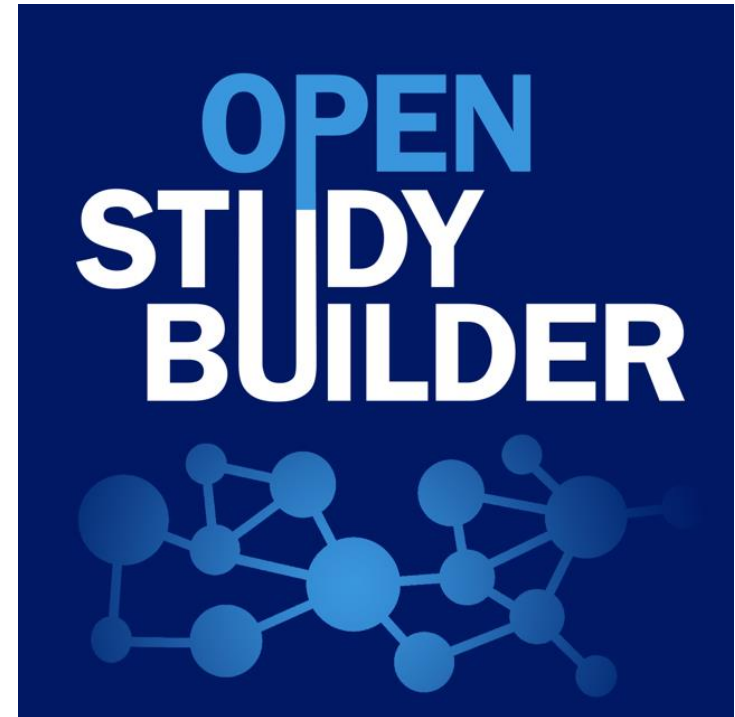


# COSA OpenStudyBuilder Workshop

CDISC EU Interchange 29th April 2022

**OPEN**  
**STUDY**  
**BUILDER**





- **9:00 – 9:30 Introduction**

- Welcome
- Why use OpenStudyBuilder
- Why share OpenStudyBuilder as an open source project
- Why use and contribute to the OpenStudyBuilder
- Short Demo
- Practicalities

- **9:30 – 11:30 Breakout sessions**

- Present and discuss your focus in each break-out group
- Prepare a 10 minutes presentation
- Remember breaks

- **11:30 – 12:50 Presentation by each break-out group**

- **12:50 – 13:00 Wrap-up, next steps and closure**

- Follow-up on Slack chat sessions, surveys, share presentations
- Prepare sharing of breakout outcome / deliverables / videos for all participants as well as public on COSA web site

# Why should you use the OpenStudyBuilder solution?

**Because it will be a Digital Data Flow  
(DDF) compliant solution enabling  
digitalisation in clinical development!**

# The Digital Data Flow Initiative (DDF) aims to catalyze digital transformation; breaking the document paradigm to enable seamless flow of the data within

## Digitized Protocols

Enabling the use of technologies that identify and assemble study elements allows industry to move to digital protocols

## Advanced Analytics

Better enabling the use of advanced analytics such as Artificial Intelligence and Machine Learning to improve study designs



## Connectivity of Data and Processes

Enabling traceability, automated flow of content to key clinical documents, and automation to clinical & operational systems (e.g.. EDC, CTMS)

## Open and Flexible Solution

Developing a dynamic, fully automated solution that is vendor agnostic, open and flexible

