20 YEARS ANNIVERSARY

# Be Informed Platform and Product Update



**Wijnand Brouwer**
Director of Product Development

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# Be Informed makes a complexity executable without losing control

## AROUND THE KNOWLEDGE WORKER

- Legislation
- Policy & regulation
- Business stakeholders
- Security & audit demands
- AI

## THE CLEAR PATH: FROM SOURCE TO CONTROLLED EXECUTION

| Sources | Trusted models | Design | Execution | Enterprise landscape |
|---|---|---|---|---|
| Legislation, policy and business intent, captured at origin with full traceability. | Interpreted into validated, machine-readable models — one shared source of truth. | Models become the design: rules, decisions, cases and tasks. | Design becomes reliable, explainable operational behaviour. | Executed across data, APIs, legacy and cloud — under control. |

## AND ACROSS THE IT ESTATE

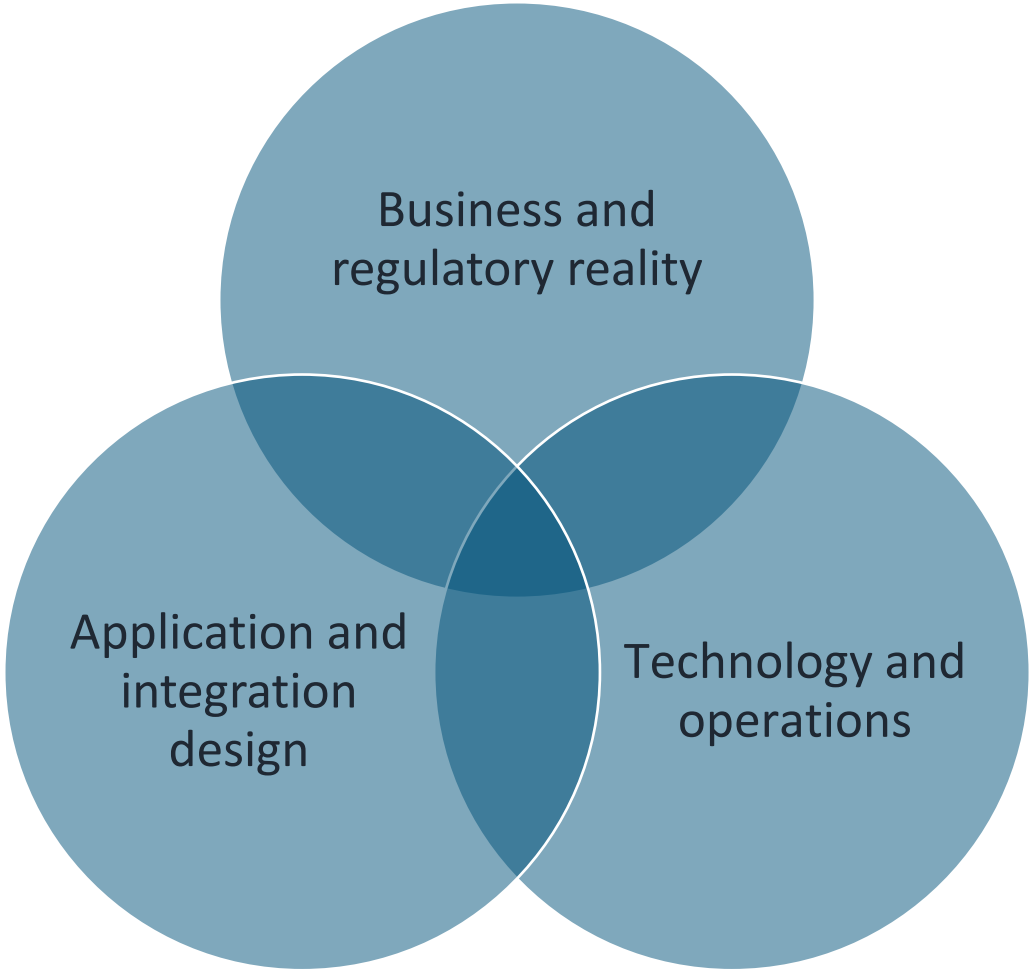
- Data
- APIs
- Legacy systems
- Cloud services
- Integration & channels

**AMS is where design becomes reliable operational behaviour.**

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# Specialists connect the realities that drive the enterprise



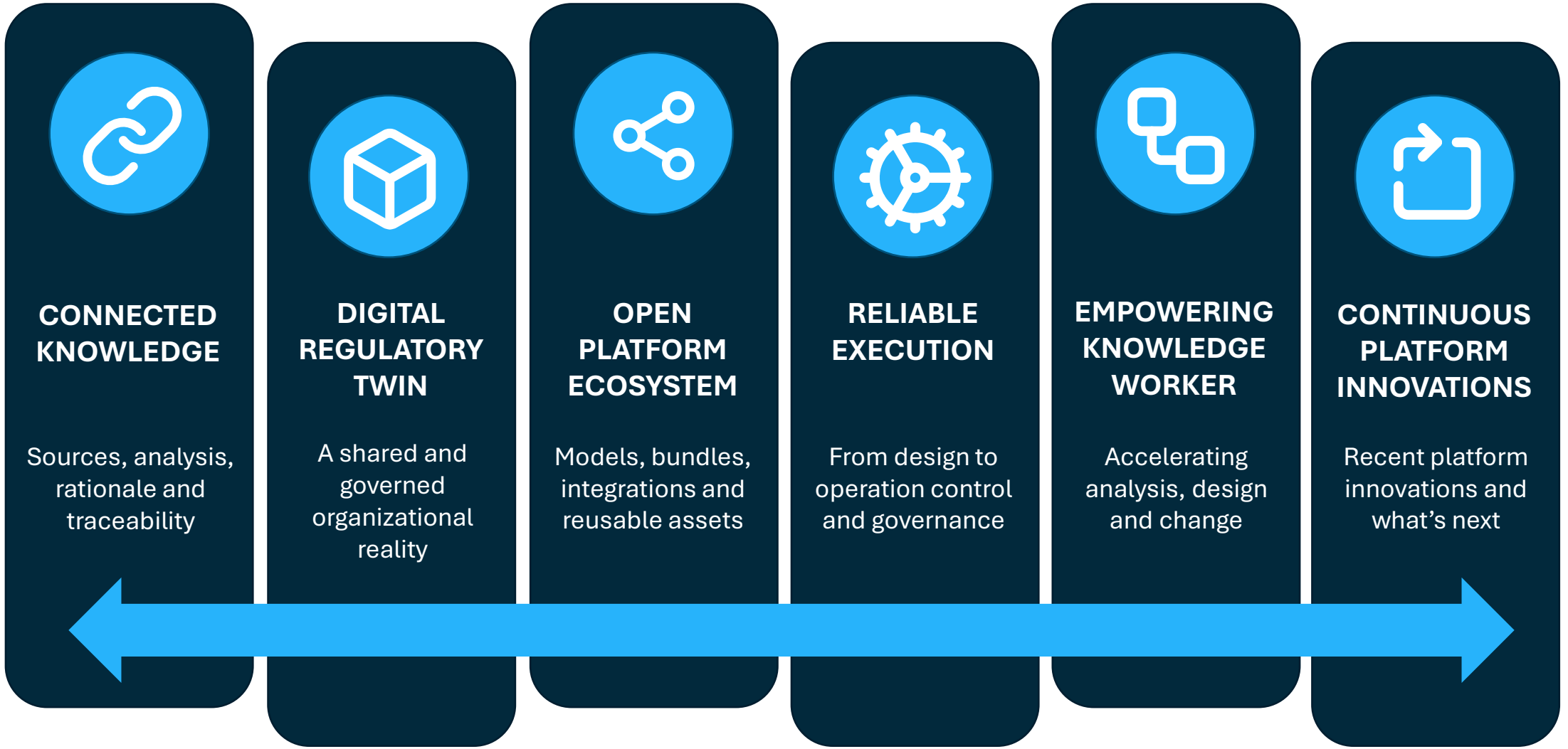

"The value of the knowledge worker is not that they only configure behavior handlers.

The value is that they understand why the solution behaves as it does, how it supports the business and how it fits into the surrounding architecture."

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# How Be Informed turns complexity into controlled execution




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# How the platform is evolving

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# Supporting the knowledge worker

**Application**
Solutions in operation, delivered to customers

**Executable instruments and behavior**
Where models become reliable operational behavior

**Models and Digital Regulatory Twin**
Validated, traceable models as the shared source of truth

**Sources**
Legislation, policy and business intent, captured at origin

| Workbench | Business Modeling Studio | Application Modeling Studio | Runtime |
|---|---|---|---|
| Work management<br>Annotate regulations<br>Interpret regulations<br>Discuss & review | Define components<br>Design processes<br>Relate and detail<br>Test business rules | Detail behavior<br>Configure integrations<br>Preview behavior<br>Test behavior | Run model-driven applications<br>Automatic audit trail<br>Secure<br>Robust |

**Documentation portal**
Publish interpretations
Collect feedback

> “What changes is how easily models can be created, connected, reviewed and reused. What remains essential is the controlled transformation of those models into operational solutions.”

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# Trend transforming from monolith to application modules

## Monolith application

One large application, delivered and changed as a whole

## Application modules

### Request product
Customer-facing intake; consumes register services

### Process product request
Assessment and decisioning; provides case services

### Product register
System of record; provides product data services

### Customer register
Shared customer data, reused by every module

### Module-to-module integration
Provided and consumed services, connected through integration adapters.

### One login across modules
OIDC-based authentication gives single sign-on across all modules.

### Open to the landscape
Other Be Informed modules and external systems and services connect the same way.

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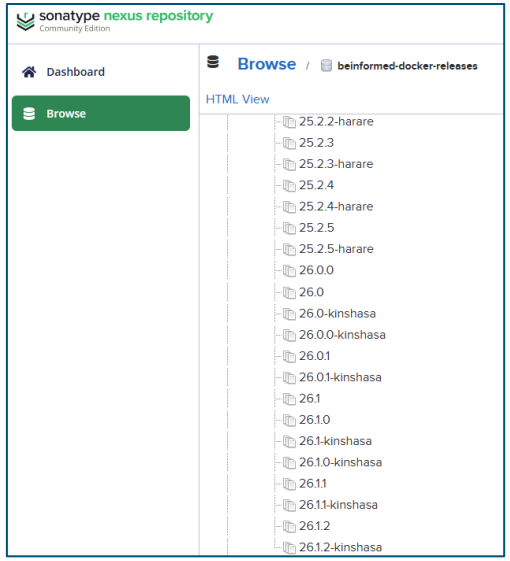
# Connect containers, CI/CD and DevOps to business value

**The tooling is the means. What it delivers:**

- Repeatable deployments and DTAP consistency
- Customer-controlled, hosted or hybrid deployment choices
- Automated quality gates before anything reaches production
- Easier upgrades and reliable rollback strategies
- Separation of solution design from deployment topology

**Business value: change becomes faster and safer, without redesigning the solution.**

> *"Freedom of deployment should not require every project to reinvent engineering. AMS packages model-driven behavior so that DevOps teams can deploy it through the pipeline appropriate to their landscape."*




**Public Be Informed registry**

Build artifacts such as the Docker images of the AMS server and the Documentation portal are published centrally and pulled straight into your own pipeline.

