
Cybersecurity and Reporting

Please don’t wait!

Agent of Chaos?

Great Marketing?

Either way – no excuses.



Bruce Schneier is right… it's not (just) that frontier models appear to accelerate the discovery of new software vulnerabilities.

It's that these tools will be able to accelerate the discovery of loopholes, of unintended consequences and new approaches to legal "hacks" of all kinds of complex systems. Like the tax code. Or regulatory capital requirements.

BUT – it's also that they are phenomenally good at making convincing changes to documents of all kinds… and at orchestrating phishing.

Therefore…

See: How dangerous is Anthropic's Mythos AI?

Think the unthinkable

Sophisticated cyber attacks on regulatory systems previously required extraordinarily skill. No longer.

Securities Fraud

Snr Mgmt Fraud

arelle

D6 Signatures

Details Close

Valid (2) Invalid (0) Revoked (0)

2 of 2 signature(s) shown

JB **Joanne Boss** Valid

Entire Report < 1/1 >

EA **Example Auditor** Valid

Section(s) < 1/1 >

D6 Signatures

Details Close

Valid (0) Invalid (3) Revoked (0)

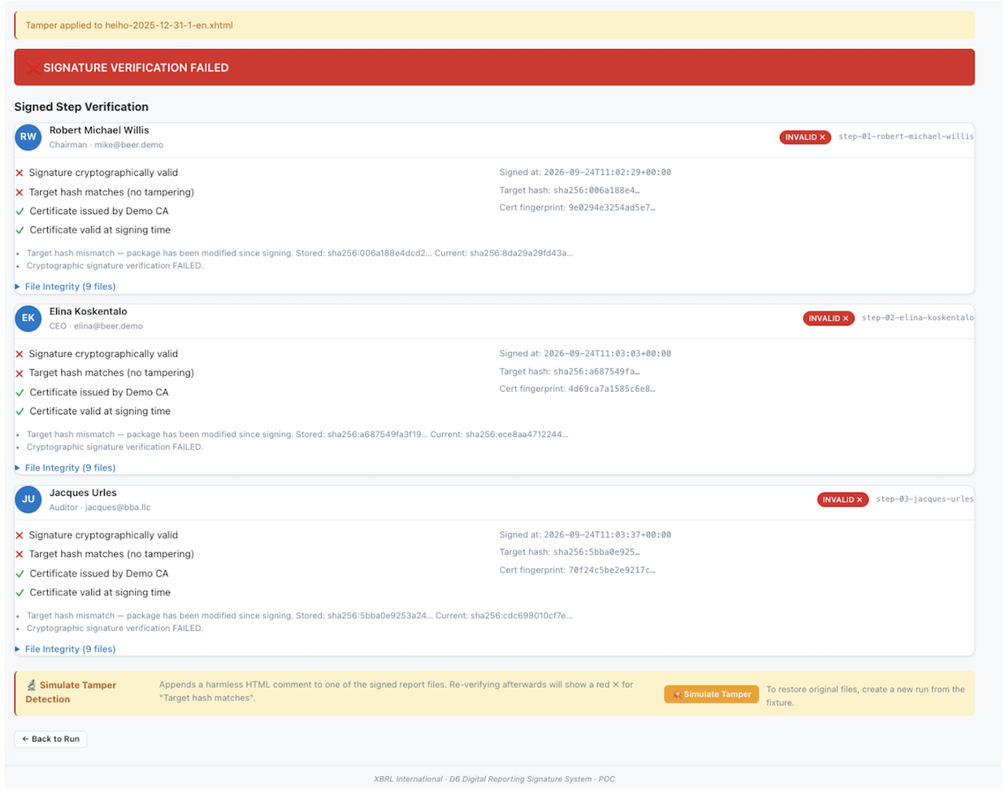
3 of 3 signature(s) shown

JB Joanne Boss — Invalid
Entire Report < 1/1 >

EA Example Auditor — Invalid
Section(s) < 1/1 >

JR Juris Reviewer — Invalid
Facts < 1/2 >

Live demonstration of Digital Signature Orchestration



Next Best Actions?

1. Think the unthinkable.
2. Crack digital identity for regulated actors.
3. Implement Digital Signatures for XBRL (D6)!

What happens when ESAP arrives?

What's possible? Access. Utility. Enhanced Analysis.

