

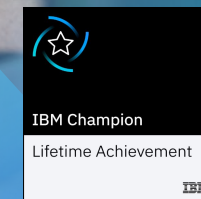
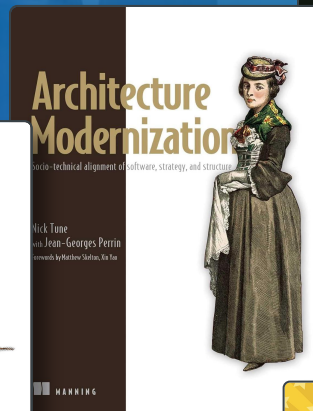
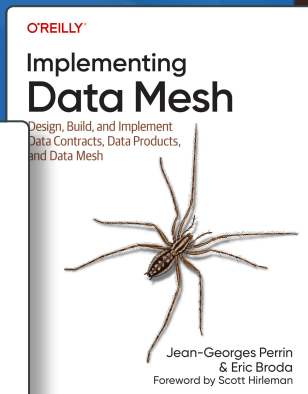
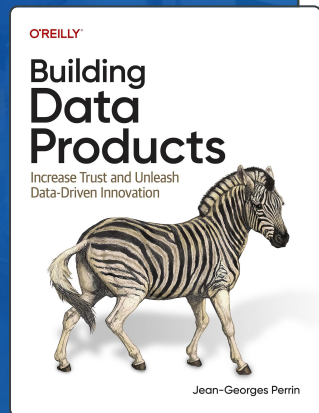


From Chaos to Clarity

How Data Contracts Turn Governance into a Growth Engine

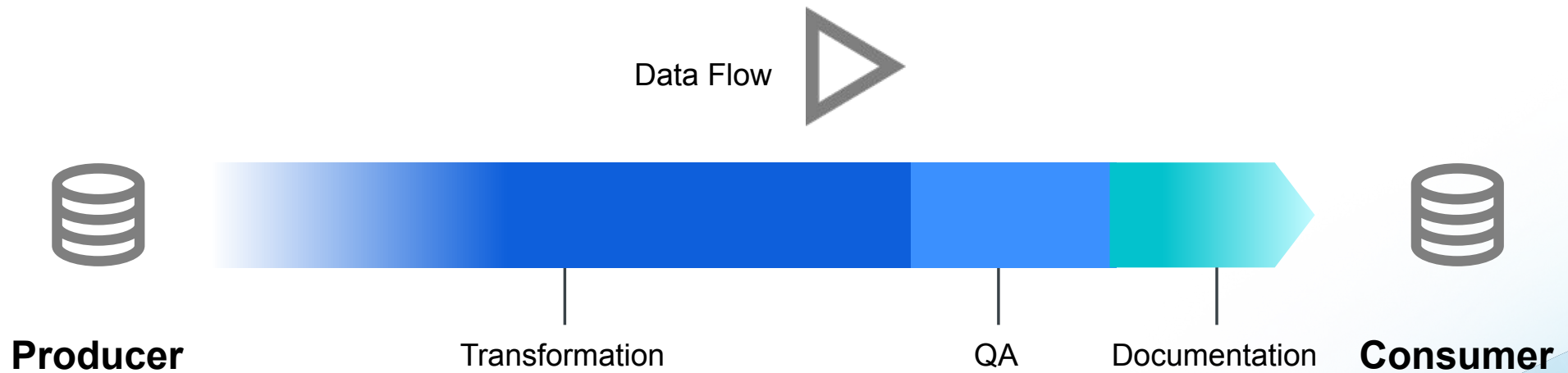
Jean-Georges “JGP” Perrin
Senior Product Manager