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# What’s new

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# What's new topics

## Reusable knowledge across the platform

*Create once, use everywhere*

*Bundle-based ecosystem*

## Knowledge as an enterprise asset

*Connecting analysis, design, implementation and documentation*

*Metamodels, Documentation Portal, Traceability and governance*

## From applications to connected capabilities

*Evolving from a monolithic solution to a modular platform ecosystem*

*Integration DSL, API models and contracts, Application behavior patterns*

## Modeling the real world more naturally

*Usability improvements with large modeling impact.*

*Hierarchical and repeating data, Multi-value data, Extract and convert, …*

## Enterprise ready delivery and operations

*Turning models into reliable business outcomes.*

Containers and Kubernetes, CI/CD pipelines, Automated deployments, Library and dependency management

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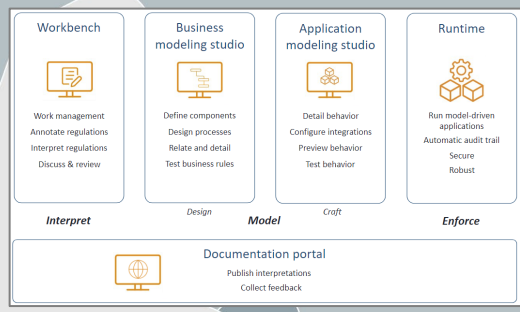
# Our landscape

"Re-usable knowledge across the platform"

Context & Scope

Integration

Runtime




UI

Lake Agile

Testing & Preview

CICD

Database

**B**

Business Modeling Studio
(Business design)

**W**

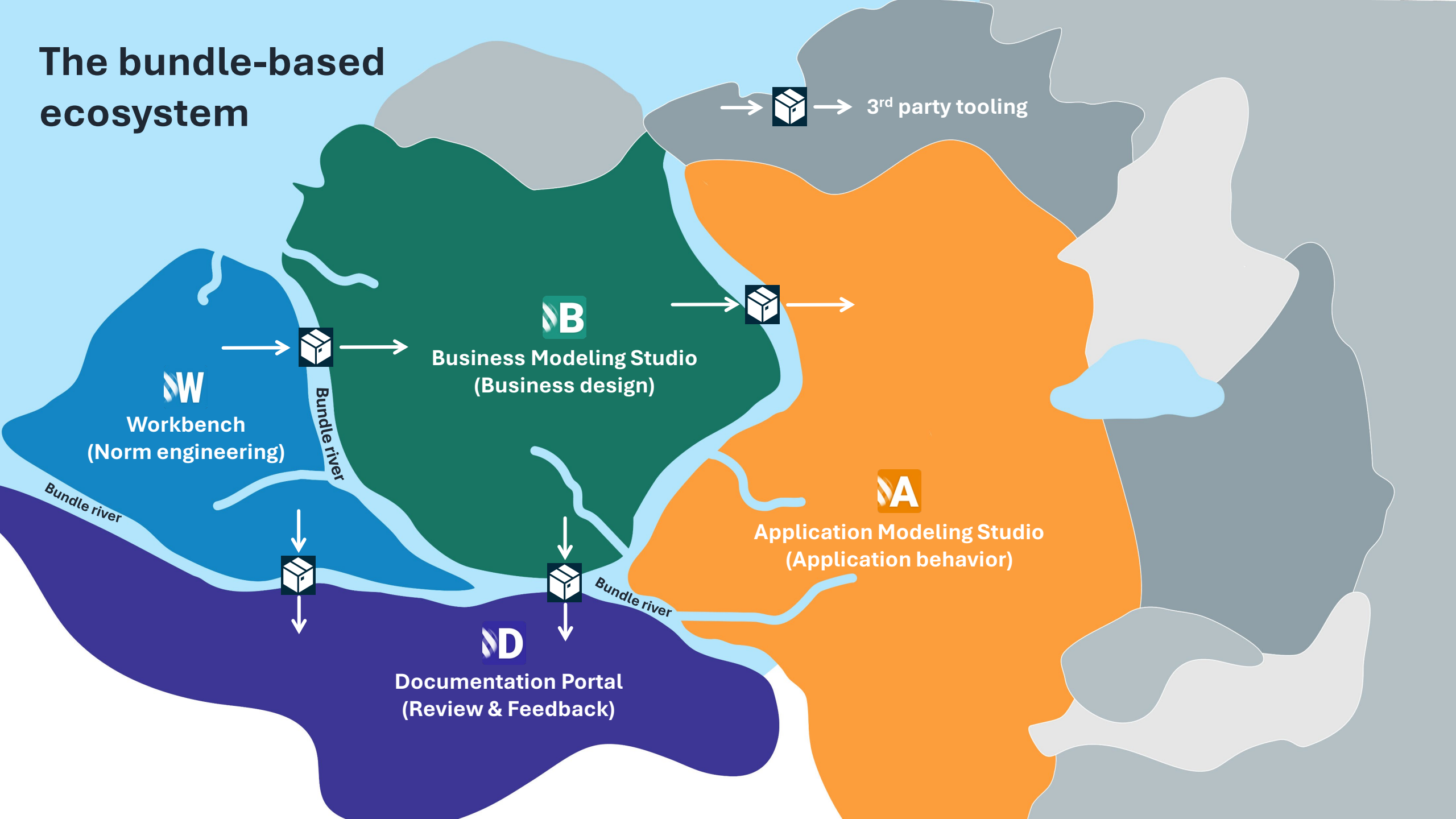
Workbench
(Norm engineering)

**A**

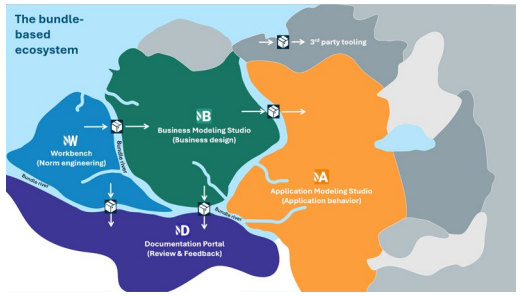
Application Modeling Studio
(Application behavior)

**D**

Documentation Portal
(Review & Feedback)


The bundle-based ecosystem
3rd party tooling
B
Business Modeling Studio
(Business design)
W
Workbench
(Norm engineering)
Bundle river
Bundle river
Bundle river
A
Application Modeling Studio
(Application behavior)
D
Documentation Portal
(Review & Feedback)

# Different types of bundles




## Source bundles

- Regulations, policies, requirements, standards and other source materials captured and shared as reusable assets.

Source bundle zip file:
- bundle info
- source file(s)

## Model bundles

- Analysis models that capture interpretation, decisions, concepts, responsibilities and traceability to the originating sources.
- Business architecture, business design, rules, processes and implementation models that transform analysis into executable behavior.

Model bundle zip file:
- bundle info
- beimodel.json file(s)

## Metamodels bundle

- Metamodel (= DSL) definitions, model categories and relationships that establish a consistent modeling foundation across solutions.

Metamodels bundle zip file:
- bundle info
- BMS based metamodels
- AMS based KMTs

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# Bundle-Based Ecosystem: Design Once, Use Everywhere

- **Create business design once** and reuse it across AMS, Documentation Portal and future platform capabilities
- **Maintain end-to-end traceability** from source to business design, implementation and documentation
- **Promote consistency and governance** through shared, versioned business assets
- **Enable collaboration** between analysts, architects, modelers and developers
- **Support an open platform** with multiple consumers of the same design assets
- **Accelerate delivery** by reusing proven business capabilities instead of rebuilding them
- **Provide a foundation for AI, integrations and partner ecosystems**

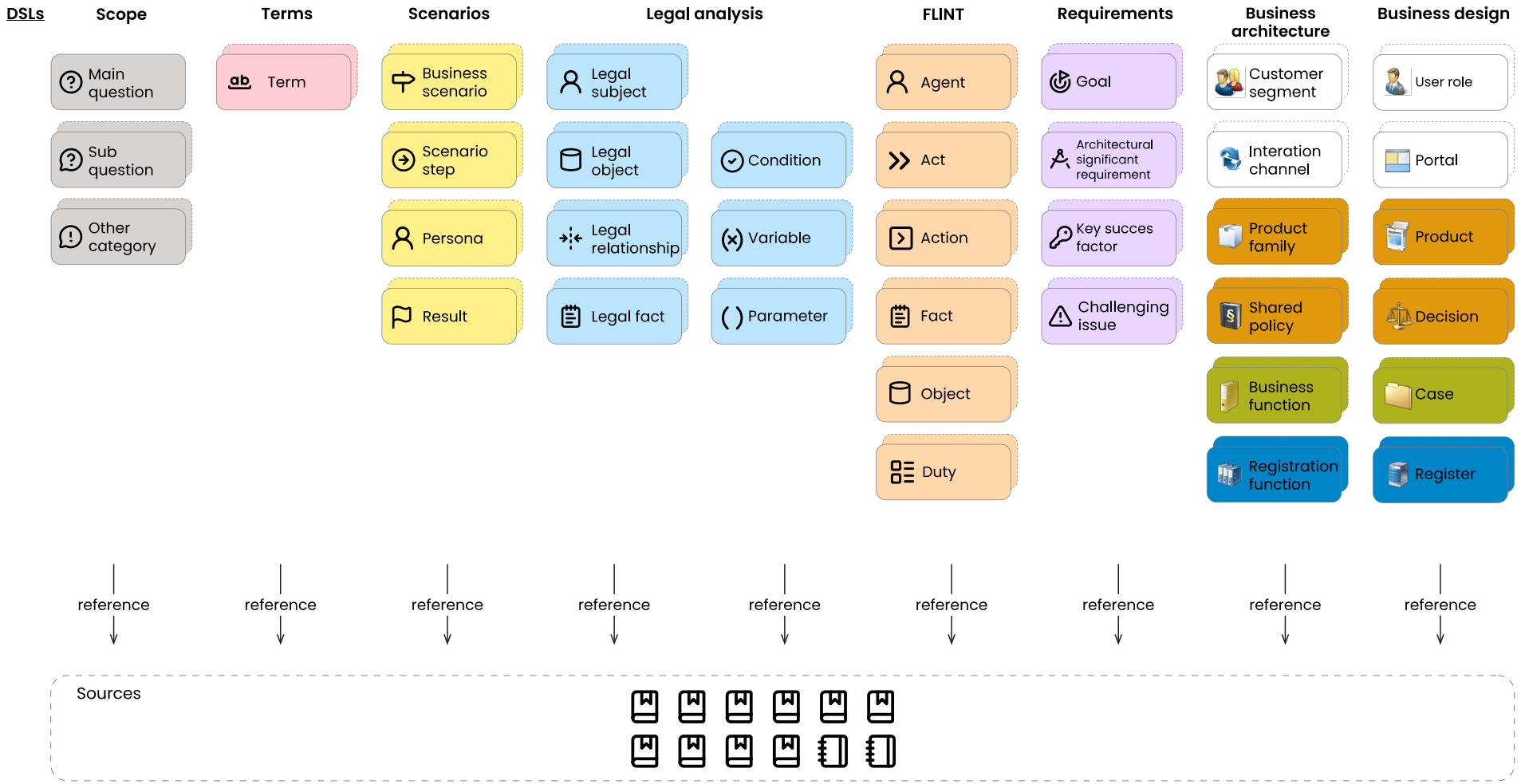
***Quick-fix capabilities*** *are available to automatically repair broken references during* ***migration to bundle-based repositories***.
*This reduces migration effort and helps teams adopt reusable business design assets faster.*

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# A language for every specialist

Over the last years, we have extended our palette of Domain-Specific Languages (DSLs = Metamodels) to better support specialists in the language of their own discipline.



