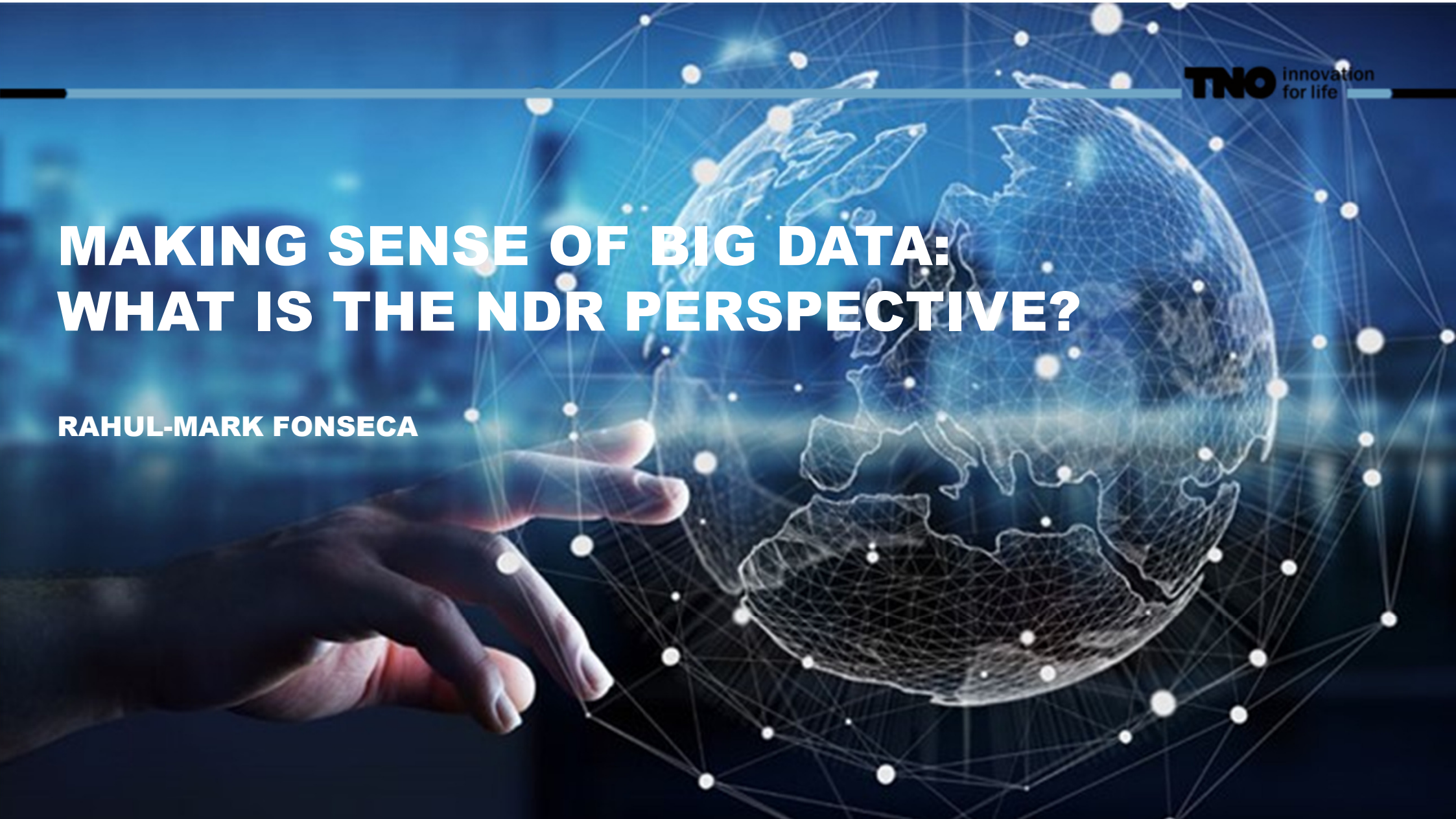


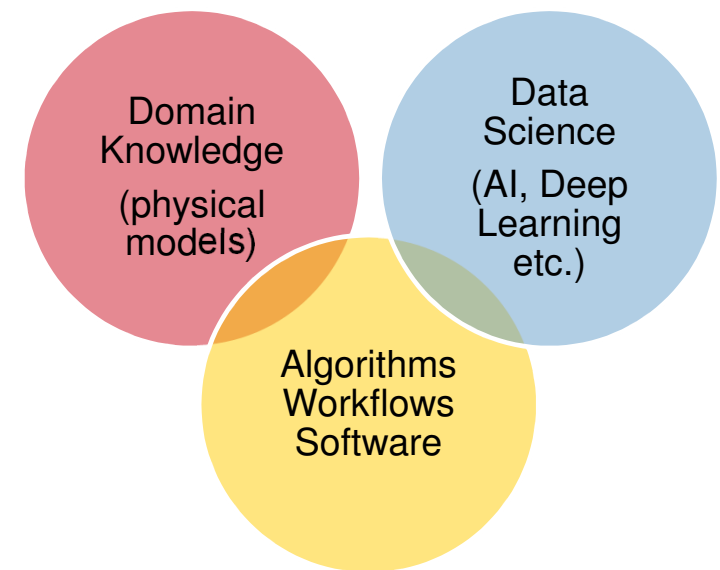
# MAKING SENSE OF BIG DATA: WHAT IS THE NDR PERSPECTIVE?