## Development principles to enable broad collaboration, stakeholder input, and sustainability



Open Source



Vendor Agnostic



Agile Development



Dynamic Alignment to Standards



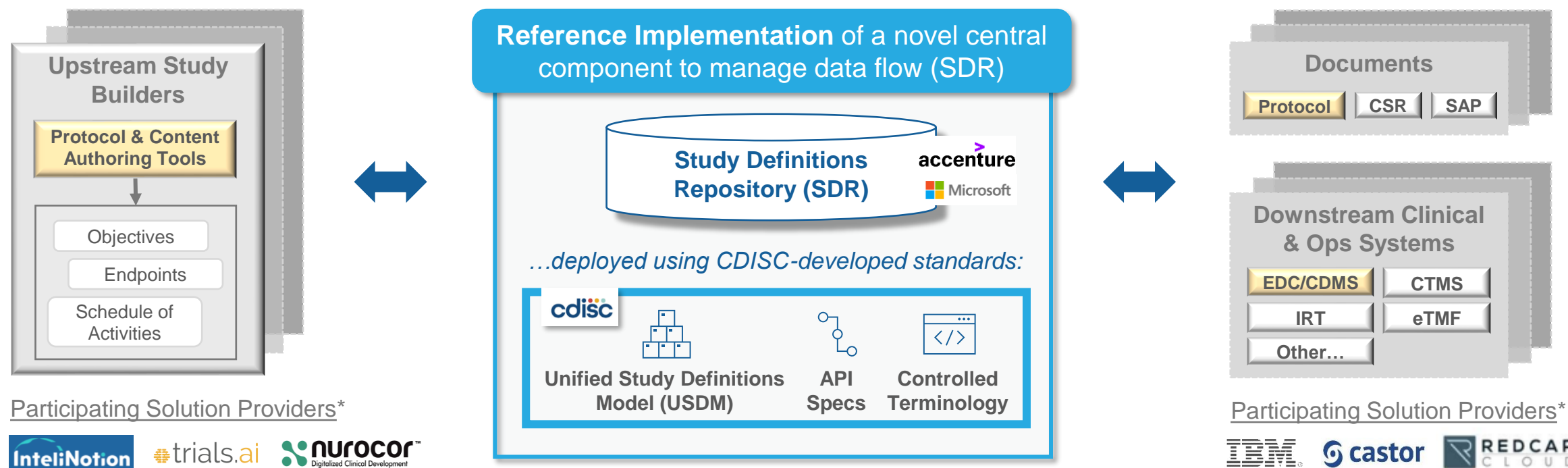
# Minimum Viable Product (MVP) development underway

April 2022 Anticipated Release Date

The MVP release will focus on enabling flow of study definitions data from study builders to Study Definitions Repositories (SDR) to Electronic Data Capture (EDC)/CDMS

System or Tool of Focus for MVP

Potential Future System of Focus



\* Solution Providers above have volunteered to participate in MVP development in anticipation of making use of DDF solutions in the future. Additional Solution Providers may volunteer in coming weeks/months. TransCelerate does not endorse nor recommend specific vendors or commercial products.





