Partnering for Success

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Partnering for Success

- We have partnered very successfully for many years with companies who bring advanced capabilities that it is more effective for us to leverage rather than to try to replicate it all in-house
- Many of these partnerships are possibly well known to the members of the Advisory Group however we want everyone to be aware of our capabilities through our partners in case there is a need in your organization

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Partnering for Success

- Sulzer - Column internal calcs
- Koch Glitsch - Column internal calcs, RATEFRAC and BATCHFRAC
- GTT Technologies - interface of ChemApp with PRO/II for high-temperature inorganic process
- Cost Engineering – Cleopatra cost estimating (for PRO/II) and project controls software (for UPE)
- Schlumberger – AMSIM amines physical properties package in PRO/II
- ExxonMobil – Reactor models for ROMeo
- HTRI – Rigorous heat exchanger model in PRO/II and coming to SimCentral soon (AVEVA Process Simulation)
- MySep - rigorous gas liquid separation modelling considering entrainment in DYNSIM
- West Virginia University – Support for AVEVA academic program and model libraries for SimCentral
- Esteco - ModeFrontier interface covered earlier by Andrea Macri

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Strategic Partnerships: OLI Systems

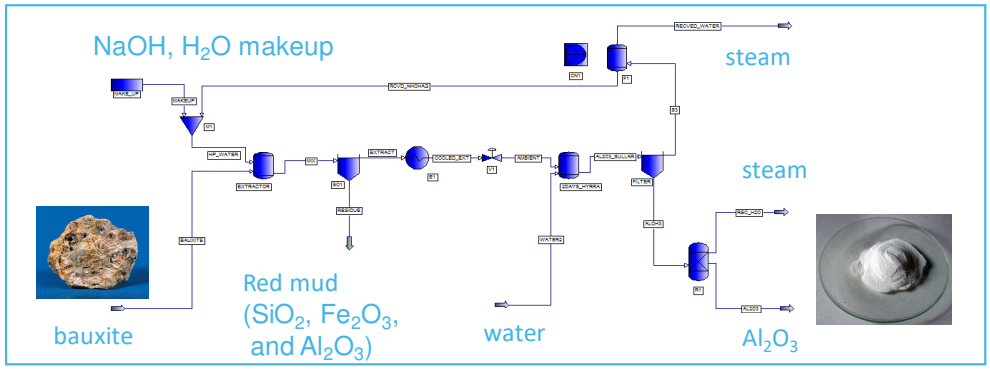
Partner: OLI Systems, Inc.

- Global leader of electrolyte thermodynamics, and provides software such as OLI MSE Engine for simulating electrolyte systems

Benefits of OLI-AVEVA Partnership for Customers

- OLI Engine enables AVEVA™ PRO/II™ Simulation to conduct process simulation of electrolyte systems in organic/inorganic chemicals, Oil & Gas, metal-mining, water-treatments etc.

Example simulation: Production of Alumina from bauxite



Website of OLI Systems
https://www.olisystems.com/company

- **Core competencies**
  - Electrolyte thermodynamics
  - Aqueous corrosion prediction
  - Process simulation
  - Electrochemical corrosion simulation
- **Core values**
  - **Getting the chemistry right**
  - Furthering the science
  - Making complicated technology accessible
  - Delivering service through experts
- **Profile**
  - Privately held corporation
  - Corporate office in NJ USA
  - Established 1971
  - Provides software, training, consulting

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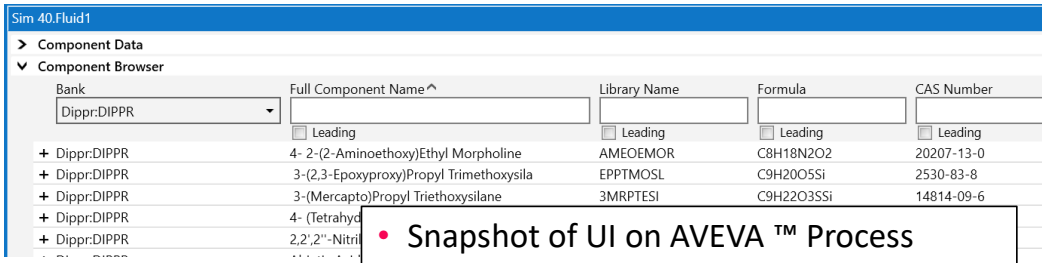
Strategic Partnerships: DIPPR

Partner: Design Institute for Physical Properties(DIPPR)

- One of best worldwide known sources for critically evaluated thermophysical property data for components.