Jean-Georges “JGP” Perrin

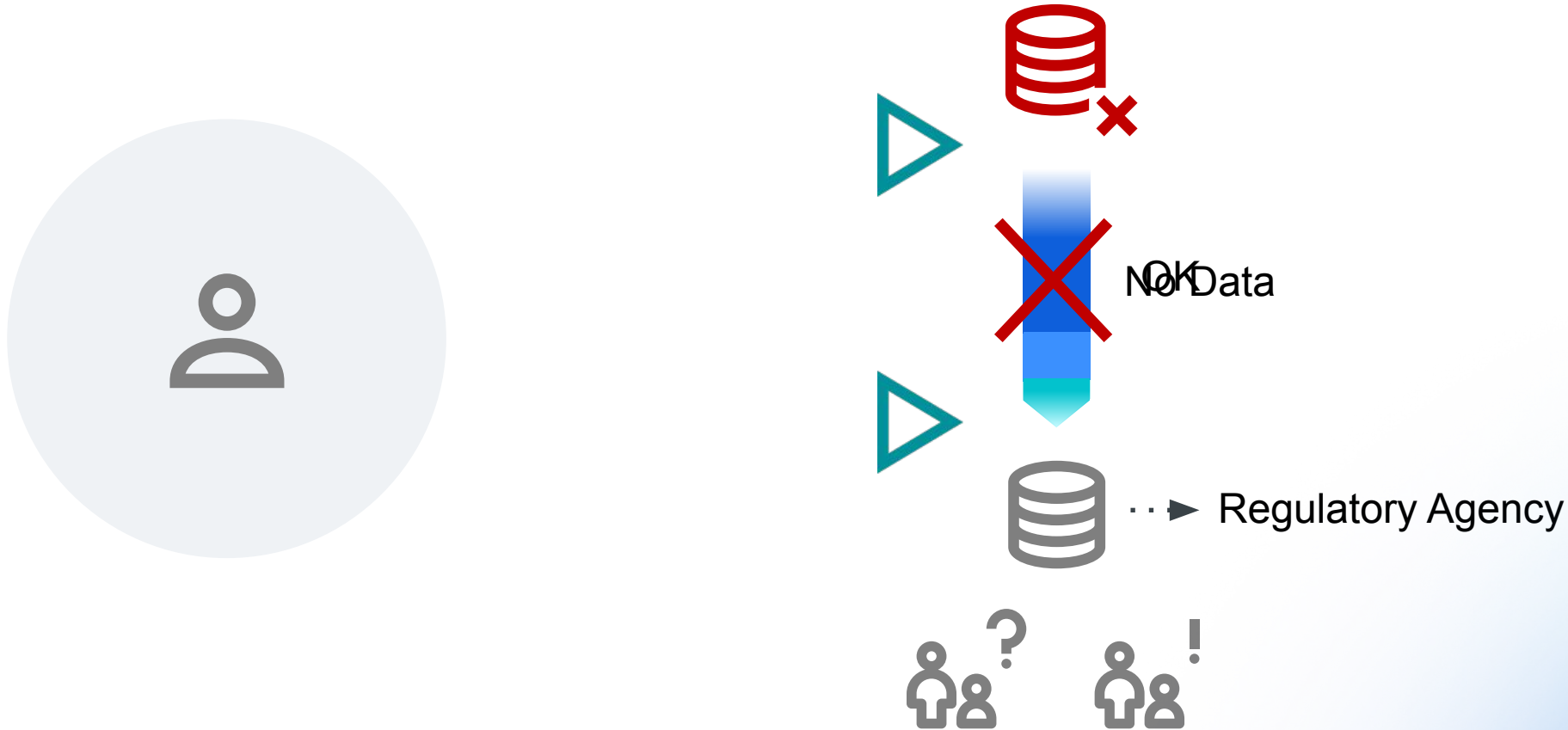


Moving Data

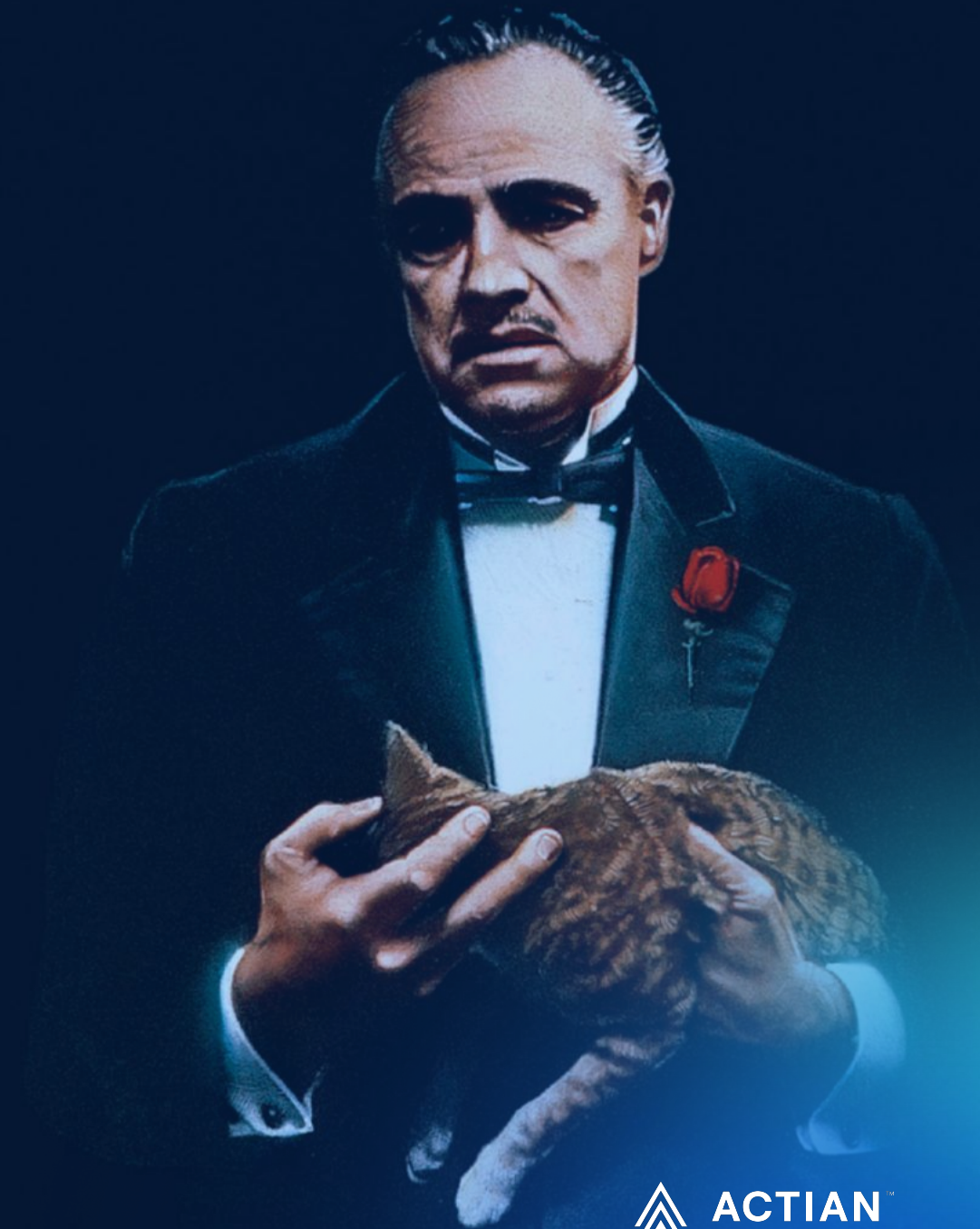
Data pipelines everywhere



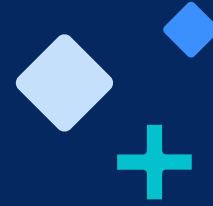
Monitor data pipeline



I have a data contract
you cannot refuse



What is a Data Contract?



Creates a link between a data producer and data consumers.

Creates a link between business (logical representation of the data) and technology (its physical implementation).

Describes meta meta data: rules, quality, and behavior.

A data contract is the source of truth for your metadata.

What are the problems we are trying to solve?

Normalizing and keeping documentation relevant.

Bringing quality data in AI workflows. Describing service-level expectations.

Easing data and tools integration.

Ending painful data discovery.

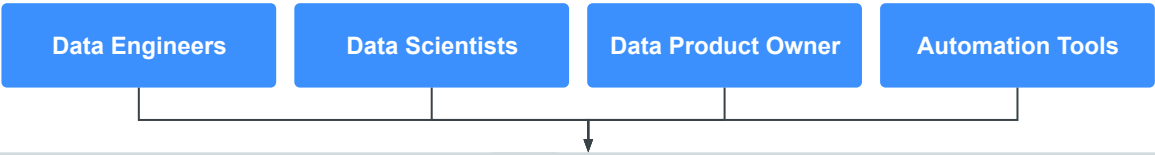
Enabling data product thinking.