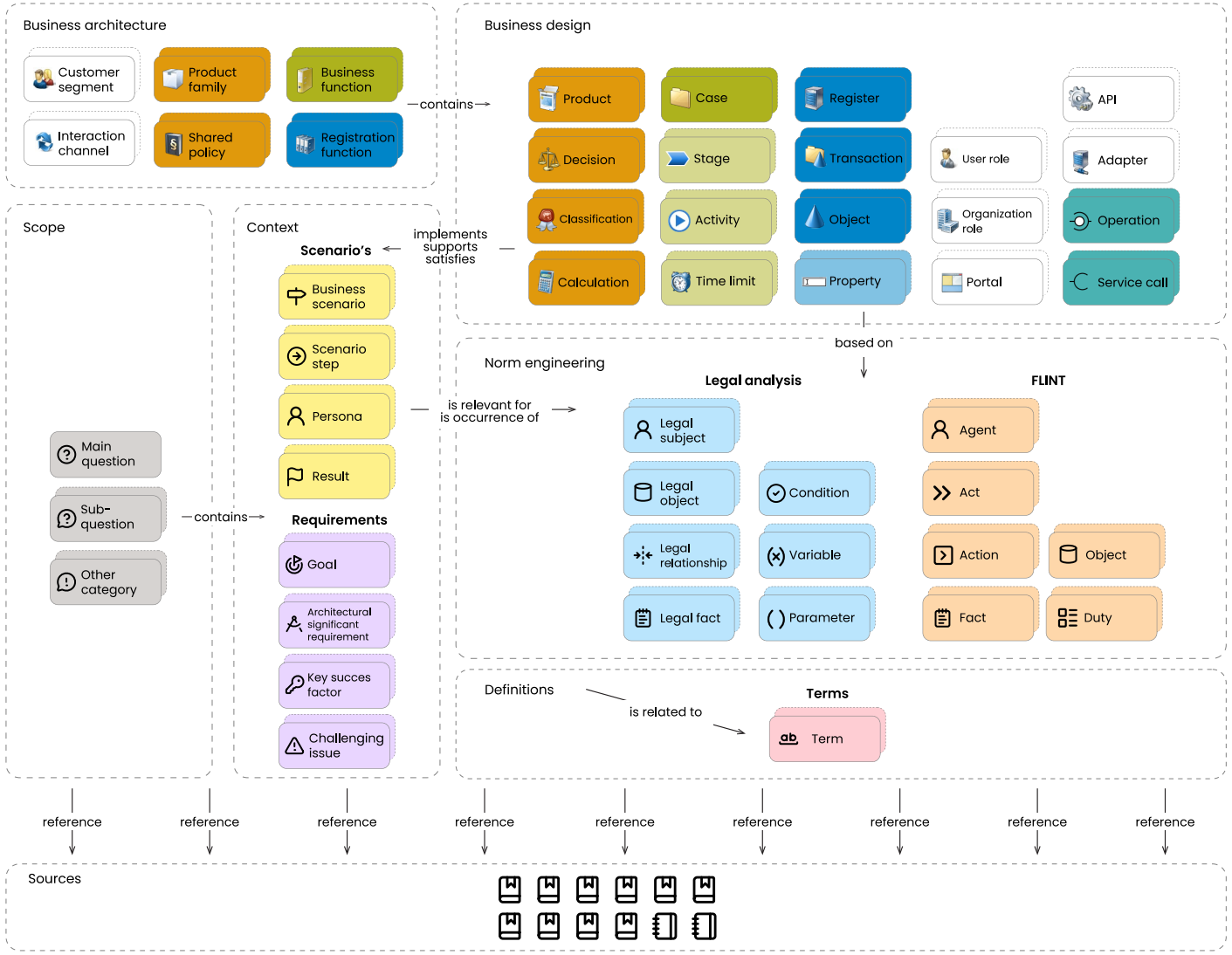



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# Different specialist languages. One connected enterprise asset.

- Each DSL supports a specific modeling task and specialist perspective
- Their relationships create a shared, traceable, and explainable knowledge model.
- Together, they transform specialist knowledge and modeling languages into reusable enterprise assets rather than project-specific configurations.

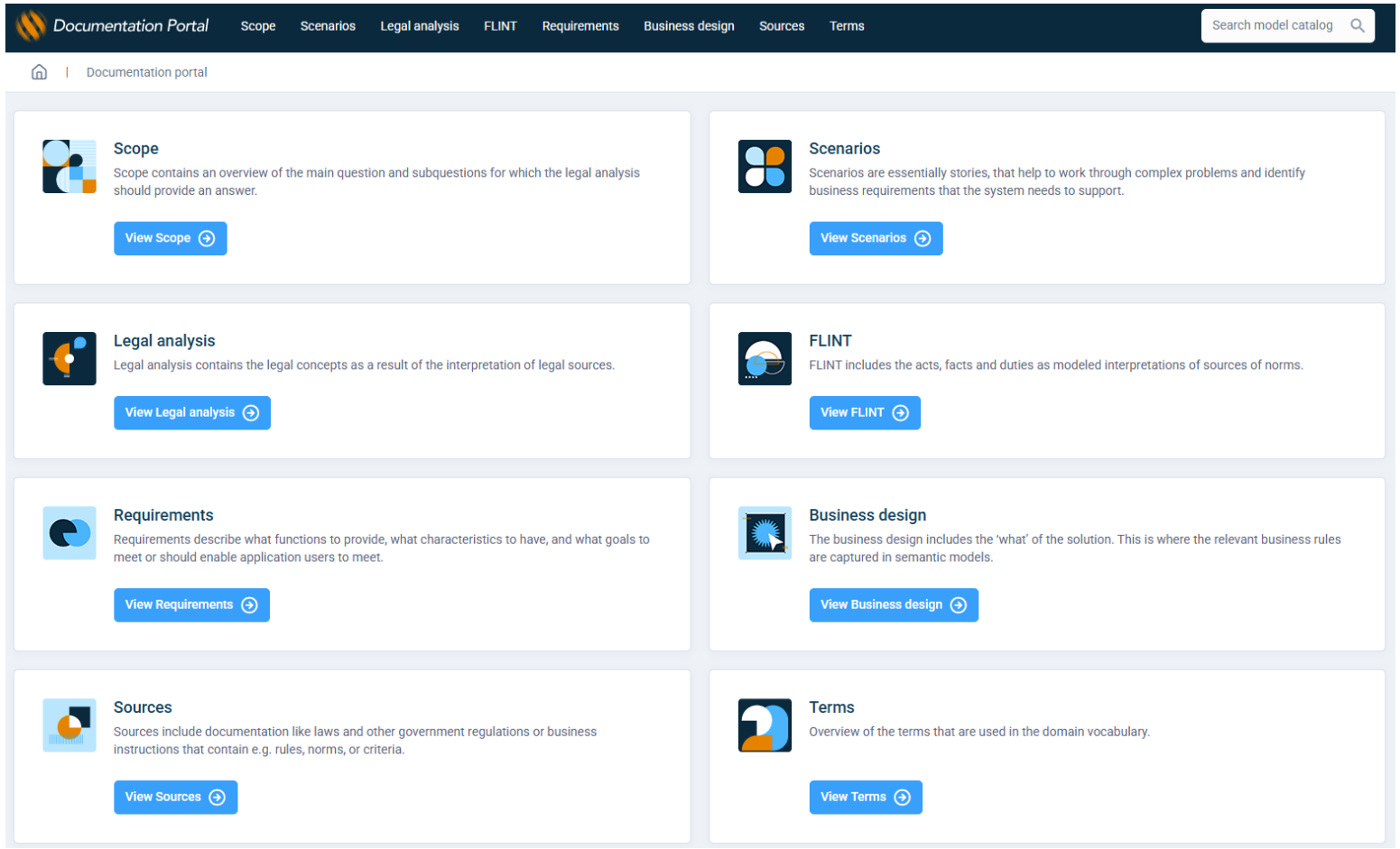
*"Treat your modeling language as a reusable enterprise asset rather than a project-specific configuration."*




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# Documentation portal: Bringing specialist knowledge together

The Documentation portal brings the individual specialists DSL-based models together and presents them as **one connected body of enterprise knowledge** for **shared understanding.**



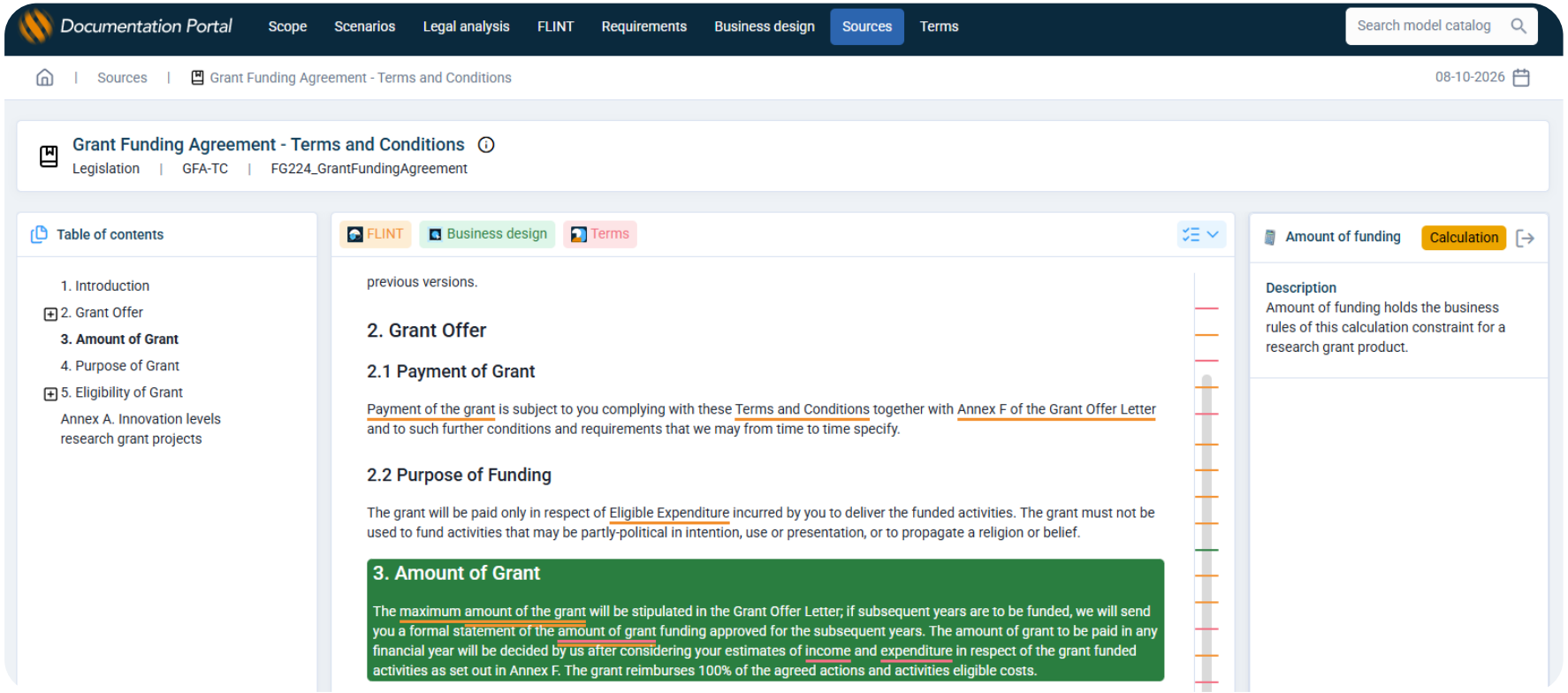

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# Traceability and governance by design

