

CONSUMING YOUR METADATA FOR A HEALTHY MAPPING

10th October 2017, Edinburgh
Alan Cantrell

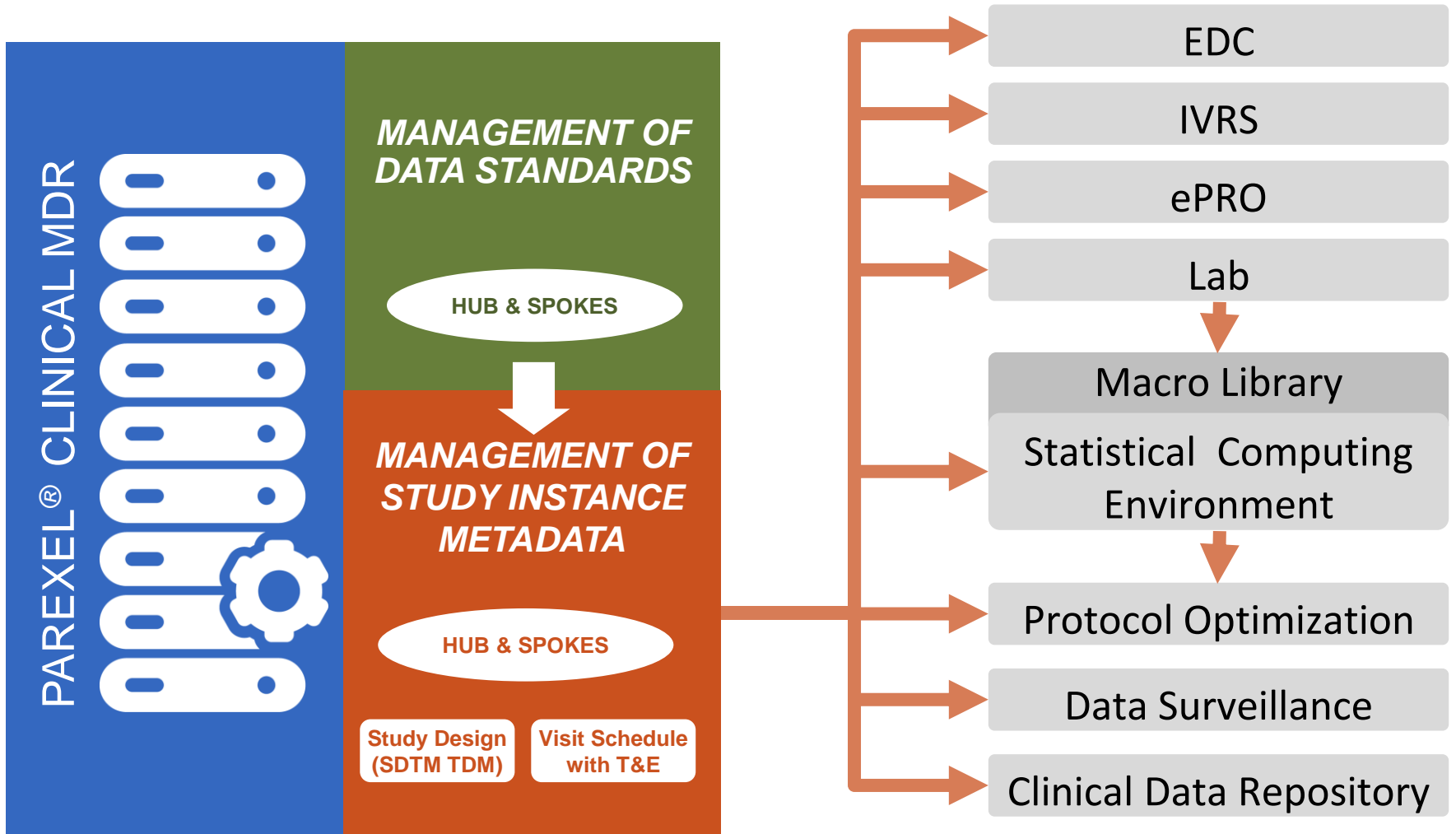
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AGENDA



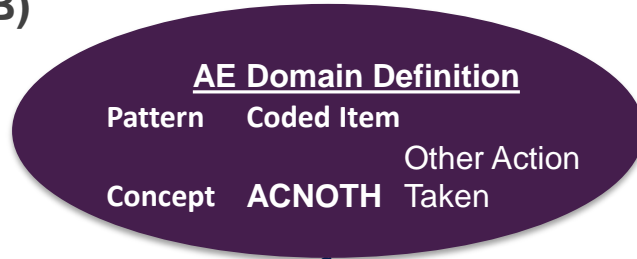
- Introduction
- Using the metadata
- Generating pattern code
- Executing pattern code
- Consistency checking and governance
- A worked example
- Conclusion

