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Study Design Optimization with DDF assets

Presented by Bazgha Qutab, Principal, ZS Associates Siddharth Shah, Associate Principal, ZS Associates





Meet the Speakers

Bazgha Qutab

Title: Principal

Organization: ZS Associates

Bazgha is a global leader within our Digital Transformation and R&D Excellence space based in Europe. She has over 18 years' experience in strategic advisory, clinical development, real world data analytics, data management, and technology transformation within R&D and Commercial in Life Sciences.

Siddharth Shah

Title: Associate Principal

Organization: ZS Associates

Siddharth has 19 years of technology led business transformation experience advising life sciences companies in the various areas within R&D (Study design, Investigator Platform, clinical trial management, regulatory intelligence and safety automation), commercialization and manufacturing.

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• 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.

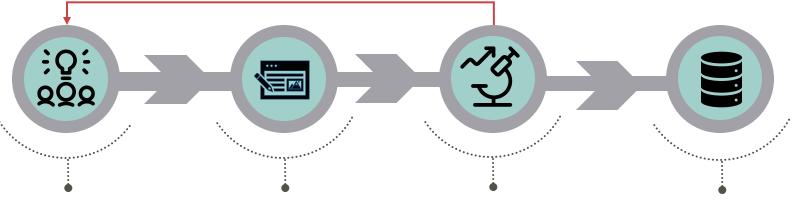




Traditionally, optimization is an after thought in study design process, often leading to lower operational and enrollment delays



Feedback to clinical scientist to reconsider study design



Study Design

Protocol Authoring

Often still documentedin unstructured PPT/Word/PDF documents

Protocol Optimization (e.g., **SOA**, IE criteria, DEI)

Separate step and an after thought in the process

The current process leads to inefficiencies



Protocols being developed on word documents



40% of clinical trials have amended protocols



There is an average 4 months delay to FPFV



EDC)

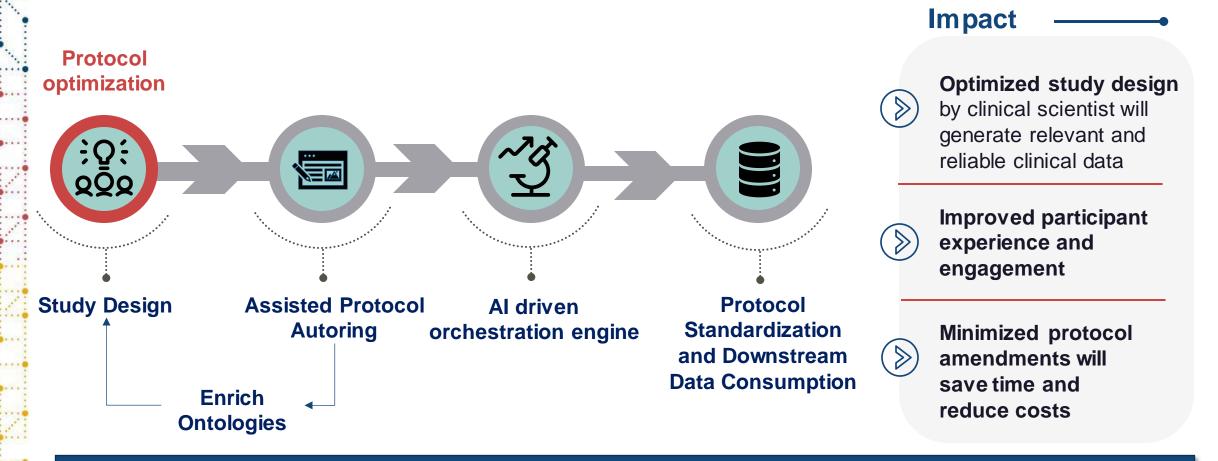
30% of US patients leave an appointment due to excessive wait time



Studies with tight timelines skip the optimization step



Optimize during the study design itself, enabled by digitization, improves outcomes



DDF enables protocol digitization and increases robustness of optimization process improving user experience



Adoption of digitization and optimization solutions, combined with change management is key to success

Digitization Solutions



Implement TransCelerate's Digital Data Flow (DDF) solutions (e.g., eCPT, SDR):

- Open-source solutions
- Vendor-agnostic
- Limited budget required

Optimization Solutions



Implement study design optimization leveraging ZS' SDO solution:

- Aids in protocol digitization
- SOA optimization using burden scores
- Protocol Data
 Standardization

Communication and Change Management



- Clear strategy for adoption of new way of working
- Tailored to key stakeholder groups

Sponsors with no/limited budget can start their digitization journey today by leveraging TransCelerate's open-source solutions and ZS SDO tool.



