



END-TO-END STANDARDIZED
PROCESS: DATA AND METADATA
FROM PROTOCOL TO THE CSR



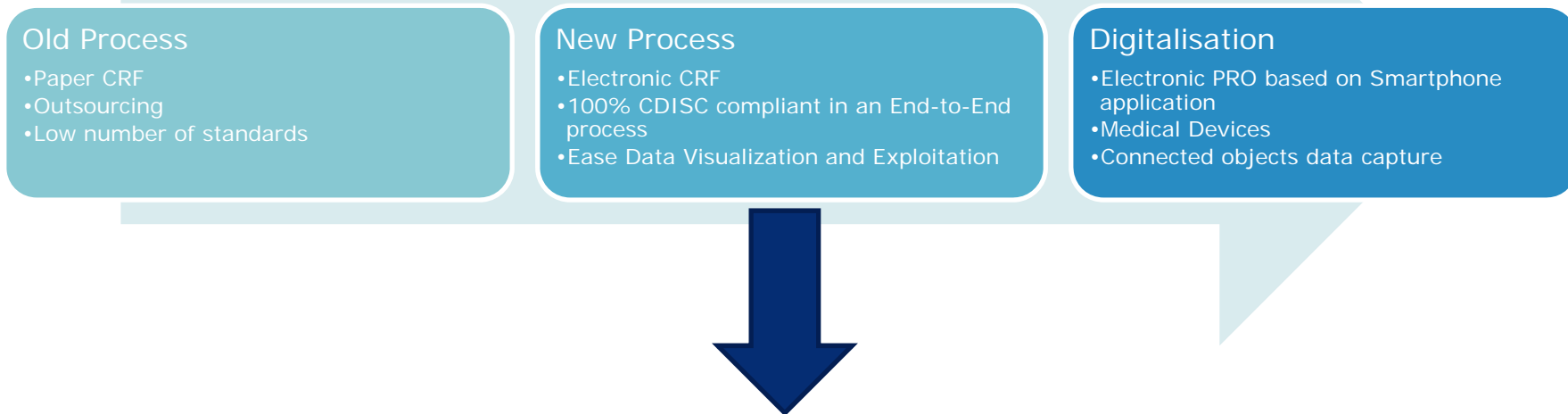


01

A VISION : ADOPT AN END-TO-END
PROCESS FROM THE PROTOCOL TO
THE CSR

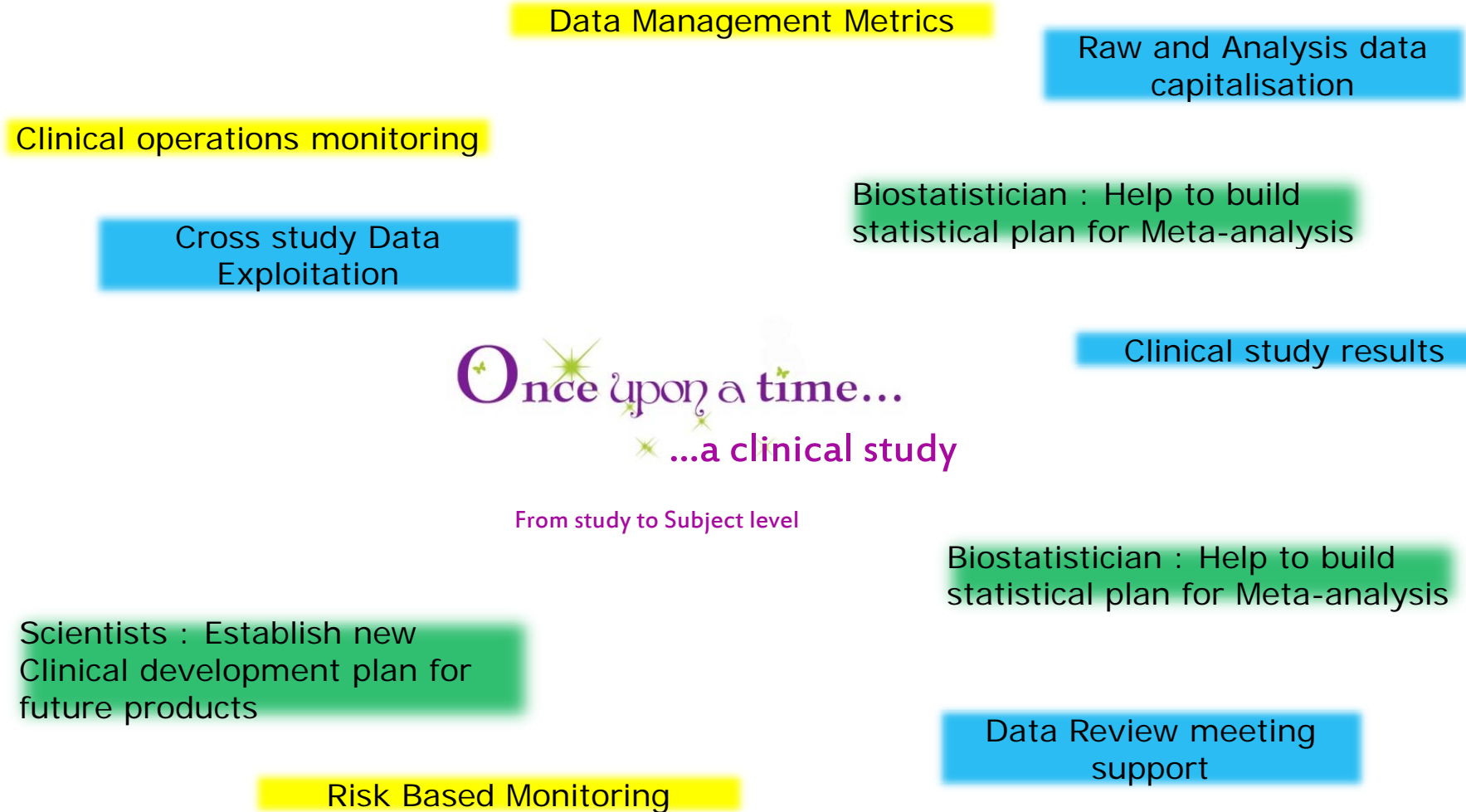
STATE OF THE ART

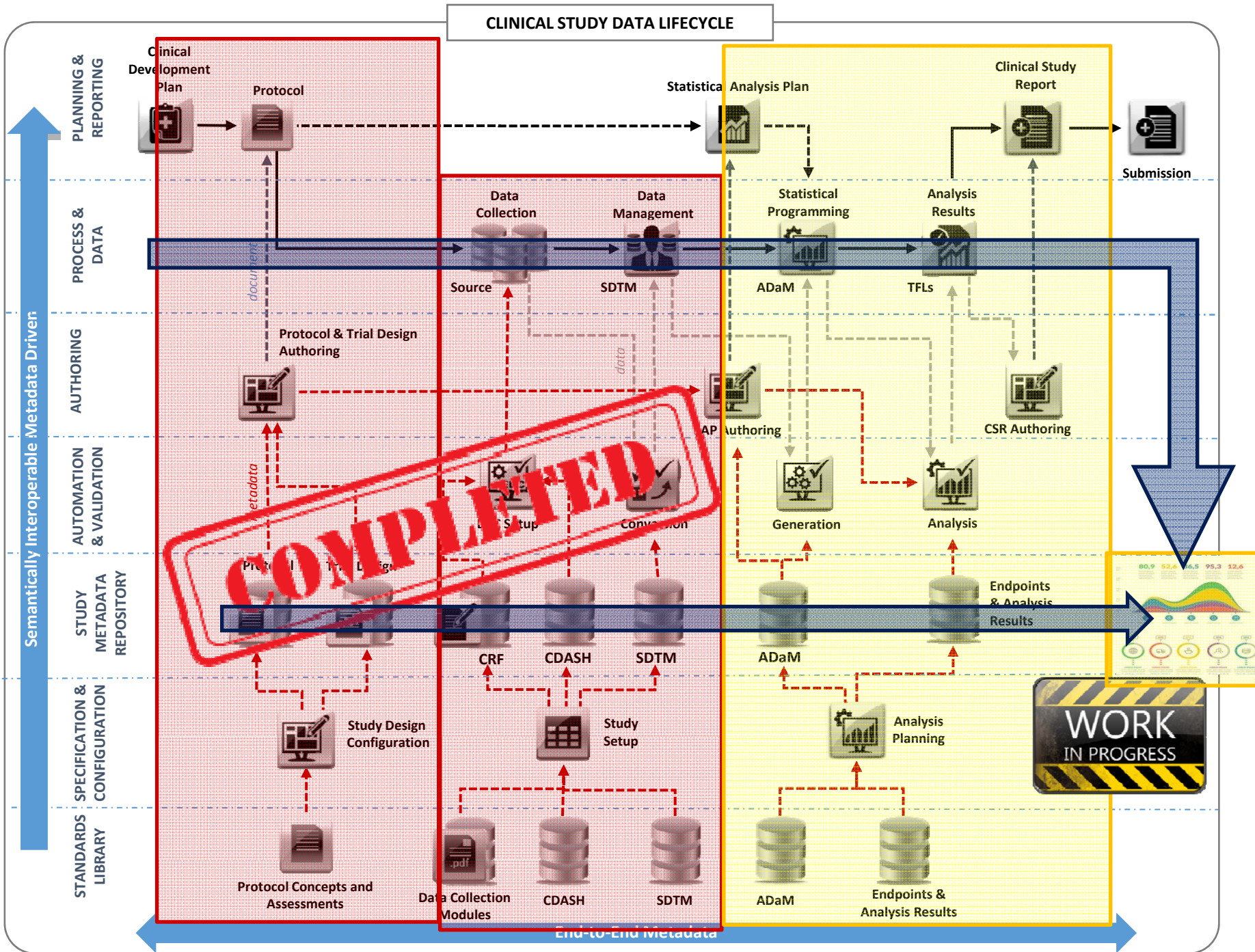
From Prehistoric ages to Clinical Standardised Digitalisation



Thinking about a vision...