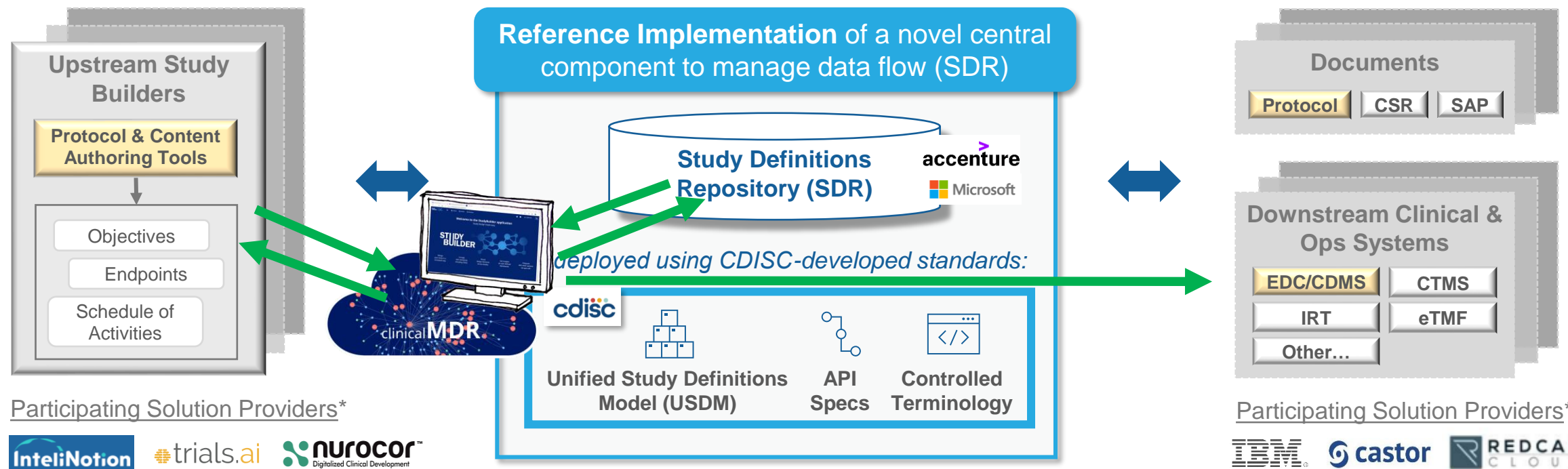
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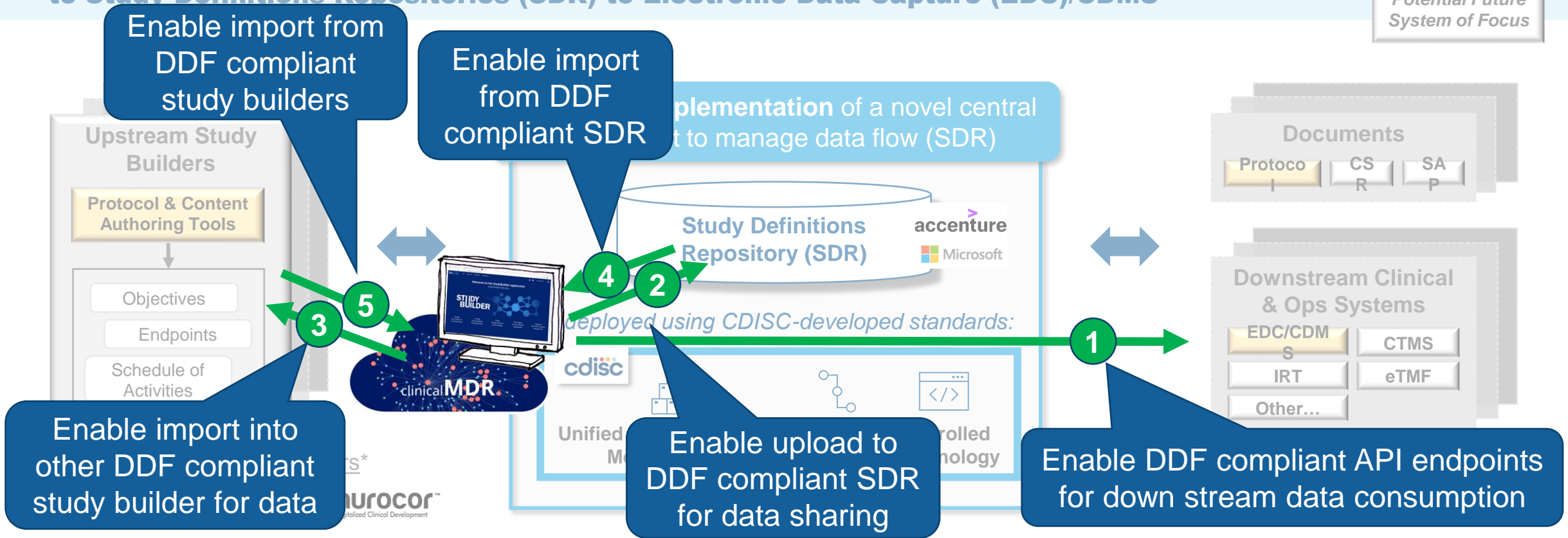
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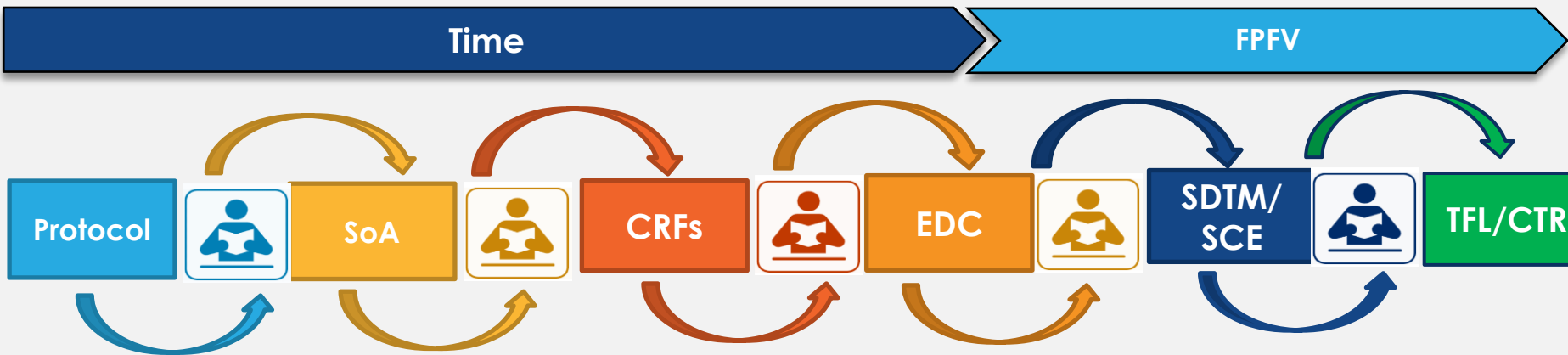