ESAP

EU-wide accessible digital reports

- Cross-border public access
- Large report corpus
- Reports plus extension taxonomies

Project Tavi

Explicit, machine-friendly taxonomy meaning

- Inspect extensions more easily
- Understand labels and definitions
- Use relationships and dimensions
- Work with issuer-specific semantics

What users can do

More data in models
Use more of the financial statements, not just headline fields.

Understand extensions
Interpret issuer-specific concepts more automatically.

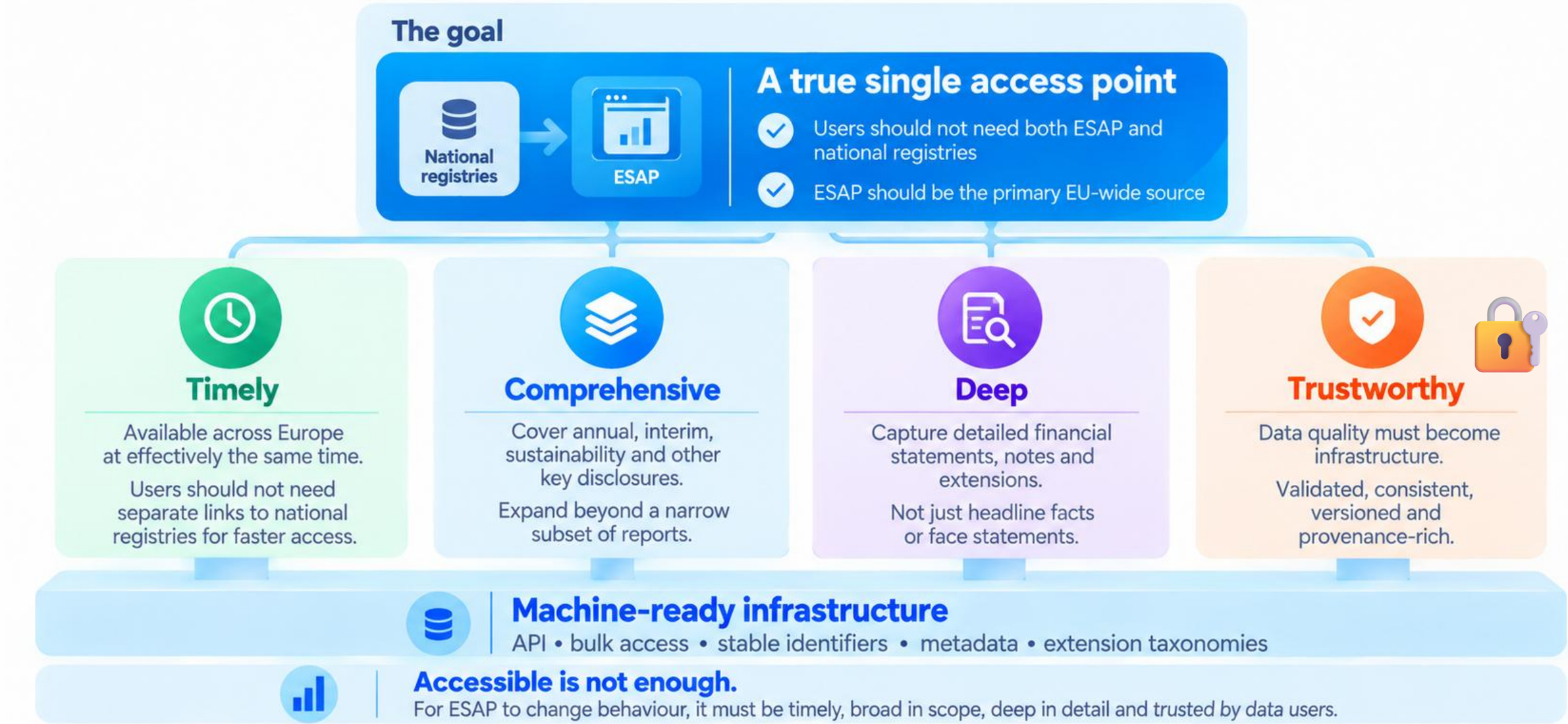
Compare across issuers
Bring together similar meanings expressed differently.

Discover new signals
Spot patterns in extensions, dimensions and disclosures.

AI analysis with provenance
Trace outputs back to facts, metadata and source reports.

Extensions become analytical information.
ESAP provides access. Tavi makes far more of the meaning usable.

