2023 Q2 -FINOS All Community Call

Gabriele Columbro

Executive Director, FINOS

& FINOS Team









Virtually held on May 17th 2023 at 4pm GMT / 11am EST

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Questions and Answers Grizz, before we start ...

FINOS Community Swag Draw
Live on the FINOS All Community Call
Registered People Only

Remember to post your questions in the Zoom Q&A panel or email help@finos.org

FINOS Fintech Open Source Foundation

finos.ora

Today's Agenda

11:05 Gabriele Columbro: State of the Foundation (15m)

- FINOS 2023 Q1 Highlights
- Welcome Rimma Perelmuter to FINOS

James McLeod: State of the Community (5m)

- Fantastic 2023 Q1 Growth
- Pushing Forward with Diversity, Equity and Inclusion
- London and Edinburgh Open Source Meetups
- Community Achievements and Get Involved

11:25 **Grizz Griswold:** Save the dates and Calls to action (5m)

• Get ready to save the dates of upcoming FINOS events

James McLeod, Rob Moffat, Jane Gavronsky: FINOS Strategic Initiatives (10m)

- FDC3, Open Source Readiness and Open RegTech
- Common Domain Model Highlight

11:40 **James McLeod:** SIG and Community Updates (15m)

- Zenith Emerging Tech SIG
- FINOS and Global Accessibility Awareness Day Hackathons

12:55 FINOS All Community Q&A and Close

FINOS Fintech Open Source Foundation

11:30

Get Involved with FINOS

Browse the <u>FINOS</u> <u>Landscape</u>

Star & watch <u>FINOS</u> <u>Community Repo</u>

Write to the Community Mailing <u>List</u>

Sign up to the <u>FINOS</u> <u>Newsletter</u>

State of the Foundation

Gabriele Columbro, Executive Director, FINOS

FINOS By the #s

MEMBERS

OSS PROJECTS/ SIGs

PLATINUM

BMO (A)

citi

GitHub

Goldman Sachs

J.P.Morgan

Morgan Stanley

UBS

WELLINGTON

MANAGEMENT

GOLD













































SILVER































































turntabl

ASSOCIATE



































FINOS 2023 Q1 Highlights

TEAM & OPERATIONS

In Q1 we put major focus on scalability and future sustainability:

FINOS Welcomes **Rimma Perelmuter** (VP Strategic Growth) and **Joss Poupeney** (Security intern)

Established **leadership team** and new operational model based on 3 strategic initiatives.

Started **first federated meetup** (FDC3 Sweden) and nurturing first US based federated meetup (FDC3 by Bank of America).

Rolled out **new concept for OSFF** including co-location offering for Linux Foundation sister Projects: achieved \$100k in funding from FinOps and Open Mainframe project.

Enabled **TSC operations** and supported creation of Initial proposal for TSC ratification and expectations

Productization via training / cert progressing fast

PROJECTS

We continue to see an organic influx of proposed / contributed projects:





JupyterLab (T)emplates





Initiated Office Hours



Project Launched with 4 Working Groups





Two projects proposed for activation, pending TSC approval:





COMMUNITY AT LARGE

FINOS experiencing largest quarter of unique contributor growth (+17%):

67% Unique Contributor Growth YoY and **235% Pull Request Growth YoY**.

DEI SIG kicked off **Big Boost Mondays** at Citi and Synechron in the City of London and hosts first Big Boost Monday meetup in Dublin by FINOS community request

FINOS and Scott Logic host first 2023 Open Source London Meetup at Nomura

FINOS and Turntabl collaborate to **onboard developers from Ghana/Uganda to FINOS**

Morgan Stanley sent out a proposal for a SIG around Architecture as Code

ISDA, ICMA and Goldman Sachs represent CDM and Financial Objects at FINOS London Meetup finos.org

FINOS Fintech Open Source Foundation

Hot off the press(es)



Fidelity Joins FINOS' Growing Buy-Side Members



The Fintech Open Source Foundation (FINOS), the financial services umbrella of the Linux Foundation, announces the addition of Fidelity Investments as its newest buy-side member joining the foundation's growing community of leading asset managers, hedge funds, and financial services firms. Fidelity's membership represents a continued recognition of the value in open source standards, projects, and initiatives for the entire financial services ecosystem.

