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## Developing and Implementing CDISC CORE: a Data Managers Testimonial

Presented by Els Janssens, Executive Manager Secure Data Office Data Management, SGS Health Science





# **Meet the Speaker**

Els Janssens

Title: Executive Manager Secure Data Office

Organization: SGS Health Science

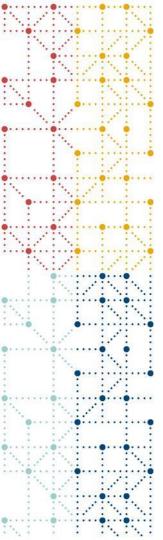
Els Janssens has more than 10 years of experience in the field of Clinical Data Management and CDISC SDTM standards (pharma and CRO). In her current role as Executive Manager Secure Data Office, she is responsible for the overall management of a dedicated unblinded team within SGS Data Management.



#### **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 and SGS.
- The author(s) have no real or apparent conflicts of interest to report.





# Agenda

- 1. Introduction
- 2. To CORE or not to CORE?
- 3. Project Evolution
- 4. HardCORE Practice
- 5. Key Learnings
- 6. Future Development



1. Introduction



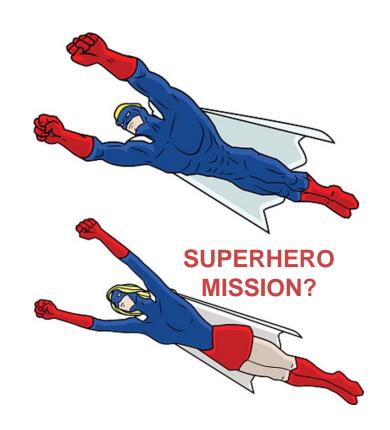
## Introduction

#### **Global Mission**

- Data packages of high quality
- Clear & fast analysis and reporting
- Successful submission

#### Reality

- Increased trial complexity
- Several regulatory requirements
- Flexibility and adaptability needed
- Fast, faster, fastest





## Introduction

#### **Global Mission**

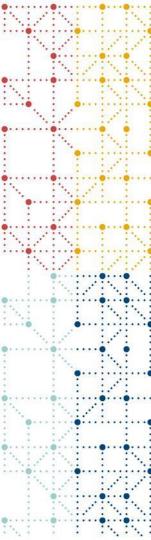
- Data packages of high quality
- Clear & fast analysis and reporting
- Successful submission

#### Reality

- Increased trial complexity
- Several regulatory requirements
- Flexibility and adaptability needed
- Fast, faster, fastest
- CDISC CORE







This should not be a question



## Company



- Daily validation of data packages
- CDISC + regulatory + in-house developed rules
- Rules that are up to date with latest standards
- Rules that are unambiguous
- Validation of only parts of the data (e.g. blinded data)
- Achieve best quality in the most efficient way
- Open Source



#### **Personal**



- Expand knowledge of CDISC standards
- Understand how rules are defined and developed @CDISC
- Connect with people from the industry and exchange thoughts
- Contribute to the development of the industry



# Professional experience as data manager



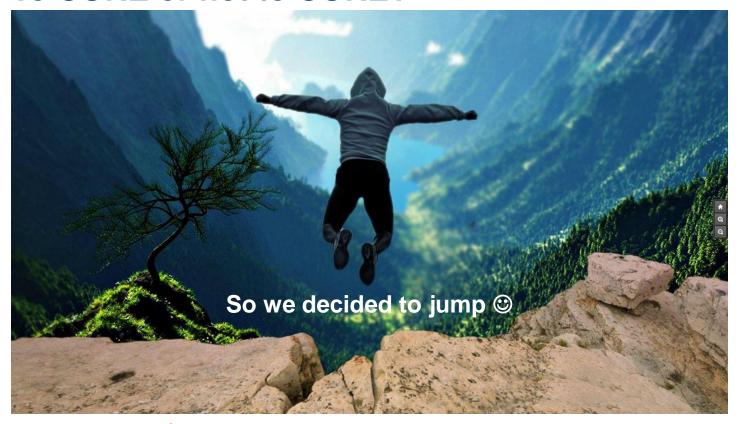
- eCRF review data cleaning
- SDTM set-up and validation
- Development and validation of data cleaning rules (on SDTM)

## **Cold Feet**



- First time volunteering What is expected from me?
- Am I smart enough? Imposter syndrome
- What if they only need programmers? I know some basic SQL but...