Benefits of DIPPR-AVEVA Partnership for Customers

- Users can enjoy high accuracy of process simulation applying critically evaluated thermophysical property data of DIPPR
- Users can apply additional data of AVEVA such as alpha parameters for CEOS together with data supplied from DIPPR



- Snapshot of UI on AVEVA ™ Process Simulation to select DIPPR Bank

Website of DIPPR:
https://www.aiche.org/dippr/about

Profile

- The "Design Institute for Physical Properties" DIPPR is a Technical Society of the American Institute of Chemical Engineers AIChE(non-profit organization).
- DIPPR® Thermophysical Properties Laboratory is located at Brigham Young University, Provo, Utah, USA

Collaborative solutions for customers

- AVEVA redistribute DIPPR LITE databank with AVEVA ™ Process Simulation and AVEVA ™ PRO/II ™ Simulation
- Users of the AVEVA Products who are DIPPR Sponsor members are eligible to use DIPPR Sponsor Databank in the AVEVA Products

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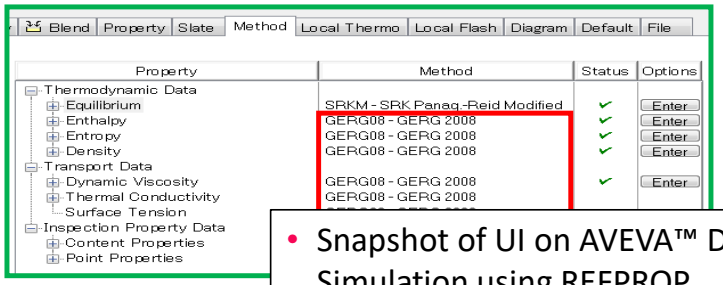
Strategic Partnerships: NIST

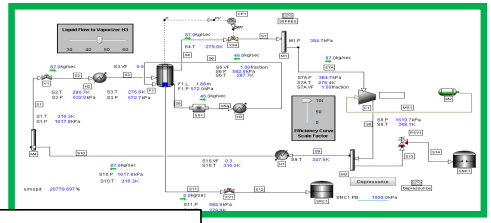
Partner: National Institute of Standard and Technologies (NIST)

- One of best worldwide known sources for critically evaluated thermodynamic properties for mixtures and components. Provides REFPROP which is highly accurate for natural gas and refrigerants

Benefits of NIST-AVEVA Partnership for Customers

- Users can enjoy high accuracy of process simulation applying REFPROP to natural gas and refrigerants





- Snapshot of UI on AVEVA™ Dynamic Simulation using REFPROP

Website of NIST:
https://www.nist.gov/

Profile

- Thermodynamics Research Center (TRC) supplies thermodynamic properties tables, thermophysical properties data, models, standards and research for industry, public health and safety, and the environment.
- Produces the Nation's Standard Reference Data (SRD) and data product such as REFPROP (Reference Fluid Thermodynamic and Transport Properties)

Collaborative solutions for customers

- AVEVA™ PRO/II™ Simulation and AVEVA™ Dynamic Simulation have interfaces with REFPROP
- AVEVA redistribute DLL of REFPROP with AVEVA™ PRO/II™ Simulation
- AVEVA is an industrial partner of TRC of which data has been effectively utilized for developments of AVEVA Products

