How CAPE-OPEN technology may help in the development and maintenance of models?

CAPE-OPEN Laboratories Network
Linking Fluent to process simulators

- Increased usage by US DOE
- New Vision 21 project incorporates CO technology

CO compliant process simulator from US EPA

- Released as open source

Demonstration of increased interoperability in thermodynamics and unit operations

IPOPT NLP optimizer made CO compliant by CMU

Commitment by Honeywell on UniSim CO features
Data and results consistency between the different tools...

Concentrate on what is really the core a modeling activity...

Properties and equilibrium calculations

Client requirement

Simulis® Thermodynamics

Simulis Package

CAPE-OPEN Property Package

Aspen Properties, PPDS, ...

Use rigorous thermodynamics in MATLAB through SIMULIS

2nd Annual US CAPE-OPEN Meeting – May 25-26, 2005 – Morgantown (USA)
gPROMS CAPE-OPEN Unit Operation

Making advanced models deployable

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User Meeting 2005
IPOPT NLP Solver from CMU

- State of the art algorithm
- Made CO Compliant as a COM component

Tested for CO compliance
In the CO Tester