



3DEXPERIENCE®

BIOVIA LABORATORY

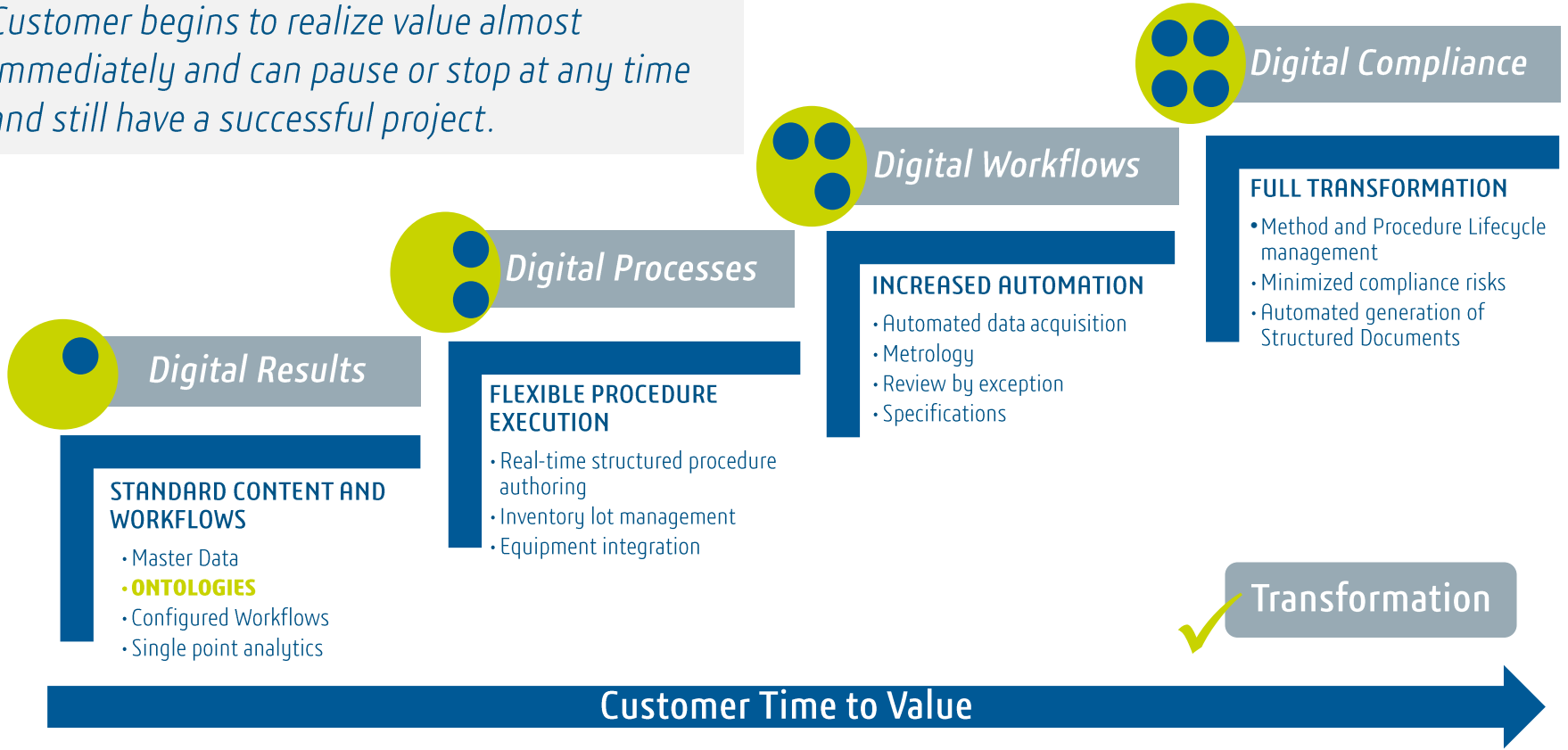
April 2023

 DASSAULT SYSTEMES | The 3DEXPERIENCE® Company



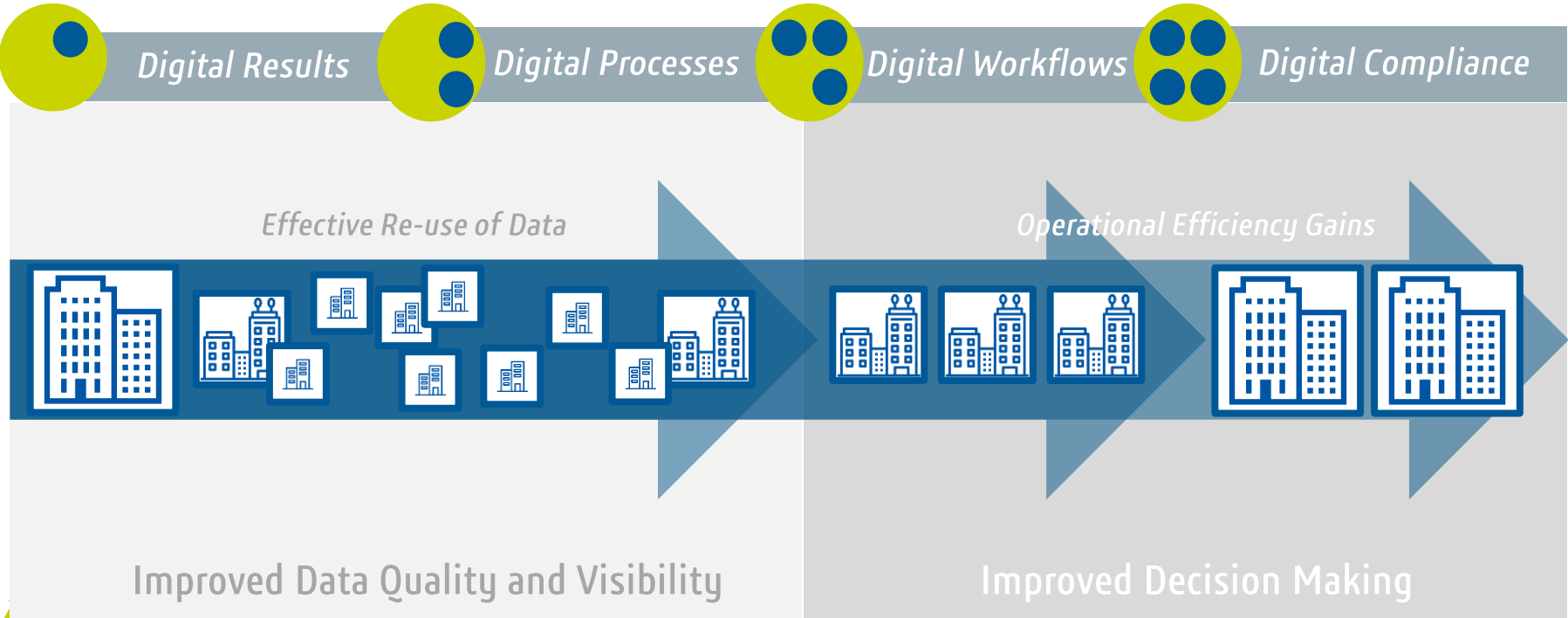
A NEW WAY TO IMPLEMENT

Customer begins to realize value almost immediately and can pause or stop at any time and still have a successful project.



MAJORITY OF VALUE BY MARKET

Where most customers would likely realize the larger value for investment with digitization