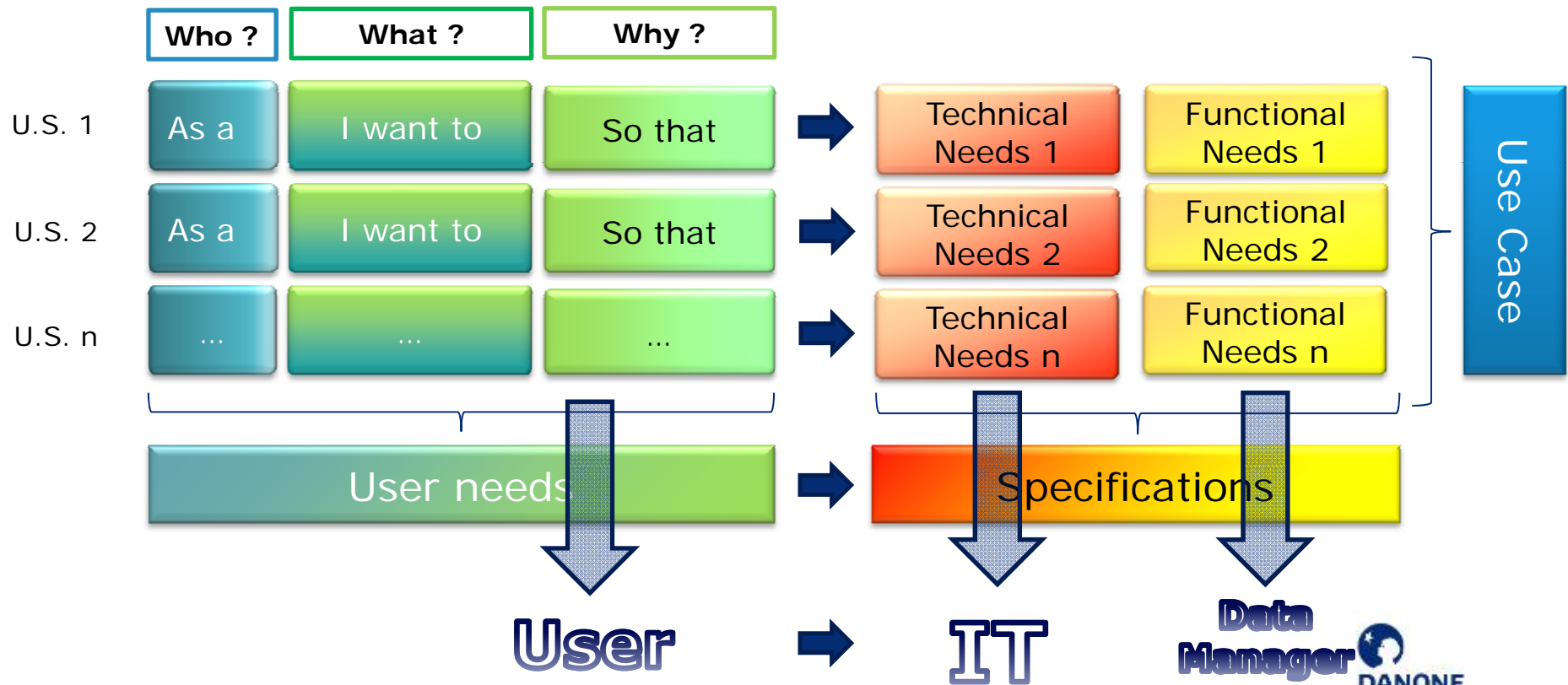
...ONCE UPON A TIME...



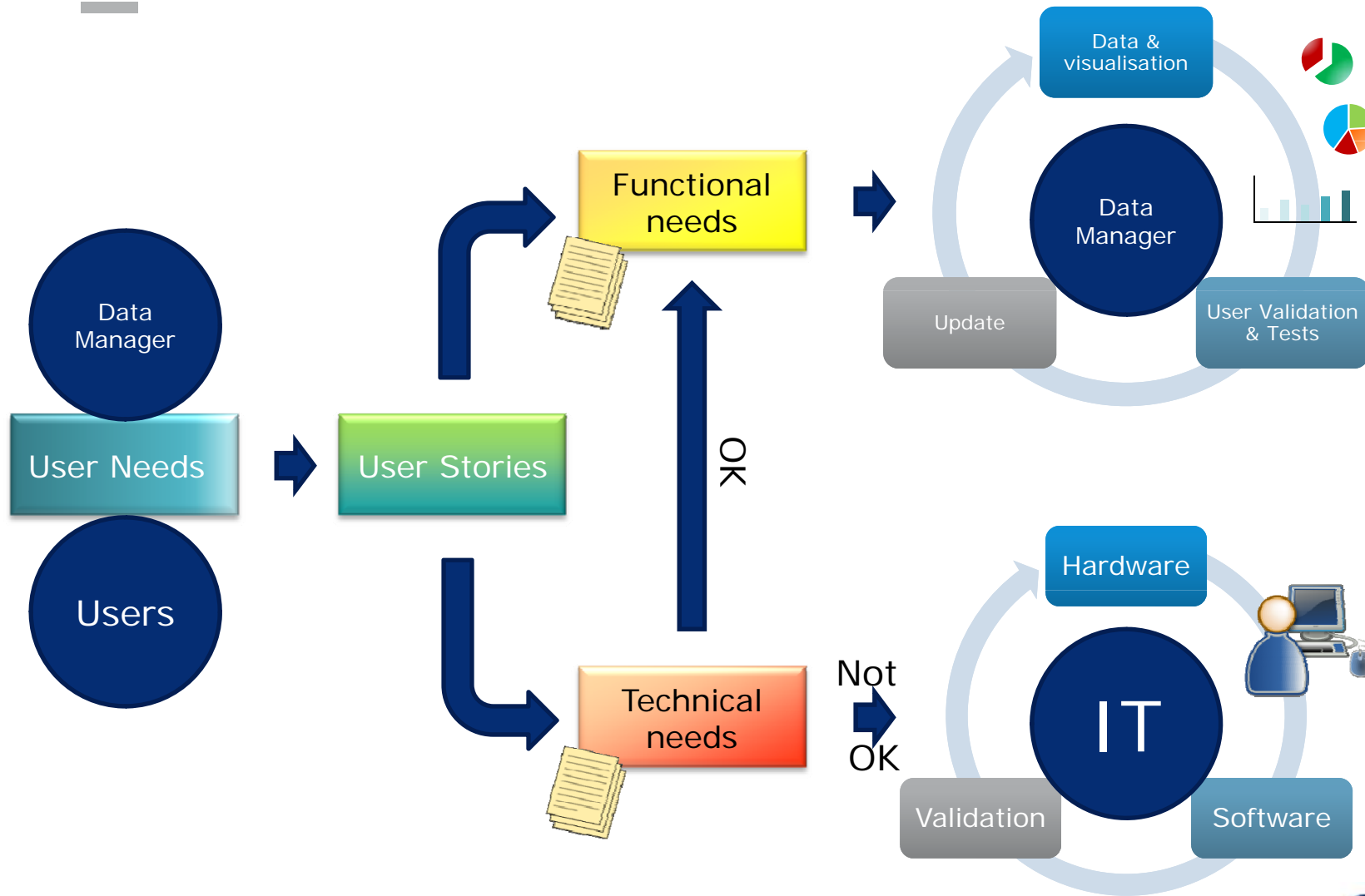


DEFINING USER STORIES IS CRITICAL FOR SUCCESS

- Users Story definition
 - Common language to describe what a user does or needs to complete his job and be the support to define the list of technical needs for IT and functionalities to be designed by the Data Manager.