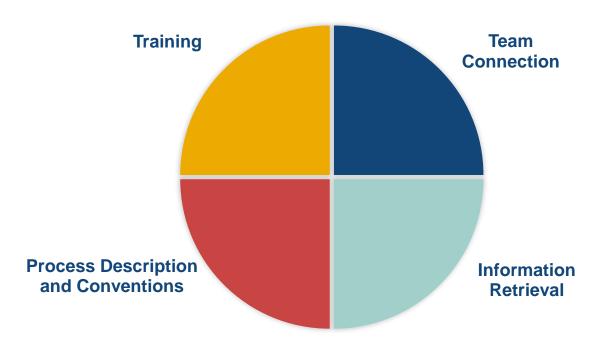




Rules Development Team



## **4 PROJECT PILLARS**





## **Team Connection**



- Regular meetings in an informal setting
- Everybody can ask questions + learn from each other
- Keep everyone up-to-date on new decisions

## **Training**



- Does everyone understand the process
- Repeat trainings on a regular basis for newcomers
- Workshops with F2F assistance



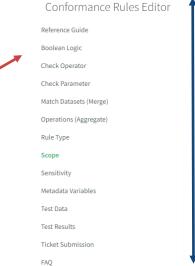
#### GitHub allows better tracking of scripting updates

## **Information Retrieval**



#### Wiki Pages

- ▼ Conformance Rule Development Team
  - Decision Log
  - > Executable Rule Authoring Processes
  - > Training
  - Reference Guide
  - Rule Type Templates
  - CORE Executable Status
  - > Conformance Rule Development Team Meeting Notes
  - > SDTMIG Conformance Rules Sign-up List



Direct link: JIRA issue and Github ticket

JIRA tracker allows better follow-up of rule statuses

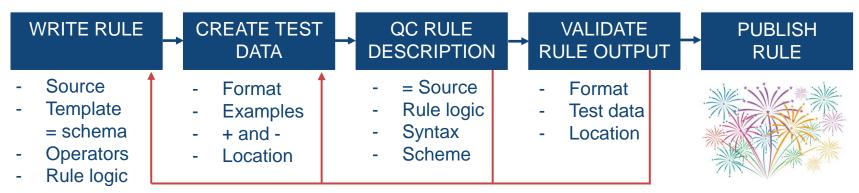
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0	CORERULES-65	CG0045	Els Janssens	Dana Booth	0	PUBLISHED
0	CORERULES-811	CG0049	Els Janssens	Amy Palmer	0	AUTHOR IN PROGRESS
0	CORERULES-1225	CG0049	Els Janssens	Amy Palmer	0	AUTHOR IN PROGRESS
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0	CORERULES-1241	CG0075	Els Janssens	Amy Palmer	0	AWAITING QC
0	CORERULES-1287	CG0147	Els Janssens	Amy Palmer	0	AWAITING QC



## **Process Description and Conventions**



- Good documentation of the different steps:
  - Early day volunteers versus people joining later
  - Small group versus large group
  - Fixed workflow





