

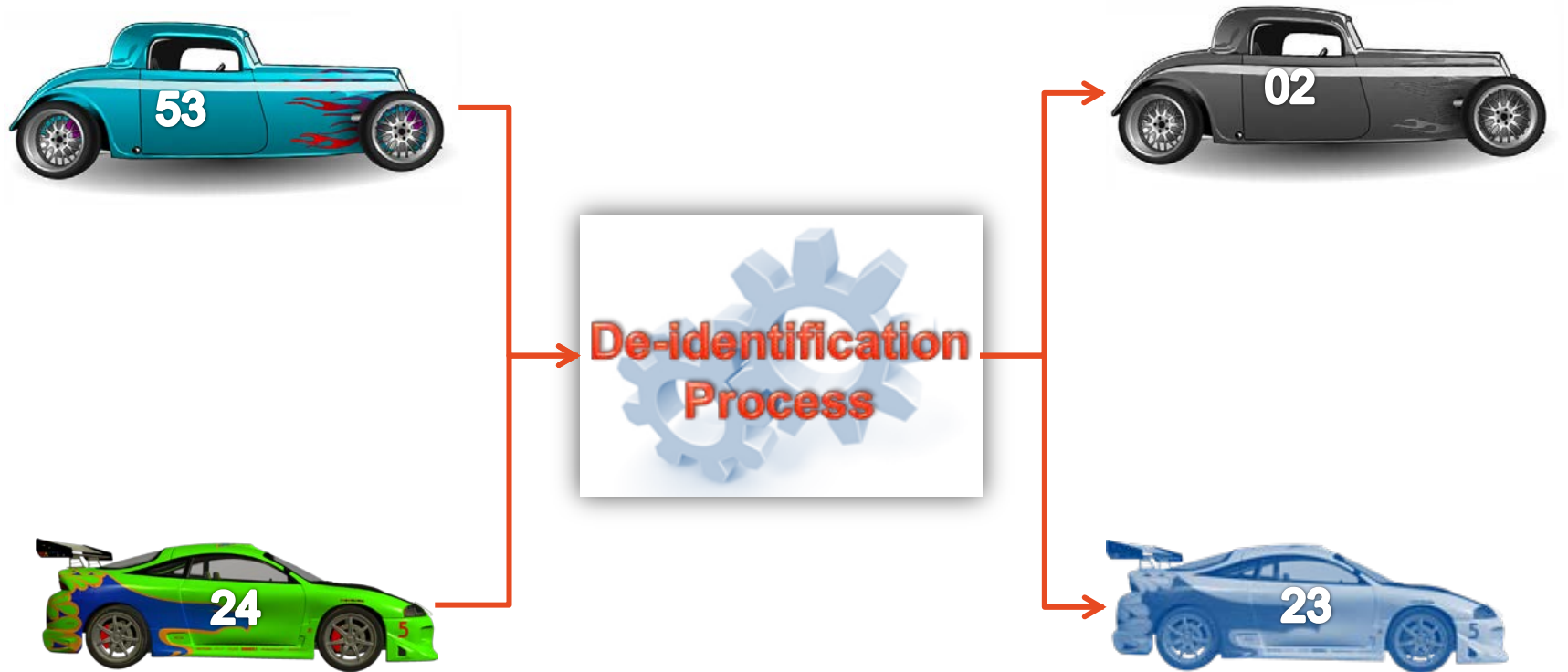


Statistical Programming

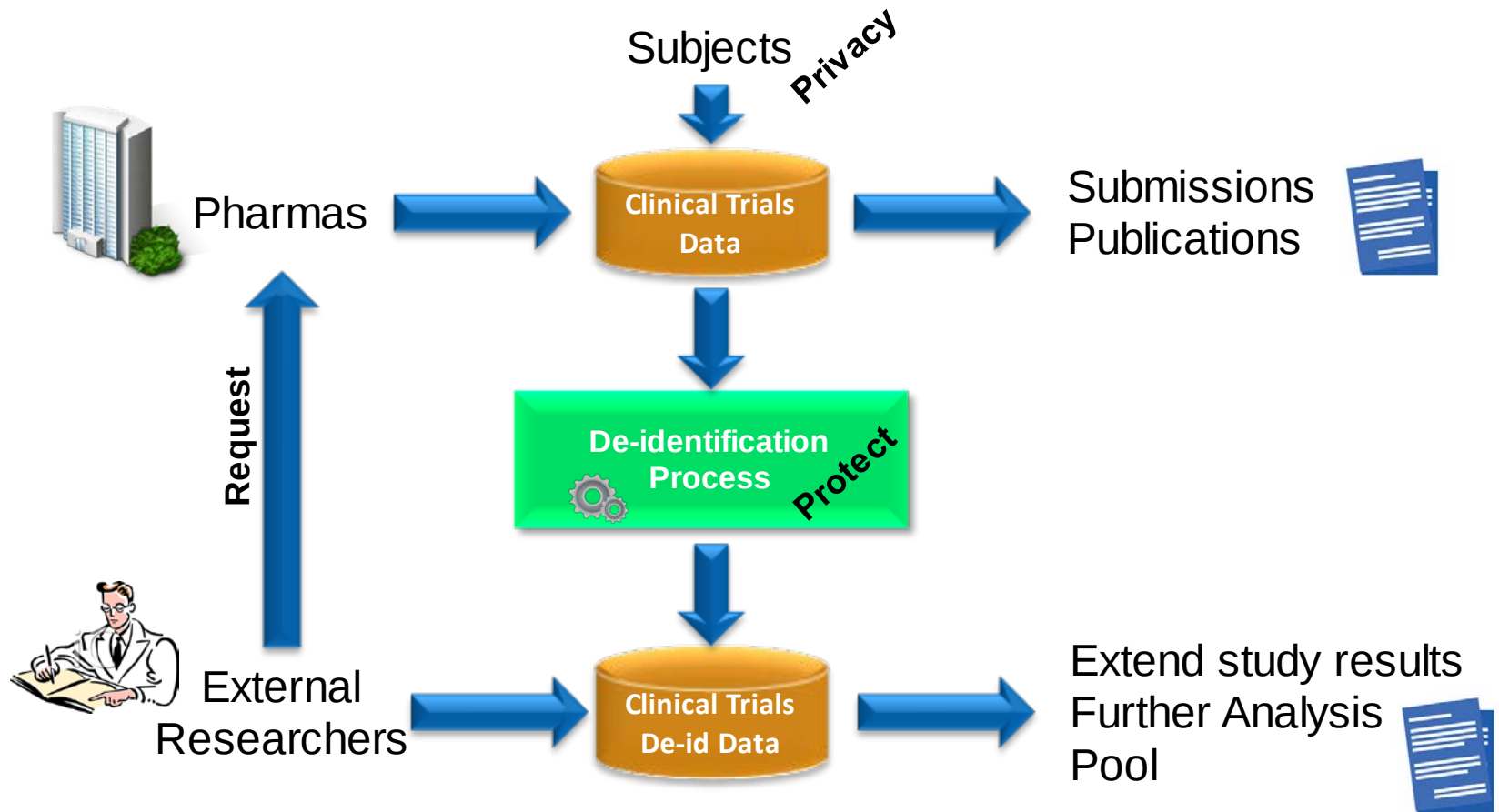
DH06 A Standardized Approach to De-Identification

Sreekanth Yelchuri,
Senior clinical SAS programmer

What is De-identification?