USER STORIES WORKFLOW

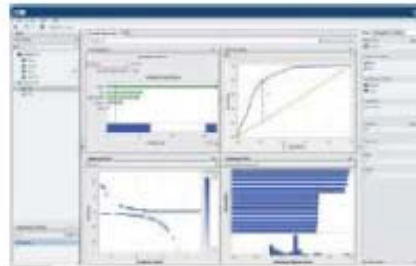


TECHNICAL NEEDS COVERED BY A BIG DATA CONCEPT

DASHBOARD REPORTS



VISUALIZATION



ANALYTICS



Connectors



Streaming Data



Unstructured Data



External Private Data



Open Data



02 ONCE UPON A TIME... A CLINICAL STUDY

2 DEVELOPMENT PHASES

Phase 1

OPERATIONAL METADATA

Phase 2

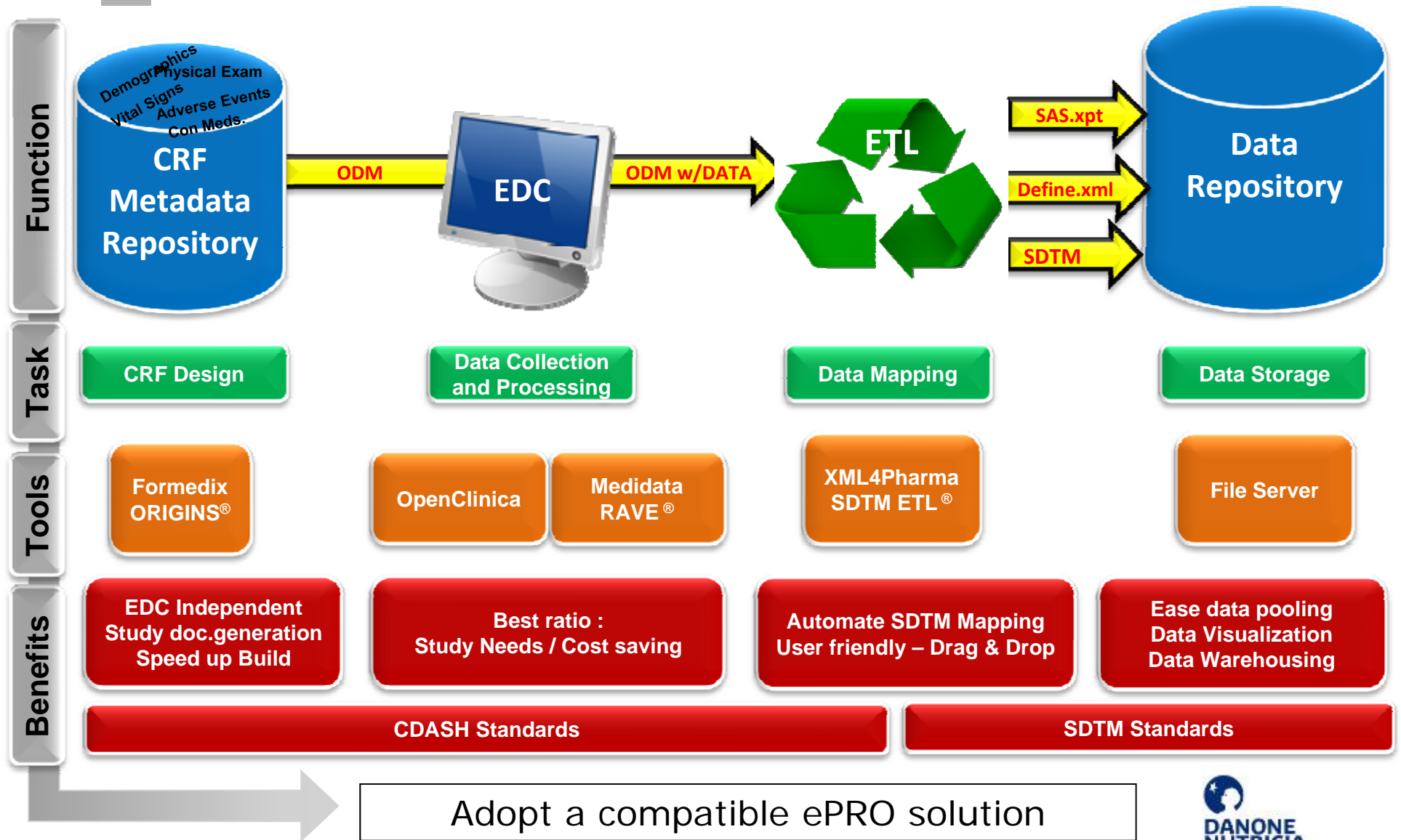
CLINICAL METADATA



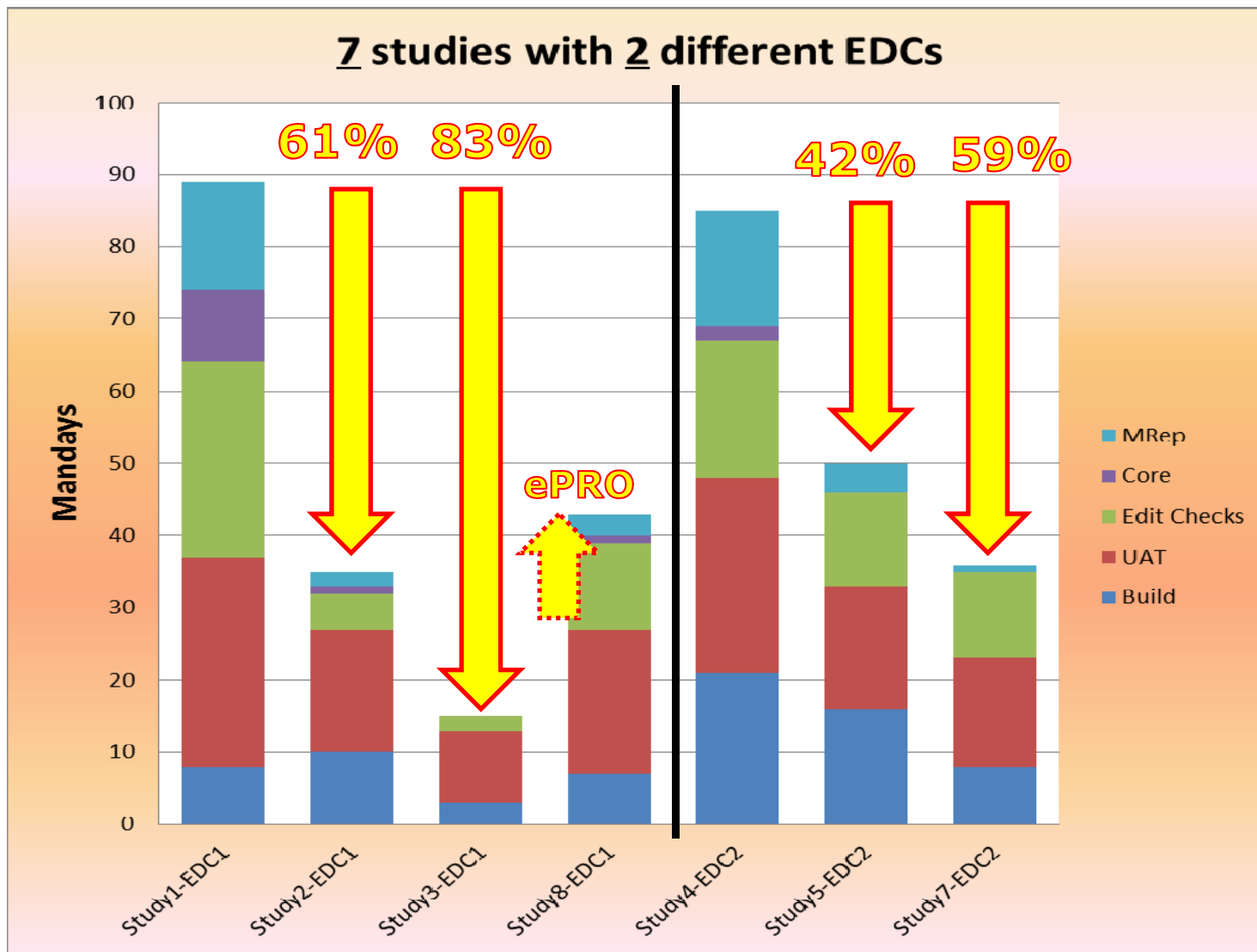
Clinical Data

CLINICAL ANALYSIS DATA

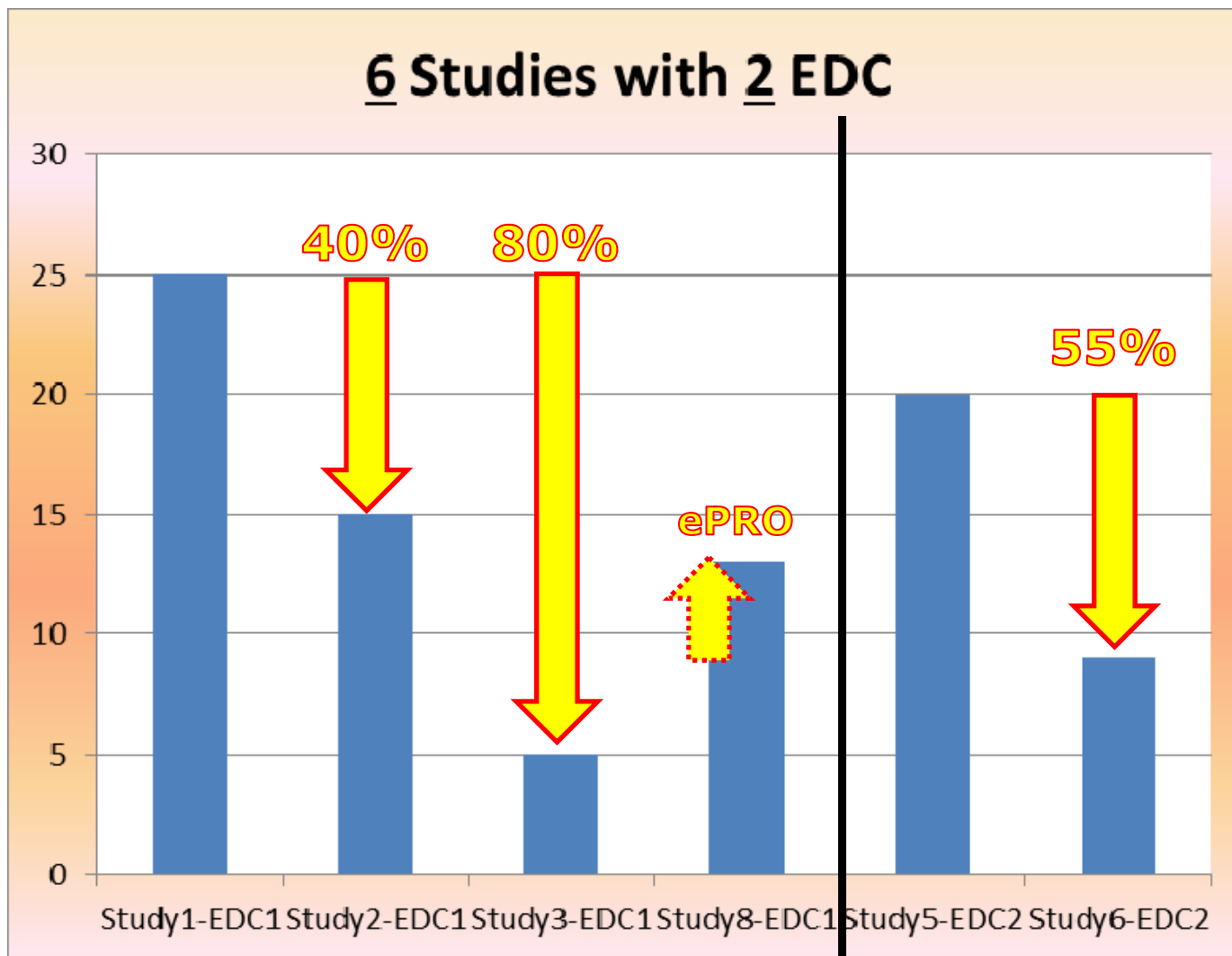
PHASE 1 : DANONE CLINICAL DATA FLOW (DANFLOW)



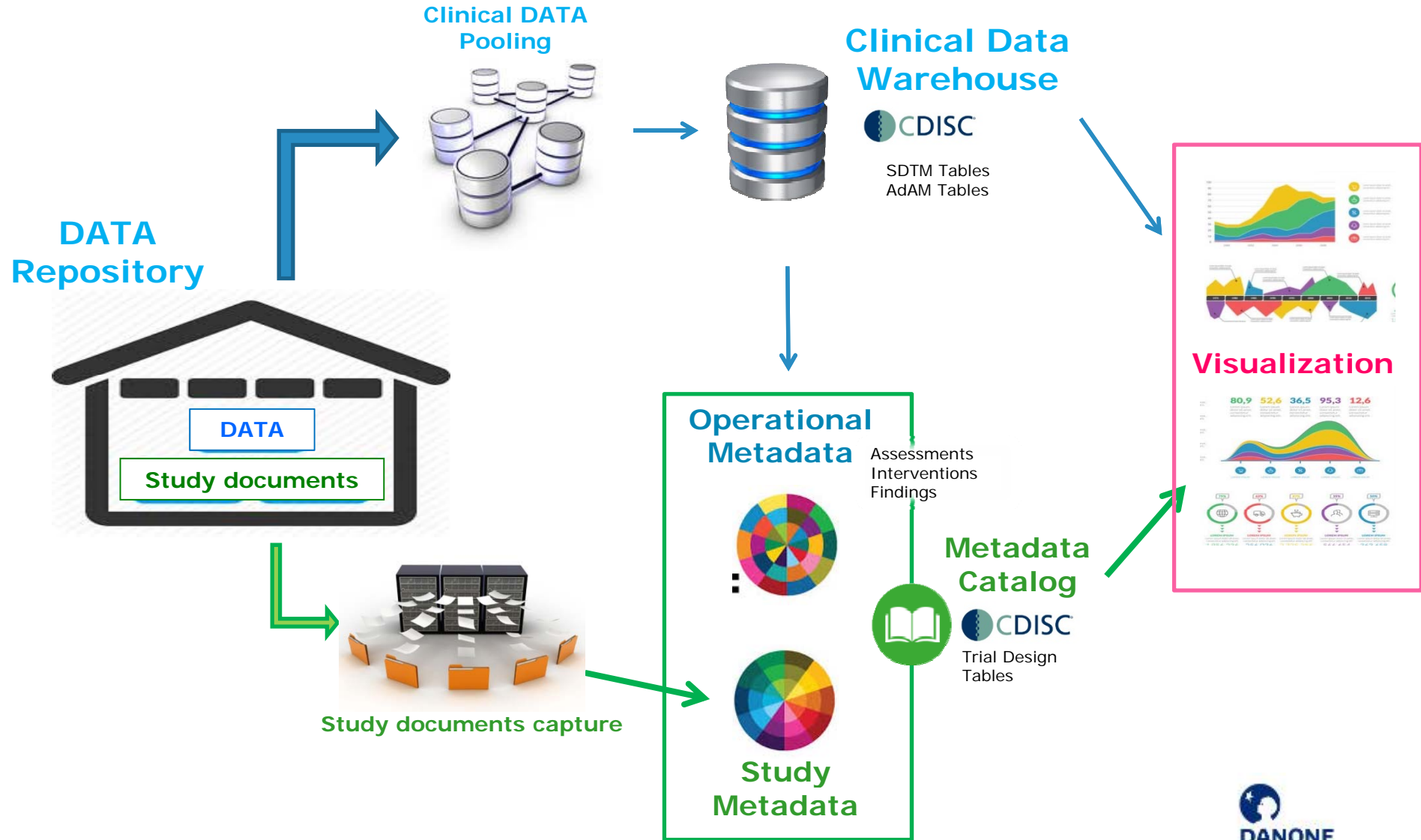
CDISC STANDARDISATION IMPACT ON STUDY BUILD



