

AIDA
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Artificial Intelligence,
Data, and Analytics
User Group

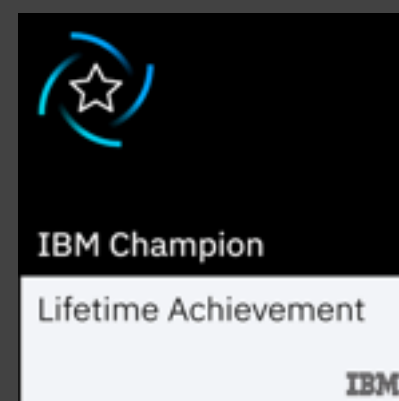
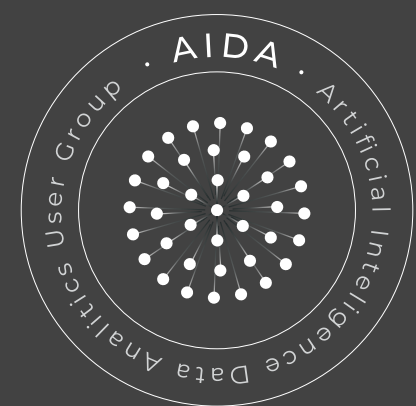
Open Data Contract Standard

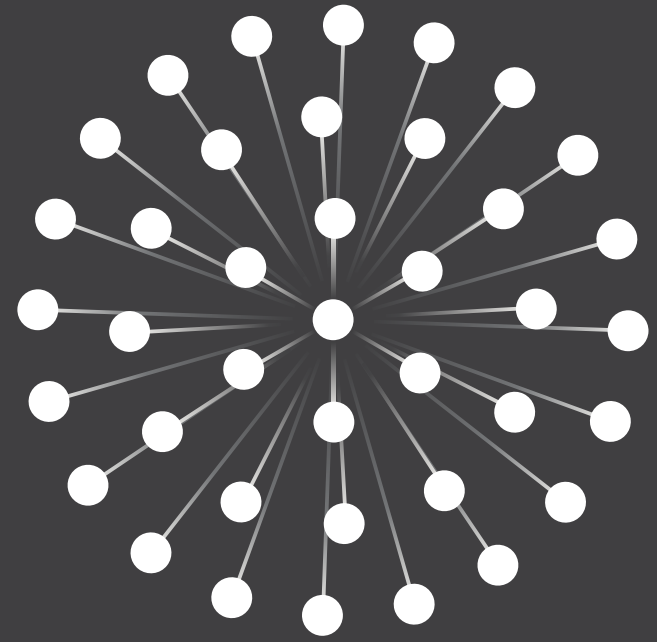
v1.0.3

Jean-Georges Perrin • Co-founder & President • jgp@jgp.ai



Jean-Georges “jgp” Perrin



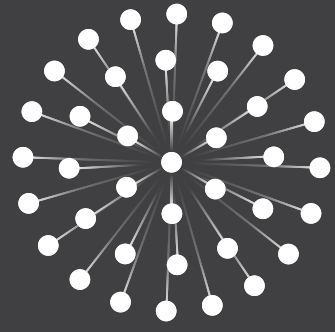


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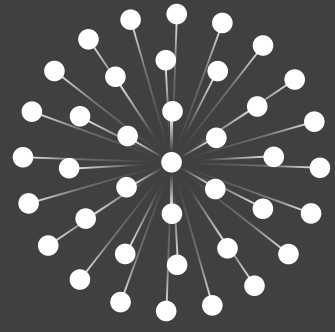
As **Artificial Intelligence is transforming society** and businesses, AIDA User Group has the ambition to **share knowledge, connect people**, and **provide guidance** through this next era of computing while embracing peace and the highest levels of **ethics**.

Join AIDAUG for free at <http://aidaug.org/join>



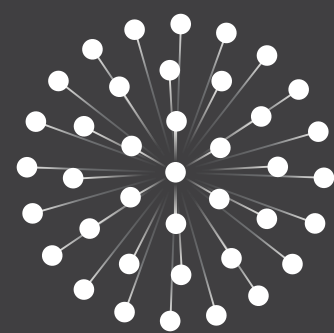
What is a data contract?

- Creates a link between data producers and data consumers.
- Creates a link between a logical representation of the data and its physical implementation.
- Describes meta meta data: rules, quality, and behavior.



What are the problems we are trying to solve?

- Normalizing and keeping documentation relevant.
- Describing service-level expectations.
- Easing data & tools integration.
- Enabling data product thinking.