Hiring: Welcome Rimma!

NEW VP Strategic Growth for Finos (.8 FTE) & LF Europe (.2 FTE) Joined on April 11th in London.

Responsibilities

- Scale & maximise FINOS' impact by growing the membership base and value globally
- Advancing new transformational projects including value-add across training, certification, research, collaborations with LF projects (e.g. Hyperledger & OWF) & events
 - Liaise with FINOS prospects, members, Board and community to understand their priority business challenges in order to amplify member benefits & prioritise strategic areas/alliances with the highest value-add, revenue backed opportunities
 - Collaborate with the FINOS team & Board to evolve processes, measurement, messaging and engagement opportunities which support Member Acquisition & Success while increasing ROI for FINOS leaders & contributors
 - o Support growth of LF footprint in Europe across the technology collaboration spectrum

Bio

- 20+ years digital trade trade body/'do-tank' leadership CEO and Co-Founder of Mobile Ecosystem Forum (MEF); Executive Director Datum Future; Partnerships Open Data Institute (ODI) & Internet Commission
- Expertise in cross-sector ecosystem development; growth & monetisation; strategy & communications; project leadership and advocacy; stakeholder relations & governance
- Senior cross-sector networks/knowledge in digital transformation & mobile ecosystems; ethical data & AI;
 human-centric innovation & public-private partnerships

The pilot TSC is being formalized!

https://github.com/finos/technical-steering-committee

Q1-2023 Progress update

- Assisted in project archiving project
- Evaluated Compliance Horizon Scanning contribution (rejected)
- Determined role in project activation process
- Provided numerous ideas for BMO Hackathon
- Agreed TSC responsibilities and proposed Charter

June 2022 - April 2023 Accomplishments Overview

- Held 12 meetings (all minuted)
- Established ways of working
- Created contribution principles, and reviewed 6 contributions
- Provided detailed input into CDM discussions
- Provided numerous ideas for BMO Hackathon

Governing Board outcomes

- Agreed on <u>responsibilities</u> and expectations for the TSC
- Agreed on high level ongoing composition:
 - o 12 members
 - 6 elected by the GB
 - 6 elected by the TSC
- Meritocracy path: candidates can be Members or active contributors
- Meritocracy based transition: high attendance and active participation rewarded



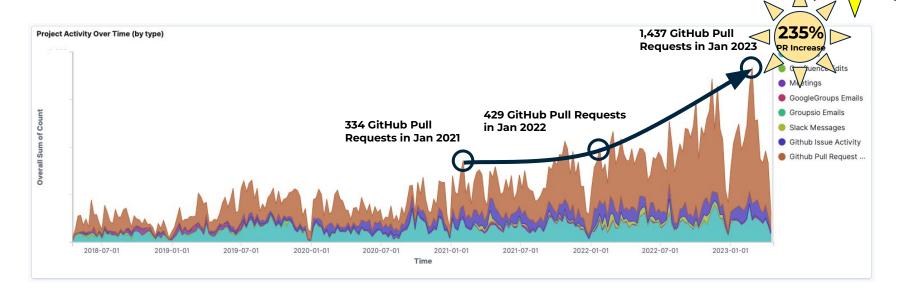
State of the Community

James McLeod

Director of Community, FINOS

The state of the FINOS Community

- Unique contributors growing at 67% YoY from Q1 2022 to Q1 2023
- Pull requests increased by 235% YoY from Q1 2022 to Q1 2023
- Growth includes Vuu, FDC3 Conformance FW / Sail, Templates for Jupiter Lab