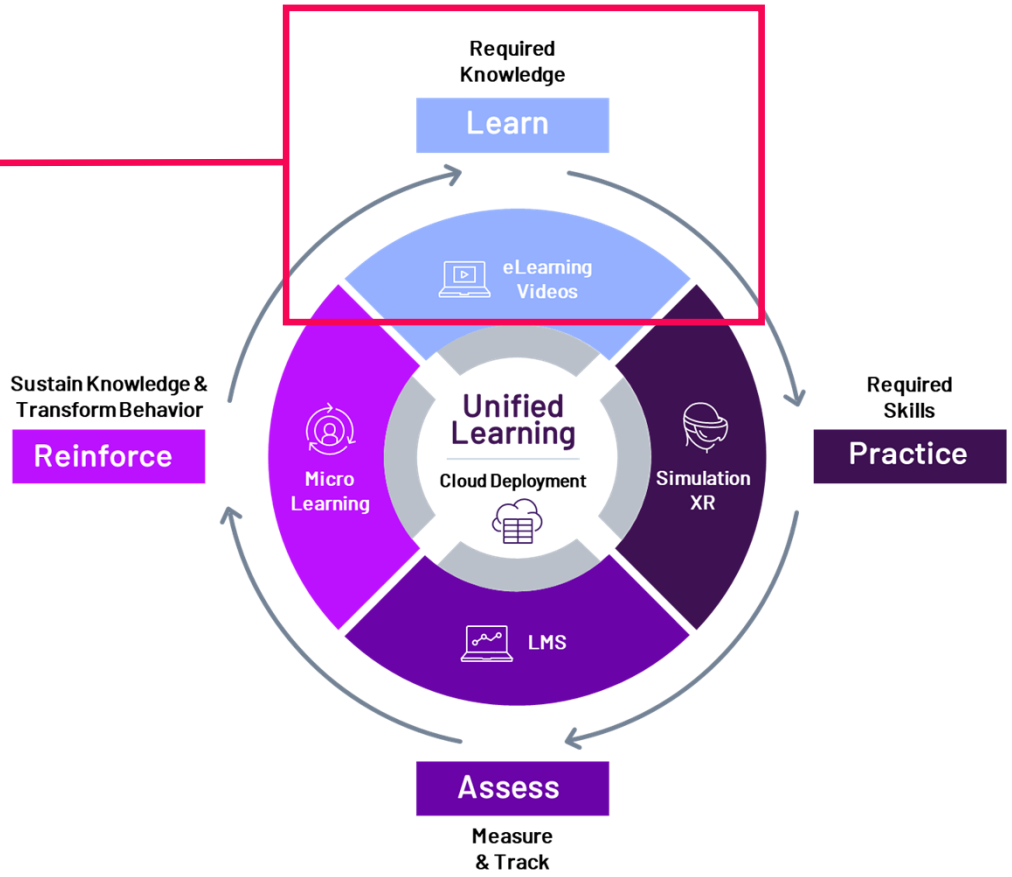
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AVEVA & Operations Excellence Group (OEG) partner to deliver library of learning content for process and equipment fundamentals