- Understand why decisions and interpretations were made
- Navigate across DSLs through explicit relationships
- Assess the impact of regulatory, policy, or business changes
- Support review, validation, accountability, and continuous improvement

*The Documentation Portal does not just publish models. It preserves the relationships between sources, analyses, designs, and decisions, making enterprise knowledge transparent, explainable, and governable.*

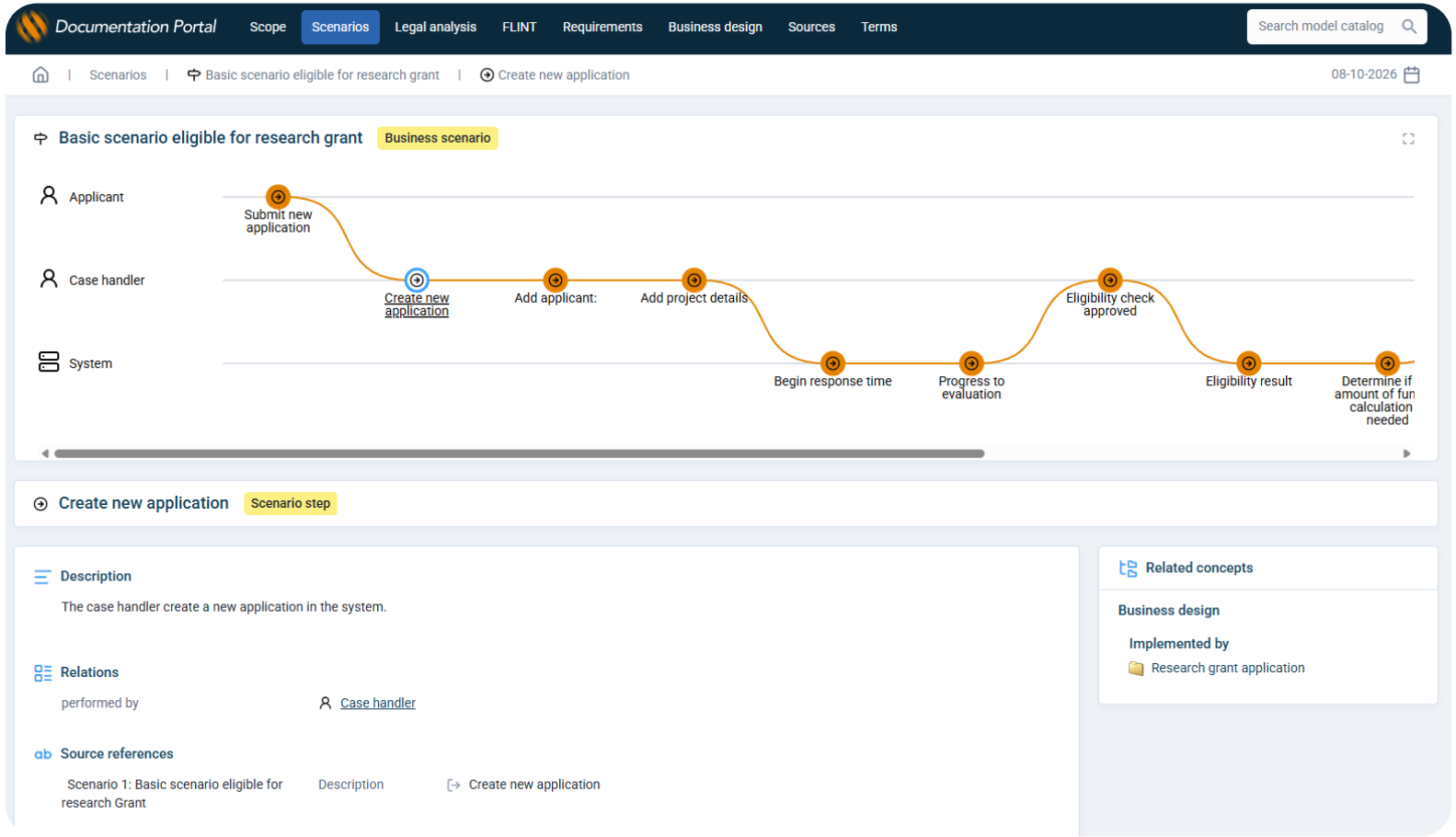



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# From business scenario to implementation design

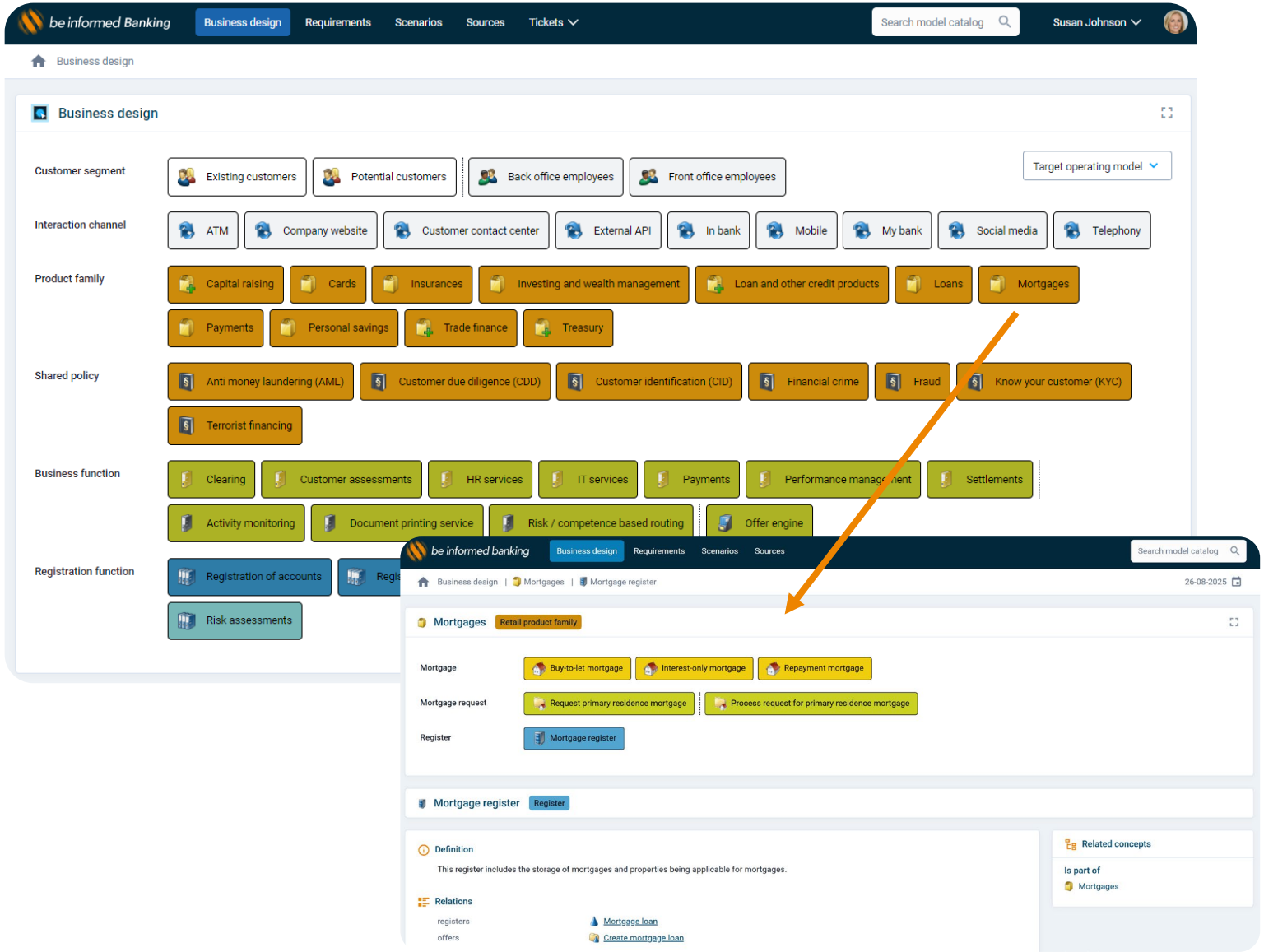
- A business scenario begins as a shared description of how the enterprise should operate.
- The visualization brings together actors, steps, responsibilities, and results.
- By selecting a scenario step, stakeholders can explore its definition and follow its relationships to the design elements that implement it.




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# Different knowledge entrances via custom swimlane-based diagrams

- Different stakeholders often need different views of the same knowledge.
  A business owner may want to understand responsibilities and customer interactions, while an architect is interested in systems and integrations.
- The Documentation Portal allows swimlane-based diagrams to be visualized in a way that best supports the current discussion.