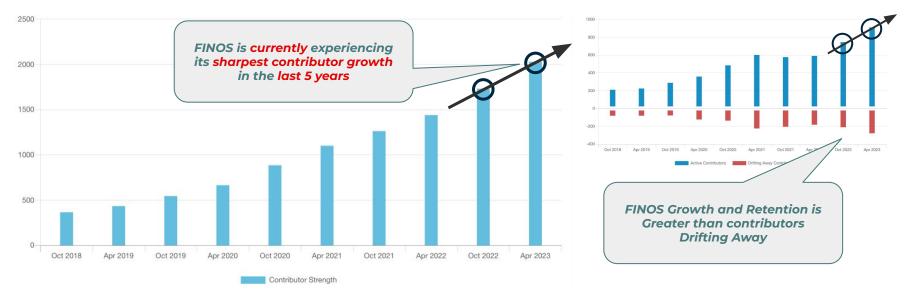


Keep an eye our **COMMUNITY DASHBOARD** now on **LFX** (and with trends)

Growth

The state of the Community

- FINOS is currently experiencing the sharpest rate of contributor growth for 5 years
- FINOS is experiencing a 17% Contributor Increase QoQ Q1 and Q2 2023
- Figures currently exclude GitLab, FINOS Meetups and All Community Calls



Keep an eye our **COMMUNITY DASHBOARD** now on **LFX** (and with trends)

FINOS DEI SIG Driving Community Growth

Big Boost Mondays kicked off with Zngly at Synechron, Citibank in London and Dogpatch Labs in Dublin.

Coming up: Red Badger, London and Microsoft, Dublin.

238 Total Registrants (first 3 events)

- **45** Senior Stakeholders / Professionals
- **36** Exploring FINOS and Open Source
- **10** LGBTO+
- 2 Technology Curious

Resulting in membership enquiries from **Red Badger**, **Split** and **Model Office**.

BBM community being onboarded through Daily FINOS Office Hours.













FINOS Open Source London and Edinburgh Meetups

The FINOS and Scott Logic Open Source meetups kicked off at Nomura, London and Scott Logic in Edinburgh.

Both events were joined by phenomenal speakers from across the FINOS and wider open source landscape.

Thank you Dawn Foster, Eric Schabell, Tandy Nichole, Ffion Ackland, Ian Sloyan, Gabriel Callsen, and Nick Kolba for joining us in London.

A massive thank you to Nomura for hosting us in your impressive auditorium.















FINOS STRATEGIC INITIATIVES OPEN HOUSE

The OSinFinance Meetup, titled "FINOS Strategic Initiatives Open House," took place on May 1, 2023, in NYC. The event aimed to promote FINOS' strategic initiatives in open regulation, open source readiness, and desktop interoperability and had over 40 people in attendance.

Rob Moffat, Senior Technical Architect at FINOS; Kabir Rekhi, Director and Head of Business Architecture at RBC; and Nick Kolba, CEO and founder of Connectifi, shared their expertise and delivered captivating presentations on open source readiness, regulation innovation, and interoperability. Their insights illuminated the possibilities and advantages of embracing open source practices, fostering regulatory collaboration, and implementing standardized approaches.

Thank you to Synechron team for graciously hosting FINOS again for our FINOS Strategic Open House!



Kabir Rekhi
Director and
Head of Business
Architecture at
RBC



Nick KolbaCEO + Founder
Connectifi



Rob Moffat
Senior Technical
Architect
FINOS

FINOS featured SIGS + projects









FINOS INTEROPERABILITY & HACKATHON AT BMO

On May 3-4, FINOS ran a Hackathon event, hosted BMO (Times Square, New York City), to collaborate and innovate in solving real-life problems within the financial space; use cases had been defined by FIN members, and the event was open to all developer 321

We had **74 in person attendees**, who had the opportunity to pitch their own ideas or choose from a sample of different use cases, leverage FINOS Projects, meet the project maintainers, and exchange code and ideas with fellow developers across the FSI landscape.

Thank you to BMO and MLH for your invaluable sponsorship and support for helping create a truly unforgettable experience.