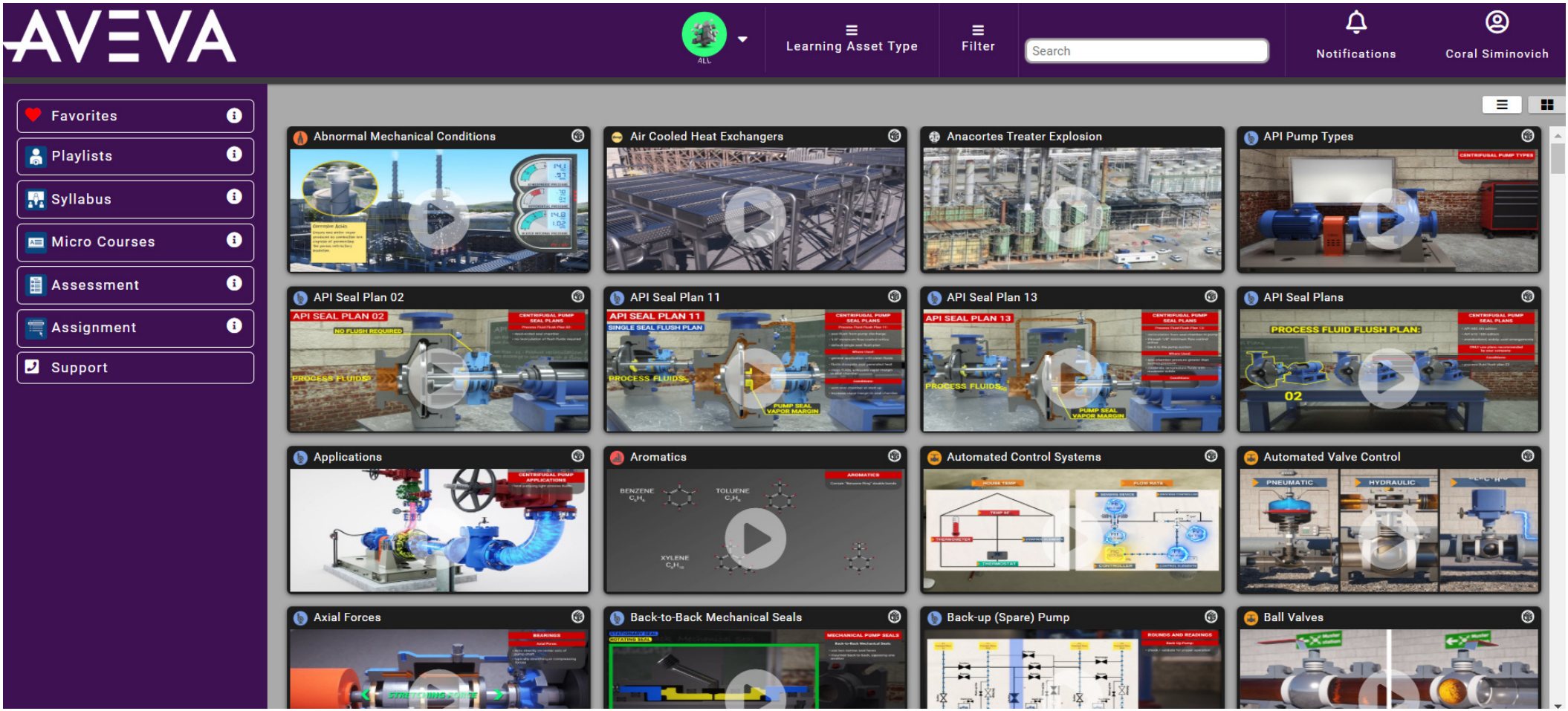
Available libraries:

- Basic Process Science
- Distillation
- Fired heater
- Centrifugal pump
- Valves
- Heat exchanger



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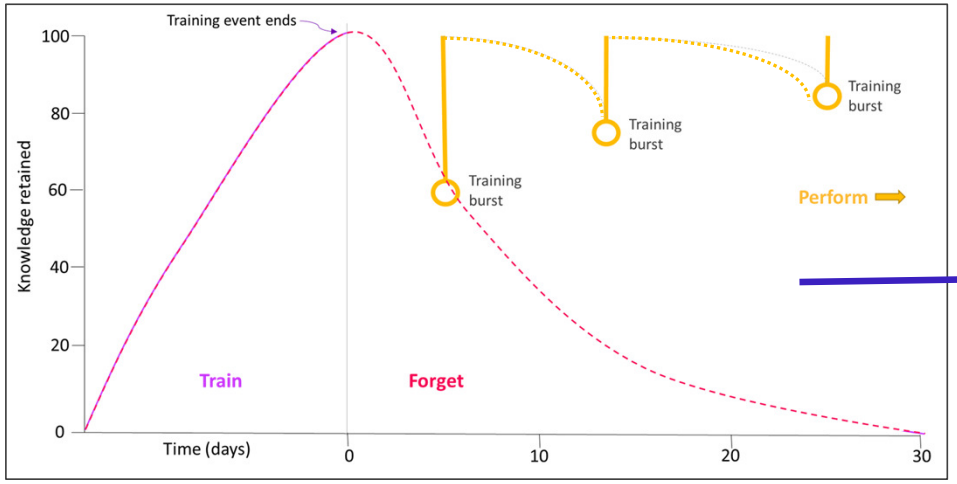
Operations Excellence Group (OEG) – www.oegllc.com Example Example2