INTRODUCTION - I

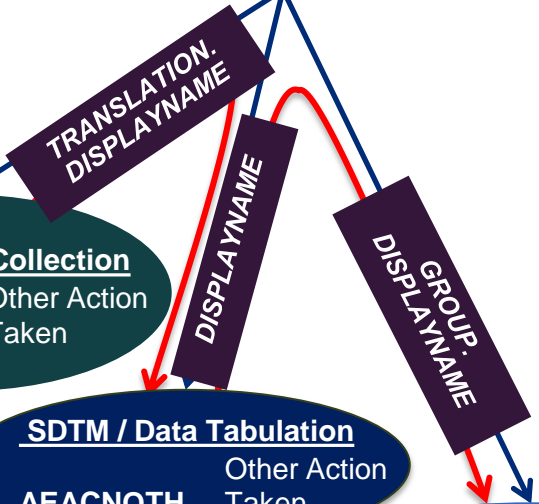
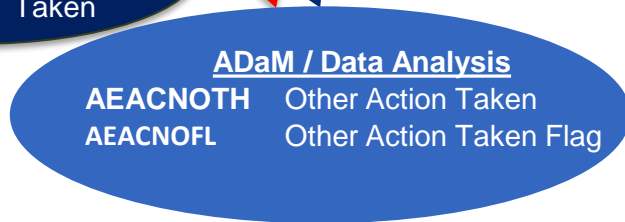
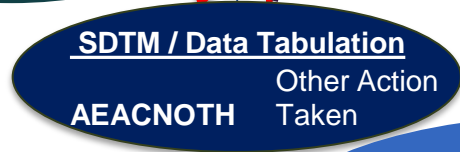
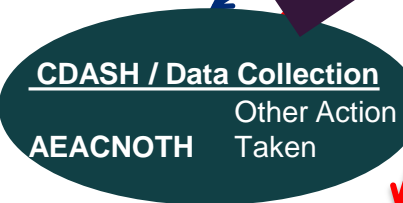


INTRODUCTION - II

(HUB)