ODCS: Architecture and Content

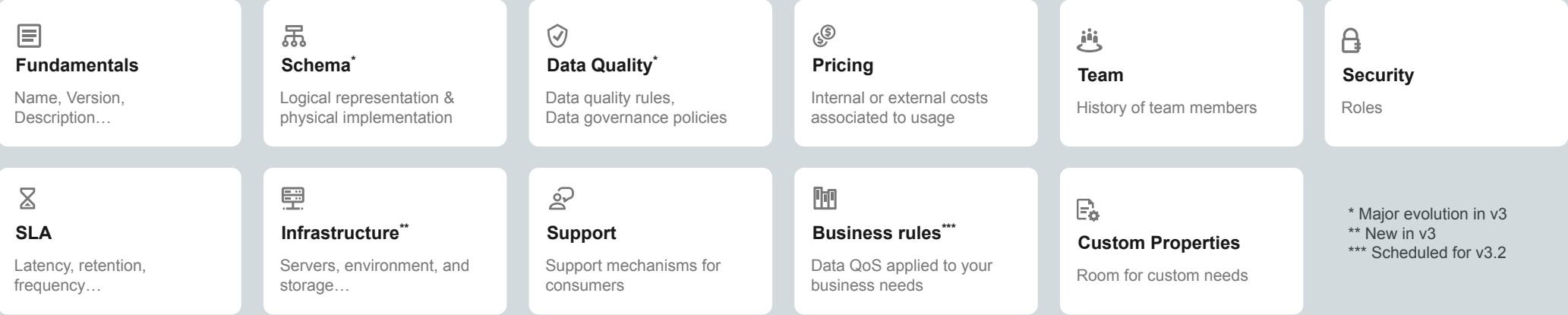
jgp.ai/odcs



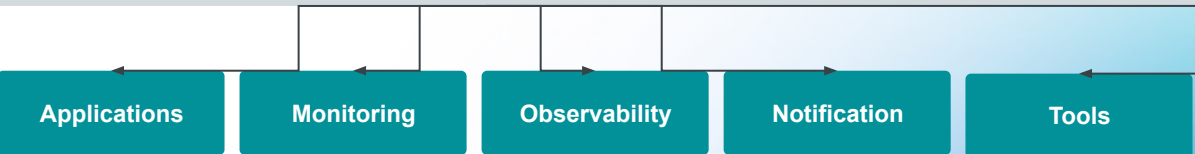
Contributors to the data contract



Open Data Contract Standard v3.1.0



Enterprise-level consumers and contributors



Contract consumers

Implementation

YAML file, both human,
and computer-readable.

Language agnostic.



- `name: tbl` Table name

`description:` Provides core payment metrics

`dataGranularityDescription:` Aggregation on columns `txn_ref_dt`, `pmt_txn_id`

`properties:`

- `name: txn_ref_dt` Column name

`businessName:` Transaction reference date

`logicalType:` date

`physicalType:` date

`description:` Reference date for the transaction. Use this date in reports and aggregation rather than `txn_mystical_dt`, as it is slightly too mystical.

`examples:`

- 2022-10-03

- 2025-01-28



```
- name: tbl
```

```
properties:
```

```
- name: rcvr_cntry_code
```

```
  businessName: Receiver country code
```

```
  logicalType: string
```

Mapping from logical to physical

```
  physicalType: varchar(2)
```

```
  authoritativeDefinitions:
```

```
- url: https://zeenea.app/studio/e64d/field/1b24/general
```

```
  typurl:e: Business definition
```

```
- https://github.com/myorg/myrepo
```

```
  type: Reference implementation
```

Multiple links to enterprise definitions



team:

```
- username: ceastwood
  role: dpo
  dateIn: 2014-08-02
  dateOut: 2014-10-01
  description: Clint was playing it dirty
  replacedByUsername: jwayne
- username: jwayne
  role: dpo
  dateIn: 2014-10-01
```

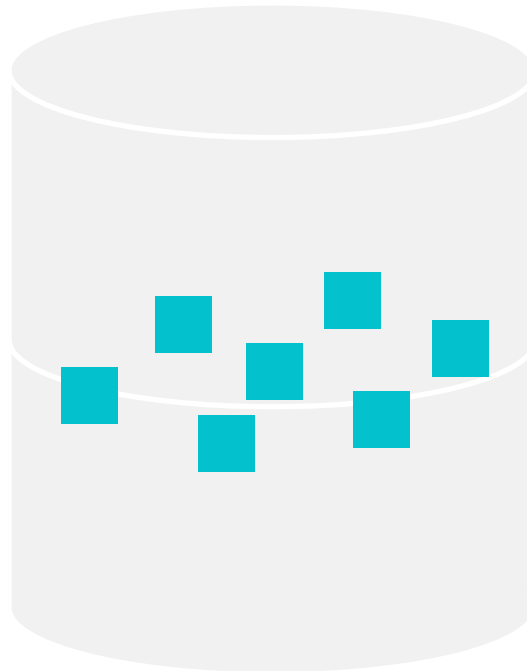
Original data product owner

Current data product owner

How do I get value?