# Digital Data Flow: Current State vs. Future State (adapted)



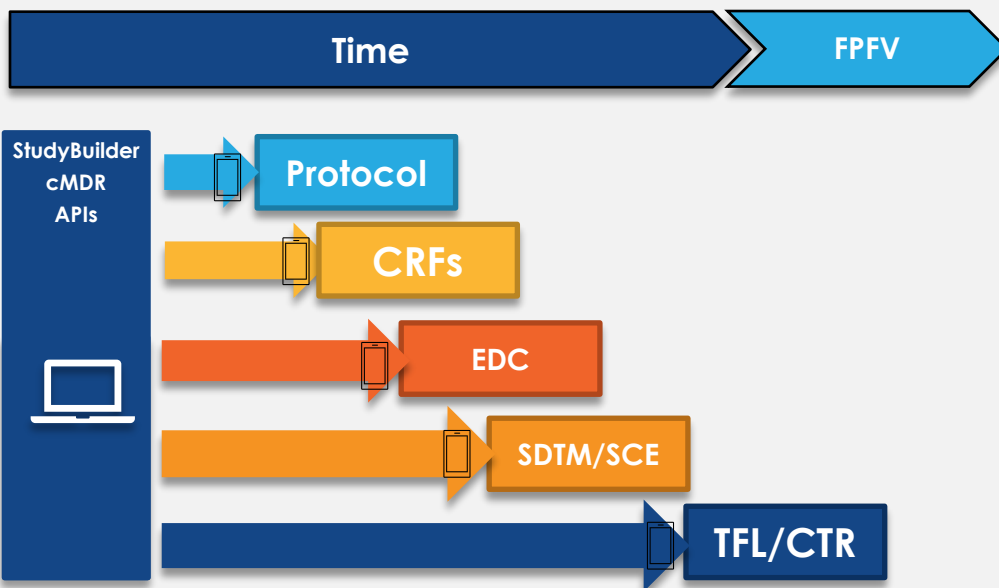
## Manual Process

- Potential variances and data quality issues
- Re-entering same information multiple times
- Often sequential steps
- Inefficient



## Digitized Process

- Increased consistencies
- Quality improvements through information re-use
- Timely through automation and partially parallel steps
- Efficient