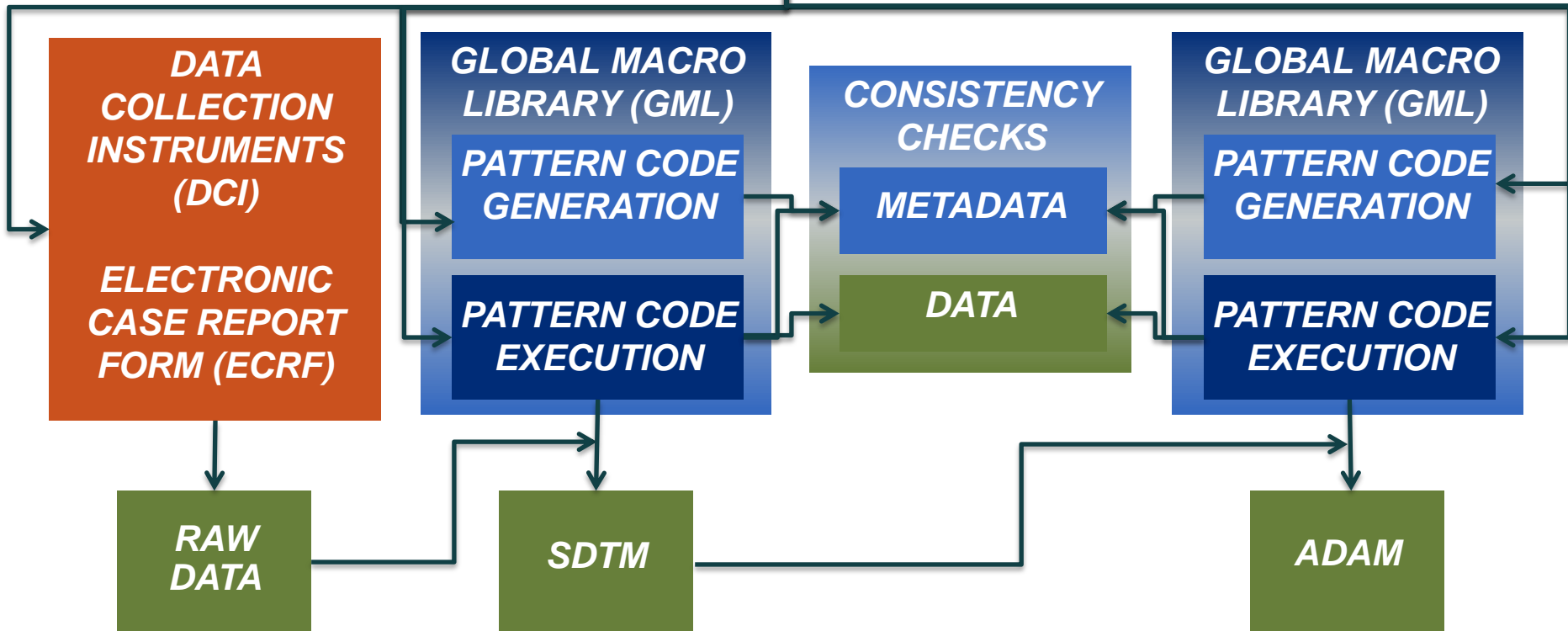
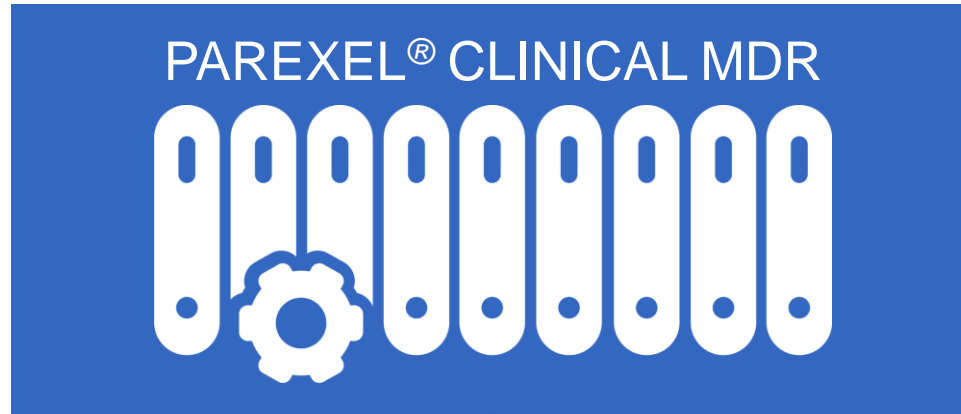
(SPOKES)



- ISO 21090 BASED CLINICAL RECOGNIZABLE CONCEPTS
- DATA IS MAPPED TO AND FROM A HUB
- USABLE FOR CDISC AND OTHER DATA MODELS

- Mapping by declaration to concepts
- Allows End to End (E2E) data flow dry-run without data
- Study teams worry about the what not the how

USING THE METADATA



GENERATING AND EXECUTING PATTERN CODE



Generating Pattern Code

- For each pattern defined in the MDR
- Corresponding algorithm to translate the pattern metadata connectivity and input data into output data
- Executable pattern code generated

Executing Pattern Code

- Once pattern code is generated
- Code is executed together with the input data (e.g. raw data for an SDTM execution)
- Output data generated