THE NEED FOR COMMON REFERENCE DATA



Instrument 1

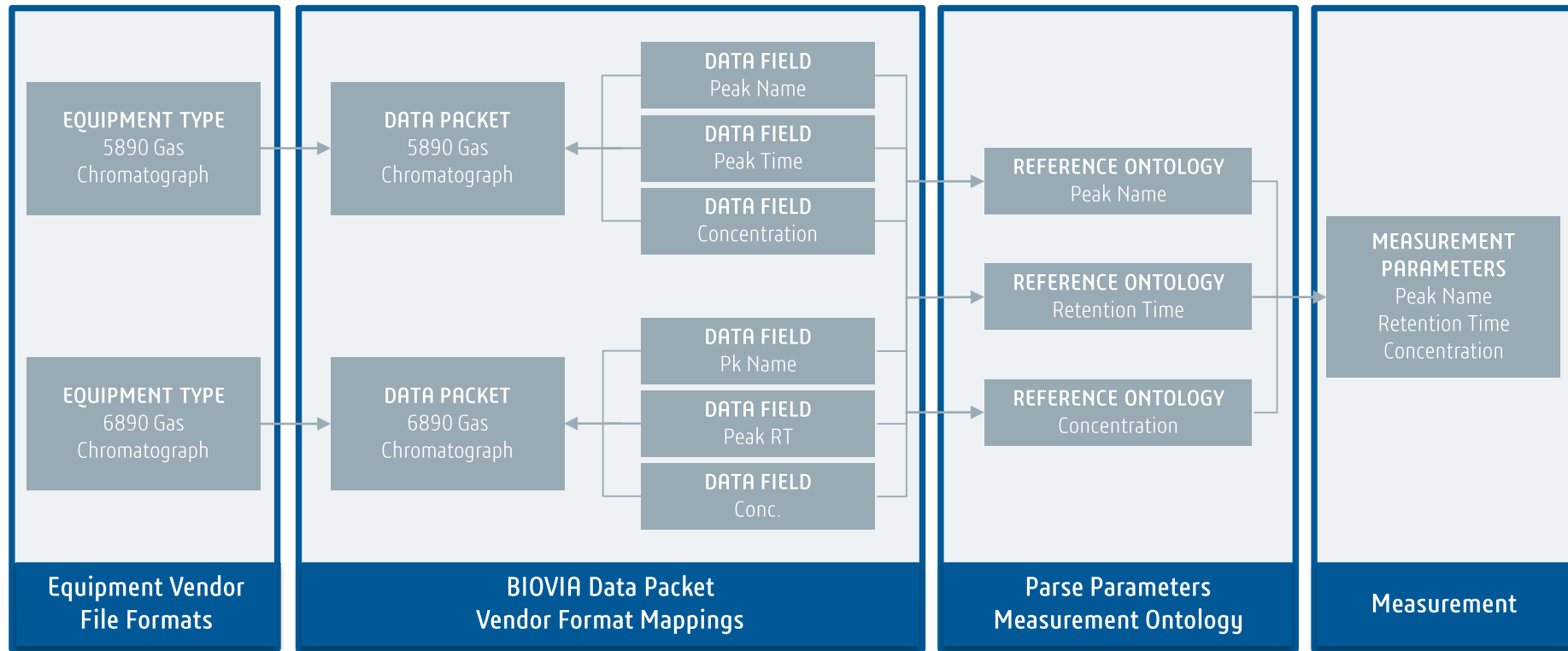
Instrument 1
Sample ID
Dilution
Sample date
Viability
Total cells
Viable cells
Avg. diam.

Instrument 2
Date & Time
Sample ID
Total Density
Viable Density
Viability
Avg. Live Diameter
Total Live Count
Total Cell Count
Live Std Deviation
Cell Inspection Type
Batch ID
Cell Type
Flow Time
Dilution Ratio
Tray Location
Mixing Routine
Sample Time
Operator



Instrument 2

ORIGINAL EQUIPMENT REFERENCE DATA MODEL



RE-THINKING EQUIPMENT ONTOLOGY



Provide an ontological approach to instrument data based on instrument class

- Improve consistency and re-use of reading definitions
- More closely align with industry initiatives such as Allotrope Foundation Ontologies (AFO)
- Align internal ontologies



Simplify the construction and maintenance of reference and master data

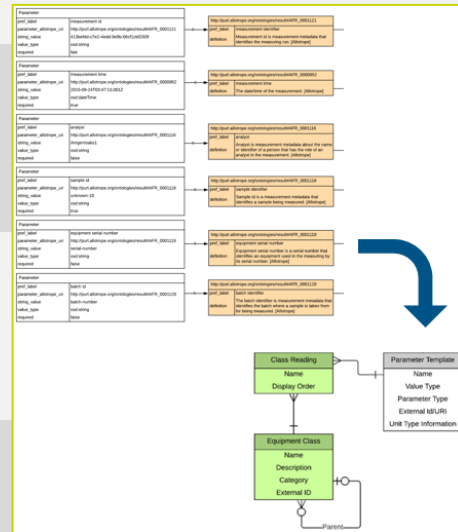
- Improve the quality and robustness of implementations