# Why do we share OpenStudyBuilder as an open source project?

**Because we will benefit and get more value from the collaboration!**

- And we will not have the risk of vendor lock-in

# Background and vision

- **Background** – today characterised by
  - Lots of IT systems and tools
  - Numerous manual steps which consume time and resources ... and introduce errors
  - Costly system maintenance and integrations
- **Vision** – tomorrow characterised by
  - IT that enable seamless interoperability and cross-functional end-to-end collaboration
  - Driven by concept based data standards
  - Sustainable model for maintenance and integrations

# Why open source

- Avoiding a v2 custom solution
  - Solution based on industry standards
  - By driving this as an collaborative open source solution
- To be an active player in the industry transformation towards using concept based data standards for study specification and end-to-end digital data flow by collaborating externally with CDISC, TransCelerate DDF, vendors and peers as part of open source initiatives to avoid an Novo Nordisk custom solution
- Benefit from collaborations
- Benefit from future tools and extensions

**Why should you use and contribute to the OpenStudyBuilder?**

**Because you will get value from using it, and even more if you contribute!**

# Why use and contribute to the OpenStudyBuilder

- High complexity of current tool landscape
  - Interfaces
  - Exchange of tools very tough
  - Mainly no “perfect” fits
- Open-source allows for much better
  - Integrations
  - Maintenance & Enhancements
  - Collaborations
  - Real option of taking over the project





# Why use and contribute to the OpenStudyBuilder

- OpenStudyBuilder
  - MDR “CORE”
    - Graph data model, Biomedical Concept
    - Version, tracking management
    - One source of truth
  - Standard APIs
    - Imports, standards, sponsor specific
    - Setup, maintenance
    - Downstream usage
  - Open-Source design
    - Modularized
    - Expecting changes