CONSISTENCY CHECKING AND GOVERNANCE



Performed at both pattern code generation and pattern code execution

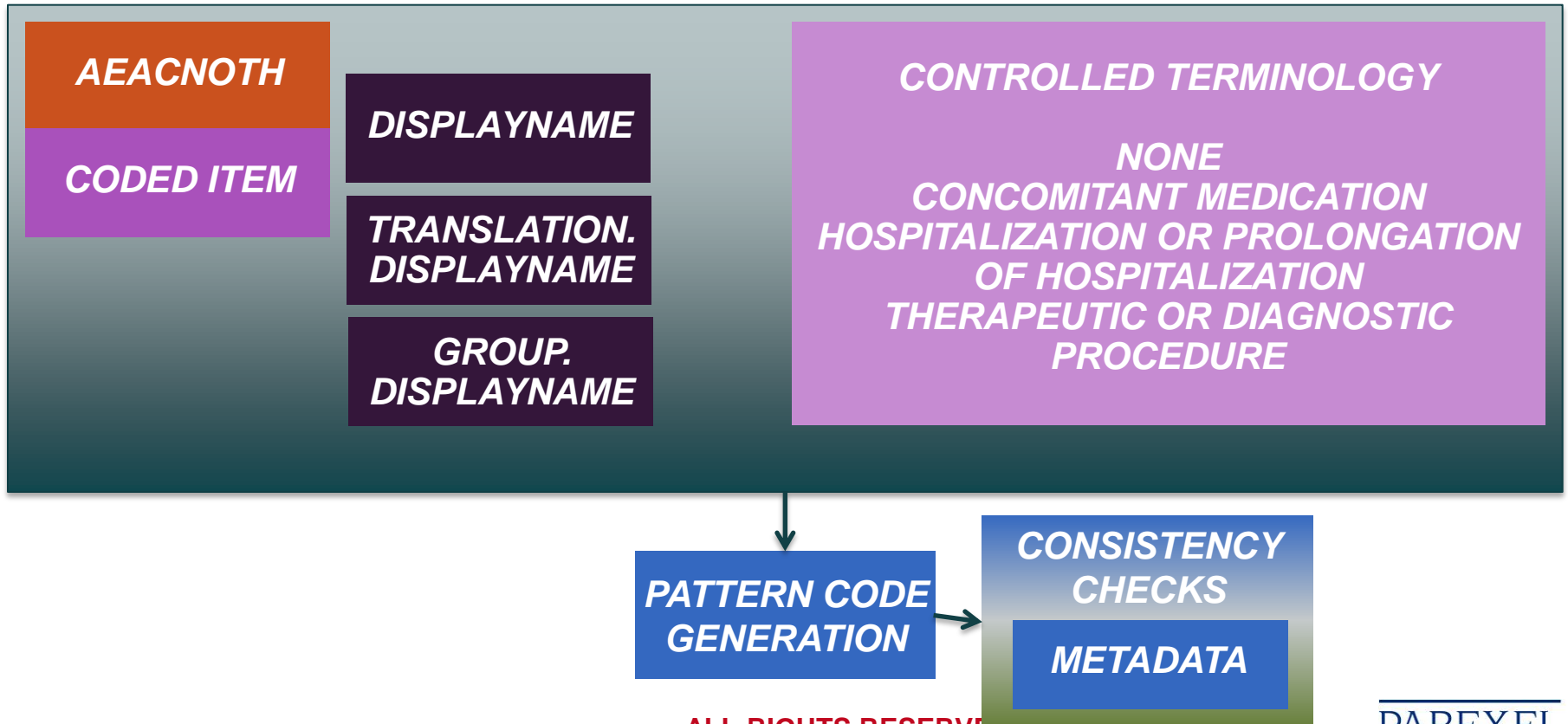
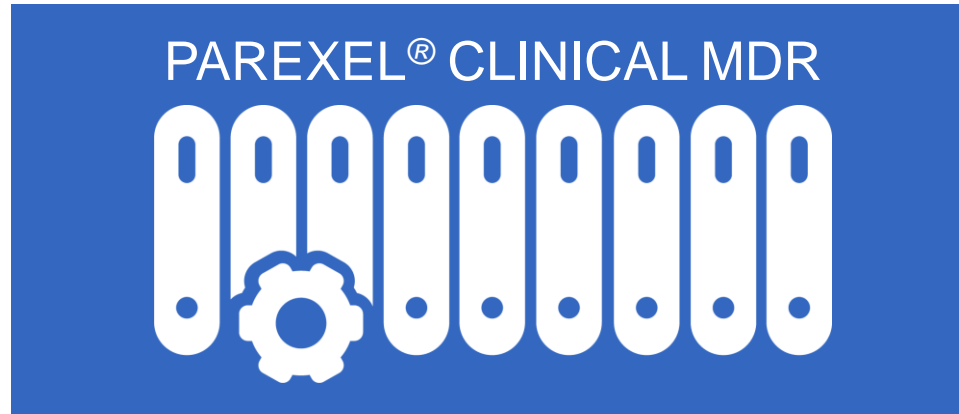
During pattern code generation

- Checks performed on the metadata
- Check each variable in the metadata is accounted for