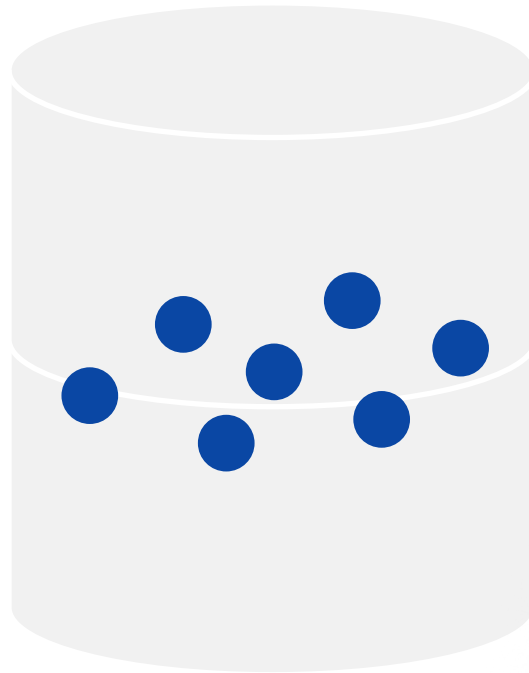


Guaranteed by Contract

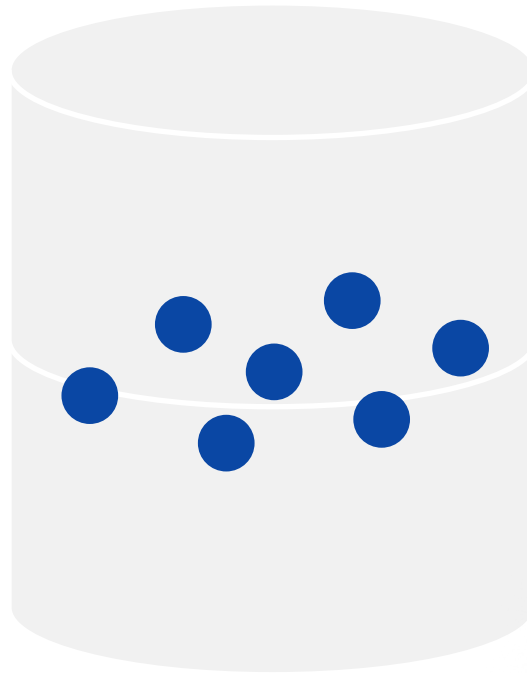


Monitored Schema

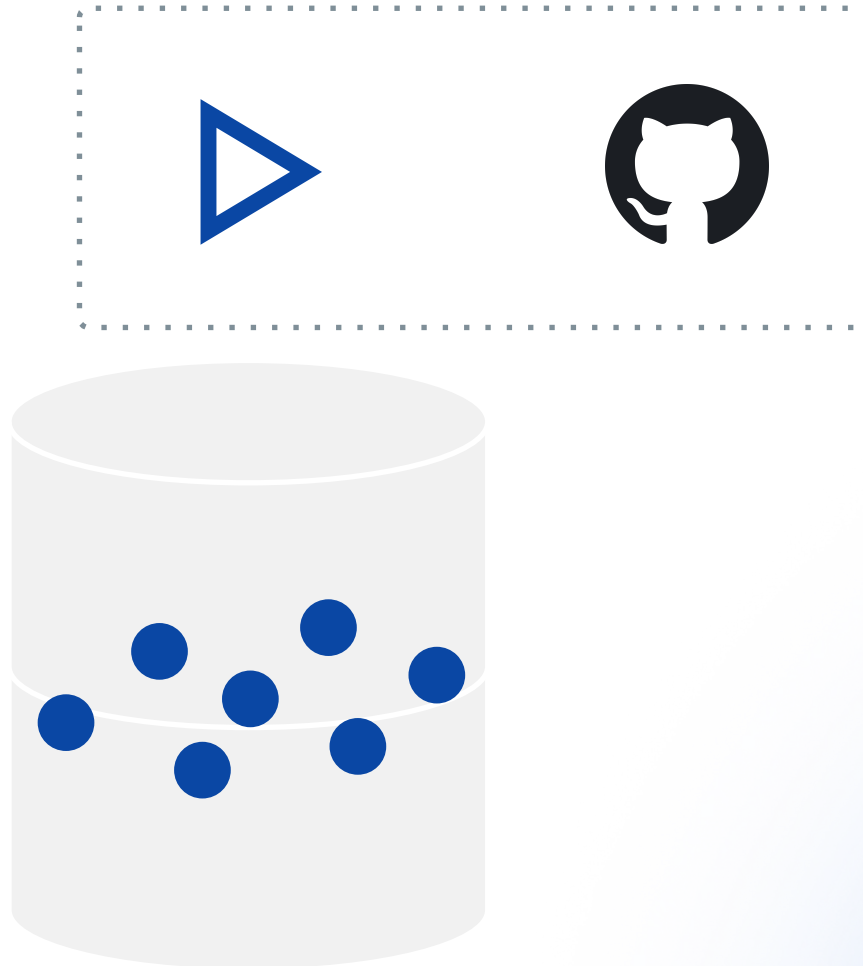
How do I get value?



