

# GLOBAL CAPE-OPEN (GCO) PROJECT RESULTS TO DATE: JUNE 2001

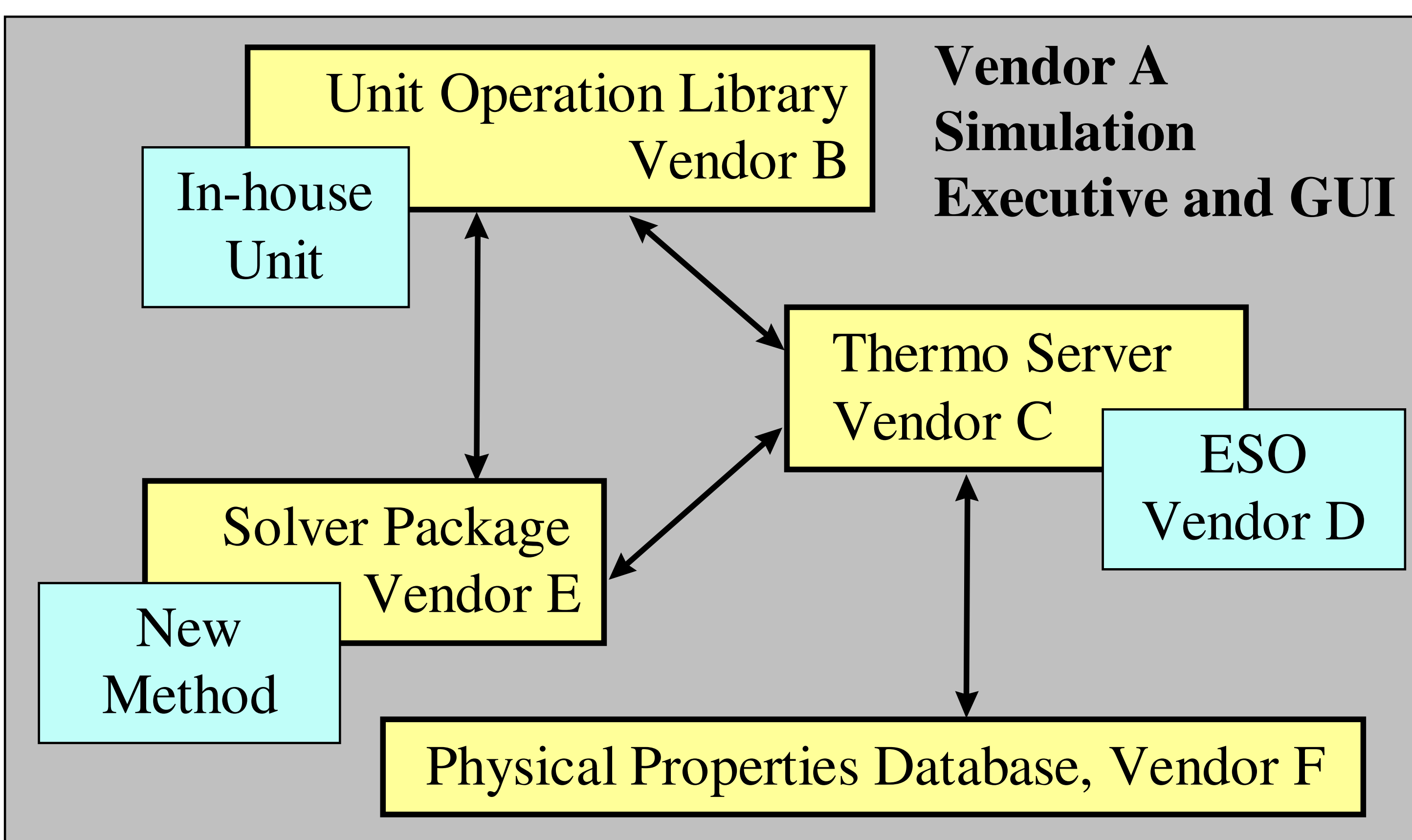
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## CAPE-OPEN (CO) Vision



### Benefits for end-users

- ▶ *Easy integration* of third parties' modules (Thermo, Unit, Solvers, Databanks, etc ...) in commonly used process simulation environments
- ▶ *Key software components* used in any environment without change
- ▶ *More flexible process modelling* by allowing simulation with software components from multiple sources to be assembled as needed
- ▶ *Better work process* and environment for team work and/or distance work by using web-based simulation environment
- ▶ *Higher return on investment* in academic R&D

### Benefits for vendors & academics

- ▶ *Increased usage of CAPE tools* in industry thanks to open systems and expanding markets through CO components availability
- ▶ *Strengthening* of CO simulation environment's dominant position
- ▶ *Reduction of development time* thanks to CO architecture choices
- ▶ *Easy integration* of niche solutions
  - ▶ Specific Unit Operations, Thermo Systems, Solvers, Graph Analysis Tools, Kinetic Packages, Optimisers, Physical Properties Databanks, etc...
- ▶ *WORM* (Write Once Read Many) approach

## GCO key accomplishments

- Global acceptance of CO standards
- International co-operation
- Commercial implementation
- Growing CO community
- Interface specifications publicly available
- CO Laboratories Network launched

## CO compliant software

- Thermo server sockets
  - AspenTech, Hyprotech, BelSim, PSE
- UNIT operation plugs
  - TOTALFINAELF, IFP
- Thermo server plugs
  - Infochem MultiFlash
  - Hyprotech Property Packages
  - ProSim Property Package

## New interface standards

- Complex mixtures
- Kinetic packages
- MILP and MINLP tools
- Process Flow Diagrams
- Economic analysis
- Physical Property Database

## Integration

- Interoperability tests
- Improved interface specifications
- Component Directory

## Open Support Tools

- Model structuring
- Batch simulation tools

**For more information,  
visit <http://www.global-cape-open.org>**