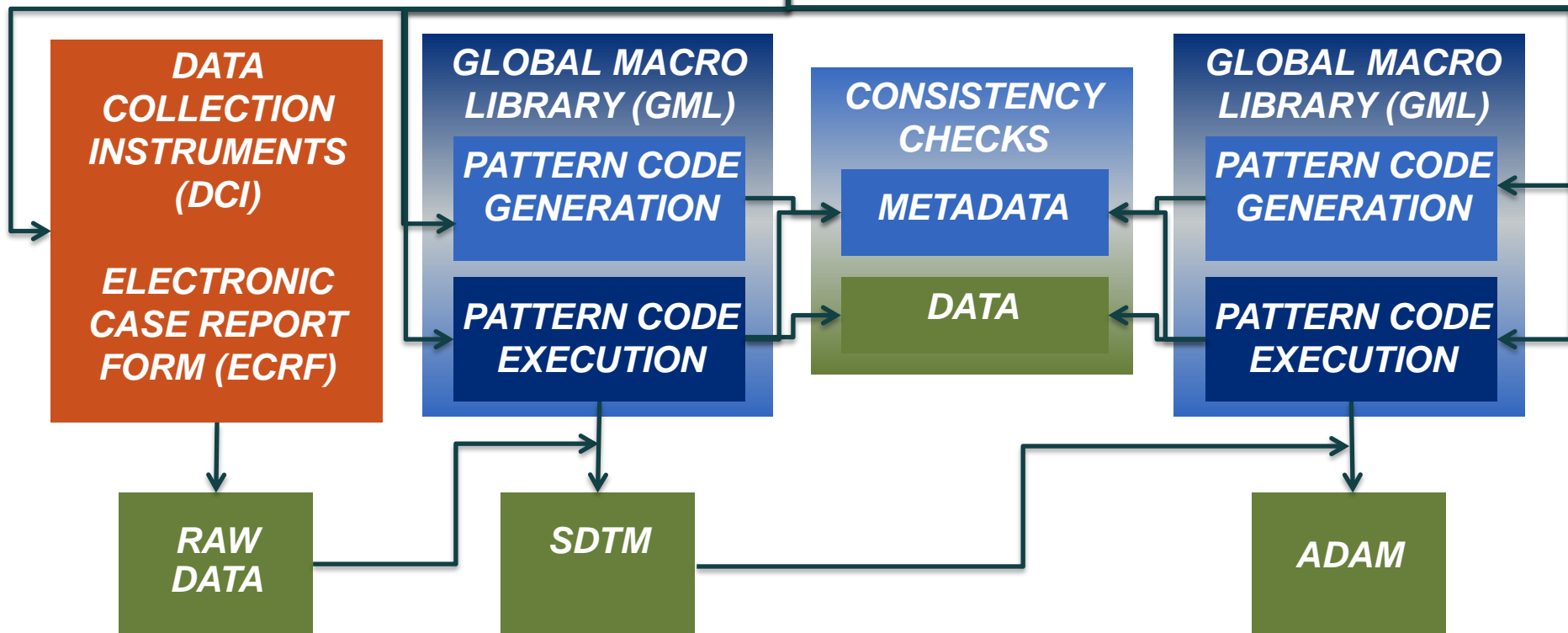
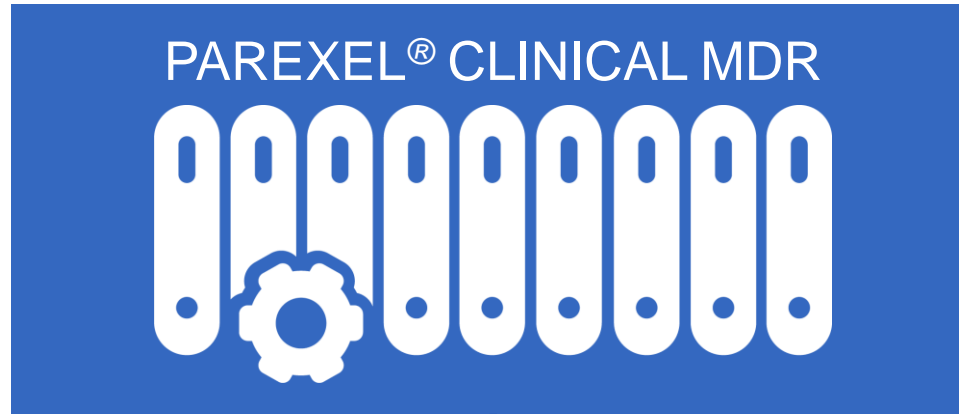
During pattern code execution

- Checks performed on the metadata
- Checks performed on the data
- Check individual metadata is consistent between the study instance metadata; metadata in pattern code generated; structural metadata and raw data content

A WORKED EXAMPLE - I



A WORKED EXAMPLE - II



CONCLUSION

By defining algorithms that relate to each pattern applied in the PAREXEL® Clinical MDR; we can automate the majority of tabulation and analysis dataset mappings and associated population.

PAREXEL® Clinical MDR and patterns facilitate



SIMULTANEOUS



CONSISTENT



EFFICIENCY

THANK YOU

*Alan Cantrell
Senior Manager, Statistical Programming
PAREXEL International
Alan.Cantrell@PAREXEL.com*