CDISC STANDARDISATION IMPACT ON DATA MAPPING

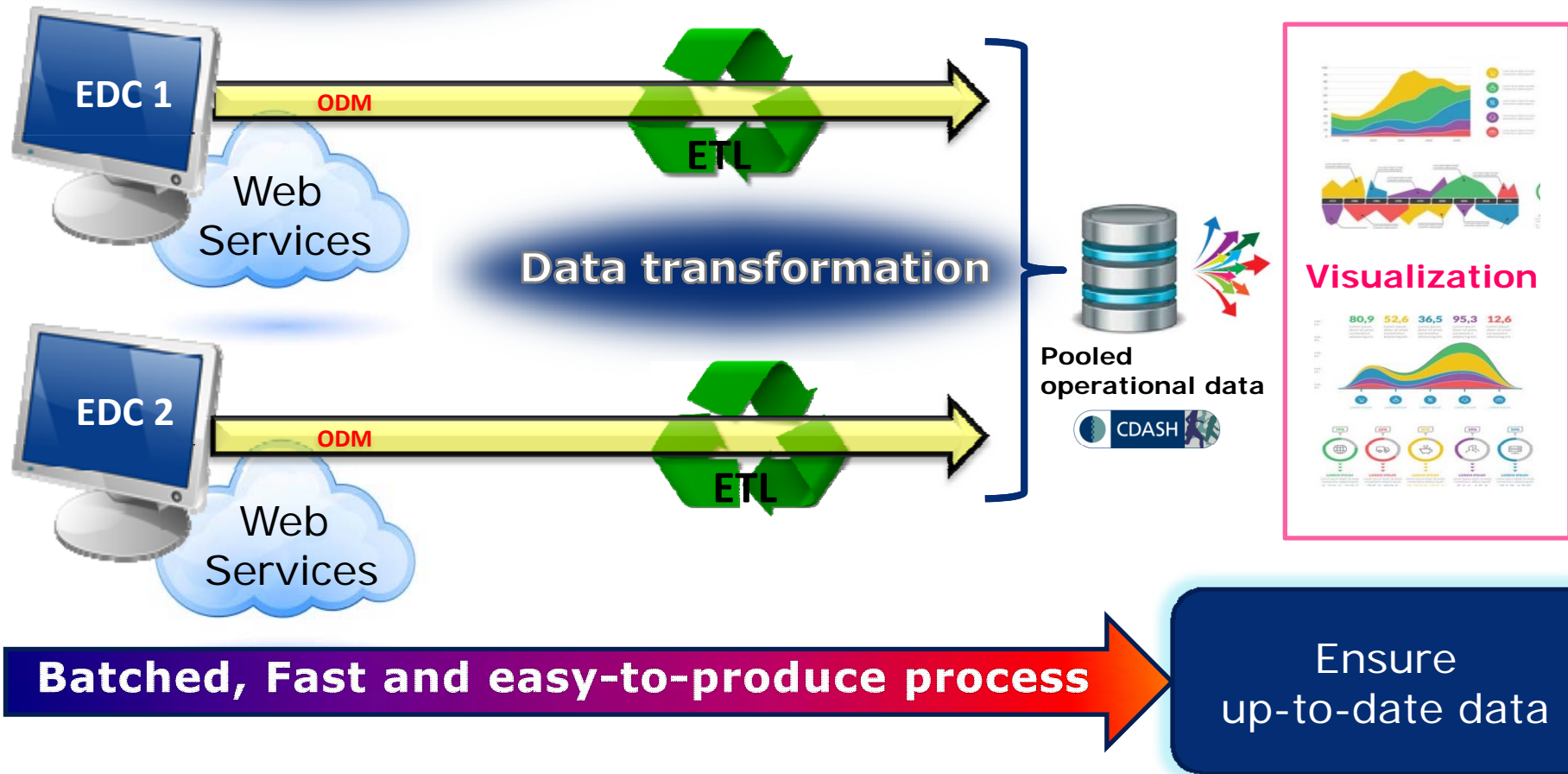


PHASE 2 : CLINICAL DATA AND METADATA (ONGOING)



DM METRICS AND CLINICAL DASHBOARDS (ONGOING)

Data Capture on-the-fly



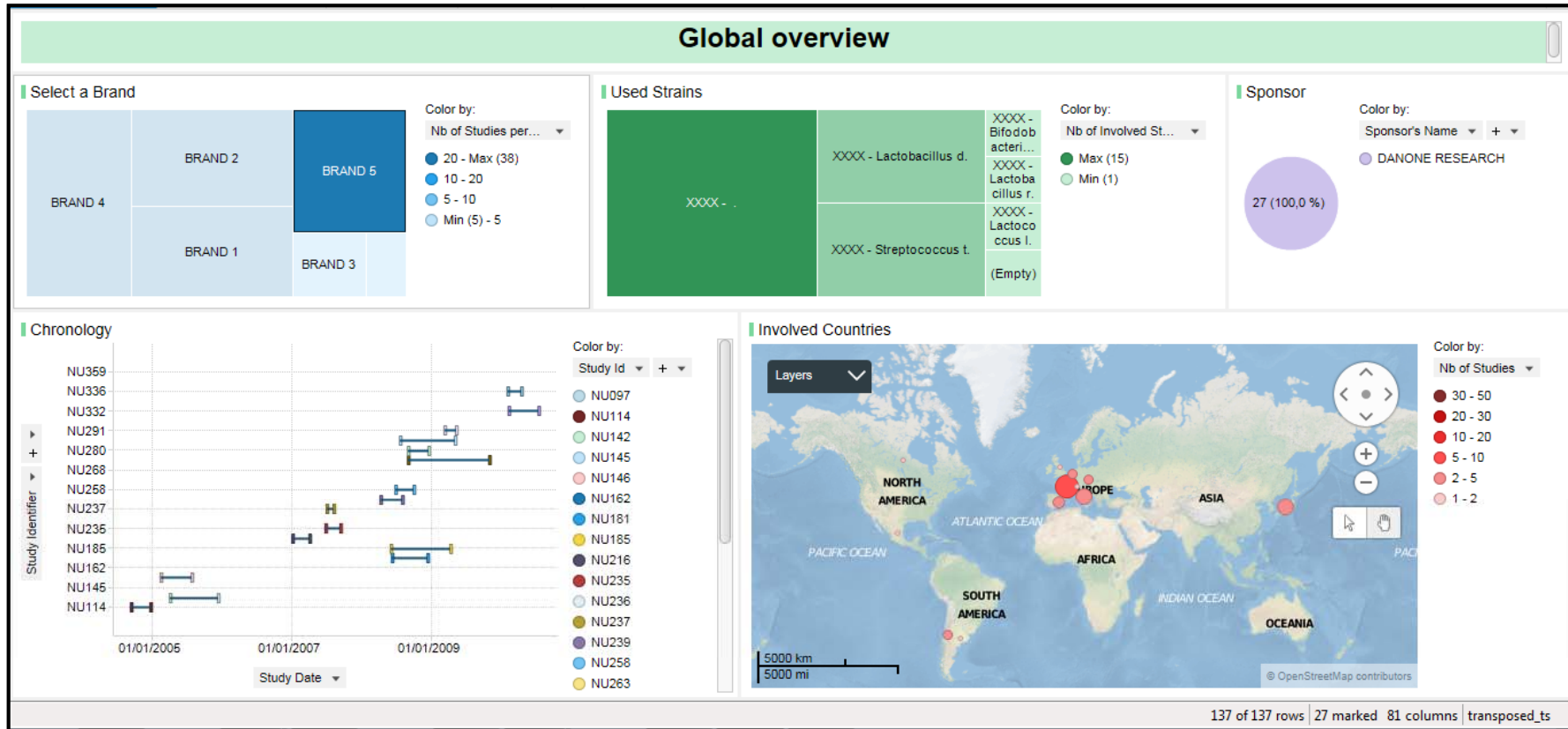
Batched, Fast and easy-to-produce process

Ensure up-to-date data



03 DATA VISUALISATION SOME EXAMPLES

METADATA CATALOG VISUALISATION GLOBAL OVERVIEW



METADATA CATALOG VISUALISATION

STUDY ID CARD

Select a study

ID card

Study Identifier

- NU097
- NU114
- NU142
- NU145
- NU146
- NU162
- NU181
- NU185
- NU216
- NU235
- NU236
- NU237
- NU239
- NU258
- NU263
- NU268
- NU274
- NU280
- NU281
- NU291
- NU329
- NU332
- NU333
- NU336
- NU348
- NU359
- NU360

Protocol description

Brand	BRAND 5
Study name	ATTACK SAFETY
Study Code	NU360
Study title	A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL STUDY TO EVALUATE THE SAFETY OF EXCESSIVE CONSUMPTION OF PLANT STEROL-ENRICHED FERMENTED DAIRY PRODUCT OVER A 4-WEEK PERIOD IN JAPANESE HEALTH
Clinical Study Sponsor	DANONE RESEARCH
Study Type	INTERVENTIONAL
1 planned Country(ies) of	JAPAN
Investigational Sites	
Study Indication	INDICATION 2

Study Design

Color by: Element + -

- Control Product - Placebo
- Follow-up
- Test Product
- Wash-Out

Data Content

Category	Parameter Name
Adverse Event	
Demographics	Age
Demographics	Date/Time of Birth
Demographics	Race
Demographics	Sex
Laboratory Test	25-Hydroxyvitamin D / Inactive Vita...
Laboratory Test	Alanine Aminotransferase / SGPT
Laboratory Test	Albumin / Microalbumin
Laboratory Test	Alkaline Phosphatase
Laboratory Test	Aspartate Aminotransferase / SGOT
Laboratory Test	Basophils
Laboratory Test	Basophils/Leukocytes
Laboratory Test	Blood Urea Nitrogen
Laboratory Test	CPK / Creatine Kinase