BUT… What needs to happen to fulfil that potential?



Transactional Data
Has the time for XBRL GL 2.0 arrived?

Well… we hope to find out.

Moving beyond the old GL model…

We could do the obvious:

Ledger export
Move journals and balances from one system to another.

Accounting-only
Primarily focused on bookkeeping and finance functions.

One system to another
A point-to-point exchange between specific applications.

A technical modernisation
The old GL, rebuilt in newer technology.

Useful, but narrow
This helps, but it does not address the wider data interchange problem.

Instead, think in terms of semantics

Business activity and transaction data
Orders, invoices, payments, journals and related business events.

Accounting plus operational context
Amounts, counterparties, documents, products, references and timing.

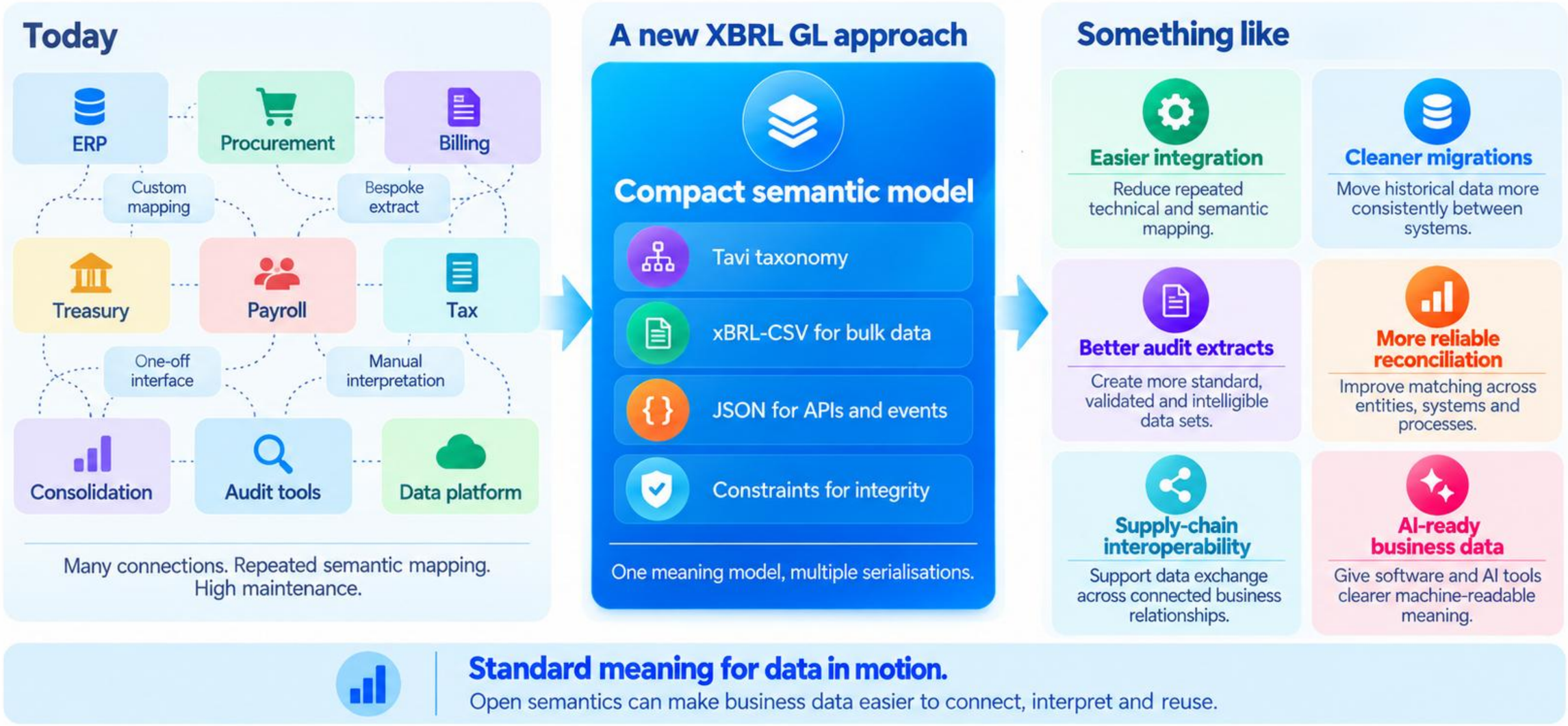
Interchange across many systems
ERP, tax, treasury, consolidation, audit, analytics and supply chains.