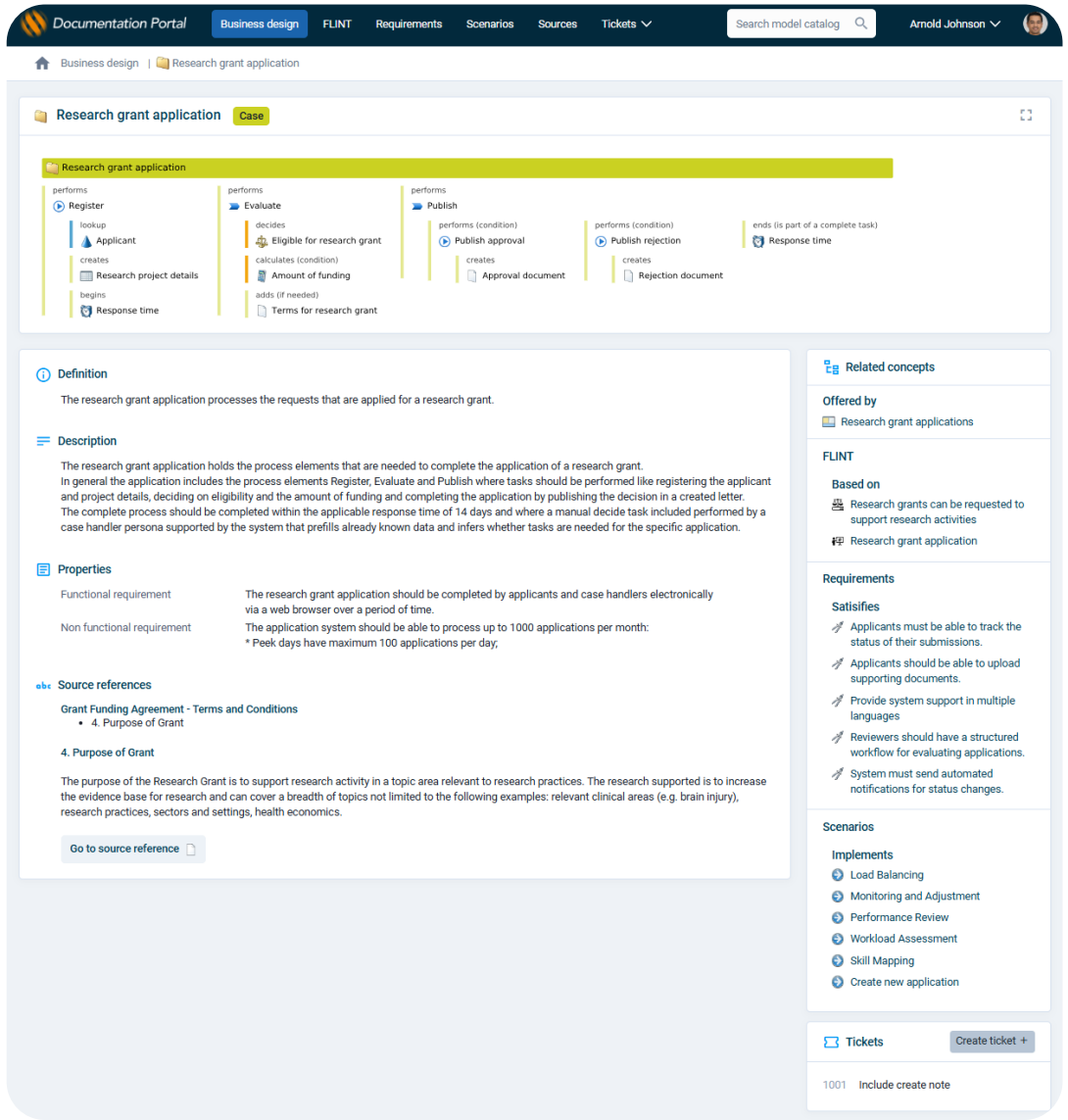



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# Documentation portal

## From implementation asset to shared business knowledge

- **Creates transparency** between business, legal and IT stakeholders
- **Makes complex solutions understandable** through visualized design and traceability
- **Improves governance and compliance** with evidence-based decision making
- **Increases reuse** of proven business knowledge and design assets
- **Reduces dependency on individual experts** by making knowledge accessible
- **Provides trusted knowledge for AI and future platform capabilities**



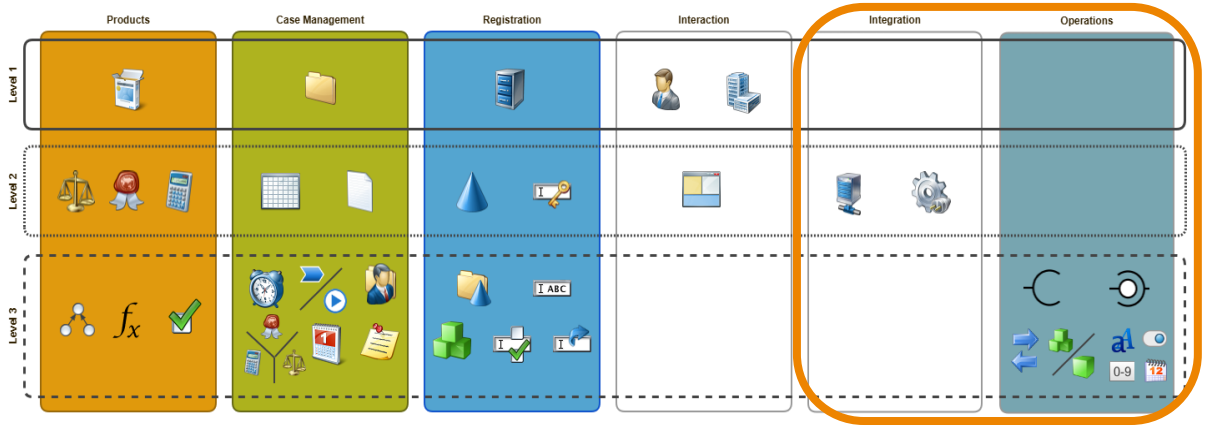

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# Integration by design, not only by implementation

## Evolving from a monolithic solution to a modular platform ecosystem

- The **introduction** of the **Integration and Operations modeling language** is an important step in our evolution towards extended support for modular systems.
- Rather than treating integrations as a purely technical concern, integrations become part of the business design itself.



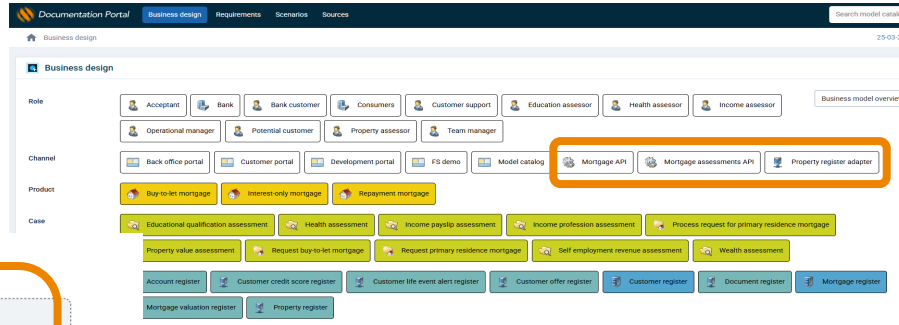

*“The DSL does not make integration less technical. It makes the technical implementation accountable to its business purpose.”*

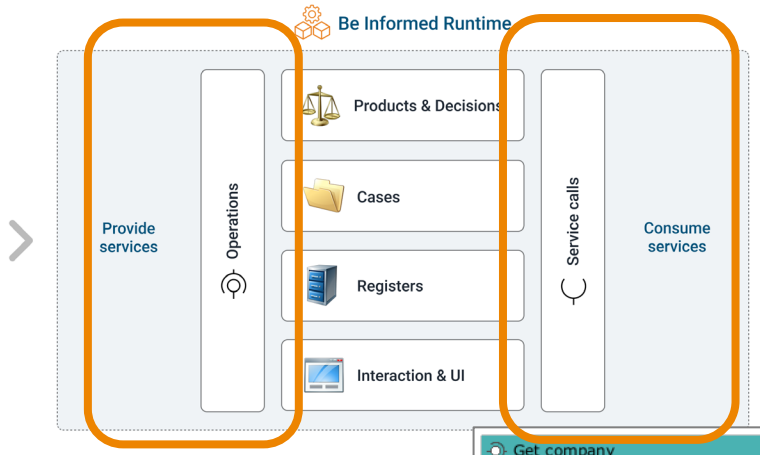


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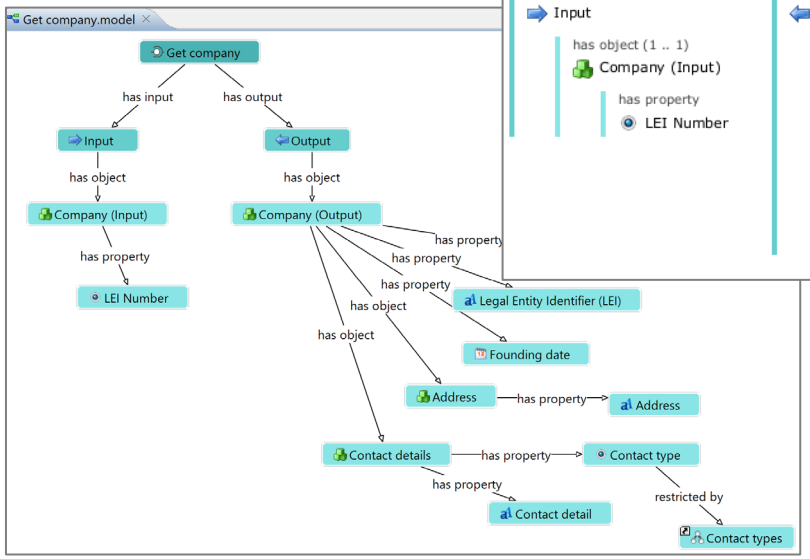
# Define and design the integration domain

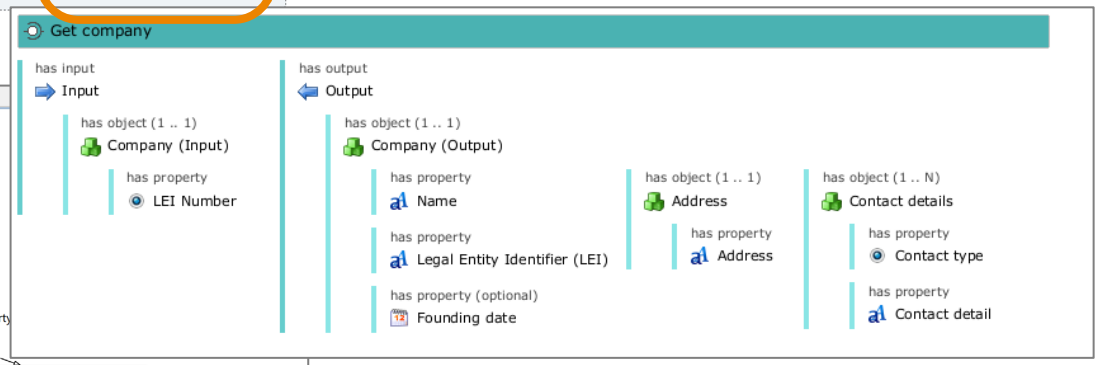
- **Operations** are the **services** we **provide to others**.
- **Service calls** are the **services** we **consume from others**




- Details are added in the form of objects and properties.
- Model hierarchical, optional, repeating, and nested structures that reflect real-world integration contracts.



