

CORE: a community-driven solution

Sam Hume, DSc VP, Data Science, CDISC 2022 Europe Interchange



Meet the Speaker

Sam Hume

Title: VP, Data Science

Organization: CDISC

Sam Hume leads the CDISC Data Science team, which collaborates with CDISC staff and stakeholders to develop tools and standards that support clinical and translational data science. Sam directs delivery of the CDISC Library metadata repository that houses all CDISC standards, co-leads the CDISC Data Exchange Standards team, and leads the technical CDISC RWD efforts. He has 25 years' experience in clinical research informatics and has held a number of senior technology positions in the biopharmaceutical industry. He holds a doctorate in information systems.

Transitioning CORE development to be driven by an open-source development model



How does CORE development happen today?



How is an open-source driven community different?



How will we transition from today's development model to an open-source model?



When will we transition to an open-source development model?



cdisc



How does CORE development happen today?

CORE Development Today

Join the Team



https://www.cdisc.org/core

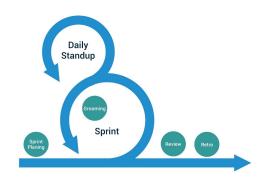
Volunteer for CORE

Environment



Azure DevOps

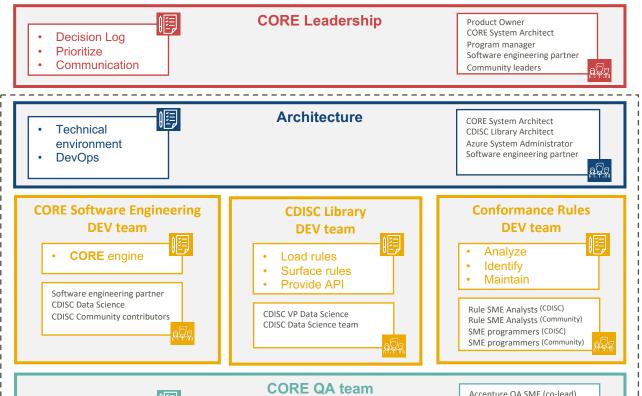
Process



Scrum Framework



CORE Team Structure





Accenture QA SME (co-lead) CDISC Data Science team CDISC Standards team

Community Leads Community members

Scrum of scrums
Agile Methodology





How is an open-source driven community different?

What will make CORE community-driven?

Open-source license Open-source development model Open-source governance model GitHub platform



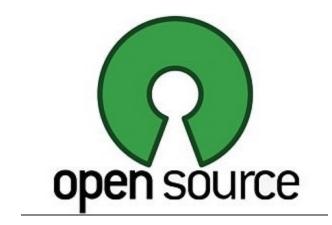
CORE license

- MIT license
 - Permissive
 - Simple
 - Widely used
 - Low-risk
 - Works for commercial or non-commercial usage



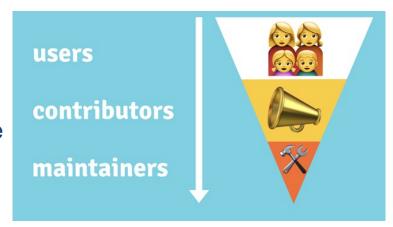
- Will not use a CLA
- Rely on the GitHub inbound = outbound clause in Terms of Service
- Optimize project for ease of participation and deployment
 - The open-source development model helps ensure sustainability





Meritocratic Governance Model

- CORE is a meritocratic, consensus-based community project
- Based on the Meritocratic Governance Model used by the Apache Software Foundation
- Those with interest in the project can join the community, contribute, and participate in the decision-making process
- Influence and leadership roles favor Contributors over Users
- Active participation is valued



From https://opensource.guide/building-community/



CORE Roles

Users

• Use the software but aren't submitting code, tests, or documentation

Contributors

• Submit code, test, or documentation but need to review and commit their work

Maintainers

• Review and merge contributions and generally run the technical aspects of the project