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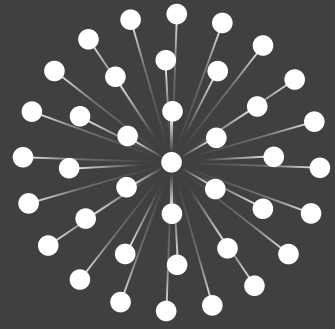
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Benefits of a standard

- Boosting innovation.
- Simplifying integration.



<https://aidaug.org/odcs>

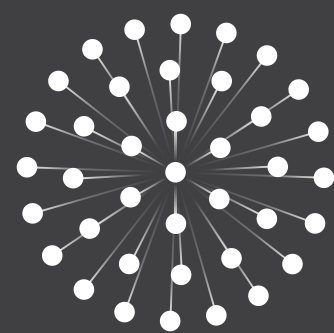


Who uses the Open Data Contract Standard?

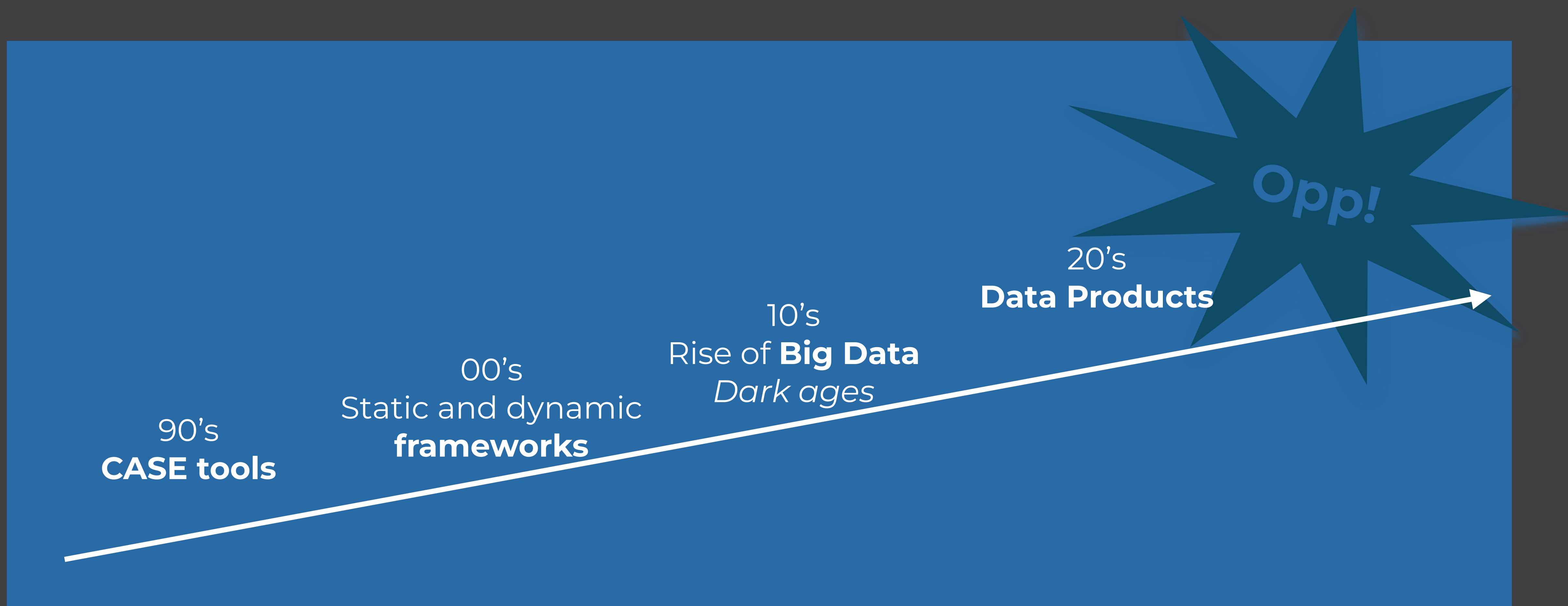
Various levels of maturity in:

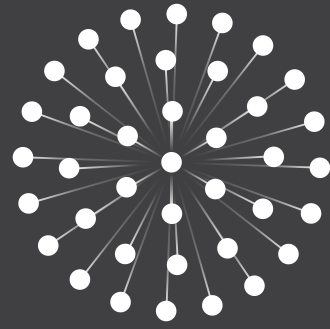
- Fortune 500: peer-to-peer payment leader, major cable company.
- Startups: several data-oriented startups in Europe and in NA (Among them: Raito, Innoq).
- Mid-market companies: in the US & Europe (Among them: ProfitOptics, Innoboost).
- An active user group behind the standard (AIDA User Group).
- A community (Data Mesh Learning).

