

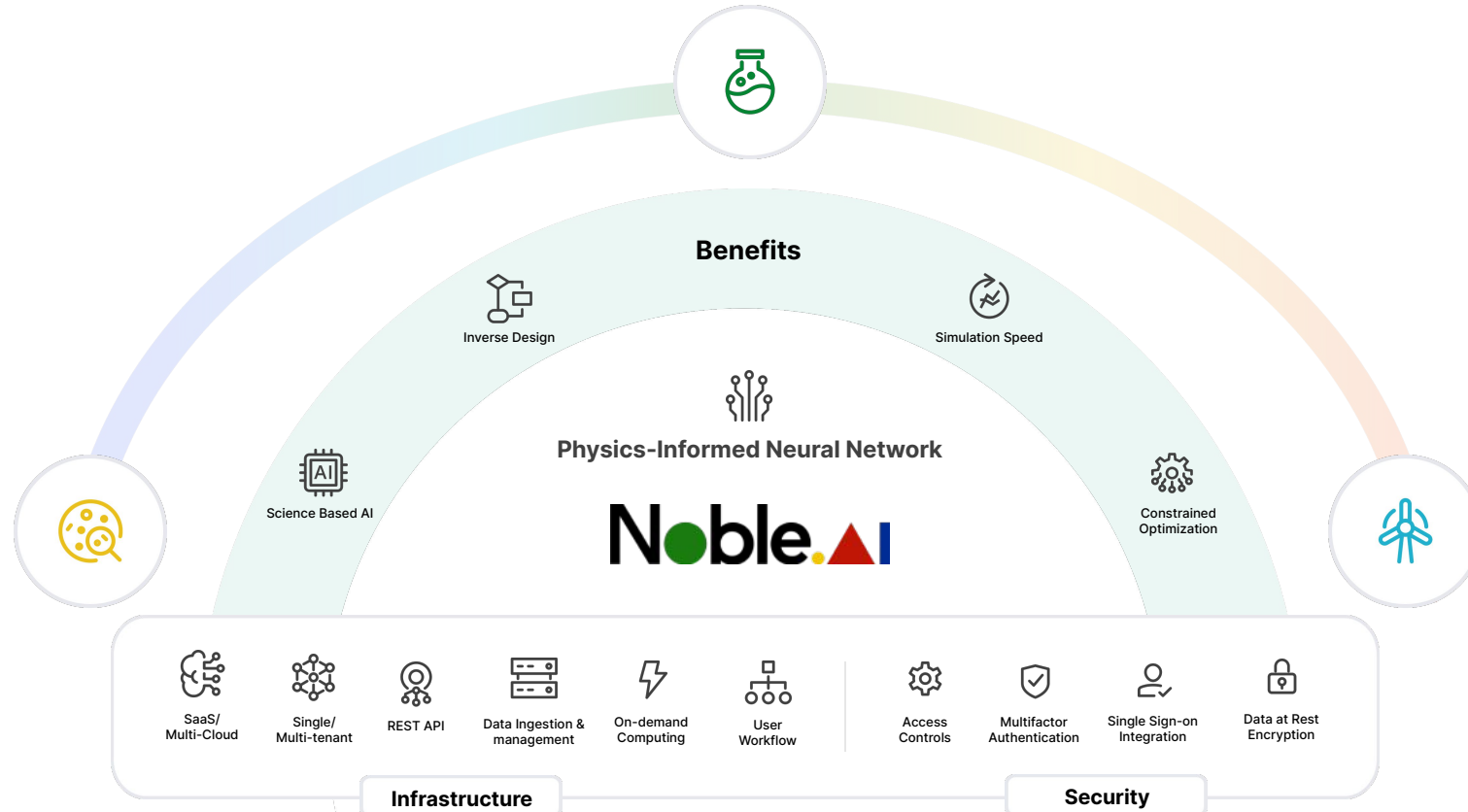


O&G Downstream Operations and Production

- Water-gas coning
- Near wellbore restrictions
- Partial penetration
- Scales and precipitates
- Paraffin or asphaltenes
- Decrease in relative permeability
- Emulsions
- Formation collapse
- Corrosion
- Liquid loading

Exploration

- Reservoir Analysis
- Lithography
- Stratigraphy etc.



Sustainability

- Hydrogen production catalysts (Electrochemical, Thermochemical) - working on this with another oil major
- Battery performance modeling and optimization (based on materials and operating conditions)- actively working with battery maker
- Carbon capture materials
- Wind turbine fluid and mechanical modeling
- Hydrogen Mining