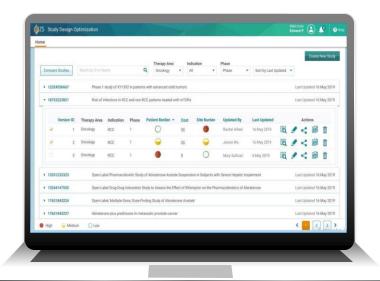


ZS' approach was selected as one of the unique solutions during TransCelerate DDF Connect-a-thon

TransCelerate Connect-a-thon Theme

Demonstrate the robustness of USDM for digitization and standardization of protocol data for downstream consumption

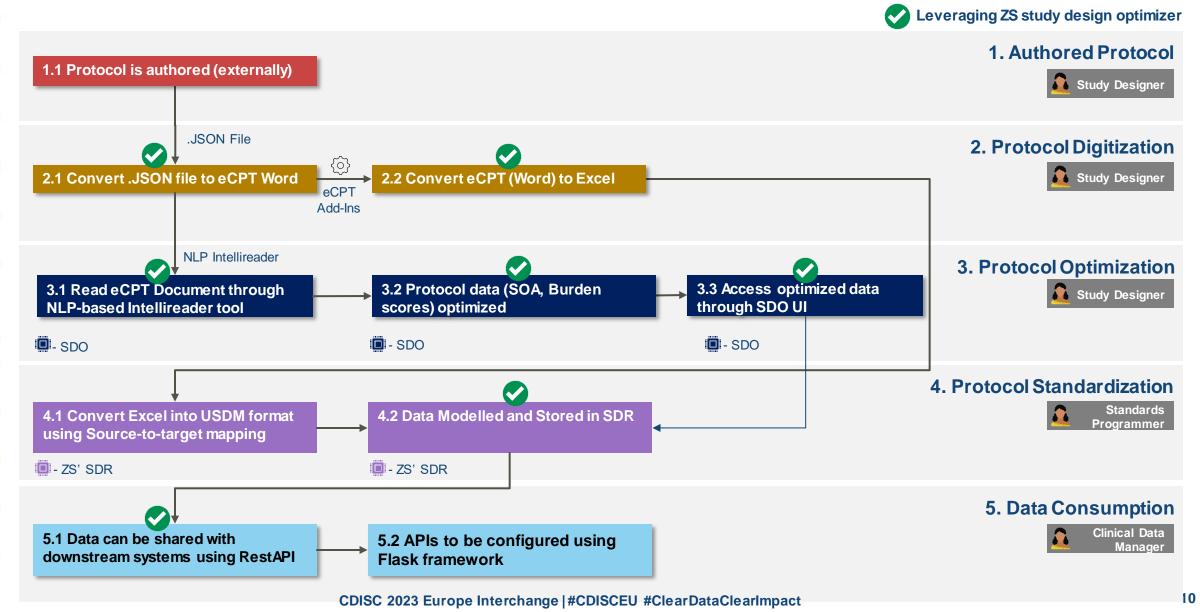
Our Approach



- 1 Leverage TransCelerate's eCPT to digitize the protocol
- Quantify protocol burden score and compare against quantified industry standard burden
- Store optimized data leveraging SDR (USDM v1.0 data model)
- Create more attractive, recruitable and operationally sound study designs for future