This slide has moved to later on in the flow so not to duplicate ...

https://docs.google.com/presentation/d/1Z DZsEe5tMILpvkfc5fhNf3w_vsQTBqLtYNM _Gx4rZYk/edit#slide=id.g245164fb318_2_ 321





Other Numbers

- 2 main themes
- 15 sample use cases
- 4 judges
- 10+ teams
- 12+ Team members from BofA



Recognising Community Achievements

- Massive FINOS community support for Big Boost Mondays. Putting DEI first!
- Zngly pioneers Big Boost Mondays in UK and Ireland. Impressive energy!
- Scott Logic organised awesome Open Source London meetup at Nomora
- Open Source Edinburgh meetup hosted by Scott Logic. Amazing community!
- Congratulations Turntabl for impressive pull requests contributed to FINOS
 - o It's amazing working with contributors from Ghana and Uganda. You rock!
- FINOS contributes to awesome Global Accessibility Awareness Day Hackathon.
- Morgan Stanley and UBS collaborate on TraderX and Vuu. Innovation at work!
- Common Domain Model grows community through multiple FINOS events.
- FINOS NYC meetup hosted by Synechron. Thank you for your support.
- Emerging Tech SIG for their work on their proposal. Congrats and welcome to FINOS!







The FINOS Community Needs You!

- Join the <u>DevOps Automation SIG</u> on Wed 18th May at 5pm BST / 12pm EST to discuss the <u>Architecture as Code SIG</u> proposal and how best to move forward.
- Join the <u>Backstage Working Group</u> on Thurs 25th May at 4pm BST / 11am EST where Carl Nygard from Thoughtworks guides the group on Backstage in FSI.
- Join the <u>Common Domain Model</u> Working Groups every Tuesday at 10am EST /
 3pm BST and become part of this rapidly accelerating FINOS project.
- Join <u>Legend Office Hours</u> Today at 12pm EST / 5pm BST to be part of an engaging session that's answers your Legend questions every Wednesday.
- Join the <u>FINOS Diversity Equity and Inclusion SIG</u> to get involved and help sponsor upcoming meetups and events.

Save the Dates & Get Involved with FINOS

Aaron Griswold

Marketing Director, FINOS

FINOS Open House: June 14 London (Open to All)

Elevator Pitch

Join us for an **engaging afternoon of thought-provoking panel discussions on the latest trends in open source technology for finance**, including readiness, interoperability, and emerging innovations. We'll show members and non-members alike how they can actively participate in FINOS' strategic initiatives, which are specifically designed to meet the needs of the financial services industry. Take advantage of this exciting opportunity to connect with like-minded professionals and **learn about the future of open source in finance!**

We're also thrilled to **announce our partnership with The RegTech Association,** a FINOS Associate Member, for a RegTech Global Showcase. Join us in showing some love to open regtech and be a part of the exciting discussions and presentations. **This is a great opportunity to learn about the future of regtech in finance!**

Attendee & Member Value

- Great afternoon to give your employees a sample of FINOS to see where their interests in innovation lie around
 - Open Source Readiness
 - Open Regulation Innovation
 - Interoperability / FDC3
 - Emerging Technology
 - Payments
- Use FINOS Project Expo / Implementation Demos (both June 14 & 15)
 - o Show off your company's use of FINOS projects
 - o Expand community's understanding of FINOS landscape
 - Develop new connections through FINOS projects





finos.org

FINOS Fintech Open Source Foundation

Member Meeting: June 15 London (Member Only)

Elevator Pitch

Don't miss out on our exclusive member-only sessions where we'll delve into our key initiatives for 2023 at J.P. Morgan Chase - Embankment, London. You'll have the perfect opportunity to connect with fellow FINOS members, learn about Member-confidential new projects proposals and maximize the value of your FINOS membership. **Hurry, space is limited per member!**

Member Value

- Learn how to use your FINOS Membership & open source to
 - Decrease & distribute costs
 - Increase speed to market
 - Increase collaboration
 - Increase talent base
- Learn about and help drive the direction of FINOS Strategic Initiatives having deeper Member discussions around:
 - Open Source Readiness
 - o Open Regulation Innovation
 - Interoperability / FDC3
- All in a safe, Chatham House Rule environment





Special Thanks Our Host



finos.org

Open Source in Finance Forum - November 1 New York (Open to All)

Flevator Pitch

- Open Source in Finance Forum returns to New York City this November 1st! The only conference dedicated to driving collaboration and innovation in financial services through open source software and standards.
- We bring together experts across financial services, technology, and open source to engage our community in stimulating and thought-provoking conversations about how to best (and safely) leverage open source software to solve industry challenges.