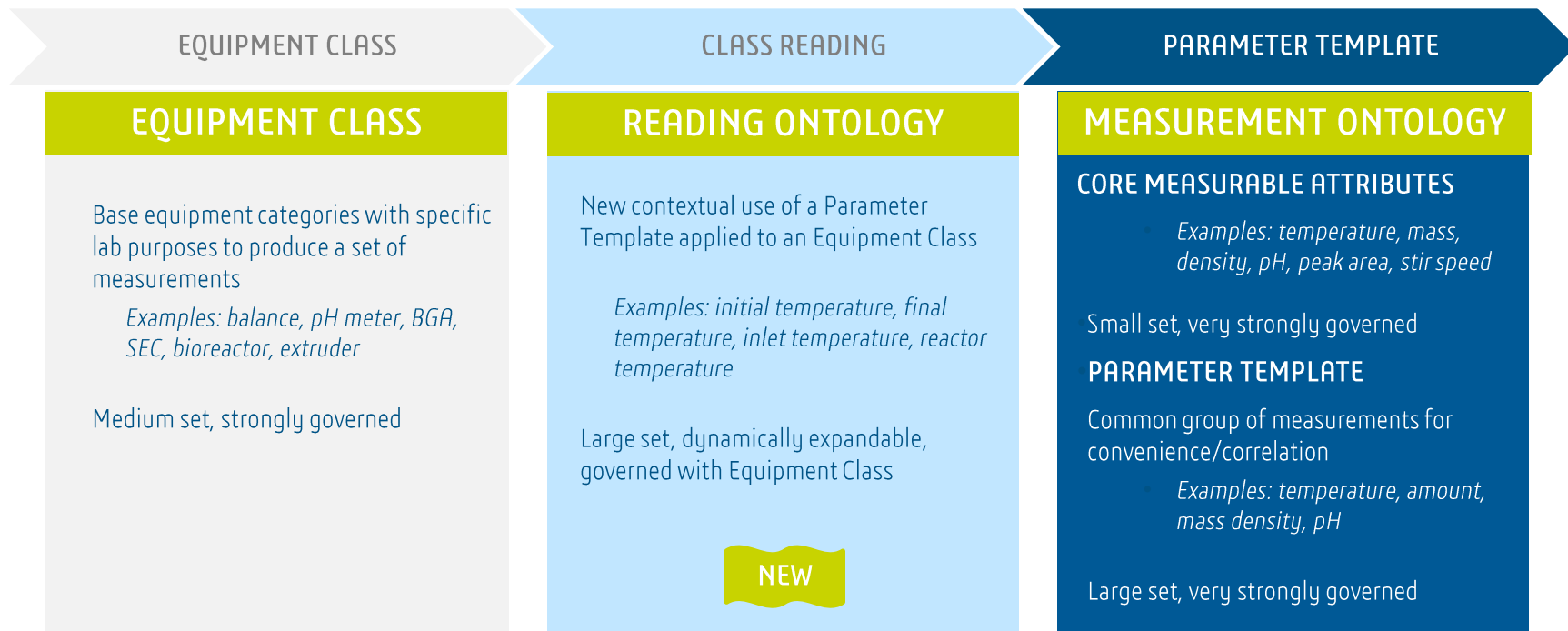
Stronger relationship between equipment measurements and process parameters



