

# EMPOWERING SCIENTISTS THROUGH DATA & AI

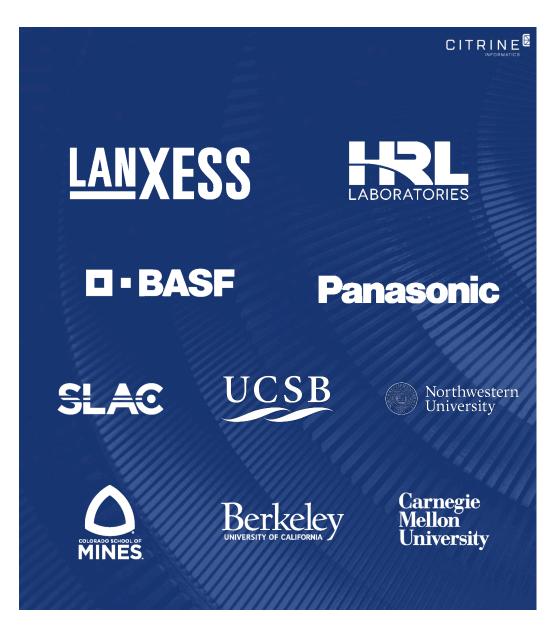
FLORENCIA
PAREDES
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# CITIRINE INFORMATICS, LEADER IN MATERIALS INFORMATICS

# WE BUILT THE WORLD'S FIRST MATERIALS AND CHEMICALS FOCUSED AI PLATFORM





### THE ROLE FOR ML IN MATERIALS SCIENCE?

SHOULD WE ABANDON KNOWN THEORY AND DOMAIN KNOWLEDGE, AND TRY TO OUTSOURCE SCIENTIFIC THINKING TO AI?

**ABSOLUTELY NOT!** 

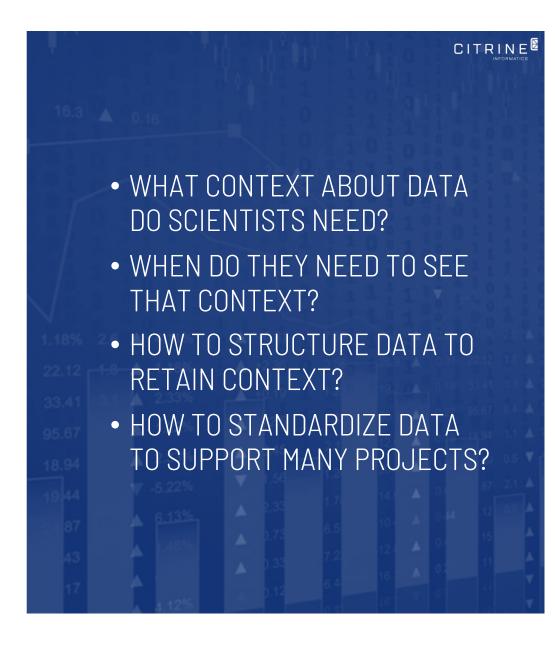
#### ALIS POWERFUL COPILOT, BUT WE STILL NEED EXPERTS

## DOMAIN KNOWLEDGE IS KEY TO LEVERAGE DATA AND ML FOR ACCELERATING MATERIALS DEVELOPMENT

- 1. MATERIALS DATA IS MESSY
- 2. MATERIALS DATA IS **SCARCE**
- 3. TEAMS LACK COLLABORATION

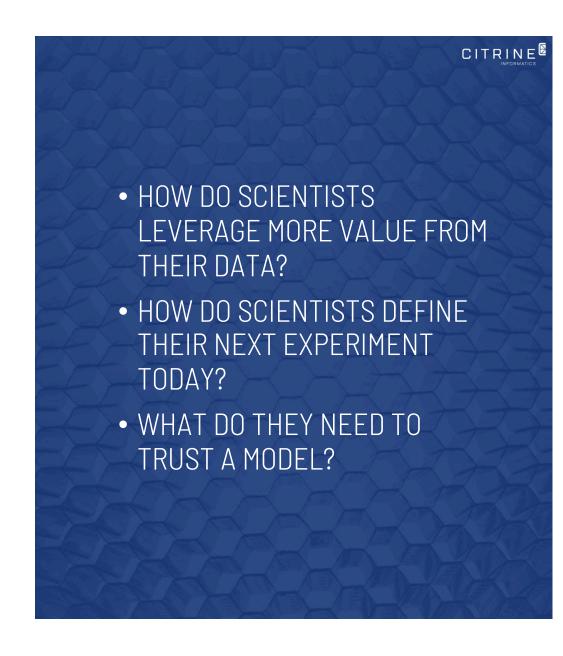
#### MATERIALS DATA IS MESSY

- DEPENDENT ON CONTEXT
- 2. DISCONNECTED
- 3. MANY FORMATS



#### MATERIALS DATA IS SCARCE

- SMALL DATASETS
- 2. SPARSE DATA
- 3. REQUIRES EXTRAPOLATION



### TEAMS LACK COLLABORATION

- TOOLS FOR USERS
- 2. SCALE FOR MANY
- 3. CULTURE CHANGE







## EMPOWERING TEAMS TO SOLVE PROBLEMS WITH DATA AND AI



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