Member Value

Get in front of our FINOS Community of:

- Sell Side Banks
- Buy Side Firms
- Big Techs / Cloud Service Providers
- Systems Integrators
- Regtechs / Fintechs
- Regulators

Via:

- o <u>Sponsorina</u>
- Speaking
- Project "Expoing"
- Attending & Networking





Around:

- Open Source Readiness
- Open RegTech
- Interoperability / FDC3
- Emerging Technology
- FinOps
- Open Mainframe



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FINOS Strategic Initiatives

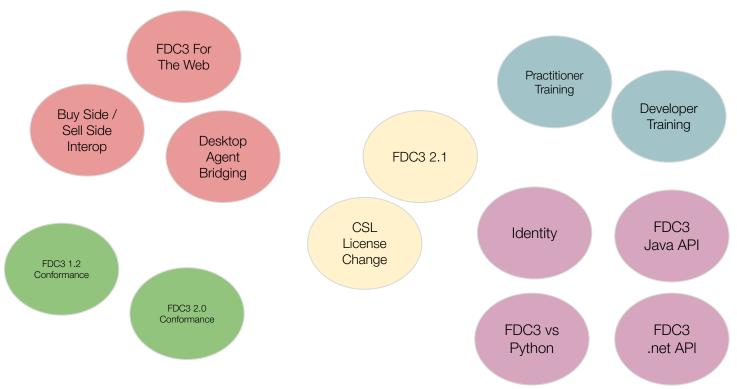
Jane Gavronsky

Chief Operating Officer, FINOS

FDC3 Strategic Initiative: Status

Strategic Initiative Manager: Rob Moffat (Sr Technical Architect)





Open Source Readiness

Strategic Initiative Manager: Rob Moffat (Sr Technical Architect)

Body Of Knowledge (Q1 - ongoing)

- **20 pull requests** merged since February 2023.
- 2 SIG meetings per month alongside weekly blog publications.
- Community written articles that include Lloyds Banking Group,
 DFS, Deutsche Bank and Goldman Sachs 21 Authors
- Content and materials topic-mapped and prioritised with SIG
- Completed sections on Risks, Maturity Levels and Roles.
- Available to read at osr.finos.org

Training (Q2)

- Inventory of LF Training in the Body of Knowledge
- Working with DB, Citi, Discover, UBS to build a syllabus.

Practitioner Certification (Q2)

- 13 SMEs signed the hubspot form to get involved in this

OSMM (Q3 / Q4)

- Discussing with Wipro how to evolve the OSMM to match the BoK Maturity Levels and Activities



For Your Diary

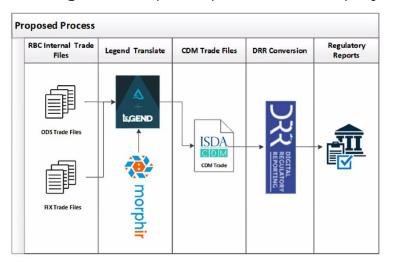
SIG Meetings: **1st and 3rd Wednesday** Each
Month

FINOS Members Meeting **15th June**

Open RegTech Executive Update

Proposed 2023 approach

- Engage 1 or 2 Regulators to Participate in FINOS project
- Demonstrate 1 or 2 reg driven "steel thread" use cases
- RegTech SIG participates in FINOS project development















US LCR

Open RegTech Ecosystem Update

Open RegTech SIG

- Ian Hollowbread from ING stepped down as Open RegTech SIG lead.
- Kabir Rekhi (RBC) and Stephen Goldbaum (Morgan Stanley) approved as new SIG leads.
- Open RegTech Reference Architecture and Morphir LCR added to BMO hackathon use cases.