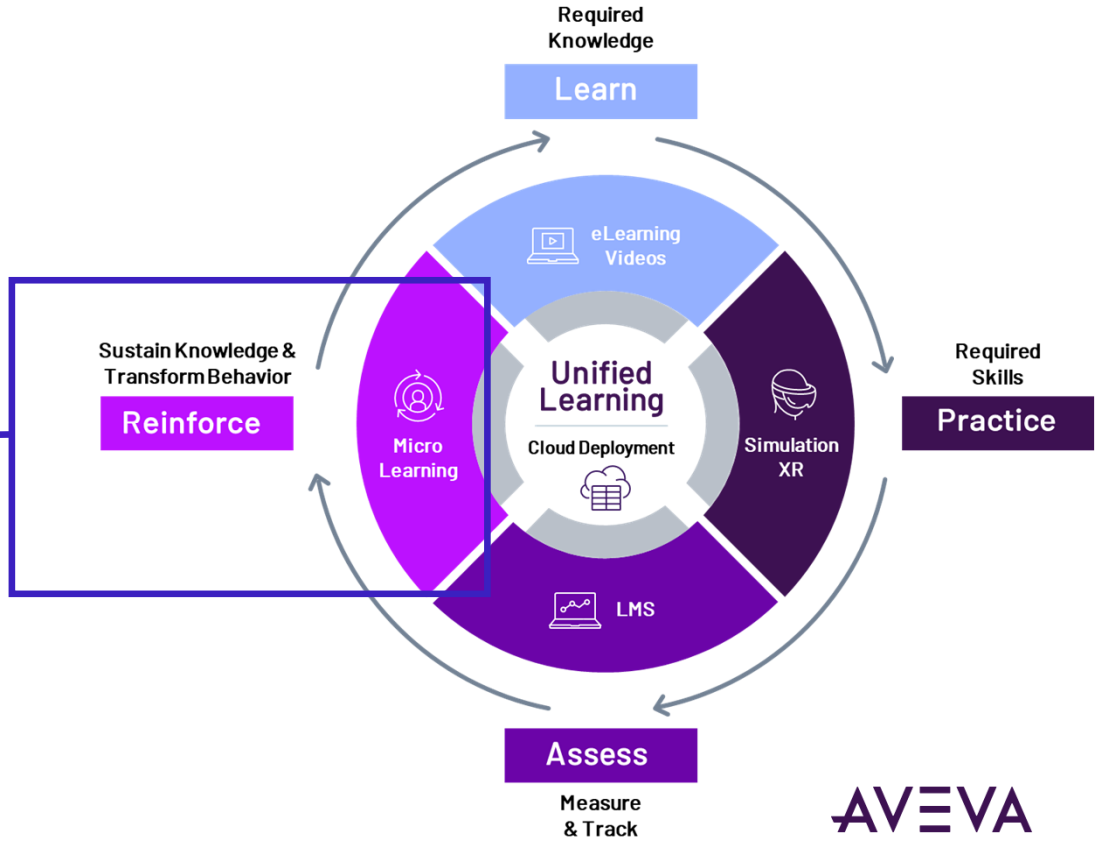


AVEVA

AVEVA and Axonify deliver first AI Microlearning Solution to Industry 4.0 Customers

Makes sure your frontline employees remember to do the things that matter most to your business





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Who is Axonify?



50 | Technology Fast 50 2018 CANADA WINNER Deloitte.

Brandon Hall GROUP EXCELLENCE IN TECHNOLOGY AWARDS GOLD 2019

2019 GROWTH 500 CANADA'S FASTEST-GROWING COMPANIES

AI BREAKTHROUGH AWARD 2019

learning technologies awards

TOP 20 TOP TRAINING COMPANIES TRAINING INDUSTRY

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Brandon Hall GROUP EXCELLENCE IN TECHNOLOGY AWARDS GOLD 2017

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47 languages

142 countries

80%+ voluntary participation rates

+38.9M million microlearning moments delivered each month.

1st to tie learning to behaviors & business results.