

**FINOS**

Fintech  
Open Source  
Foundation

# Pure/Alloy Kick-Off

FINOS

Last updated: 2020.1.30



# Agenda

- Introductions & Pilot Participants
- Goals & Timeline
- User / Modeler Onboarding
- Rules of the Road
  - FINOS Antitrust Policy
- Support
- Meeting Cadence
- Online Collaboration
- Modeling Scope

# Introductions & Pilot Participants

# Goals

- Evaluate how shared modeling can work using Alloy and define the best process to work together
  - Governance process
  - Collaboration amongst banks
  - Technical solution
- Find a good use case, with propensity for value creation through shared modeling and data shaping, and then work on (i.e., model) something “production relevant”
  - Ideally shared models can and should also be contributed back to respective standards bodies such as ISDA for derivatives (e.g., proposed changes to the CDM)
  - FINOS members and community can provide further momentum by implementing models and supporting standards by convention

# ("Wave 1") Pilot Participants

## FINOS Members

- Goldman Sachs
- Morgan Stanley
- RBC
- Citi
- DB
- Credit Suisse (?)
- Wells Fargo (?)
  
- Gitlab

## Non-Members

- Barclays
- Itau
- SocGen (?)
  
- Digital Asset
- Clovyr (?)
- Axoni (?)
  
- ISDA

# Goals and Timeline

# PURE/Alloy Launch Plan Phases

- **Phase 0: OSSF Announcement; PURE/Alloy Deployment of Sandbox into AWS; Build Documentation Site**  
**Now**
- **Phase 1: Limited Availability Pilot Period Group Access to Sandbox**  
**Q1 2020**
- **Phase 2: General Availability of the Sandbox and Public Availability (Open Sourcing) of PURE/Alloy Source Code in FINOS**  
**Q2 2020**

# PURE/Alloy Launch Plan Milestones

Milestone	Participants	When
<b>Phase 0: OSSF Announcement and PURE/Alloy Deployment of Sandbox into AWS</b>		<b>Now - End of Year</b>
Announcement of intent to contribute PURE/Alloy at Open Source Strategy Forum	GS plus several banks and/or 1-2 non-bank industry partners	Completed!
Hosted PURE sandbox deployed to AWS	GS + FINOS w/ support from Gitlab	Stood Up & Nearly Ready!
<b>Phase 1: Limited Availability Pilot Period Group Access to Sandbox</b>		<b>Q1 2020</b>
Launch limited availability of sandbox; Collaborate on shared models	GS plus participating banks and other partners	<b>Today &amp; This Week</b>
<b>Phase 2: General Availability of Sandbox; Public Availability (Open Sourcing) of Code</b>		<b>Q2 2020</b>
Public availability of the sandbox	FINOS Community	Target June '20
Code available in FINOS Gitlab	FINOS Community	Target June '20



# User & Modeler On-boarding

# User & Modeler Onboarding

- Identify modelers
  - Name
  - Github ID
  - Corporate Email Address
- Check corporate CLA
  - Citi, Barclays, RBC
- Check users are listed on CLA
- Set users up in alloy.finos.org
- Check access

# Do Now

- Confirm that your company has an active Contributor License Agreement with FINOS
  - Email [alloy-inquiries@finos.org](mailto:alloy-inquiries@finos.org), which goes to Aitana and Rob, if you are unsure
- Provide full names, corporate emails, and Github IDs of anyone who you'd like to have access to FINOS at [help@finos.org](mailto:help@finos.org).
- 
- Questions about any of this? Ask FINOS (Aitana and Rob) with an email to alloy

# Rules of the Road

# Rules of the Road

- Agenda
- Meeting Minutes
- [FINOS Antitrust Policy](#)

Support

# Support

- FINOS is first line of support
- Send support requests to [help@finos.org](mailto:help@finos.org)
- If/as needed we'll escalate to Gitlab, GS, AWS, etc.
- General questions to FINOS about Alloy may go to [alloy-inquires@finos.org](mailto:alloy-inquires@finos.org), but if you need support w/ logging on, technical issues, etc. email [help@finos.org](mailto:help@finos.org)

# Meeting Cadence



# Meeting Cadence

- Bi-Weekly Meetings (This Meeting!)
- Monthly General Meetings
- Ad Hoc Training Sessions

# Online Collaboration

# Online Collaborations

## 1. Mailing Lists -- Google Groups

### a. [Alloy Pilot Project Group List](#)

- i. Subscribe w/ email to [alloy-pilot+subscribe@finos.org](mailto:alloy-pilot+subscribe@finos.org)
- ii. Post with email to [alloy-pilot@finos.org](mailto:alloy-pilot@finos.org)

