

CDISC Open Source Alliance (COSA) - An Introduction

Presented by Katja Glaß, Katja Glass Consulting, Germany





Meet the Speaker

Katja Glaß

Title: Consultant

Organization: Katja Glass Consulting

As part time open source consultant, I host a portal about open-source solutions for Pharma (www.glacon.eu/portal) and perform open-source projects or provide general guidance. My key experiences are SAS, Web Technologies, ADAM, Define.xml and the TLF generation where I worked for several years. I recently joined the COSA board and are also a very active PHUSE member where I chaired the EU Connect in 2018.

Disclaimer and Disclosures

• The views and opinions expressed in this presentation are those of the author(s) and do not necessarily reflect the official policy or position of CDISC.

The author(s) have no real or apparent conflicts of interest to report.









Agenda

- 1. Introduction
- 2. COSA Work Areas
- 3. COSA Repository
- 4. Participation
- 5. Summary and Outlook





COSA – CDISC Open Source Alliance – What's it about?

Mission:

The CDISC Open Source Alliance 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.







Support

- Collaborations, including CDISC development teams
- > Exchange information, feedback, best practices
- Coordinate dependencies
- Input to standard developments, CDISC library features, common APIs
- Accelerate open-source
- Drive innovation to standards-based automation

Support







Promote

- Support for community development
- Venues for presenting to CDISC members
- > CDISC infrastructure
- Marketing
- Promote development and automation approaches for implementing CDISC standards
- Promote technical innovation

Promote







Sponsor

- Specific projects important to the CDISC initiatives
 - Developer
 - > Infrastructure
 - Project management resources

CDISC Involvement

- CORE (CDISC Rules Engine)
- Digital Data Flow (DDF)
- CDISC Library Tools (Data Standards Browser and authoring tools)

Sponsor







How does COSA work?

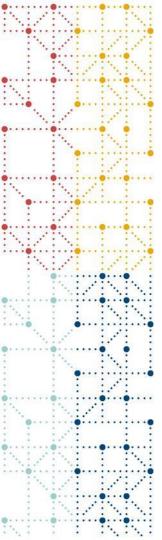
- Board
 - ➤ Bi-weekly meeting
 - Next steps
 - > Applications
 - Various topics



Name	Company
Bhavin Busa	Vita Data Sciences
Dmitry Kolosov	Parexel and Open-source developer
Jeff Fattic	Microsoft
Katja Glaß	Katja Glass Consulting
Mike Stackhouse	Atorus
Mikkel Traun	Novo Nordisk
Sam Hume	CDISC
Charles Shadle	CDISC, ex officio









How does COSA support?

- Open source project directory
- > Webinars, Hackathons, Presentations
- > Active project roadmap
- > Guidance
 - Open source best practices
 - Open source licensing
 - Repository setup
- > Test data







- > Webinars (free for all, recordings available)
 - > TFL Designer
 - Visual Define-XML Editor
 - > Odmlib
 - > Tplyr
 - Define-XML XLS Stylesheets
 - OpenStudyBuilder





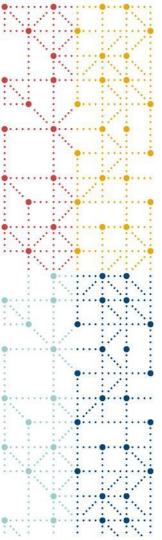


- Collaborations
 - > Microsoft
 - CDISC Library
 - TransCelerate DDF
 - > PHUSE Open Source Technologies in Clinical Research
 - > Pharmaverse
 - Open source software development teams
 - > HL7 FHIR community







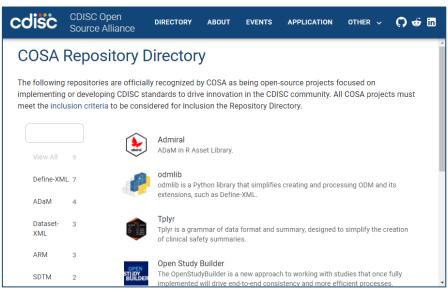




What's this?

- > Information Hub
- > Lists CDISC standard related open source solutions

https://cosa.cdisc.org









Admiral

ADaM in R Asset Library.



odmlib

odmlib is a Python library that simplifies creating and processing ODM and its extensions, such as Define-XML.



Tplyr

Tplyr is a grammar of data format and summary, designed to simplify the creation of clinical safety summaries.



Open Study Builder

The OpenStudyBuilder is a new approach to working with studies that once fully implemented will drive end-to-end consistency and more efficient processes.







Define-XML XSL Stylesheets

This projects provides a Define-XML v2.0 and v2.1 XSL stylesheet



R4DSXML

R4DSXML is R package for import both CDISC Dataset-XML and Define-XML as R data frame.



Smart Submission Dataset Viewer

Dataset viewer allowing to inspect CDISC SDTM, SEND and ADaM submission files.



TFL Designer

An open-source TFL designer to create study-specific analysis output display and in parallel generate machine-readable metadata.



Visual Define-XML Editor

Visual Editor for Define-XML 2.0 and ARM standards.





- > Support CDISC related open-source tools
- > Support usage of these
- ➤ Huge projects planned to join COSA
 - > CORE
 - > DDF



Accelerate Open-Source!









How to get involved?

➤ Develop/Include CDISC related open-source tools

- > COSA inclusion criteria
 - > Project minimum
 - CDISC related
 - > Ethics requirements and no conflicts of interest
 - Must be open-source (license)







Application process documented, form available https://cosa.cdisc.org/application

cdisc	CDISC Open Source Alliance	DIRECTORY	ABOUT	EVENTS	APPLICATION	OTHER 🗸	O &	in
Applicatio	on > Editor							_
Appl	ication Edito	or		SAVI	LOAD	PREV	IEW	
Project I	Information	Detailed Des	scription					
Project Nar	me 🕥	Problem						
Project Ow	ner 🕥	Solution ⑦						
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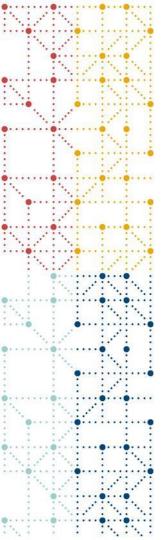
- Get in contact
 - <u>LinkedIn</u>, Mail (<u>cosa@cdisc.org</u>)
 - Contact with board members
 - > Become a board member



- Address topics
 - > Discussions on licenses, maintenance models etc.
 - > Address interest areas, e.g. XPT-replacement
 - Guidance on open-source topics









What's next?

- > Enable and support open source
- > CDISC organisational support
 - Focus on standards, support tools that implement these
 - Harmonization, Library as platform to support tool developers
 - First learnings coming
 - Information and guidance







- ➤ What's there?
 - > Repository
 - Contacts for questions & suggestions
- > What's next?
 - Guidance
 - > Template repository







- > Resources
 - COSA repository cosa.cdisc.org
 - Open Source Portal glacon.eu/portal
 - Pharmaverse pharmaverse.org
 - > PHUSE Open Source Working Group
 - > Many more







Thank You!