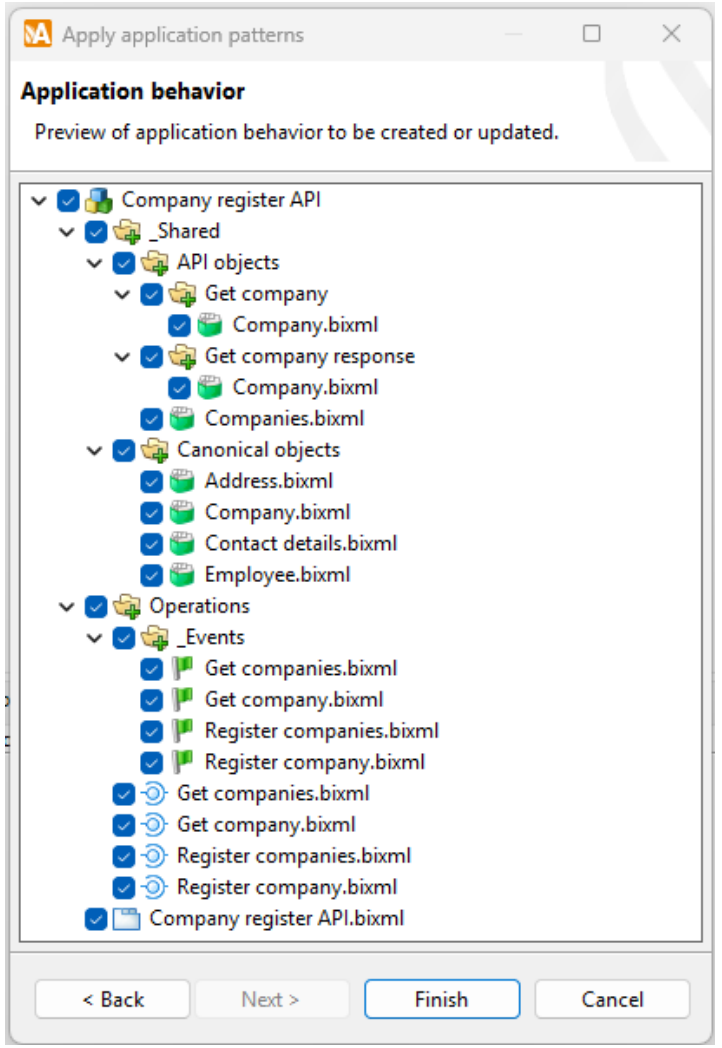



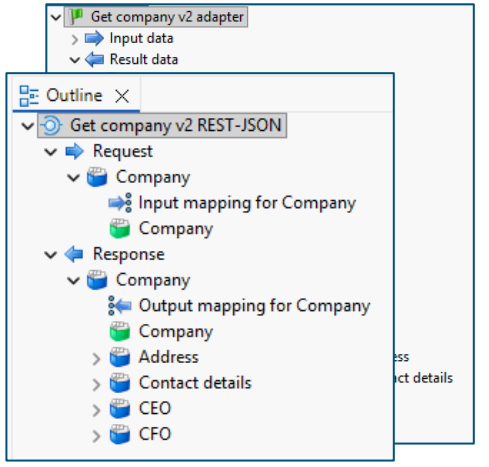

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# Create integration application behavior

- Application pattern can be applied which creates application configuration for operations and service calls.
- API and Adapter projects will be created that can be seen as a 'proxy' between the different modules to be integrated.



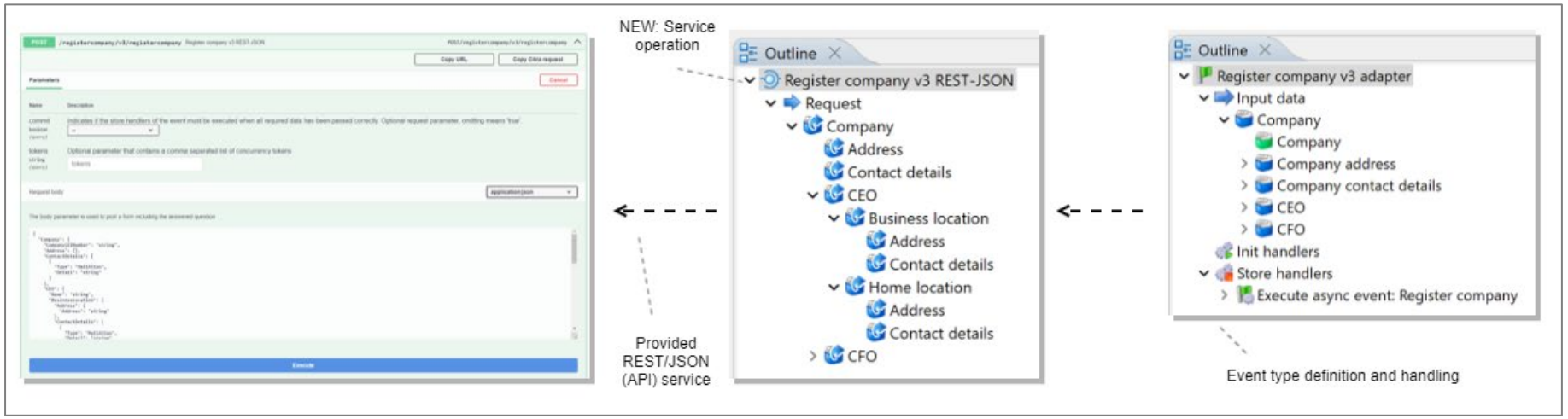

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# From modeled API contracts to OpenAPI powered service documentation

- Published services are automatically exposed through OpenAPI specifications and available through Swagger UI.
- Consumers can explore available services, understand contracts, and start integrating with less implementation effort.
- Service definitions become a reusable contract between teams, modules, and integration partners.

Service operations offer a REST API for accessing the configured service operations with their (event based) application behavior.



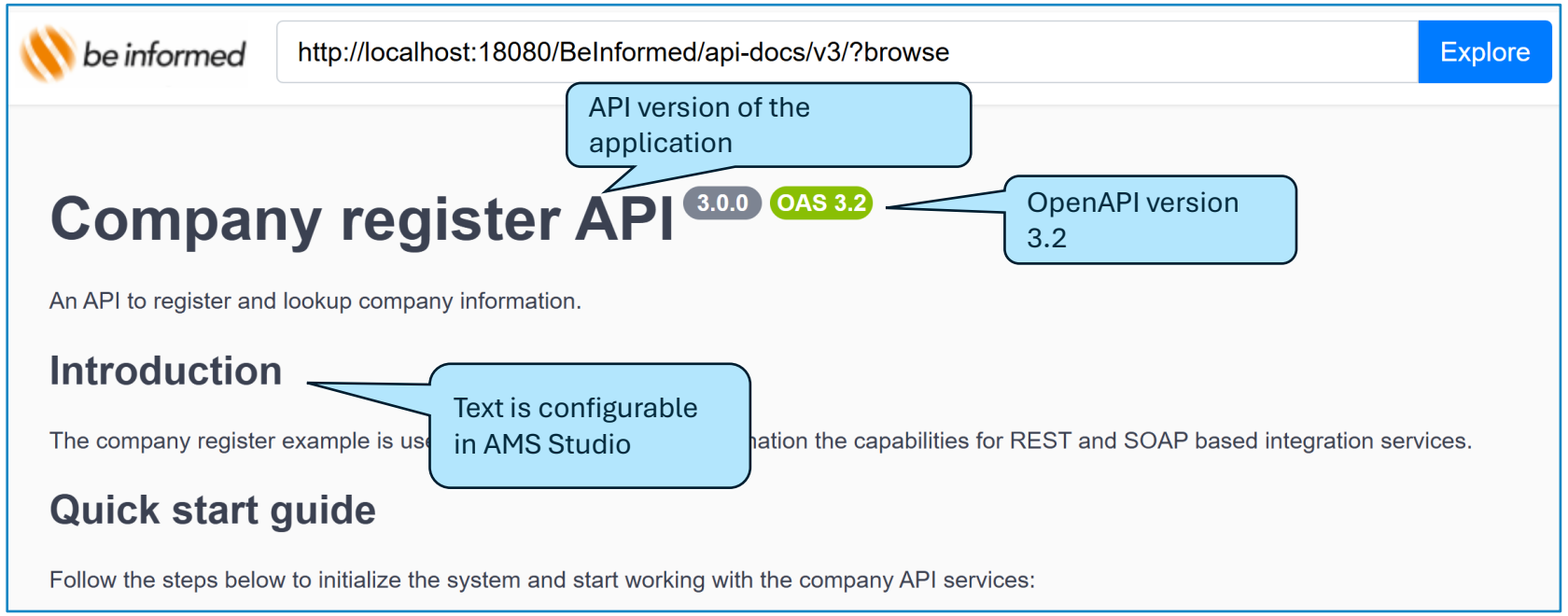

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# OpenAPI make the module a participant, not an island

*“Teams and integration partners become productive faster, with less implementation effort”*

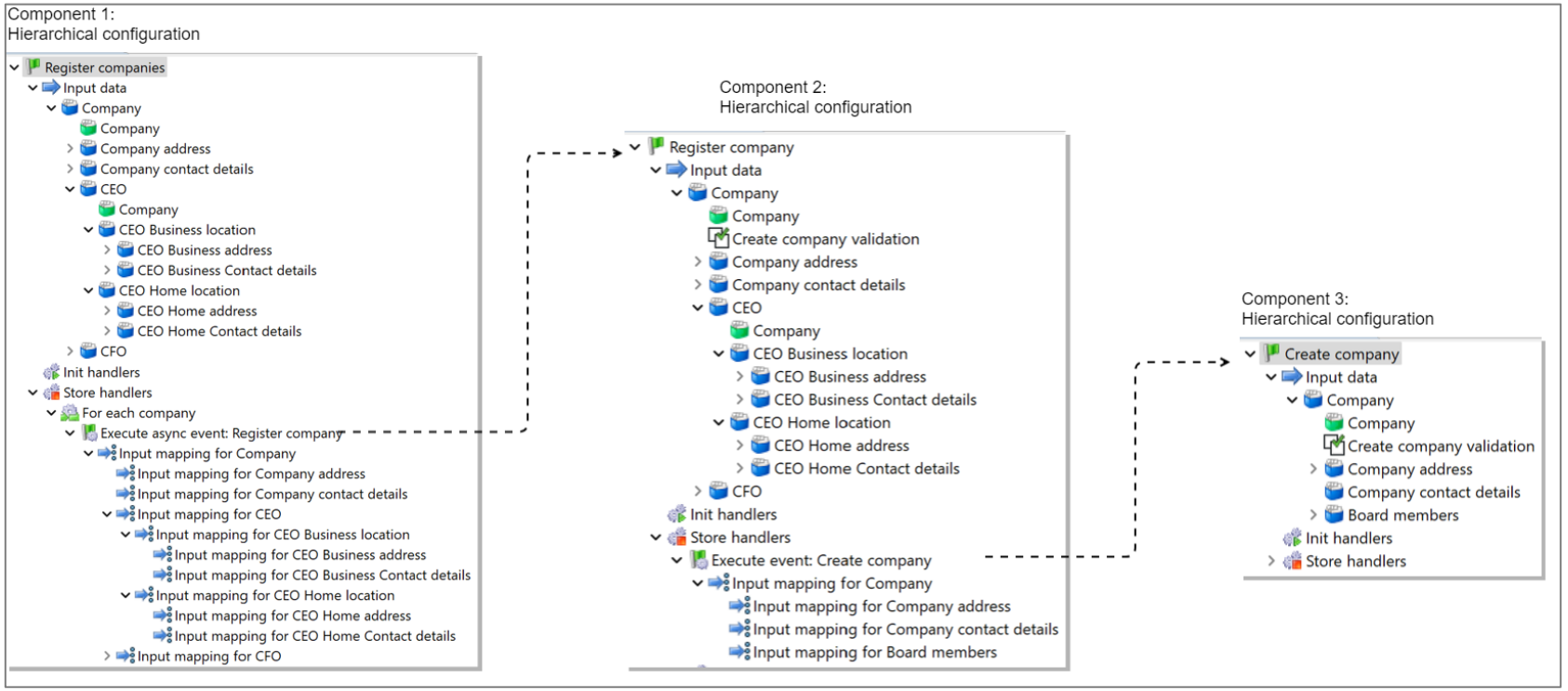
- OpenAPI 3.2 support, richer documentation and improved usability
- Customizable tags and descriptions make APIs easier to navigate and understand




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# Improved support for complex data structures in services and events

- Especially when integrating an application the data of the event becomes usually more hierarchical.
- APIs offered for complex business functions can contain multiple levels of nested repetitions.
- The visualization and mapping of the **hierarchical data** structure with **repeating data** makes handling it much easier.