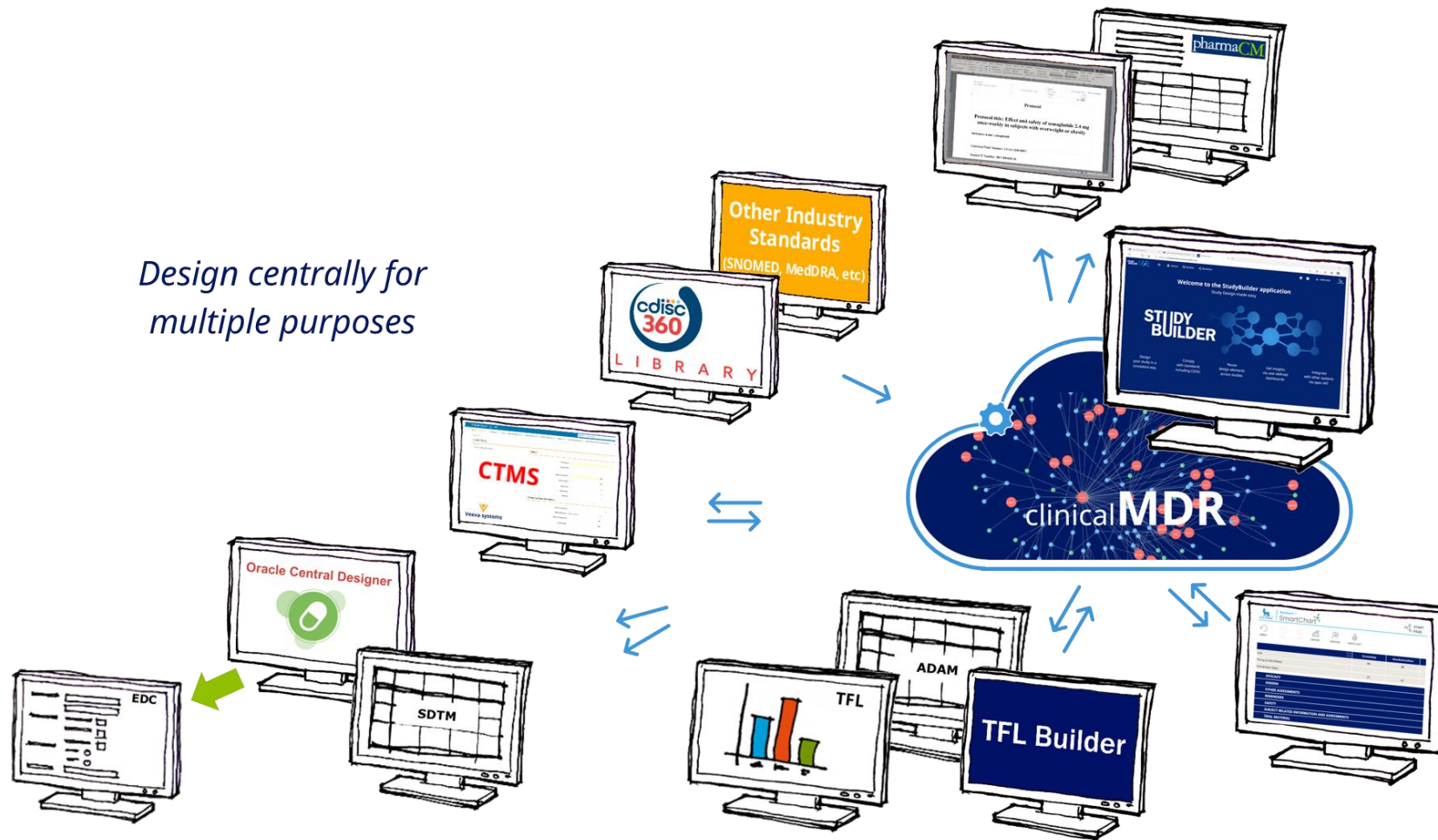


# Why use and contribute to the OpenStudyBuilder

- OpenStudyBuilder tools as collaborative best-fit toolset!
  - Bricks systems
  - “Plug” what fits best for your organization
  - Provide additional “apps”
  - Open-source enables enhancements
  - Modern development approach



# Why use and contribute to the OpenStudyBuilder



# Why use and contribute to the OpenStudyBuilder

- **Open** collaborations
  - Variety only when others collaborate as well
  - Vendors can also create open source
- Join/create open source collaboration
- Allow vendors to collaborate
- Contracts to create open source

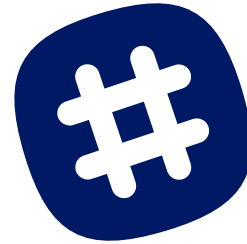


# Breakouts

## Some practicalities

# Practicalities

- COXA Workshop – Participation Guide (mail & slack #workshop-cosa)
- Join Slack ([openstudybuilder.slack.com](https://openstudybuilder.slack.com))
  - #workshop-cosa (add-channel to join)
  - #workshop-cosa-issues
- All material created and shared during the meeting (no personal data and similar) may become published





# Practicalities

- Breakout groups
  - Join automatically
    - According selection
    - No selection -> assigned
- Please turn on the camera!



## Breakout Sessions

- Use OpenStudyBuilder to make study specification for structured protocol content
- Use OpenStudyBuilder to make study specification for CRF and data collection
- Use OpenStudyBuilder to make study specification for SDTM Study Design datasets
- Use OpenStudyBuilder to manage concept-based standards, ideate on BC definitions
- Use NeoDash reports for status reporting on study specifications, Ideate on format and meta-checks
- Demonstrate DDF API adaptor and discuss DDF API alignment
- How to start evaluate and use OpenStudyBuilder, deployment options, system operations and integrations
- Ideate on business opportunities for vendor services for OpenStudyBuilder

# OpenStudyBuilder next steps

- We will release a non-GCP MVP internally at Novo Nordisk in Q3 2022
- We plan a GCP release later
- We intend to share the project as an open source project under COSA in Q3 2022
  - <https://cosa.cdisc.org/directory/openStudyBuilder>
  - <https://novo-nordisk.gitlab.io/nn-public/openstudybuilder/project-description/>  
Currently only containing a project description
- We seek to actively collaborate with CDISC, TransCelerate DDF, peers and vendors



# Wrap up and closing remarks