Morphir

- Version 2.78.0 released that includes Insight, TypeScript and Cadl updates.
- Work in progress to expand Morphir into .NET happening in Morphir community.

Financial Objects SIG

- SIG leads working to align community discussions to data modeling related to regulation compliance
- Goldman Sachs and PeerNova introductions for Product Control Common Template testing. Need
 - Need to start work and move forward with SIG recognition and advocacy

Common Domain Model

- CDM Gains Momentum with Active Participation from Diverse Financial Community
 - The inaugural Contribution Review Working Group had over 70 attendees
 - Jane presented at the London CDM Showcase
- ISDA to showcase a CDM use case at the FINOS Interoperability & RegTech Hackathon

Legend

- Common Domain Model Version upgraded in Legend
- The Legend team kickoff office hours every third Wednesday of the month
 - The Inaugural Legend Office Hours on April 19th had 18 attendees



Project Highlight: CDM

Strong progress and interest in the CDM since project launch on March 14, 2023

- 4 Working Groups formed
- 70+ attendees at the inaugural meeting
- Meetings occurring weekly on Tuesdays at 10 AM EST
- Information available at FINOS Resource Center
- Strong interest from RegTechs and software vendors
- <u>CDM Showcase</u> hosted in London by the Associations on February 21, 2023
 - o ISDA Scott O'Malia remarks
 - o ISLA Andrew Dyson reflections
- Press coverage:
 - SecuritiesFinanceTimes
 - Sharegain



Common Domain Model



Cross industry collateral

Fech stack, Rosetta DSL.

packaging, base libraries,

JSON, static data,

The FINOS Structured Products

the build and support of

project, led by Goldman Sachs and

FragmosChain, aims to accelerate

structured products in the ISDA

Common Domain Model (CDM).

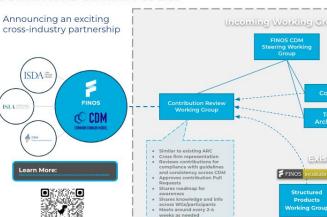
(derivatives, repo, etc.)

Creates overall FINOS CDM

roadmap Approves FINOS WGs Approve FINOS releas

Collateral WG

Architecture WG









CDM: promoting data standardisation across the trade lifecycle

Bob Currie reports on efforts to promote a common digital representation of lifecycle events for securities lending, repo and derivatives trades and examines what comes next on the Common Domain Model project agenda

04 April 2023 Share this article The Common Domain Model — or CDM — provides a common data representation of transaction events, offering a common template or set of fields that the industry will use to share trade information and other key data. Among multiple benefits, CDM adoption aims to reduce the burden of reconciliation and lower the risk of mismatches or settlement failure caused by inconsistency in how data fields are used.





SIG & Community Updates

James McLeod

Director of Community, FINOS

FINOS and BMO Hackathon New York City and London

Kim Prado, CIO, US Capital Markets - BMO





FINOS INTEROPERABILITY & REGTECH HACKATHON AT BMO

BMO CALLED IN THE STATE OF THE

On May 3-4, FINOS ran a Hackathon event, hosted by BMO (New York City and London), to collaborate and innovate in solving real-life problems within the financial space; use cases had been defined by FINOS members, and the event was open to all developers.

We had **100+ in person attendees**, who had the opportunity to pitch their own ideas or choose from a sample of different use cases, leverage FINOS Projects, meet the project maintainers, and exchange code and ideas with fellow developers across the FSI landscape.

Thank you to BMO and MLH for your invaluable sponsorship and support for helping create a truly unforgettable experience.