### b. [Alloy General List](#)

- i. Subscribe w/ email to [alloy+subscribe@finos.org](mailto:alloy+subscribe@finos.org)
- ii. Post with email to [alloy@finos.org](mailto:alloy@finos.org)

## 2. Github / Gitlab Issues & Kanban

## 3. Alloy Updates from FINOS

- a. Subscribe at <https://www.finos.org/alloy>

# Modeling Scope

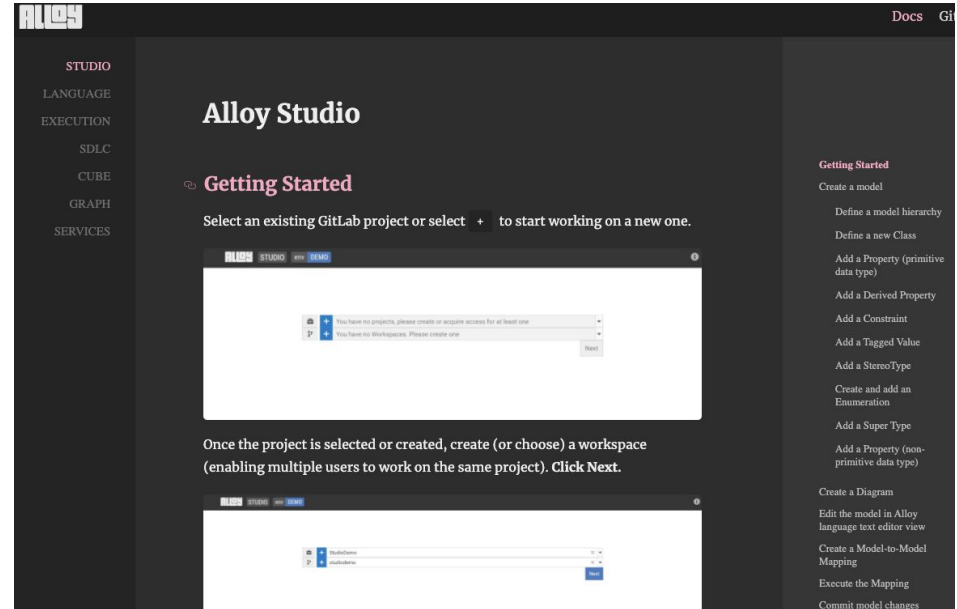
# Modeling Scope Ideas

- FX Option
- RFQ
- ESG
- Other ideas?

# Documentation Site

# Documentation Site

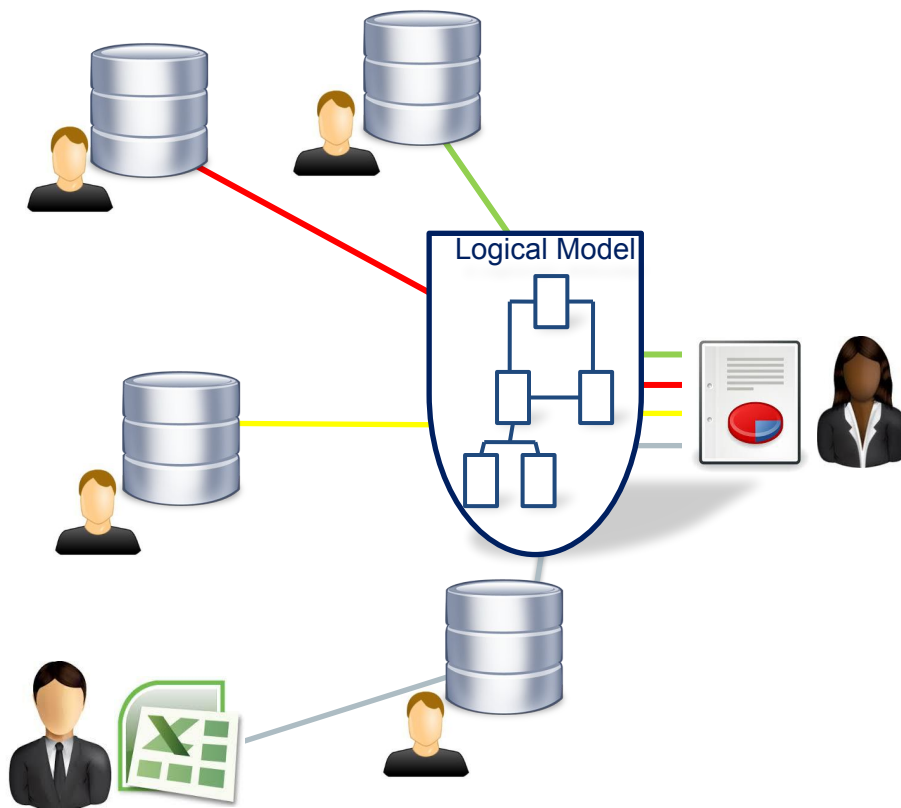
[alloy.finos.org](https://alloy.finos.org)