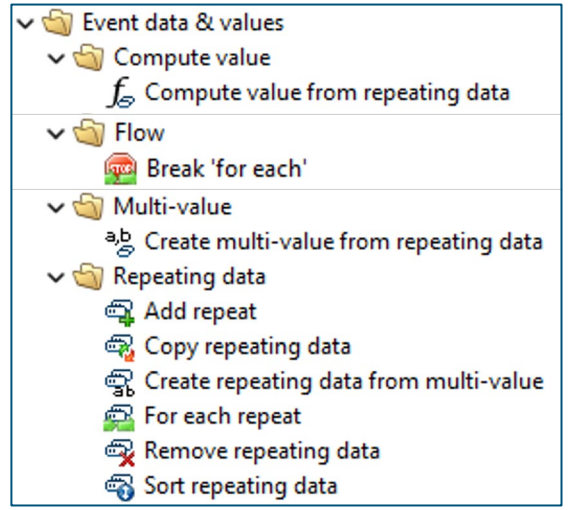

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# New handlers to work more naturally with repeating and multi-value data

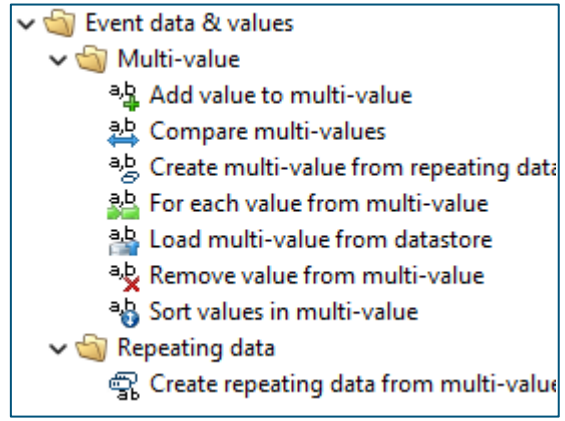
## Richer handlers simplify common business data patterns

- Simplified handling of repeating data through richer built-in handlers
- Easier creation, management, and transformation of multi-value data
- Reduces need for custom workarounds and complex configurations
- Faster, more intuitive modeling of common business data patterns

Handlers for repeating data




Handlers for multi-value data

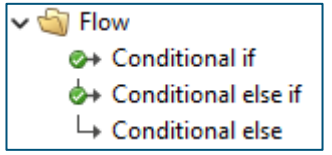


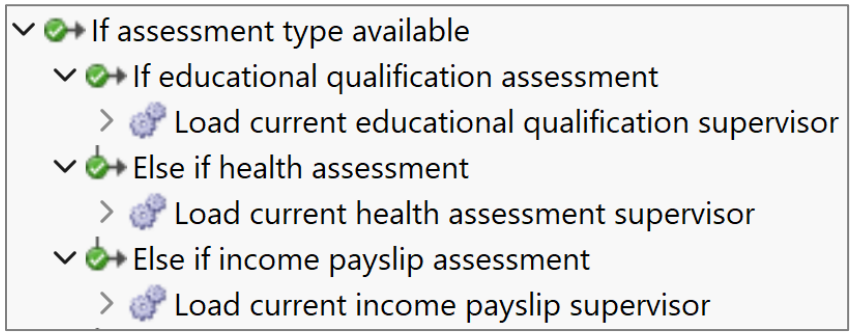

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# Improved support for working with conditional handlers

- New handlers introduced for 'else if' and 'else' constructions
- Prevent complexity such as inverse expressions
- Better readable and maintainable configuration



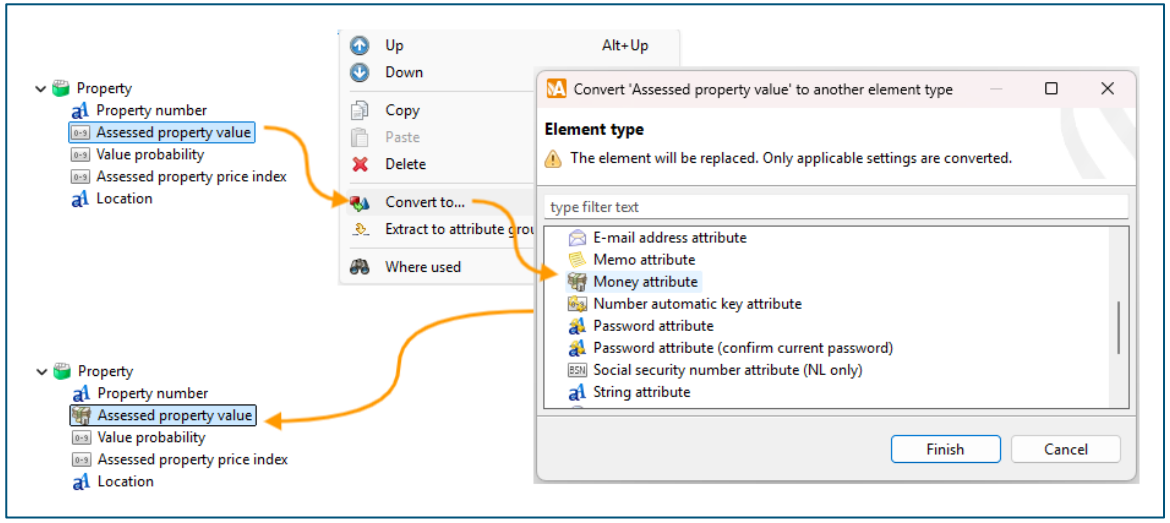




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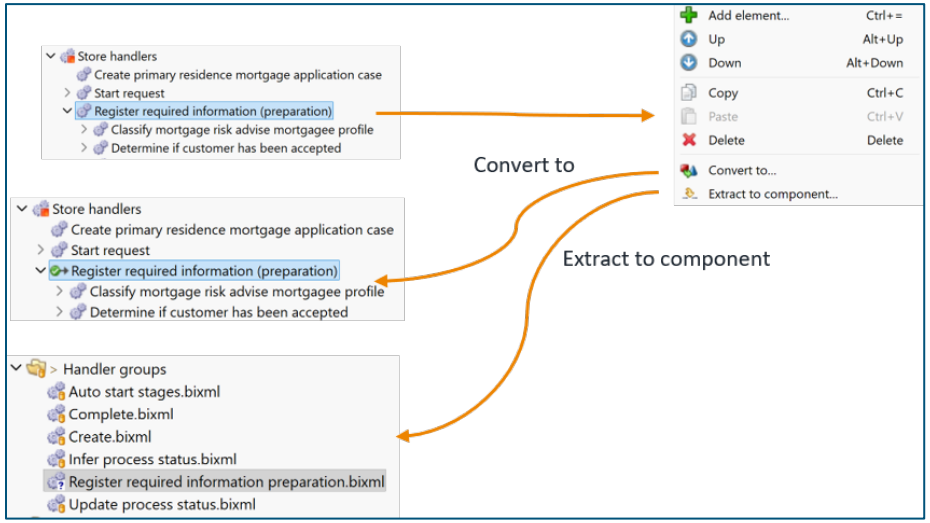
# Easily convert and extract modeling elements for re-use

- Prevents cumbersome manual actions
- All references to the attribute will remain intact
- Improved ease of use

Example: converting an attribute




Converting & extracting a handler group



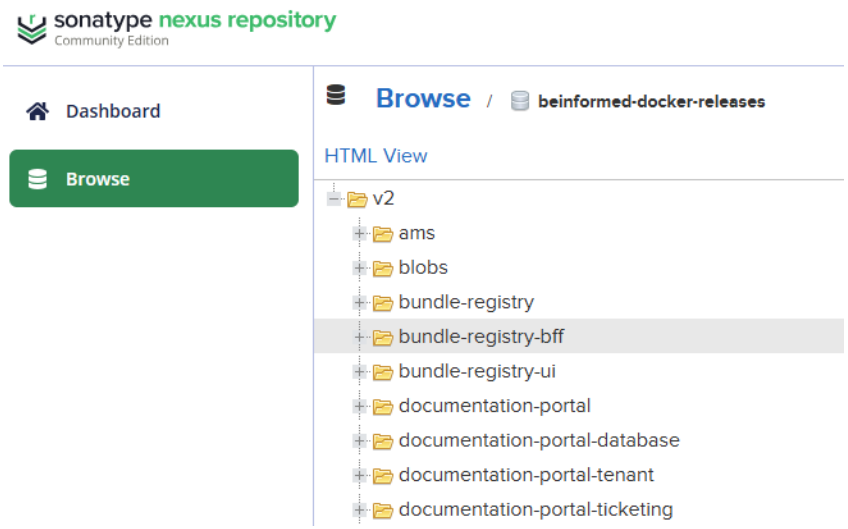

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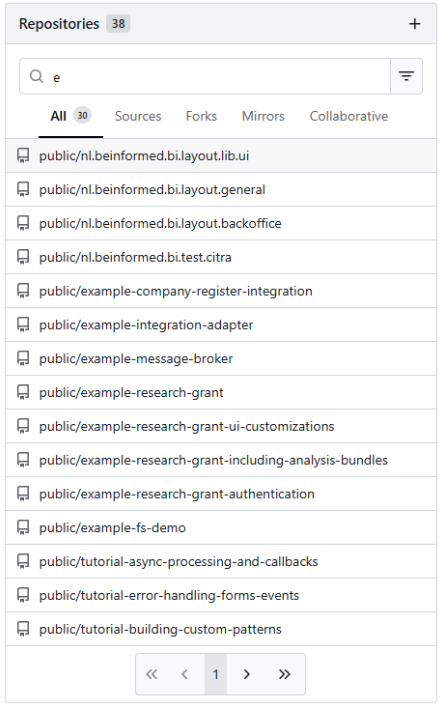
# Supporting modern DevOps practices with public repositories

- Docker images like AMS server (runtime) and Documentation portal are published in the Nexus based artifacts repository
- This enables the integration into modern CI/CD processes and deployment automation
- Support the DevOps expectations of enterprise customers where automation, traceability, and controlled releases are standard practice.

registry.beinformed.com




git.beinformed.com






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# Built for modern DevOps delivery

**CI/CD as a core engineering practice**

**Public registry and containerized delivery**

**Repeatable deployments and DTAP consistency**

**Quality and operational control by design**

## Standardized Kubernetes environments

Usage of artifacts in standardized Kubernetes-based development environments helps us to develop, test, and integrate services in conditions that closely resemble the runtime landscape



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# Library and dependency management

## Keep your platform version up to date

🔄 Frequent updates

- We regularly update third-party libraries as part of our product maintenance.

🛡️ Security fixes

- We continuously scan the 3rd platform libraries for vulnerabilities
- Updates contain fixes for vulnerabilities discovered in libraries and frameworks.