A common semantic layer
Standard meaning for data moving through APIs, files and platforms.

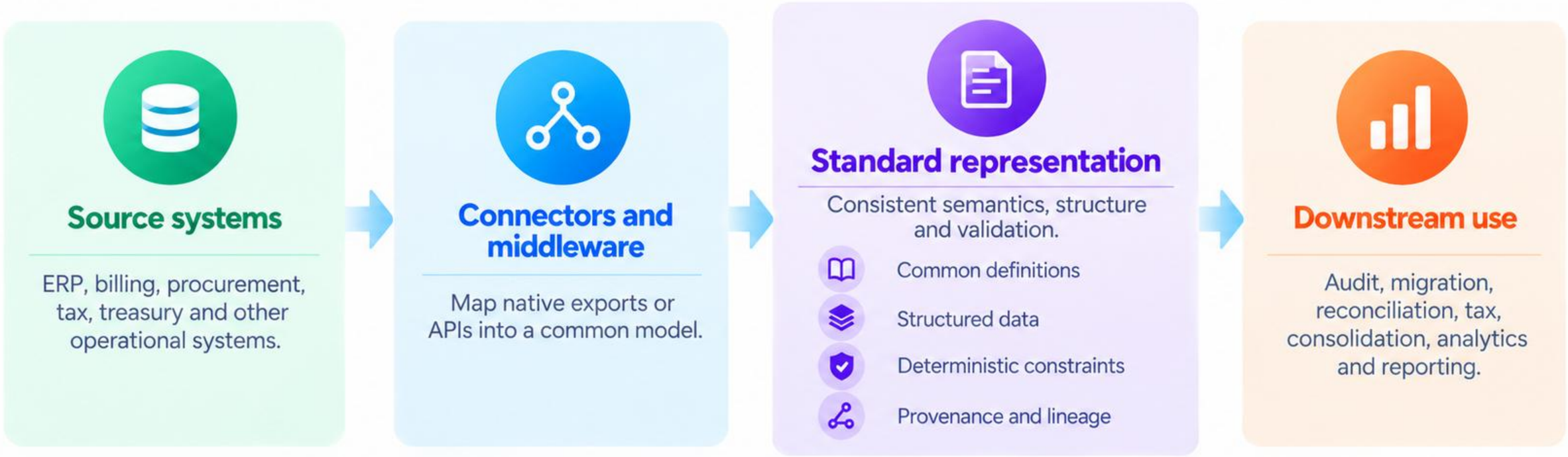
A much bigger prize
Trusted, interoperable business data, not just a modernised ledger extract.

This is about making business data easier to exchange, understand and trust.

Creating standardised meaning



Something like…



The Regulatory Playbook

https://playbook.xbrl.org

The XBRL Regulatory Playbook

Building regulators' capacity to run digital reporting programmes

30+ articles | **5** modules | nearly **350** pages

Guidance for regulators from first readiness questions, through design decisions, to running a programme day to day.

01 Introduction

What XBRL is, and why it matters now

02 Business Decisions

Format, extensions, support for small preparers

03 Ecosystem Development

Engaging vendors, auditors and reporting entities

04 Technical Aspects

Building or reusing a taxonomy, and how long it takes

05 Data, Storage & Analysis

Collection, storage, republishing and use

For teams starting a programme, and for onboarding people joining existing projects, including for sustainability reporting.