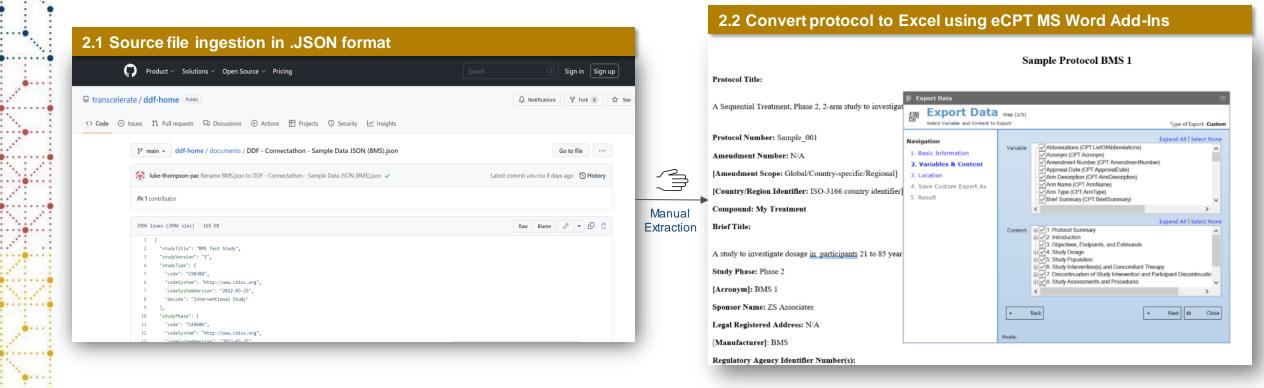


Our approach offers a one stop solution for protocol digitization and optimization, benefitting multiple personas





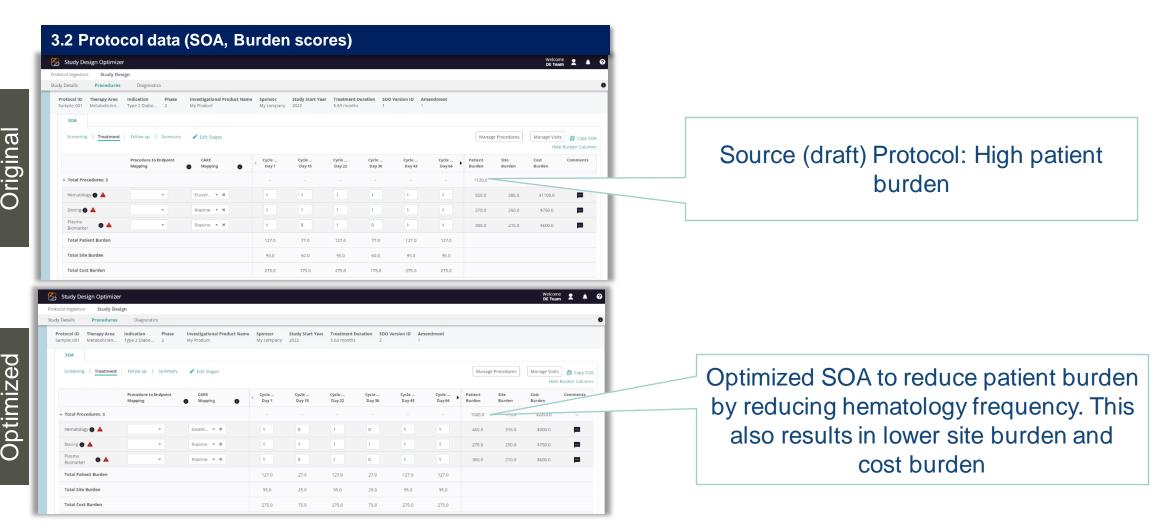
Protocol Digitization – Steps 2.1, 2.2







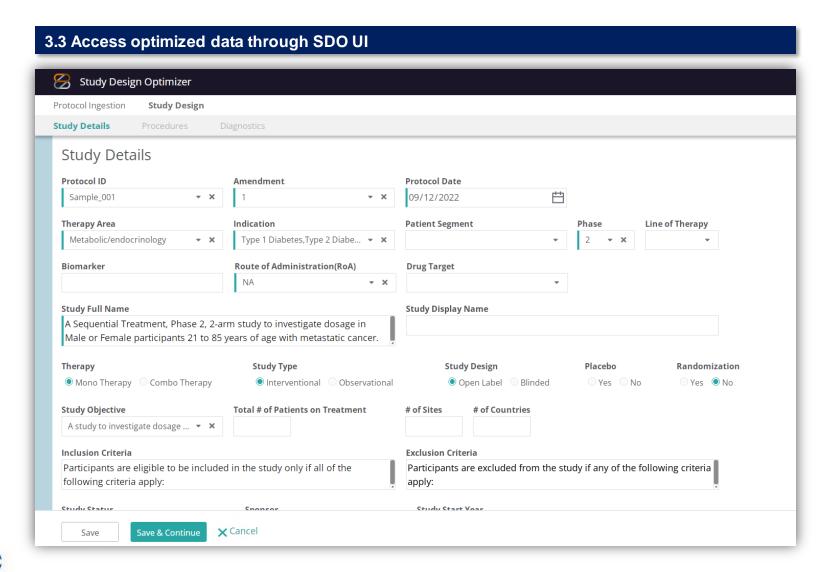
Protocol Optimization (using ZAIDYN SDO UI) — Step 3.2