Colors:
● Adverse Event
● Demographics
● Laboratory Test
● Vital Signs Test

Study documentation

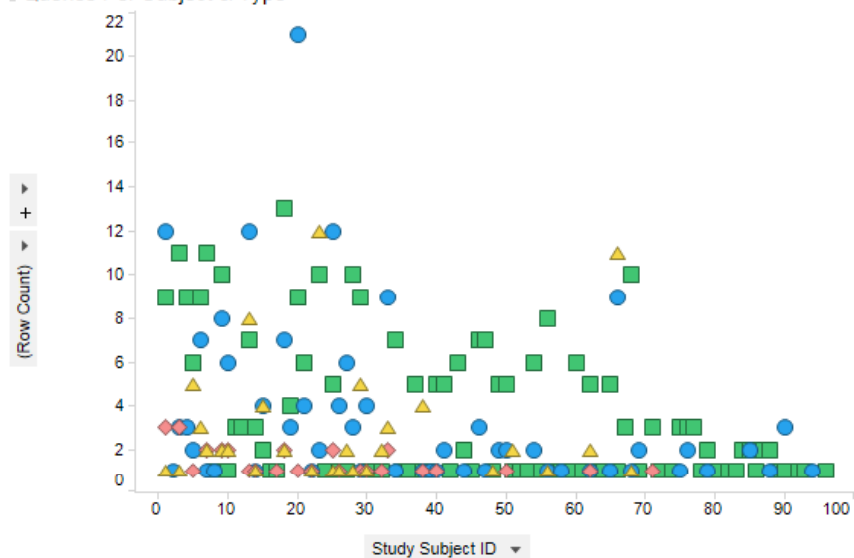
Document Name	Hyperlink
CSR	Click here to access
Budget	Click here to access
Study Global Planning	Click here to access
Study Global Planning	Click here to access
Lock Authorization Form	Click here to access
Lock Authorization Form	Click here to access
Final Protocol	Click here to access