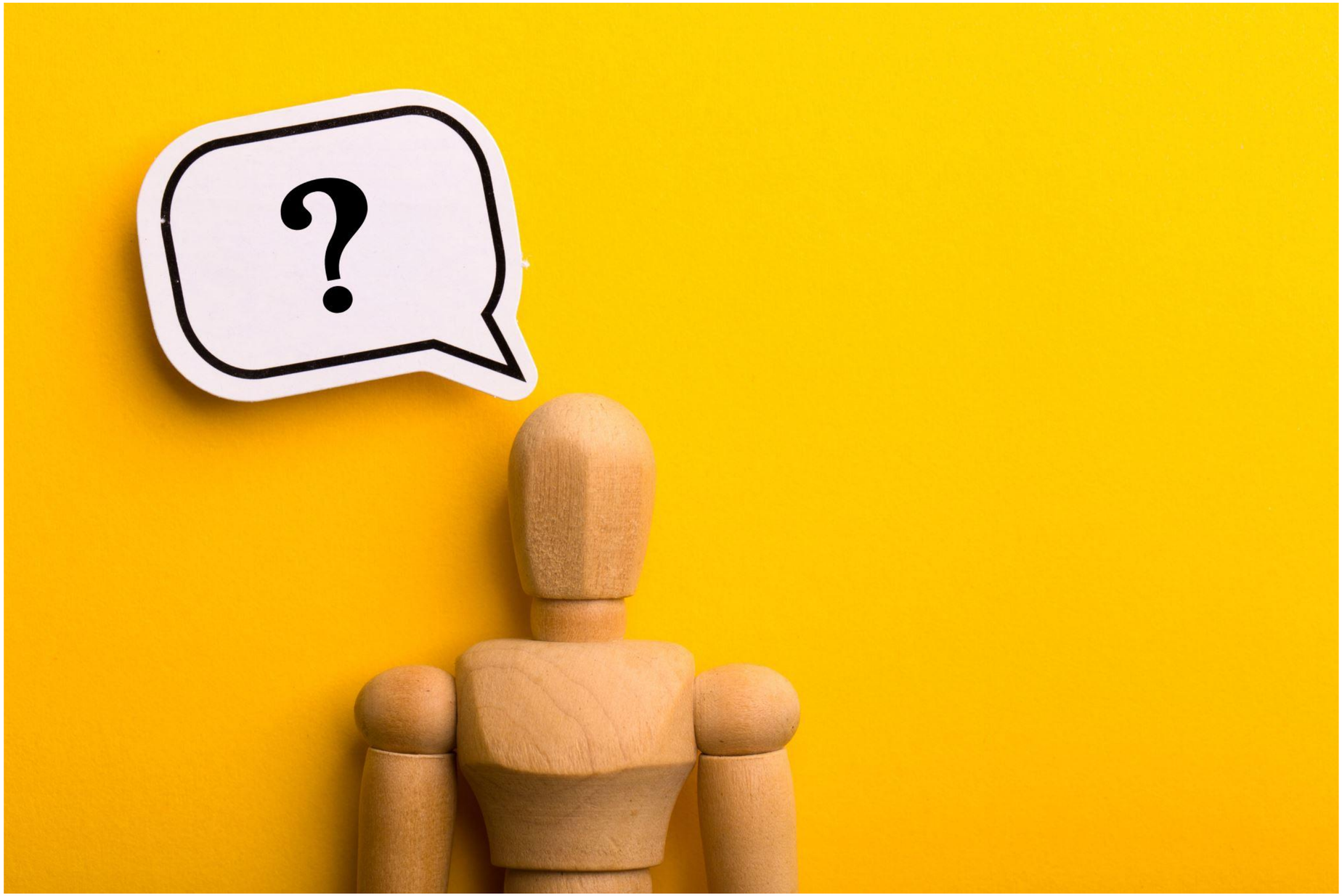
dataamplified

Home Dinner Travel REGISTER

Don't miss the Early Bird Discount ~~ending 31 July!~~ EXTENDED to August 31!

THE HAGUE

Data Amplified 2026 | 26-27 October



Our purpose is to improve the accountability and transparency of business performance globally, by providing the open data exchange standard for business reporting.

Our standards are freely licensed. We operate in the public interest as a not-for-profit standards development organisation.

Join Us!

https://www.xbrl.org

Legal Notices

The information contained in this presentation represents the opinions of the speaker and may not represent the views of XBRL International, the Board of XBRL International or the consensus opinions of the XBRL Standards Board or Best Practices Board. Nothing in this presentation should be taken to be investment advice and all data representations are merely indicative. The reader should note that only XBRL Specifications that have reached Recommendation status are considered final and suitable for use in software and mission critical systems and must then be used in line with the XBRL International License Agreement. XBRL®, Inline XBRL™, Table Linkbase™ and the XBRL mark are Registered Trademarks or Trademarks of XBRL International Inc in the European Union, United States, China, Japan, India and internationally and may not be used without the permission of XBRL International, Inc including through its Trademark policies and agreements.

Copyright © 2001-2026 XBRL International Inc. All rights reserved. No part of this presentation file may be reproduced in any form or by any means without written permission from XBRL International Inc.