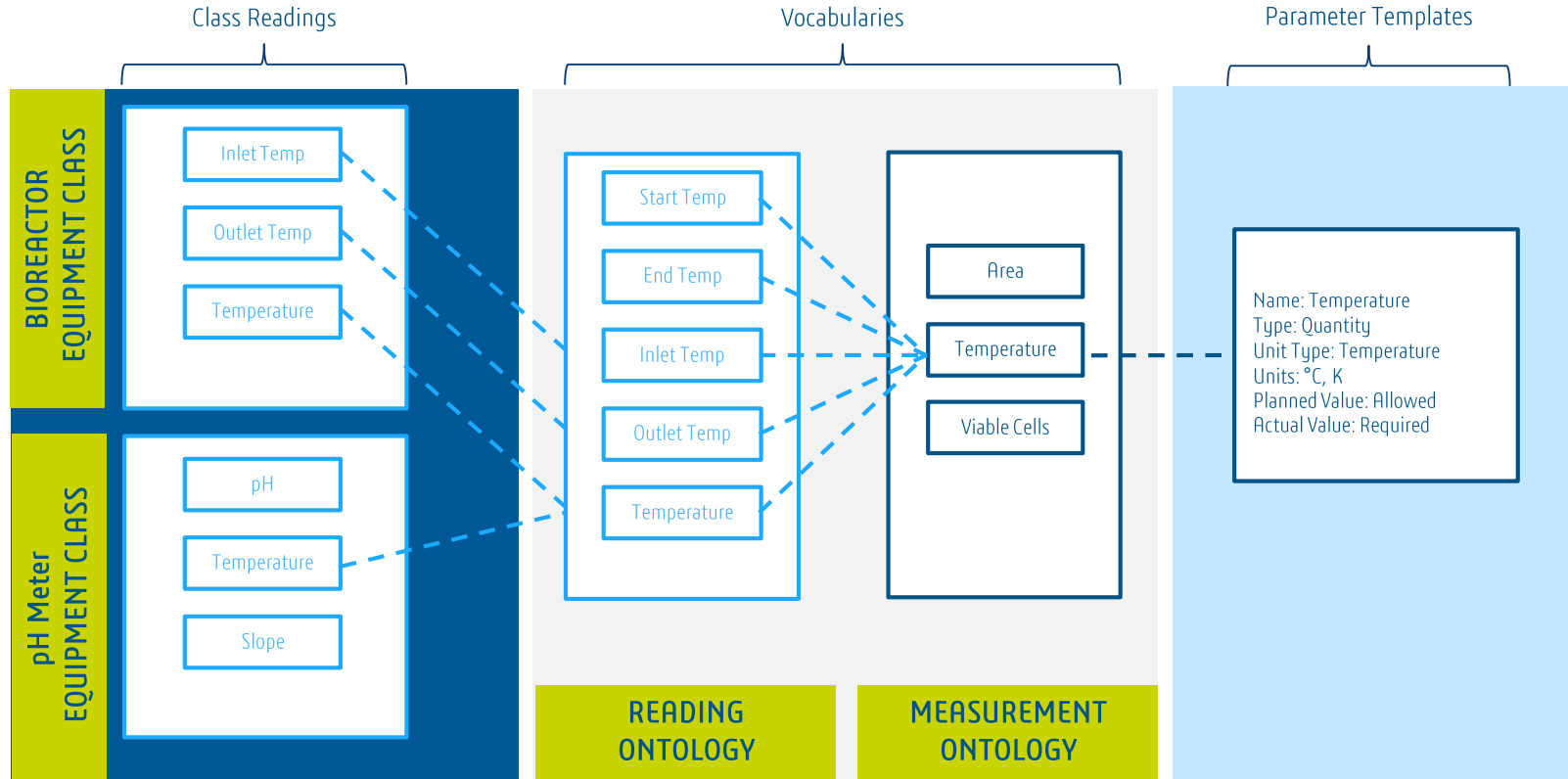
Enable delivery of packaged equipment reference data



THE NEW WAY FORWARD: CLASS READING MODEL



CLASS READING EXAMPLE: TEMPERATURE



CLASS READING MODEL SUMMARY

CLASS READING MODEL DIFFERENCES

- Better alignment with industry standard ontology approaches based on equipment class
- Directly tied to parameter templates to improve data association with procedure execution
- Creates measurements via “Processors” instead of “Parsers”

PATH FORWARD

- “Side by side” use with current equipment model
 - Existing configuration continues to operate as it does today
- Add class readings to existing configuration
 - Harmonize reference data across equipment types
- Current instruments can be switched to the new model when ready
 - Can be switched back if necessary providing a robust adoption path

WHAT SUCCESS LOOKS LIKE