📦 Supported versions of Be Informed AMS

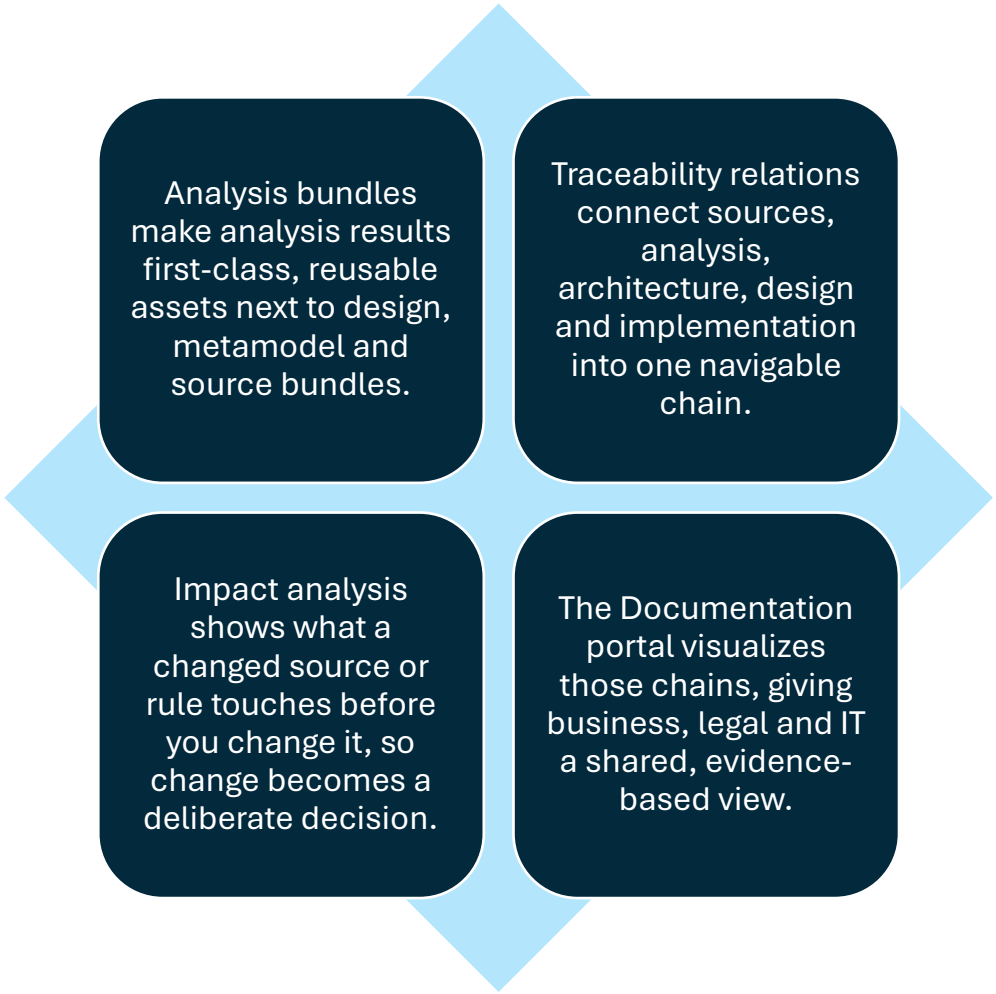
- Staying on a recent, supported product version ensures you benefit from these updates.


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# Upcoming themes

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# Analysis and traceability make your design reviewable, not just executable




*The result: faster reviews, demonstrable compliance and designs that can be improved with confidence.*

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# AI accelerates the work around the model, the model stays in control

Our position: AI helps interpret and draft; the validated model remains the single, explainable source of truth for execution.

AI-assisted analysis supports turning legislation and policy into structured artifacts such as terms, legal analysis and FLINT-style interpretations, always reviewed by a specialist.

Assistant and agent capabilities help find, retrieve and process models and sources inside the design environment.

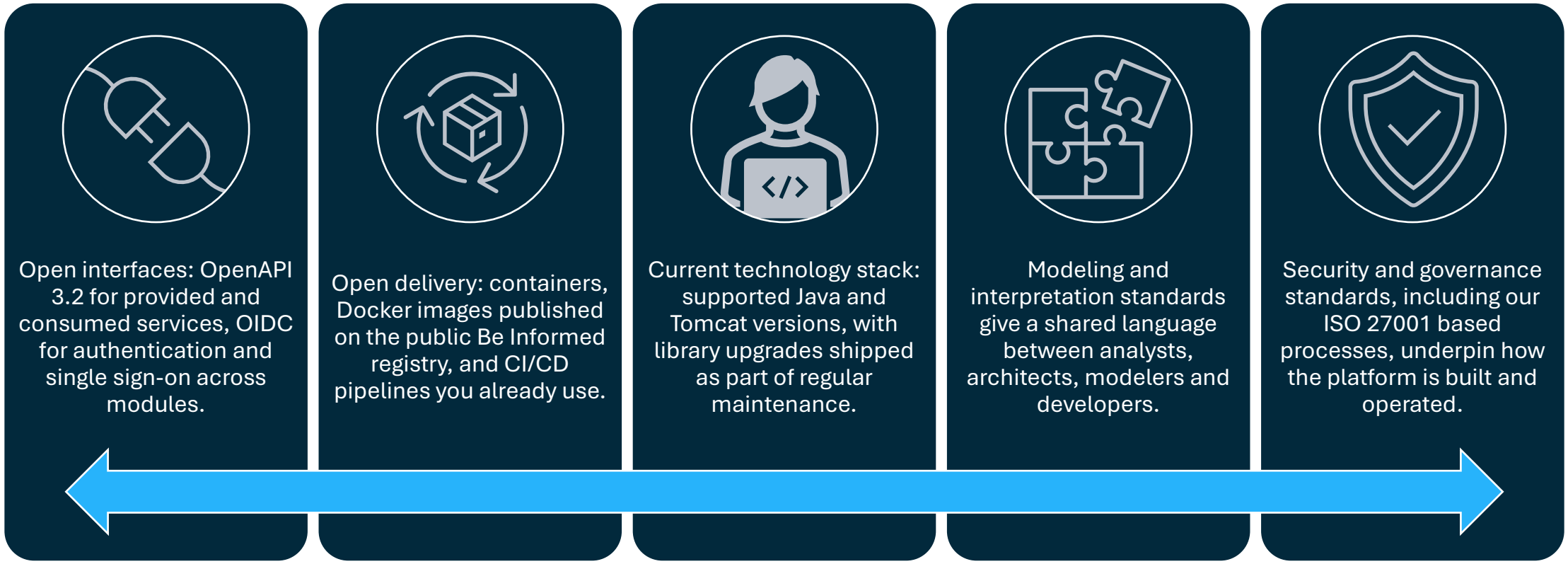
Bundles and traceability give AI trusted, governed context instead of unstructured documents.

*Because behavior stays model-driven, outcomes remain auditable and explainable, which is what regulated organizations require.*

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# Standards keep the platform open, current and compliant




*Standards are what make the platform a participant in your landscape rather than an island.*

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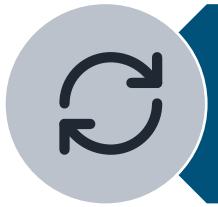
# The AMS runtime improves release after release, driven by your feedback



Runtime investment stays continuous: Stability, performance, scalability and operability improvements land in every release.



Feedback from support cases, customer projects and release validation directly shapes the backlog for the next release.



Keeping the platform current is part of maintenance, recent releases bring library upgrades such as Tomcat 11 underway.

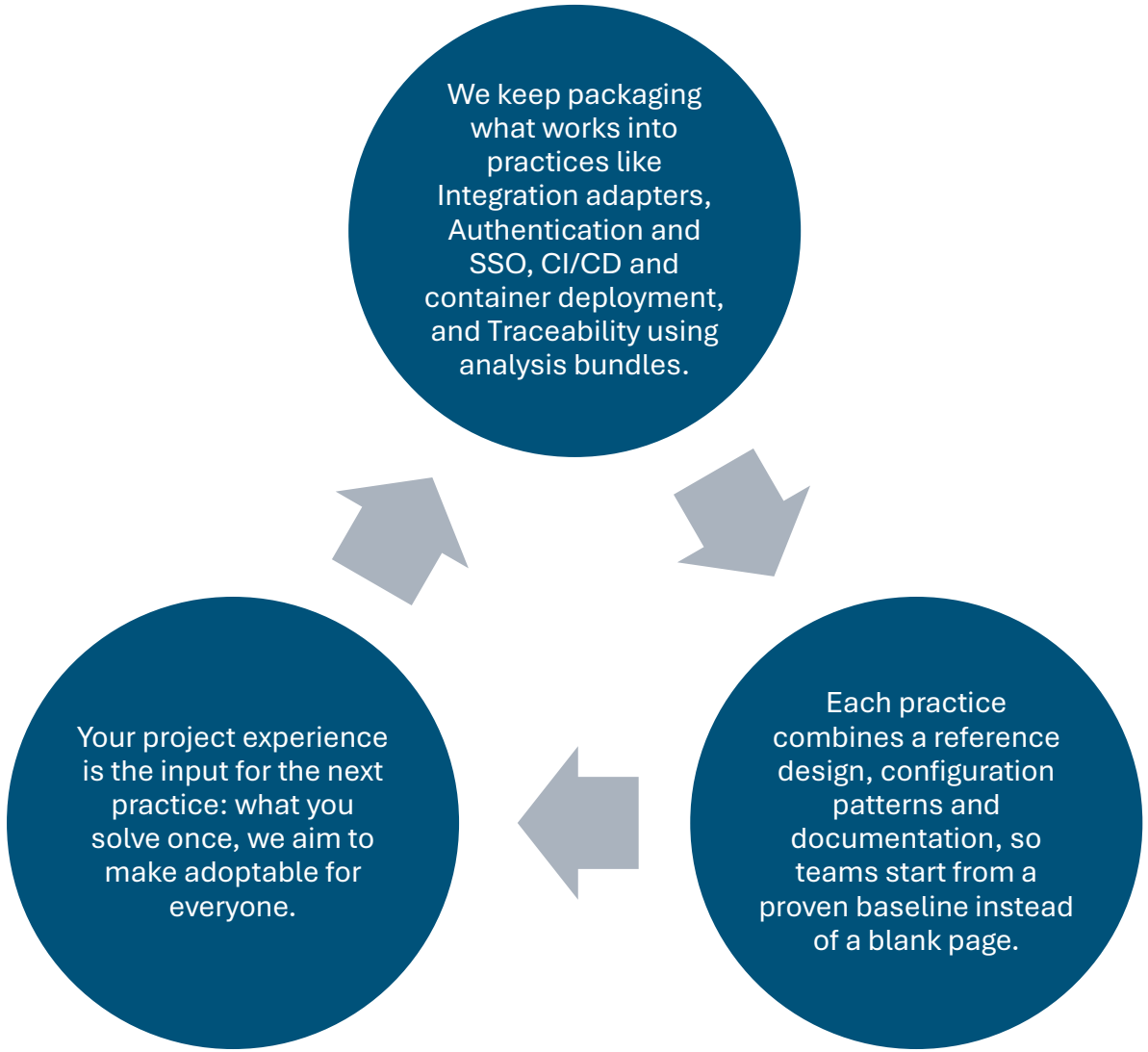


We run on our own runtime: Workbench and the Documentation portal are AMS-hosted, so we experience upgrades, deployment and operations exactly as you do.

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# Practices turn platform capability into repeatable delivery




*"A platform capability becomes valuable only when we can apply it consistently. Your project experience is therefore not only consumption of the product. It is input for the next practice."*

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# Thank you!
# Any questions?

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