Governors

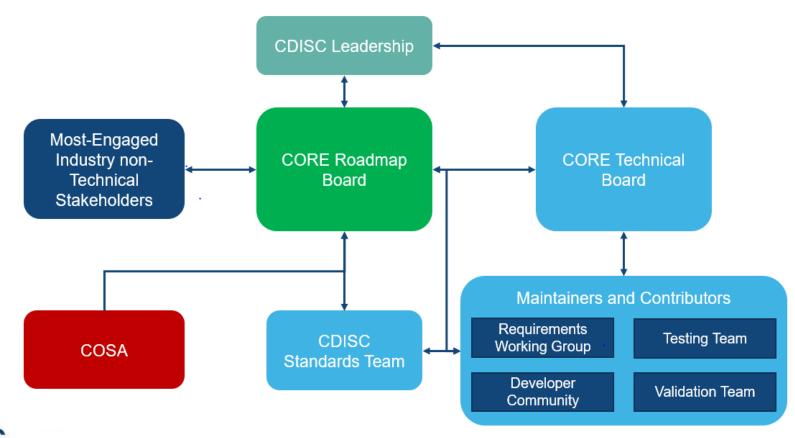
Members of the CORE Roadmap Board or Technical Board

Rule Developers

• Participate as standards developers creating Conformance Rules



Governance and Development Organization





How will we transition from today's development model to an open-source model?

CDISC's Role in the CORE Community

MaintainersGovernorsCommunication and EventsDevelopment InfrastructureRoadmap BoardTechnical BoardRule Development



Content supporting community involvement



User documentation



Developer documentation



Contributor's documentation and on-boarding process



Training and education



Automated testing and test framework



Validation documentation



CDISC hosted evaluation version



Community-based support



CDISC Library Access for All

Unlimited Member Access

- Unlimited Library accounts for members available today
- Deprecating Library Archives

Non-member Access

 Free non-member Library accounts coming for MVP 1.1

Library EULA

- Updated Library EULA drafted
- Removes vendor costs





Software Development Process

- Scrum?
- Probably more Kanban style with
 - CDISC developers as team members
 - Volunteer team members
 - External contributors that do not function as part of the team
- Heavy reliance on asynchronous work and messaging
- Decentralized contributions + extensive peer review





CORE as a COSA Member

COSA Mission: The CDISC Open-Source Alliance (COSA) supports, promotes, and sometimes sponsors open-source and free software development projects that create tools for implementing or developing CDISC standards to drive innovation in the CDISC community.

We anticipate CORE will be a COSA member

COSA support and promotion of CORE:

- CORE workshops and hackathons
- CORE conference sessions & webinars
- CORE community building
- Guidance for CORE governance
- Open-source best practices
- Community of open-source developers



https://cosa.cdisc.org/



CORE Community Tools





Commercial vendor involvement





Examples:

Software-as-a-Service

Commercial support

Embedded in commercial software

Deployment and implementation services



Vendors contribute to the open-source community

Examples:

Contributors

Maintainers

Board members



API and Plugin architecture promote tool development

Examples:

Issue Management
Define-XML Authoring

Workflow



CORE Deployment Alternatives

Examples:

Alternative User Interface

On-premises version

Multi-cloud version

Embedded deployment

Alternative rule engine



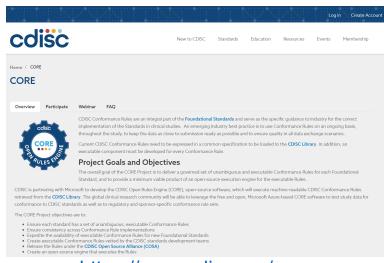


When will we transition to an open-source development model?

When will CORE be released as open-source?

- Currently planning to release CORE as open-source after the MVP 1.1 release
- CDISC will provide an update after we finalize our MVP 1.1 plans
- Tasks prior to releasing as open-source:
 - Code refactoring
 - Technical documentation
 - Move to GitHub
 - CORE community
- Until then volunteer for the team!

Get Involved!



https://www.cdisc.org/core





Thank You!

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