PURE/Alloy  
Background



# Logical Modeling

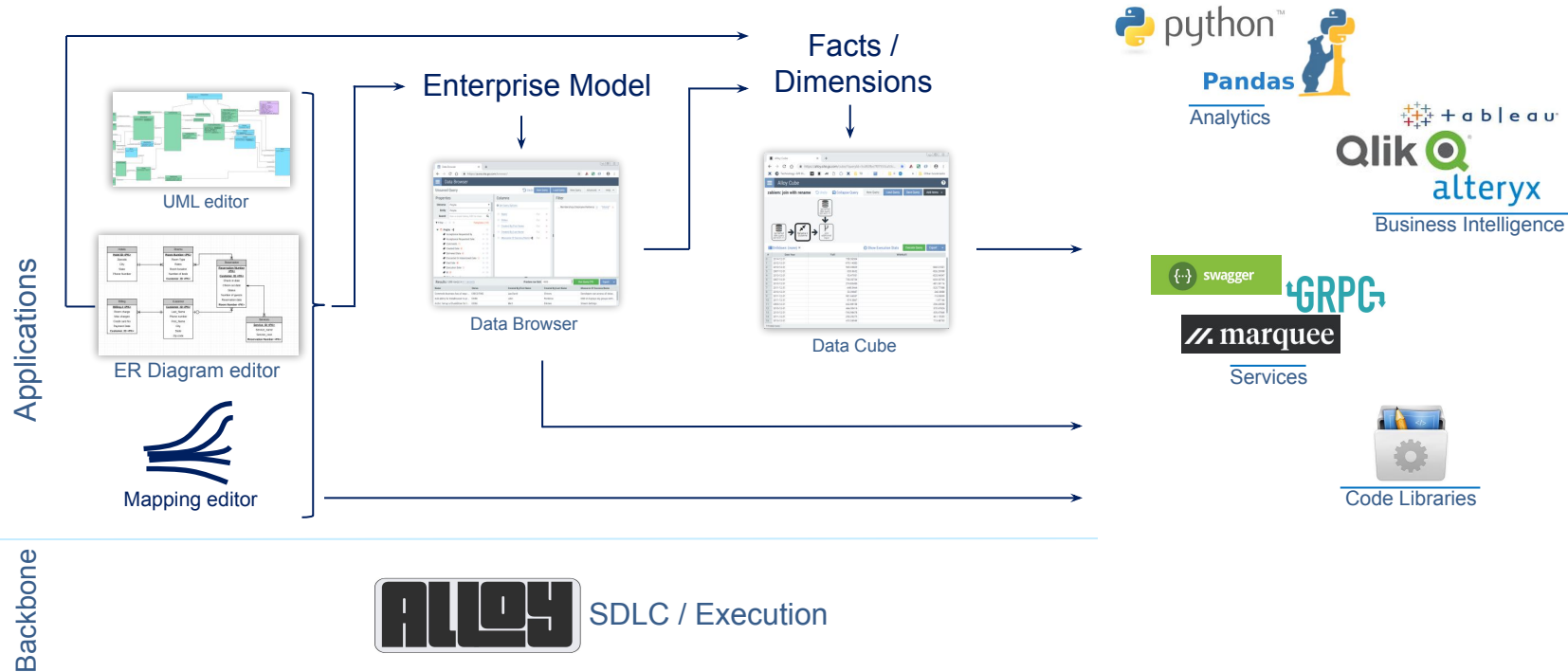


- ▶ Building a logical model improves the communication between the stakeholders. Brings a vocabulary to accelerate discussions
- ▶ Normalizes the access protocol
- ▶ Decouples from technology and thus can be adaptive in terms of SLA
- ▶ Normalizes and automates transformations (limit the need for reconciliations)
- ▶ Helps discover the authoritative sources and simplifies the data flow