Active recruitment of users & vendors underway!



History of data-related development



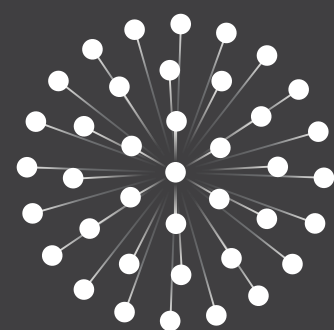


A popular standard

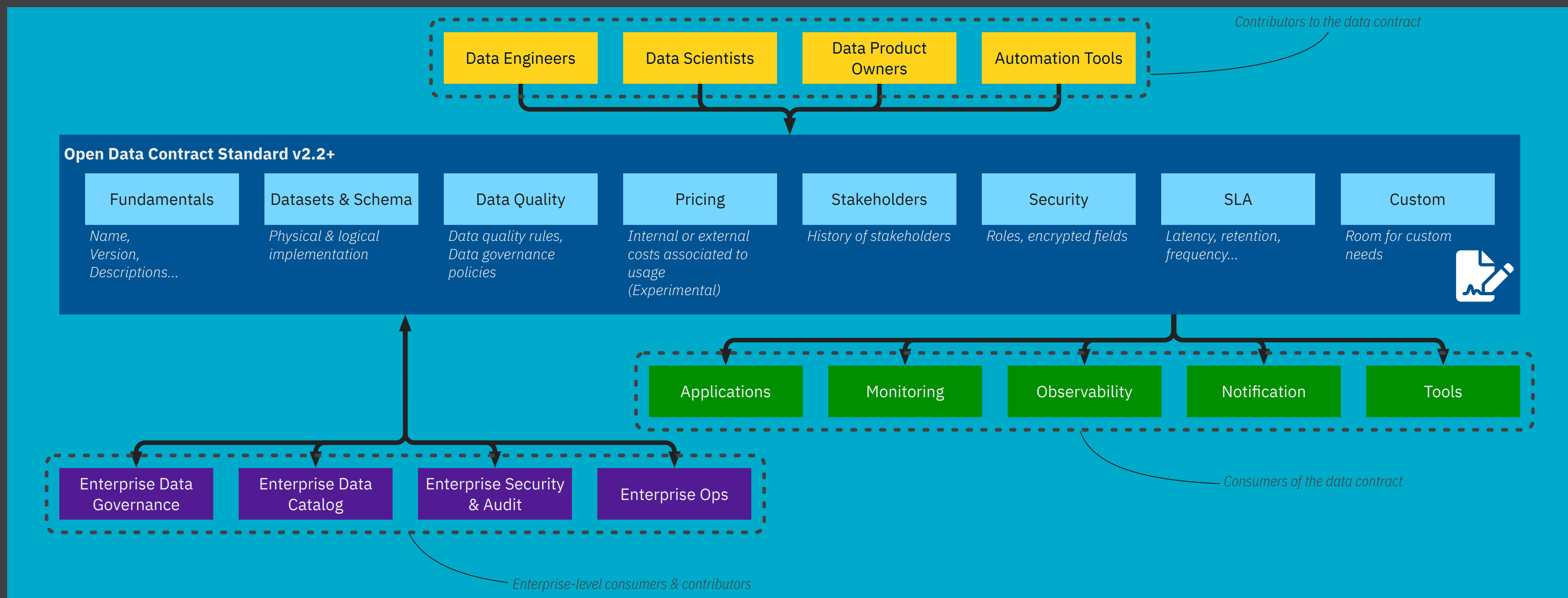
	<u>PayPal</u> (Until v2.1)	<u>ODCS</u> (From v2.2)	Cumulative
Stars	360	27	387
Forks	38	44	44
Contributors	5	11	11

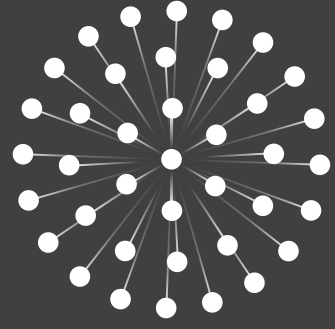


<https://aidaug.org/odcs>



Architecture & Content



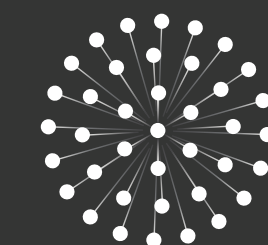


Implementation

- YAML file, both human -and computer-readable.
- Language agnostic.