**RAHUL-MARK FONSECA**



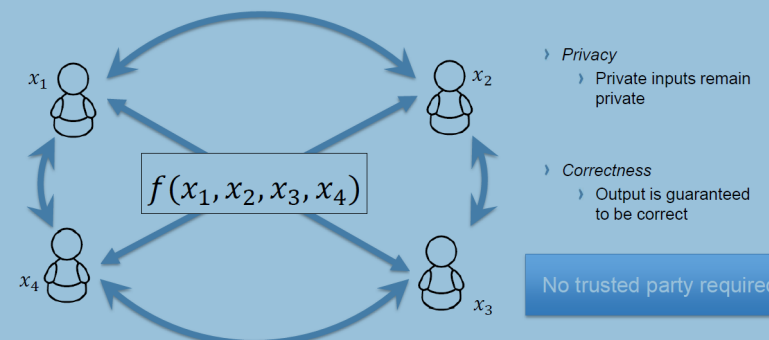
# INTRODUCTION TO AI/ML TECHNIQUES

**ARE DECISIONS BEING TAKEN WITH AI?  
WHAT IS NEEDED TO ENABLE DECISIONS  
CHALLENGES WITH DATA?**



## I DON'T WANT/CAN SHARE MY DATA: FRAUD DETECTION WITH MULTIPLE BANKS USING ENCRYPTION

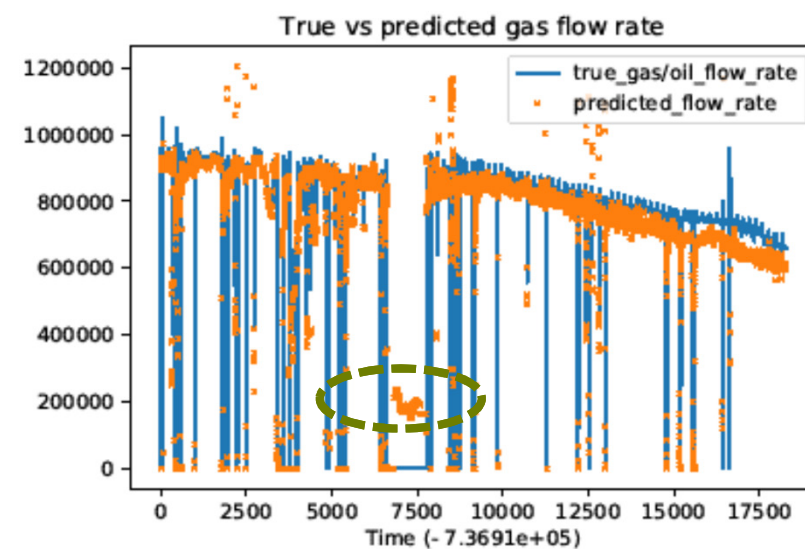
### SECURE MULTI-PARTY COMPUTATION



## WHAT IS DATA AND WHAT IS NOISE?



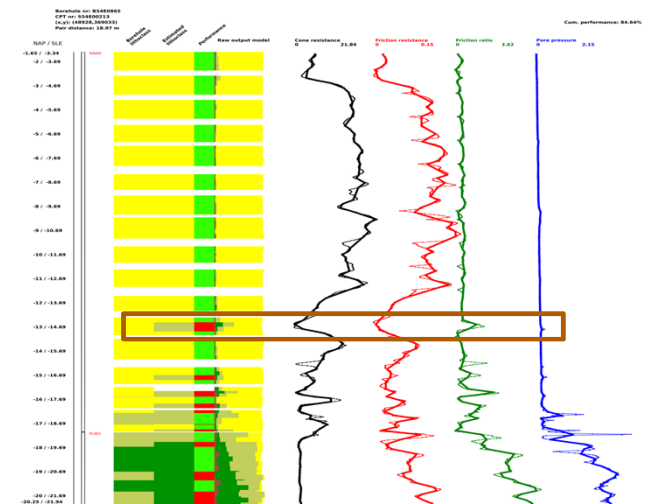
Opening up the AI black box



**DATA IS MISSING OR INCOMPLETE:  
HOW TO FILL IN THE BLANKS ?**

		Oil rates Time	Water rates Time	Inj. rates Time	Pressures Time
Producers	P1				
	P2				
	...				
	P13			0	
Injectors	I1				
	I2	0	0		
	...				
	I7				

**AND SOMETIMES IT JUST WORKS FINE!**



# DISCUSSION: NO AI WITHOUT DATA

Trust

## (1) COMPLETENESS / SANITY CHECK: WHO IS RESPONSIBLE

- CHECK AT THE GATE (COMPLIANCE / BUSINESS RULES)
- WHO IS CHECKING WHAT AND HOW?

## (2) WHERE DOES THE RESPONSIBILITY OF AN NDR STOP?

- STORE/PROVIDE INTERPRETATIONS?
- ADDING VALUE TO NON STRUCTURED DATA?