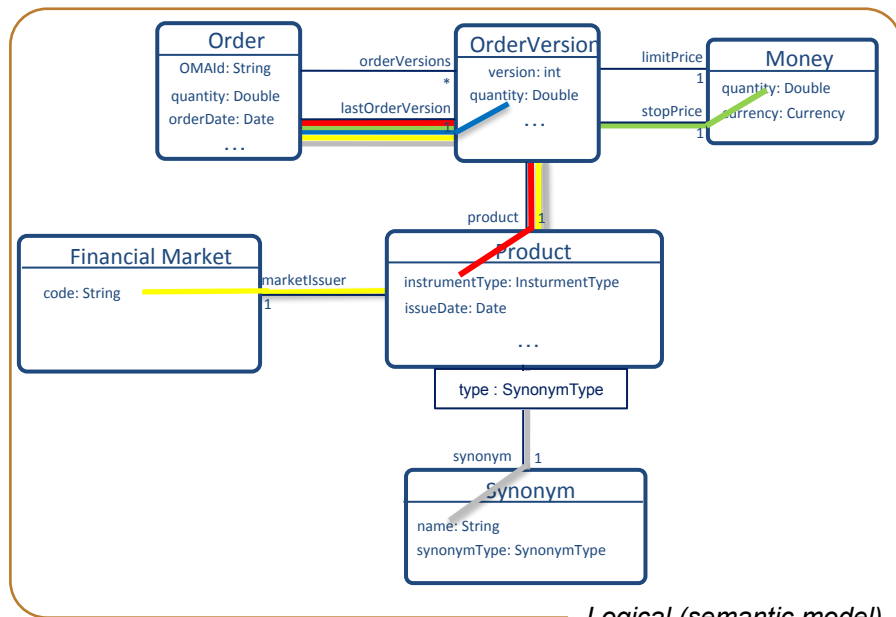
# Logical Modeling

- A logical model is not a reporting model, its scope is broader and is meant to scale across organizations.
- Tooling for transformations is important as it allows for the creation of several models having different levels of granularity for different consumers.
- Differences with common modeling environments:
  - Provides metamodeling capabilities
  - Provides transform, constraints and derivations
  - Several language translators available (to make models executable).
  - Enable What You See What You Get (models are accurate).

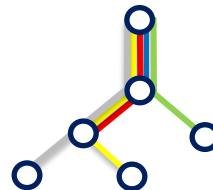
# Provided Applications



# Enterprise Model -> Fact/Dimensions



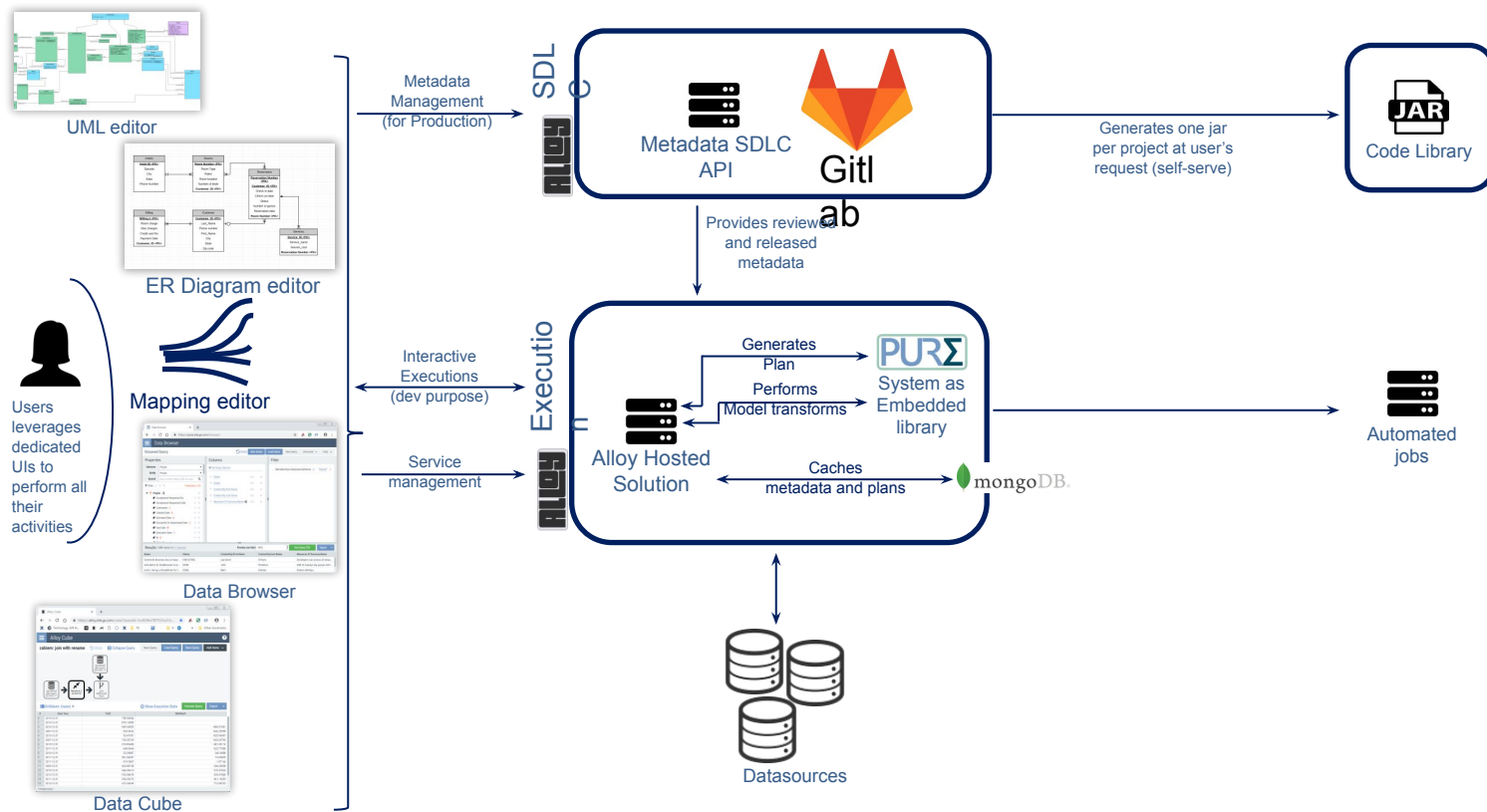
Logical (semantic model)



