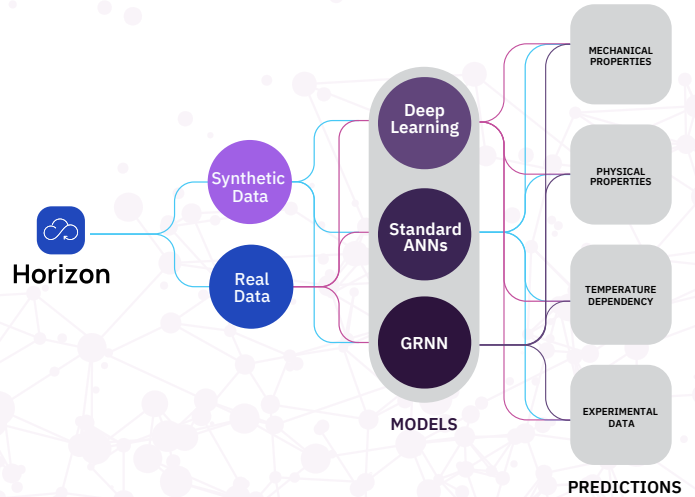


# Applied machine learning for material property predictions

## MISSING DATA - FILLING THE GAPS

- ✓ Fill gaps in available data to drive more accurate calculations
- ✓ Selection opportunities by predicting properties for new materials
- ✓ Save money by reducing material testing costs



# Predictor

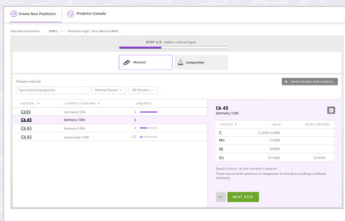
## CHALLENGES

Quickly fill gaps in approved material properties and explore suitability for different applications

Validate with enhanced confidence, new cheaper, stronger, lighter materials, more optimum conditions

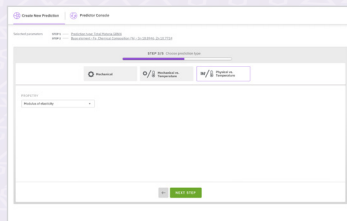
Help to hit ever decreasing material testing budget restrictions

### STEP 1



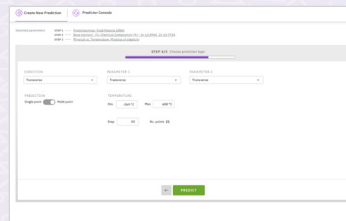
Search for a material designation to predict missing properties

### STEP 2



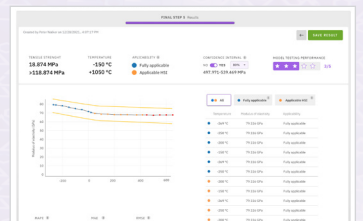
Select ML model that you want to use to predict the properties

### STEP 3



Select parameters such as temperature ranges, heat treatment and form - PREDICT!

### STEP 4



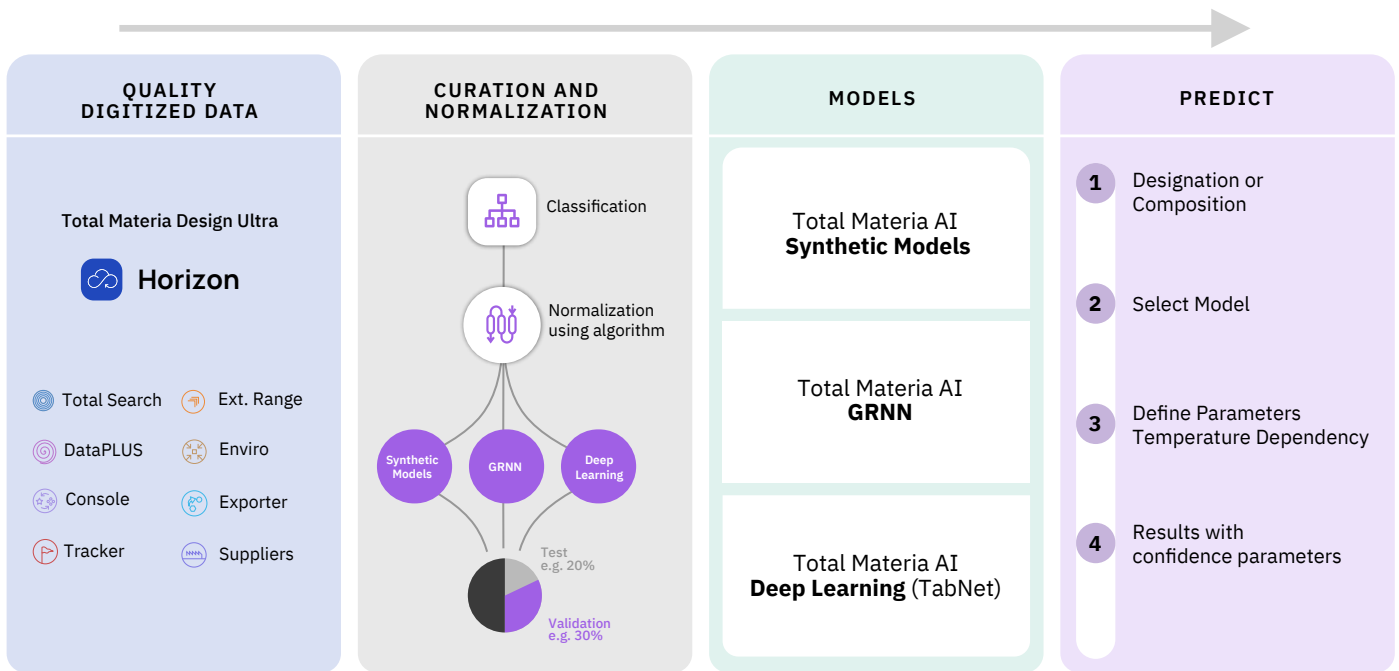
Assess statistical health of the prediction such as MAPE, MAE and R values



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# How Predictor works?

From Horizon to Predict



## TOTAL MATERIA AG SOLUTIONS OVERVIEW



### Horizon

Largest available curated materials properties reference database on the planet, helping make accurate reliable materials decisions across your business

**+20M**  
PROPERTY RECORDS

**+500K**  
MATERIALS

**+80**  
COUNTRIES/  
STANDARDS



### Integrator

Organize and protect your materials IP by creating a private company database that delivers the right approved materials data to all parts of the business



- System Integration
- Approved materials
- User management
- Compliance



### Predictor

Machine Learning for material property predictions has arrived. Trained using the largest curated properties data set, ensuring the highest accuracy of predictions

- Unparalleled universality: for 100K's of materials
- Integration: Saving, managing and sharing predictions
- Quality and reliability: trained with the largest dataset on the planet



### Green Line

From material compliance to sustainability, build responsible materials selections into the product design process to make early, safer, more productive decisions

- Data driven compliance and sustainability decisions made early
- Find and replace from the largest materials database available
- International compliance supports growth rather than inhibit it



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