- **table:** tbl Table name
 - description:** Provides core payment metrics
 - dataGranularity:** Aggregation on columns txn_ref_dt, pmt_txn_id
 - columns:**
 - **column:** txn_ref_dt
 - 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.
 - sampleValues:**
 - 2022-10-03
 - 2025-01-28

Mapping from logical to physical world



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- **table:** tbl

columns:

- **column:** rcvr_cntry_code

businessName: Receiver country code

logicalType: string

physicalType: varchar(2)

Multiple links to enterprise definitions

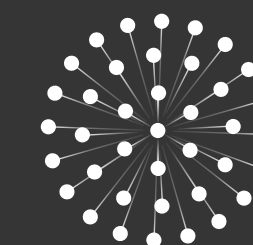
authoritativeDefinitions:

- **url:** <https://collibra.com/asset/748f-71a5-4ab1-bda4-8c25>

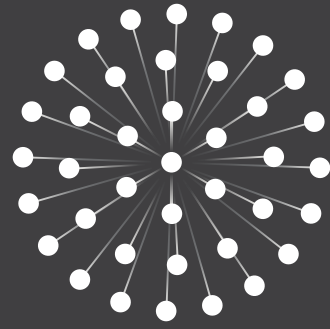
type: Business definition

- **url:** <https://github.com/myorg/myrepo>

type: Reference implementation



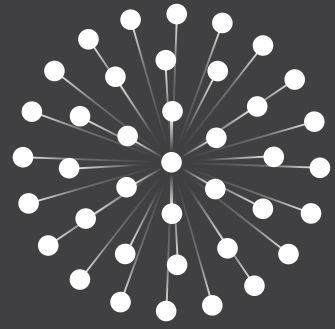
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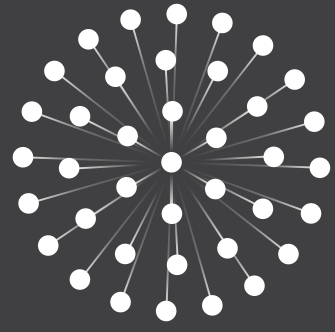
Evolution of this project

	Phase 0	Phase 1	Phase 2	Phase 3	Phase 4
Standard	Open source by PayPal and developed by AIDA	Publish ODCS v2.x	Animate a working group Publish ODCS v3.x (lic. change)	Publish Data Product Standard (ODPS) v1.x Evolution of ODCS	Publish Data Mesh Standard (ODMS) v1.x Evolution of ODCS & ODPS
Tools	No	ODCS parser	ODCS validator	Updated & new parsers & validators	Updated & new parsers & validators



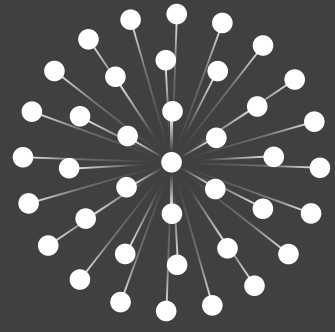
Communication plan

- 9/11 IBM TechXchange
- 9/20 Big Data London (Chat with exhibitors)
- 9/27 IBM TechTalk (Online APAC)
- 9/28 IBM TechTalk (Online Americas)
- 10/15 All Things Open (Raleigh, NC, USA) - LF announcement
- Q4: Articles
- 2024: Several conferences, articles, at least one **book** (Implementing Data Mesh, O'Reilly)



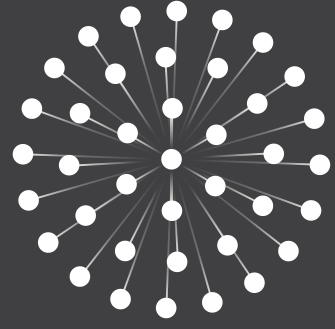
Roadmap post LF incubation

- Create a set of Open Standards, around:
 - Data Contracts.
 - Data Products.
 - Data Mesh.
- Host open-source tooling.
- Provide guidance around licensing & operations.



Request to the Linux Foundation

Requesting the support of the TAC to host the project in LF AI & Data as a Sandbox project.



Appendix - Evolution of DC

- Support for unstructured documents
- Support for IoT data
- More details on the relation between data
- ...