Other Numbers

- 2 main themes
- 15 sample use cases
- 4 judges
- 10+ teams
- 12+ Team members from BofA



CONGRATULATIONS TO THE FINOS AND BMO HACKATHON WINNERS! **

1 - FDC3 Java API

The Wellington team ported the FDC3 API from Typescript into Java so that it could be used in an existing Java trading application

2 - Jupyter Notebook with FDC3 integration

The Adaptive team led this project, which managed to get FINOS' FDC3 Sail Desktop Agent to run a Jupyter notebook as an FDC3 application, communicating with other FDC3 applications

3 - LCR using Morphir

Working on the existing LCR implementation powered by Morphir and originally contributed by Morgan Stanley, RBC, Capital One and Citi developers have joined together to make progress around implementation, bug fixing, validation and testing.

4 - TraderX

A sample trading application which can be used for experimenting with various techniques and other open source projects, built by a team composed by Morgan Stanley and UBS

5 - FDC3 Share Identity

A proof of concept to allow the user's identity to be shared as FDC3 context across applications, built by the Symphony team



Find Hackathon Project Code on GitHub





Themes



INTEROPERABILITY

Apps and workflows to integrate trading, processing and reporting environments

Data sources, APIs, federated identity, authorization and application security

Hidden as over extending section

Automate manual processes and build real-time reporting to meet regulatory requirements

Open standards & open source adoption across the industry

Use Cases and Teams

Review Use Cases

Select a Us

Hidden as over extending section

- List of sample use cases: github.com/finos/com munity/discussions, or...
- You can pitch your own use case come and talk to us!

- Each team
 a use case
 project to deliver on it
- Teams can be partially remote and should be
 2-4 members
- If you need support finding a team, join our team building event after opening

- judges on stage
- Demos should be 3-5
 minutes long

Will

Meet our Judges

- Kim Prado (BMO)
- Micheal Lynch (Symphony)
- Kabir Rekhi (RBC)
- Stephen Goldbaum (Morgan Stanley)



Potential to become a FINOS top level project





Fintech Open Source Foundation

Emerging Technologies SIG Update

Keith O'Donnell, Emerging Technology Commercialisation Specialist, Feynic



Zenith SIG

What is Zenith?

Zenith is an industry-wide collaborative effort, ran by FINOS, to understand, define and build standards that enable us all to adapt emerging technologies

Why do we need Zenith?

- Reduce common effort on emerging technologies
- Share ideas across theoretical, technical and commercial
- Recognise expertise across many disciplines to encourage trusted dialogue
- Provide exploratory sandboxes to remove barriers on technical readiness

What are our goals?

Create a Brain Trust	Develop Emerging Technology Primers
Run a collaborative POC Program	Launch & Support Open Source Standards/Libraries



How to get involved:

Join the mail group to stay informed by emailing: **zenith+subscribe@lists.finos.org**

If you are part of an Innovation lab, and want to work with us, please reach out at **keith@feynic.com**

If you would like to nominate yourself or a colleague as a subject matter expert for the brain trusts, please reach out at **keith@feynic.com**

Morgan Stanley





Global Accessibility Awareness Day Hackathon

Dan Gisolfi, Distinguished Engineer, Head of Innovation - Discover



Global Accessibility Awareness Day Hackathon

Purpose

The purpose of this hackathon is to promote the design of accessible inclusive digital and physical financial assets and tools. Specifically:

- Bring attention to the end-to-end collaboration challenges between designers and developers as it relates to risk compliant accessibility solutions
- Explore the uses cases for where accessibility inclusion is applicable to Financial Institutions

Sponsors

Gold Sponsors





FINOS Members

Silver Sponsor

Bronze Sponsor





Non-FINOS Member

Non-FINOS Member

Metrics

- **199** registrations
- 79 teams formed
- **78** workshop attendees
- Participants from 27 countries
- 11 qualified project submissions across 3 challenge statements
 - Discover's Design Thinking Track: 5
 - Discover's Hack-The-Code Track: 3
 - AXA's Hack-The-Code Track: 3

Q&A and AOB

Finally ...

- Watch the FINOS Community Repository
- Raise a <u>FINOS Community Recognition</u>
- Find a Project / SIG on the <u>FINOS Landscape</u>
- Join a FINOS Project or SIG Meeting