Feedback to author

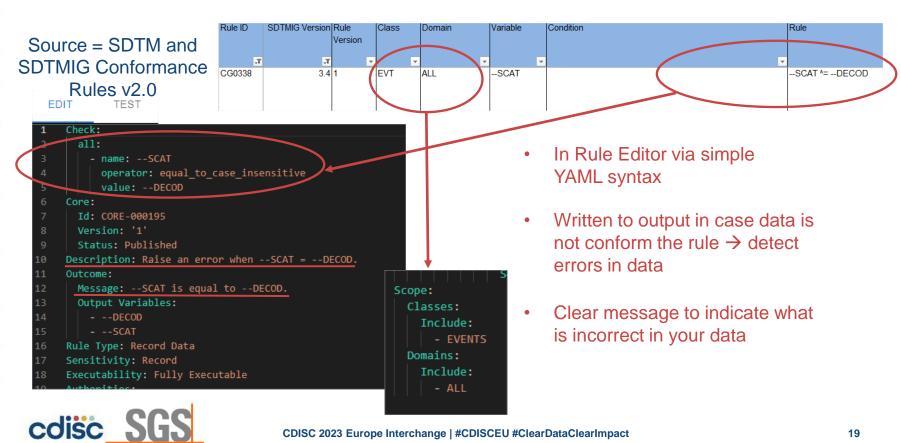


# 4. HardCORE Practice

Develop and Validate Rules



#### **HardCORE Practice**



#### **HardCORE Practice**

Source = SDTM and **SDTMIG Conformance** Rules v2.0

> name: VISITDY operator: exists ame: VISITNUM

name: VISITUY

Match Datasets wame: TV

- VISITNUM

Id: CORE-000249

Status: Published

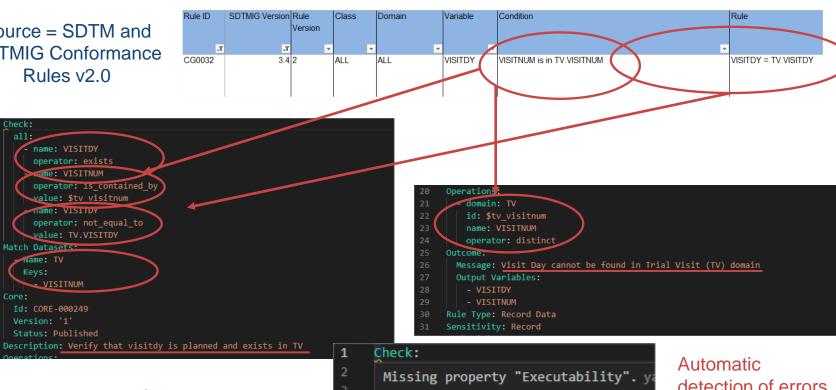
value: TV.VISITDY

operator: 15\_contained\_by

value: \$tv visitnum

operator: not\_equal\_to

Check:

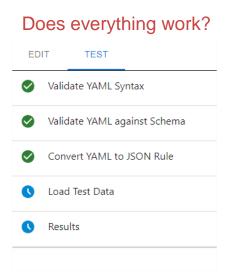


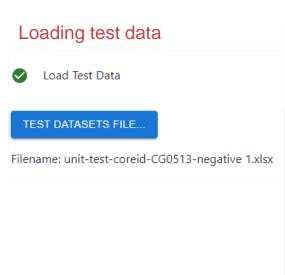


detection of errors

## **HardCORE Practice**

#### **Validation in Rule Editor**











# 5. Key Learnings

Achievements & Challenges



## **Key Learnings**

## **Achievements**



- Rule writing and validation is easy and very accessible – no cold feet needed
- Only requirement is knowledge of the data standard no programming
- Amazing work behind the scenes to translate simple rule code into complex scripts
- Hard work from project leads and volunteers

## **Challenges**



- Impossible to foresee everything upfront – develop while doing rework needed
- Will everyone do it correctly? control
- Non-executable rules or ambiguous rules
- Keep info up to date and remove obsolete information – avoid confusion



**6. Future Development** 



## **Future**

#### **Decisions to be made**

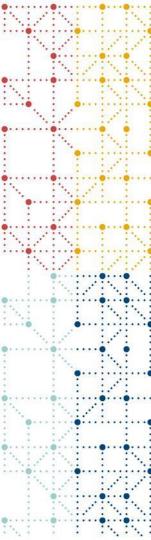


- Use off-the-shelf validation systems
- Develop an in-house system
- New validation systems on the market?

# What will other companies do?







## CONCLUSION



We took the decision to jump...

It was the right decision, we survived...

So there is no excuse to not jump as well!





## **Thank You!**

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