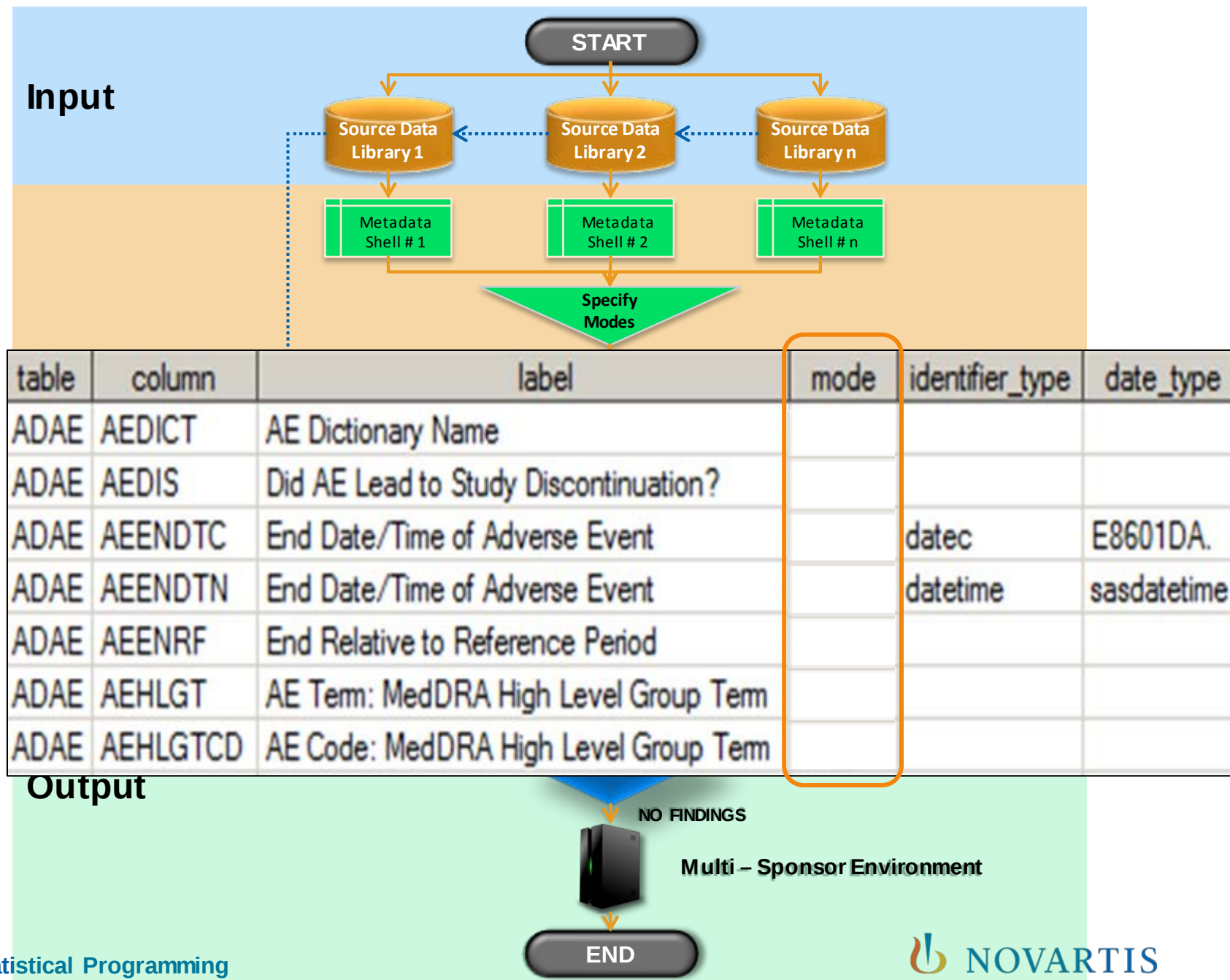


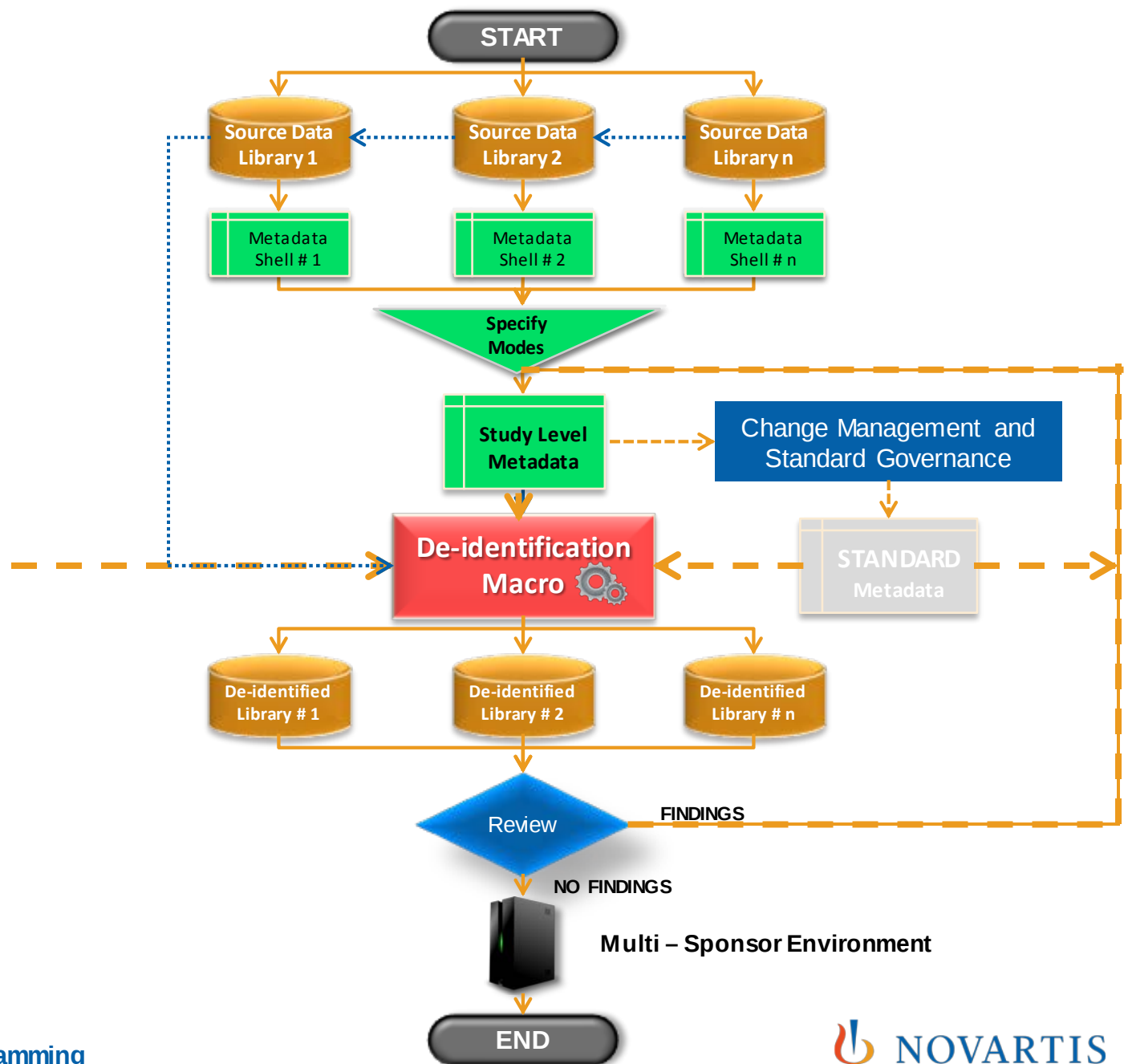
Context

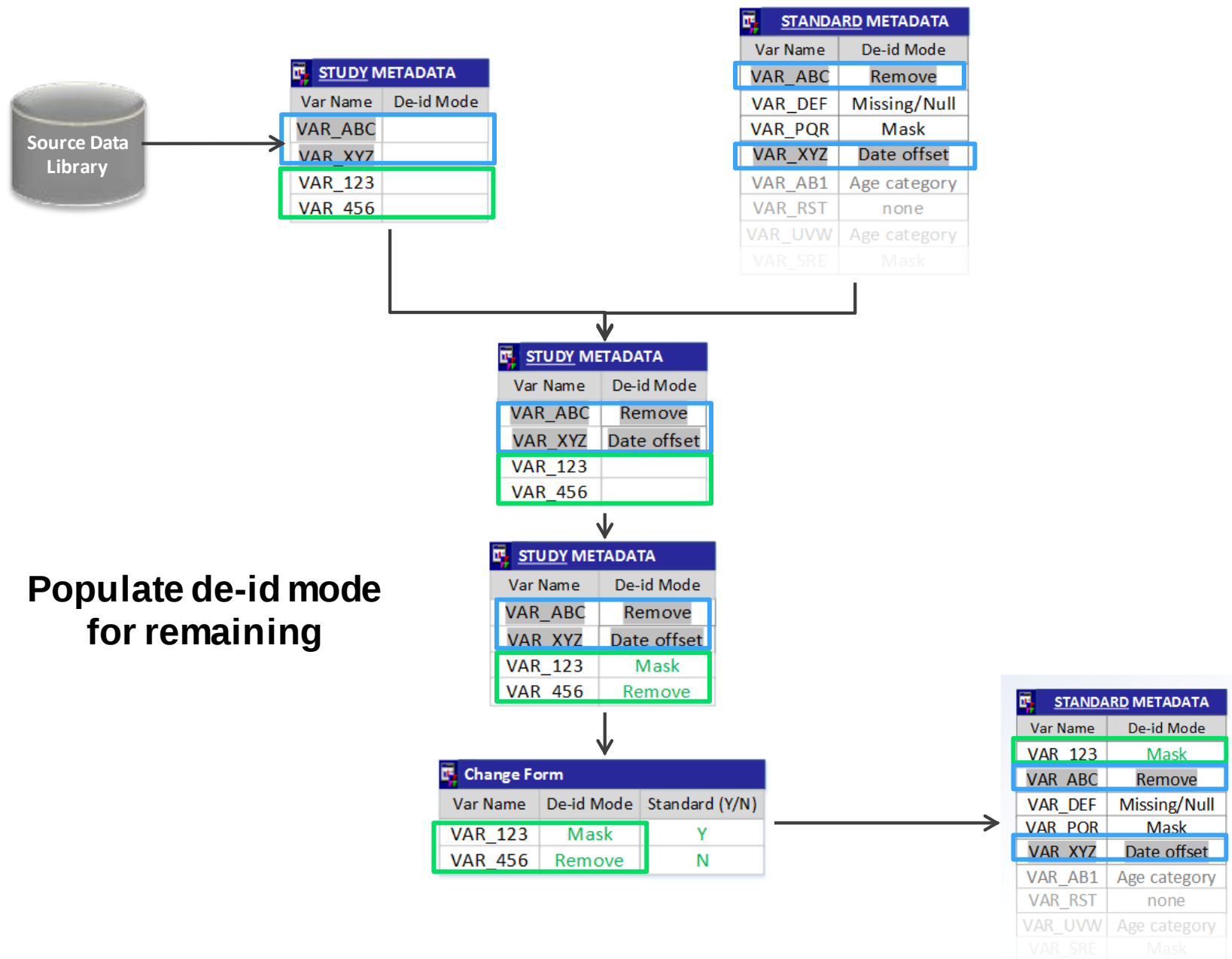


Paper Contents vs Presentation

- Introduction
- **De-identification Process**
- De-identification Tool
- Metadata
- Validation Approach
- Programming Utilities and Templates
- Risk Based Approach
- Multi-Sponsor Environment
- Conclusion







Example Input & Output

Original Data	INV	Investigator name	SUBJID	Age	AESTDAT	AEENDAT	AEDECOD
	308400C@CA	Dr Smith	1001003	59			DIARRHOEA