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DATA MANAGEMENT METRICS

QUERIES OVERVIEW

Queries Per Subject & Type

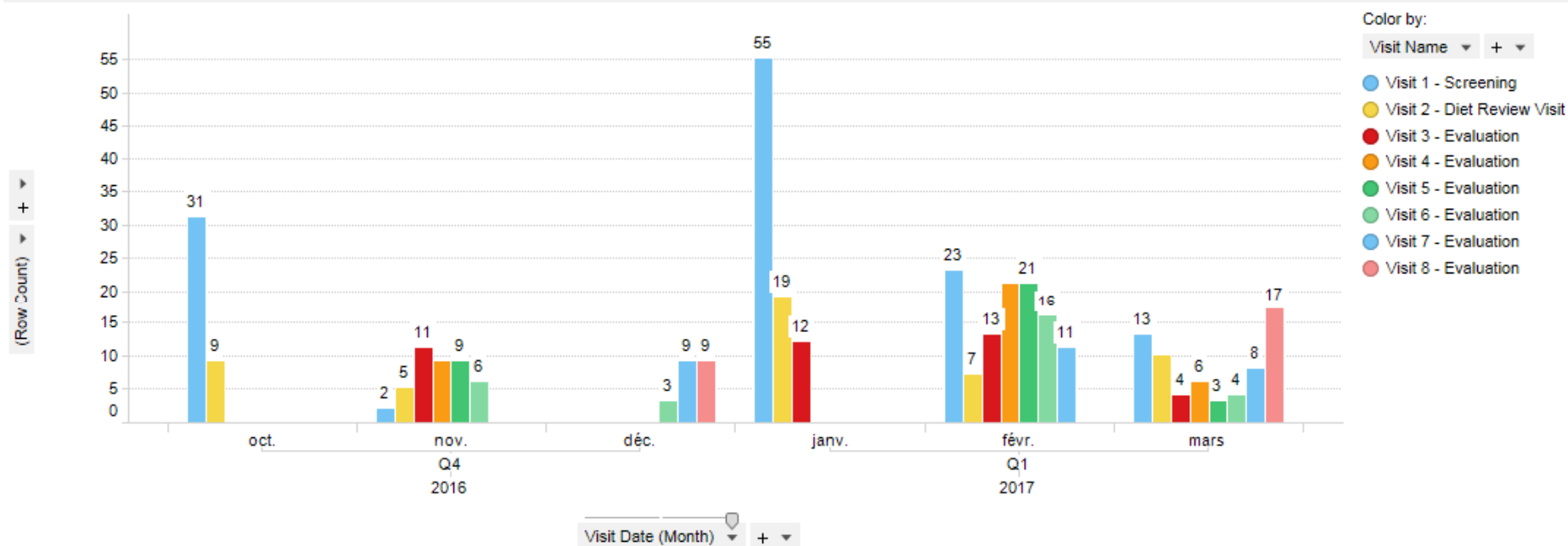


Queries Age

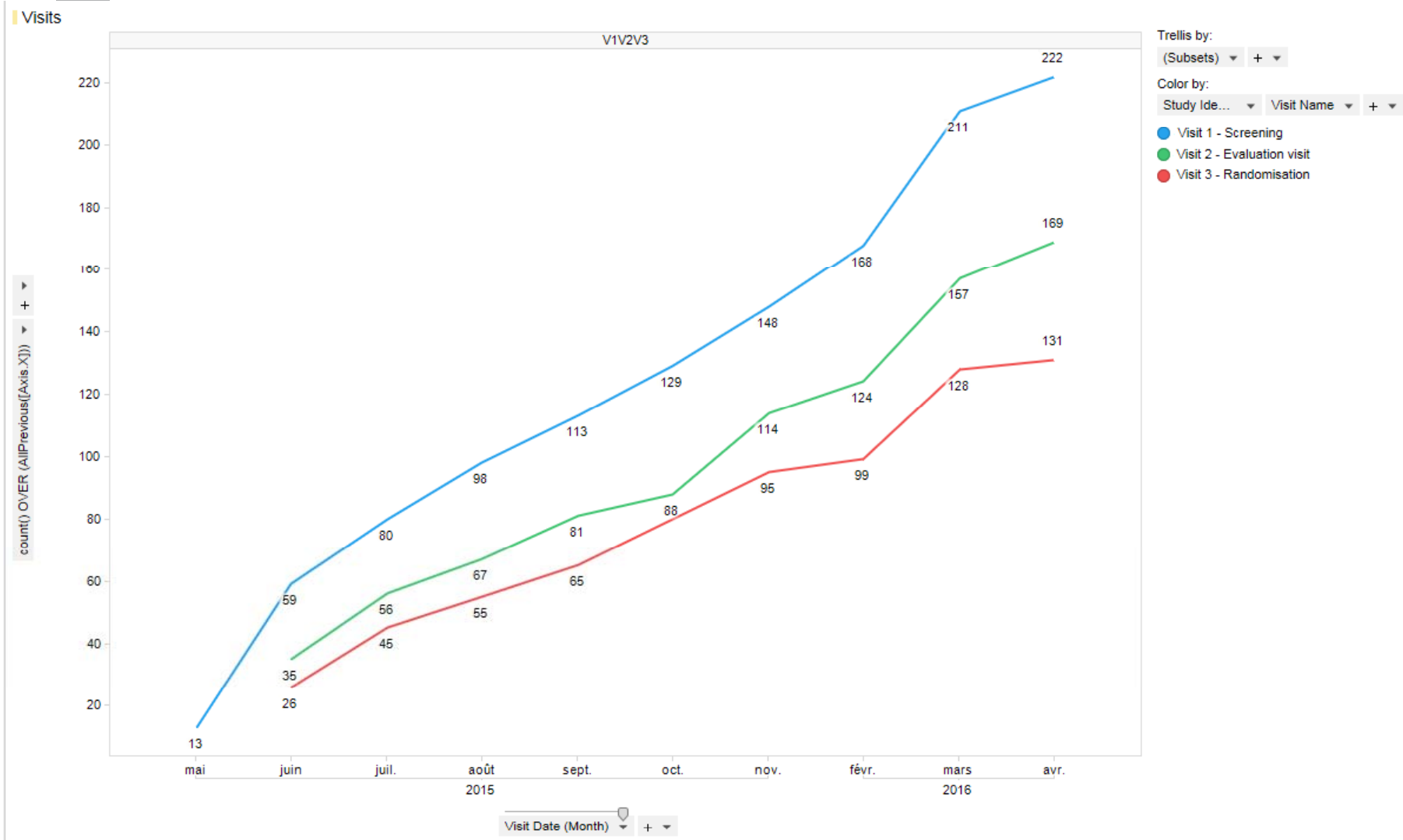


CLINICAL OPERATIONS VISUALISATION

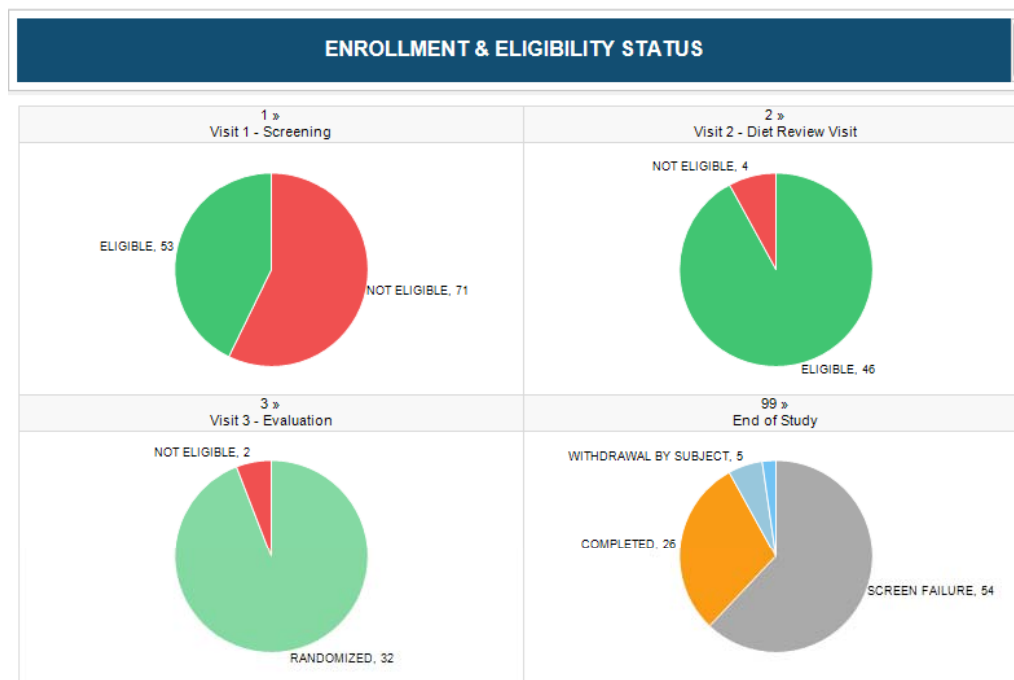
SUBJECTS' VISITS PROGRESS



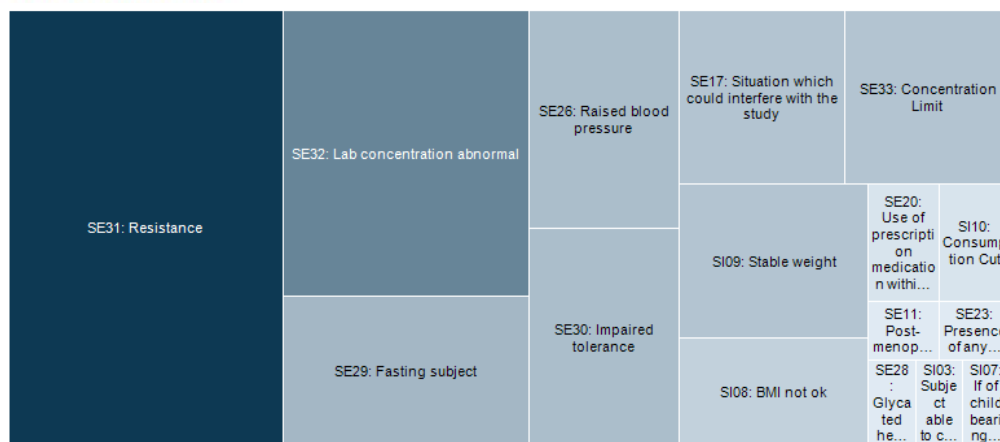
CLINICAL OPERATIONS VISUALISATION ENROLLMENT CURVE PER VISIT – DROP OUT



CLINICAL OPERATIONS VISUALISATION

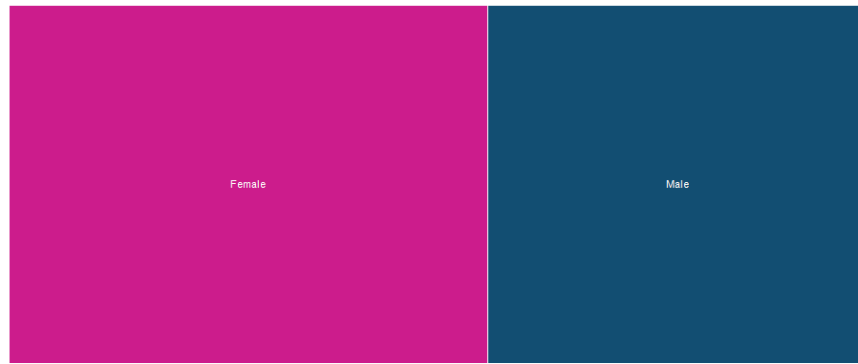


Inc/Exc Criteria not fulfilled

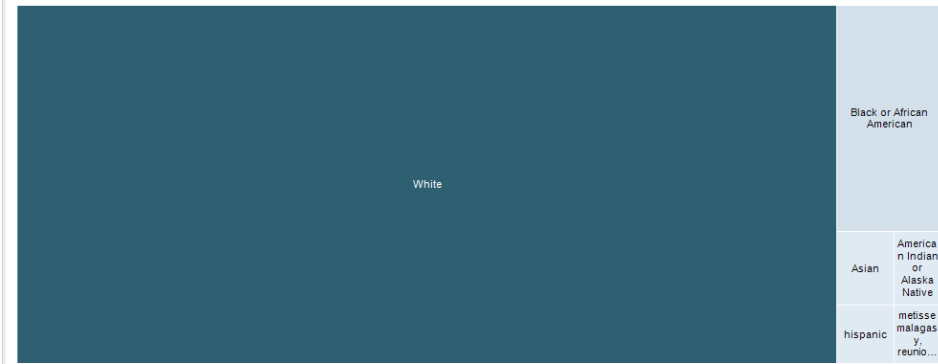


CLINICAL DATA VISUALISATION POPULATION

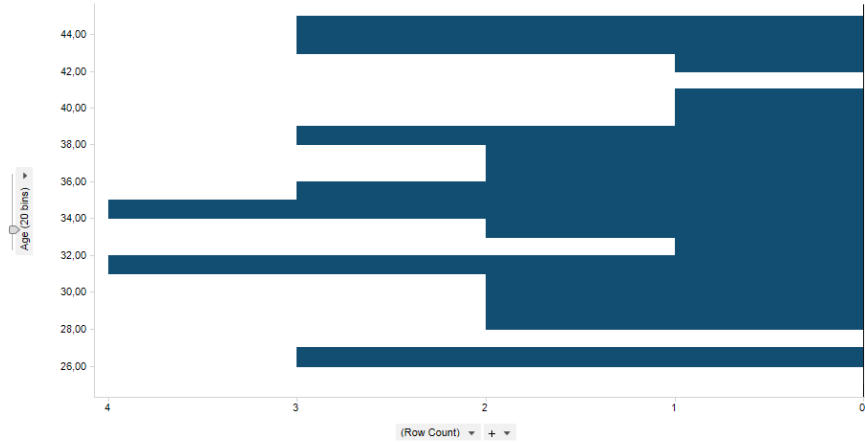
Population per Sex



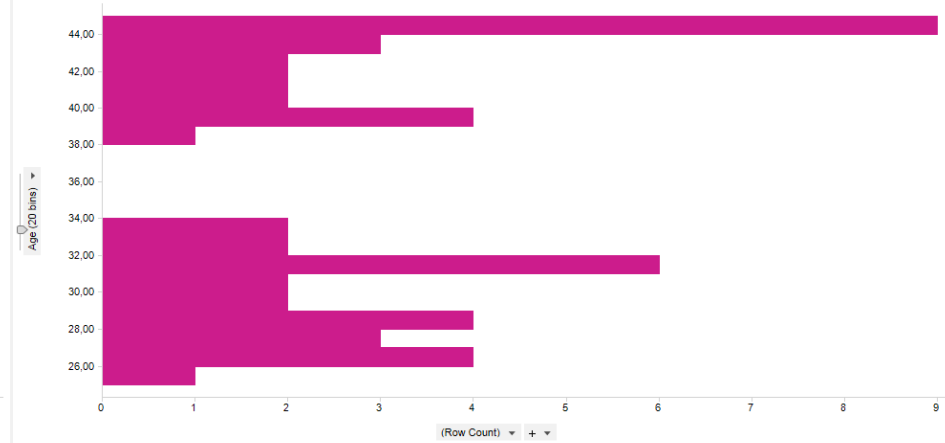
Age per Race



Age Male Population



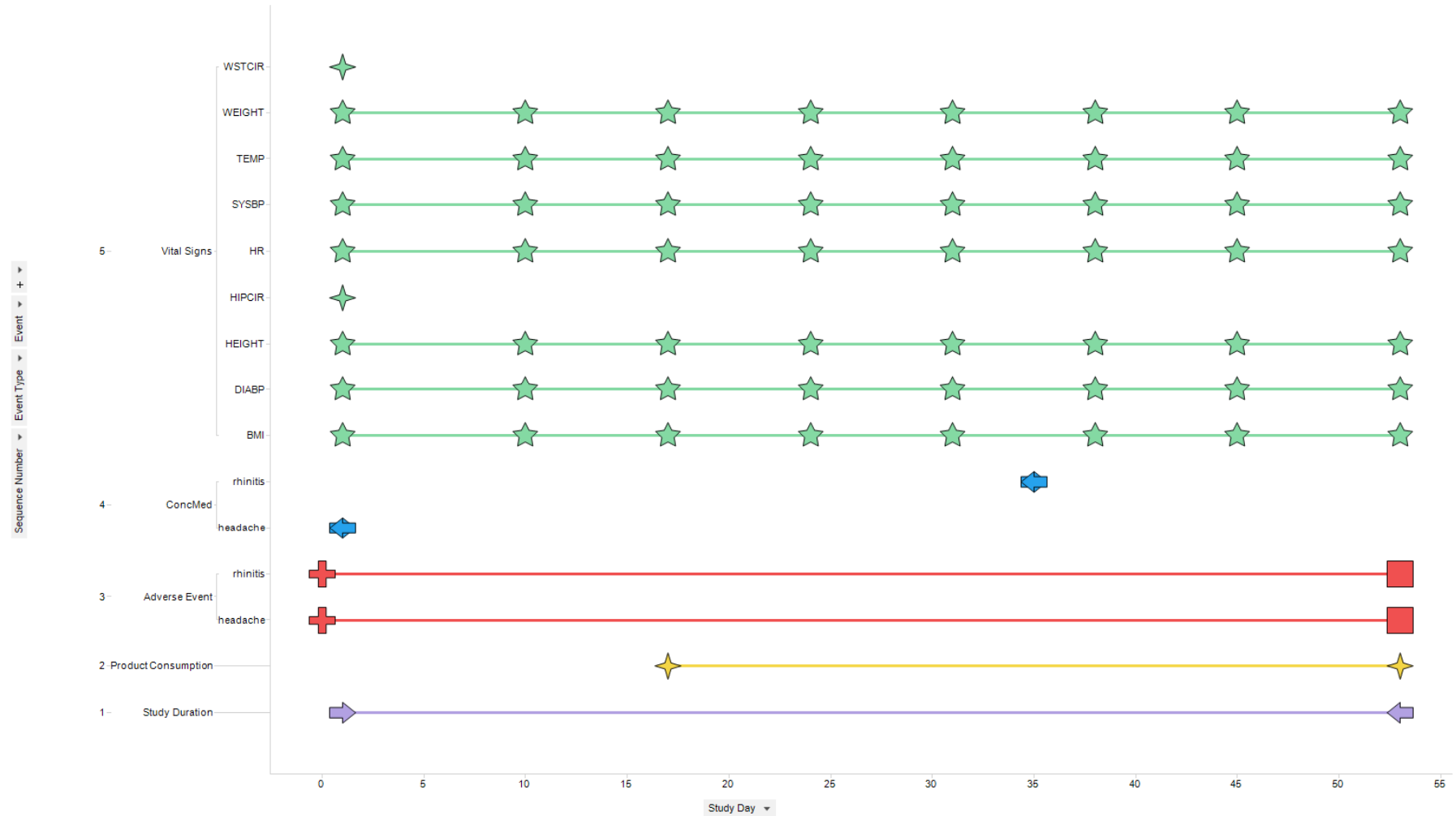
Age Female Population



CLINICAL DATA VISUALISATION

PATIENT PROFILE

Patient Profile



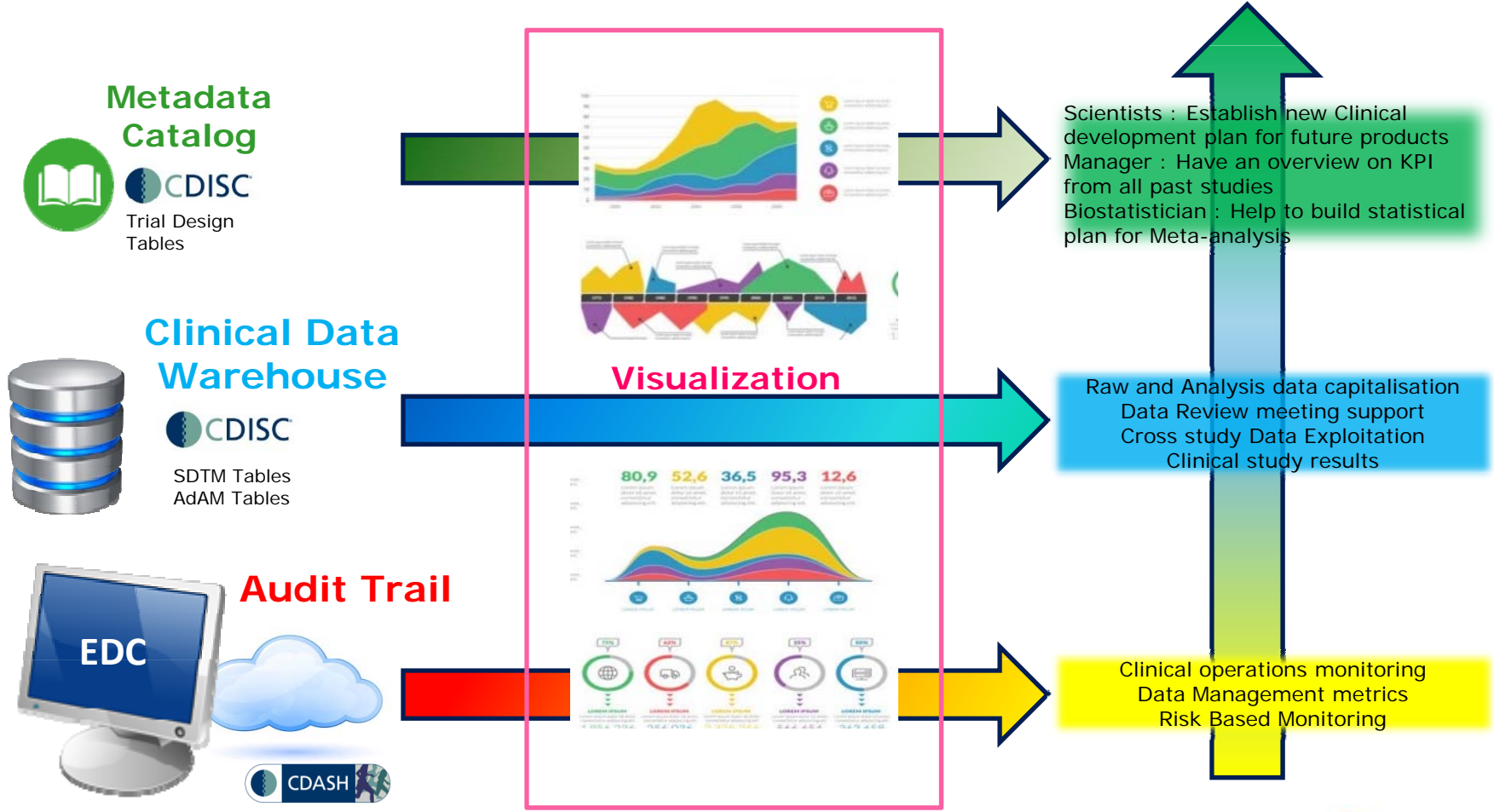


04 RETURN-ON-EXPERIENCE

...ONCE UPON A TIME...

Once upon a time...
...a clinical study

From study to Subject level

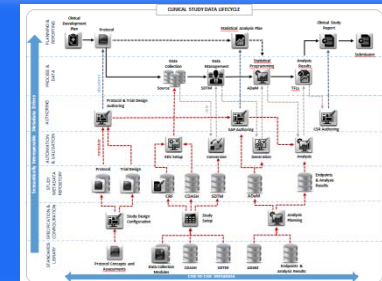


RETURN-ON-EXPERIENCE



Mandatory to use an End-to-End process integrally based on CDISC Standards for Data, Metadata and Data Management tools.

Retrieve efficiently and easily all data & information from the protocol to the CSR ensuring a continuous workflow among Clinical Core team members



Importance to use a Agile methodology based on Use Cases/User Stories to create visualisation for each business needs and exploit efficiently data & information for each user profile

THE CRAZY TEAM

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Alexandre Grundstein

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Collection
Marion Bonnet

Data
Architect
Abderraouf Bensaber

Data Viz
Designer
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