How do I get value?



How do I get value?



How do I get value?



Interactive Tutorials



Hands-on Tutorial

Production-grade services

Free to use

Digital badge

<https://jgp.ai/hands-on-bitol>



BITOL NEWS 📰

So You Want to Work With Data Contracts and Data Products?

Let's be honest: data contracts and data products sound like something between legal paperwork and something you'd find in a warehouse. Let's change that.



JEAN-GEORGES PERRIN

AUG 01, 2025



Share



However, in reality, they're the backbone of modern data ecosystems. And once you understand how to create, version, evolve, and document them, you'll never look at a CSV the same way again.



Let's play with data contracts & data products.

That's why I created a short series of four hands-on tutorials to help you not just understand the concepts, but apply them. No buzzwords. No 50-slide presentations. No BS.



An aerial photograph of a construction site, showing a dense grid of steel rebar laid out on a dark surface. Several workers in orange safety vests and hard hats are visible, working on the grid. The image has a blue tint and a grid pattern overlay.

Open Standards



Open Source

Getting Value Every Step



Data Contract

- Better documentation
- Better Data QoS
- Faster discoverability



Data Product

- Better isolation
- Faster time to market
- Easier evolution
- Higher security
- Standardized way of consuming data
- Consistent view of observability



Data Mesh

- Better cross-domain communication
- Enhanced lineage
- Enterprise standard to access and consume data
- Federated data governance

Wrap up


1 Data contracts **are more important than you think**

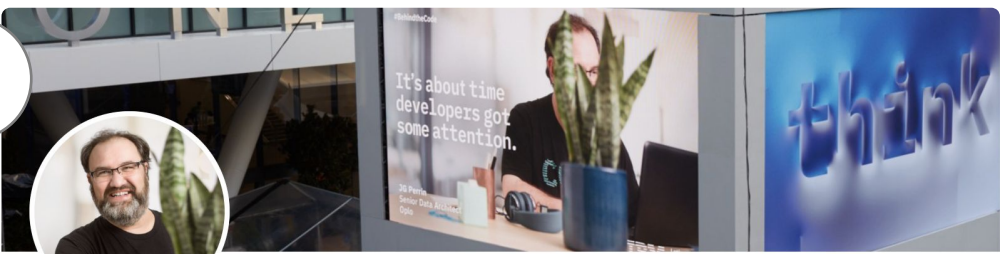

2 Data contracts **provide immediate value and fast ROI**


3 Open standards **are making interoperability easier**



4 Actian fully embraces **open standards**, such as Bitol ODCS & ODPS



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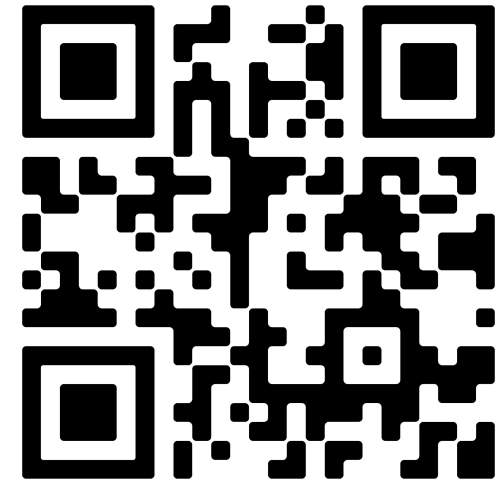


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Booth #33 to continue
the conversation



Take a Product Tour