Tree navigation within the graph

OMAIid	Quantity	Price	ProductType	MarketCode	CUSIP
Order.OMAIid	Order.lastOrderVersion .quantity	Order.lastOrderVersion .stopPrice.quantity	Order.lastOrderVersion. product.instrumentType	Order.lastOrderVersion .product.marketIssuer.code	Order.lastOrderVersion .product.synonym(CUSIP) .name

# High Level Architecture



# Model Query Tool

🏠

Data Browser

Unsaved Query

Undo

Save Query

Load Query

New Query

Advanced

Help

Properties

▼ Projito Memberships

Acceptance Status

Created By

Created Date

Last Updated By

Last Updated Date

Role

► Employee

▼ Risks

Created By

Created Date

ID

Last Updated By

Last Updated Date

Plain Cause

Plain Effect

Plain Mitigant

Rich Cause

Rich Effect

Rich Mitigant

Sort Order

▼ Status Report Line Items

Created By

Created Date

ID

Item Type

Last Updated By

Columns

Set Query Options

Name

Created Date

Projito Memberships/Role

Risks/Rich Effect

Risks/Status Report Line Items/Plain Description

Filter

... Memberships/Employee/Kerberos is "debelp"

Results 1,000 row(s) in 3.5 seconds

Preview row limit 1000

Run Query (F9)

Export

Name	Created Date	Projito Memberships/Role	Risks/Rich Effect	Risks/Status Report Line Items/Plain Description
GS Search Q4 2017 Enhancements	2017-10-17T17:21:09.597000000+0000	TEAM_LEAD		
Securities Flowscope - GSET EMEA	2016-05-31T13:06:55.094000000+0000	MEMBER		

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# Cube Query Tool

Alloy Cube

Goldman Sachs

Demo for [REDACTED]

Undo

Collapse Query

New Query

Load Query

Save Query

Add Items

Trial

→

#  
Distinct Values

→

Join additional input

TAMS-FirmAccount  
IgnitePadTr

↓

Drilldown: "Trial/Division" ✕

Show Execution Stats

Execute Query

Export

#		Trial/Trial...	Trial/Controller Name ...	Trial/Description / Count	Trial/Enti...	Trial/Divi...	Account ...	Account ...	Account ...	Account ...	Account ...	Descripti...	Descripti...	Name / C...	Asset 1
1	▼ FIRMWIDE	763	763	763	763	763	763	763	763	763	763	763	763	763	
2					USD	FIRMWIDE									
3					USD	FIRMWIDE									
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