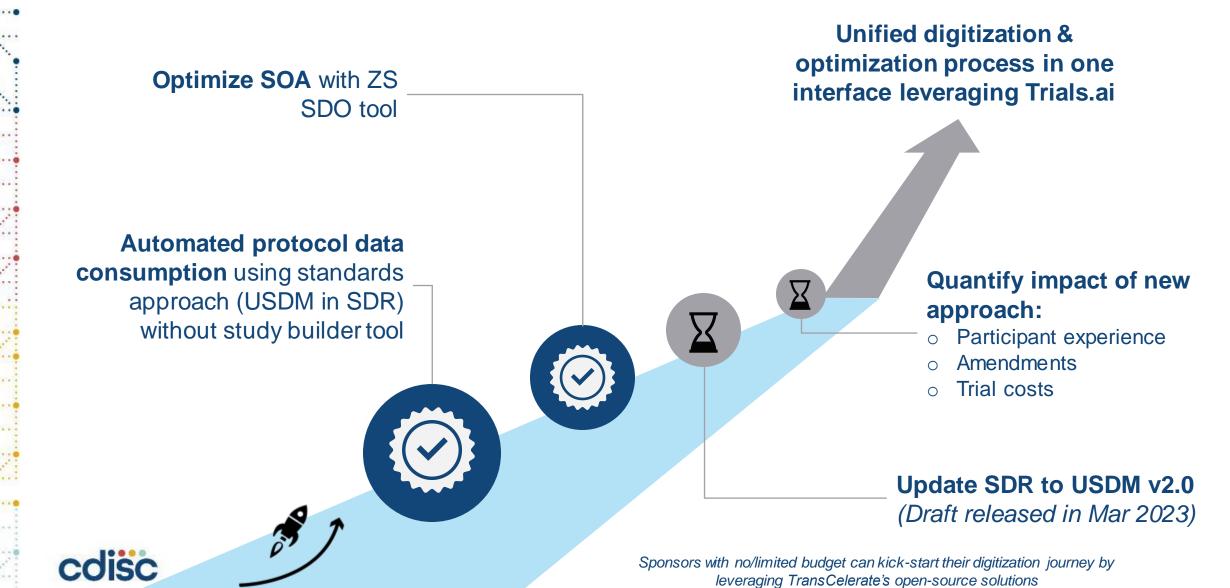


Protocol Optimization (using ZAIDYN SDO UI) - Step 3.3





Progress made so far & next steps



Case example: Understanding and solving for patient burden in protocol design for pharma co.

Background and Company Situation

One of the Top 10 pharma company wanted to:

- · Objectively assess protocol burden
- Evaluate the implications
- · Identify scenarios that optimize patient and site experience
- · Understand impact of study design elements on trial performance

Solution



Ingest, synthesize and analyze their protocols* into ZS' SDO



Identify opportunities for optimization



Demonstrate speed, accuracy of analysis, and ease of approach



Assess correlation between burden and trial performance

Impact (To date, as project is in progress)



Facilitated cross-functional discussion between Clin. Science, Clin. Ops. and Digital Health for remedial action



Identified low burden protocols for innovation pilots

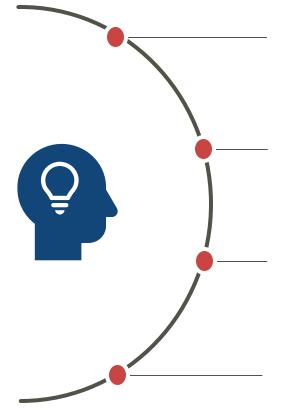


Exploration into decentralized clinical trial modalities and PRO standardization





Successful study design optimization in a nutshell



Protocol optimization is currently an **after thought** in the protocol development process

DDF solutions create **a window of opportunity to optimize earlier** and in real time

ZS' SDO Platform can handle **automated protocol data consumption** and optimize **SOA**

A clear **change management strategy** is important for adoption of the new way of working

The industry future of real time study design optimization is starting now





Thank you