	308400C@CA	Dr Smith	1001007	42	29FEB2013		DIARRHOEA
	210083C@CA	Dr Smith	1003001	97			DIARRHOEA
	210083C@CA	Dr Smith	1003004	62	08NOV2012	12NOV2012	DIARRHOEA
	210083C@CA	Dr Smith	1003007	56	15DEC2012	29DEC2012	ENTERITIS
	210083C@CA	Dr Jones	1003009	27	09JAN2013	10JAN2013	ABDOMINAL PAIN
	210083C@CA	Dr Jones	1003011	49			ERUCTION
	171837C@CA	Dr Jones	1004005	92	04MAY2013	12MAY2013	DIARRHOEA
De-Identified Data	Translate	Missing	Translate	Age Categorization	Date Offset	Date Offset	None
	INV	Investigator name	SUBJID	Age_cat	AESTDAT	AEENDAT	AEDECOD
	nnnnnnX@17		nnnnnn1	59			DIARRHOEA
	nnnnnnX@17		nnnnnn2	42	24NOV2345		DIARRHOEA
	nnnnnnX@11		nnnnnn3	90 or older			DIARRHOEA
	nnnnnnX@11		nnnnnn4	62	06JUL2432	10JUL2432	DIARRHOEA
	nnnnnnX@11		nnnnnn5	56	12AUG2208	26AUG2208	ENTERITIS
	nnnnnnX@11		nnnnnn6	27	06SEP2543	07SEP2543	ABDOMINAL PAIN
	nnnnnnX@11		nnnnnn7	49			ERUCTION
	nnnnnnX@XB		nnnnnn8	90 or older	03DEC2382	11DEC2382	DIARRHOEA

Conclusion

- Process and details of its components
- Continuous improvement
- Regulation
- Emerging landscape

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Thank you