

Introduction to Intellegens at IDMBAT

About

Machine learning software to aid experimental design

Merge and aggregate all sources of data: experimental, computational, and analytical

Predictive models reduce costs and accelerate discovery process

Traditional experimental design

Process is expert driven, subjective, and iterative through trial and improvement

Process takes ~20 years and specialist alloys cost >\$10m to develop, drugs cost >\$1bn

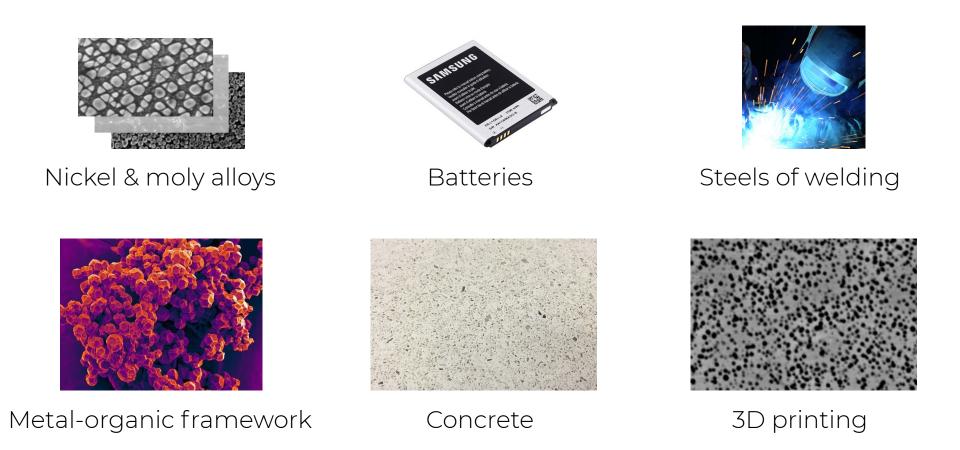
Alchemite™ optimized design process

Alchemite[™] predicts from available inputs: property-property correlations and computer simulations

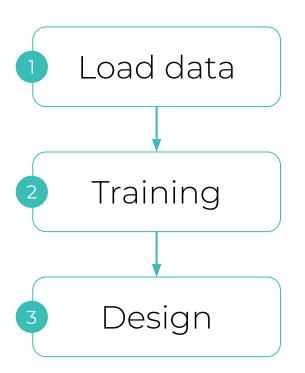
Reduce costs - 90% reduction in experiments and fewer measurements for expensive quantities

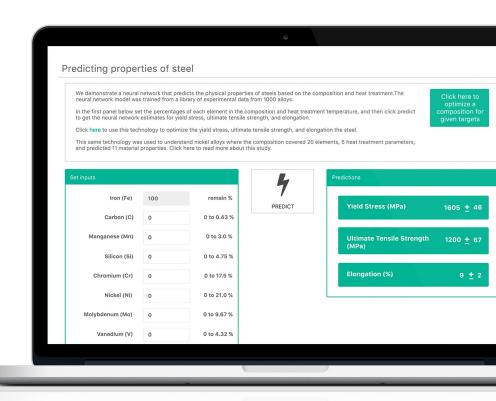
Accelerate discovery and validation to 2 years

Materials designed



Future opportunities: Integrated software





Machine learning for materials design

Merge sparse databases to deliver deep insights into new materials

Designed and experimentally verified alloys, chemicals, and drugs

Contact ben@intellegens.ai

Website https://intellegens.ai

Demo https://app.intellegens.ai/steel_optimise

Papers https://www.intellegens.ai/paper.html