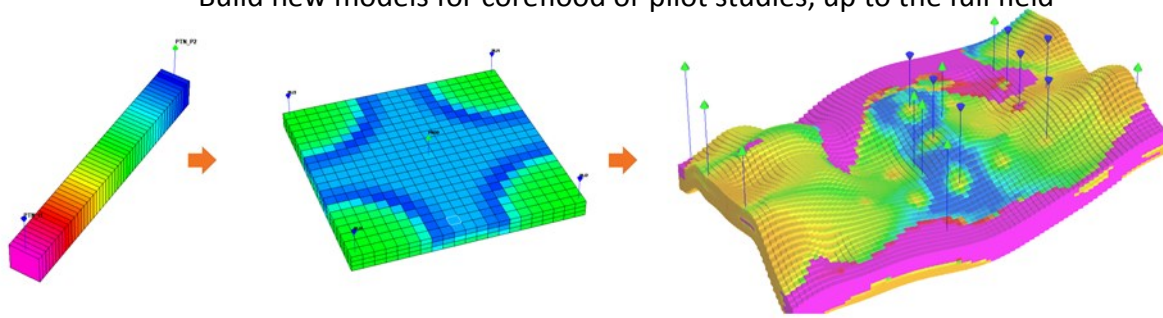


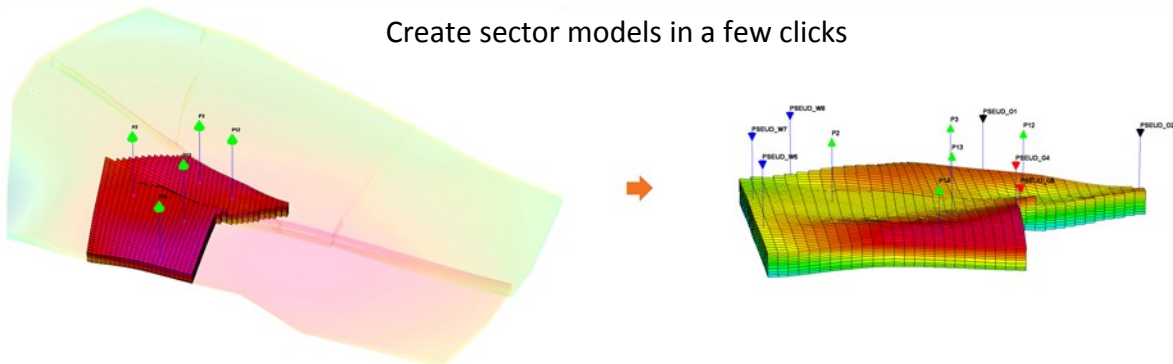
# S3quickbuild

*Building For The Future*

Build new models for coreflood or pilot studies, up to the full field



Create sector models in a few clicks



- Fast Chemical EOR model building
- Build new models from scratch with a simple user interface
- Easy creation of sector models with accurate flux boundaries
- Add CEOR processes (polymer, surfactant, ASP, tracers, geochemistry)
- Well pattern designer
- Advanced injection slug and production schedule designer
- Engineering decisions can be saved as templates for future use
- Export as full Meteor or UTCHEM CEOR models

**S3quickbuild** is an easy-to-use tool for the rapid creation of chemical EOR simulation models for Meteor/UTCHEM. Models can be built from scratch using **S3quickbuild**'s simple wizard interface or generated as sector models (or full conversions) from full-field models in ECLIPSE. The resulting simulation models can be exported to Meteor/UTCHEM or ECLIPSE. CEOR applications include coreflood modelling, simulation of CEOR pilot studies and full-field CEOR simulation. Sector models can be used for quick studies of problem areas of a field (in ECLIPSE) or to assess the impact of CEOR processes in pilot areas of the real field (in Meteor/UTCHEM), or even for full-field CEOR conversion.

**S3quickbuild**'s builder has a sophisticated but intuitive interface that allows reservoir simulation models to be generated via a simple wizard: grid geometry and properties and well patterns are defined, and reservoir/fluid properties specified. Wells can be added and edited, individually or in patterns. All data defining the generated models can be saved to templates for later reuse. **S3quickbuild** is supplied with a set of basic simulation model and data templates that cover many CEOR modelling workflows (1D corefloods, spot patterns, etc.). It also includes full model templates enabling one-click simulation model creation.

Sector model generation in **S3quickbuild** is equally straightforward: sectors may be selected by several different methods, including polygon selection. Accurate flux boundary conditions, calculated from the output of the full-field simulation, and be applied using highly configurable pseudo wells placed at the edge of the sector region. The sector may also be refined.

### BENEFITS

- Quick and easy CEOR simulation model building
- Fast and highly configurable sector model generation
- Automatic calculation of boundary fluxes
- Easy definition of chemical properties for Meteor/UTCHEM CEOR modelling
- Interactive injection/production schedule creation
- Simple injection slug design, including CEOR chemical concentrations
- Massively increases productivity

### KEY FEATURES

#### QUICK MODEL BUILDING

- Coreflood and spot patterns supported
- Reservoir property definition
- Fluid properties, PVT and initial reservoir conditions
- Wells can be added and edited

#### SECTOR MODEL GENERATION

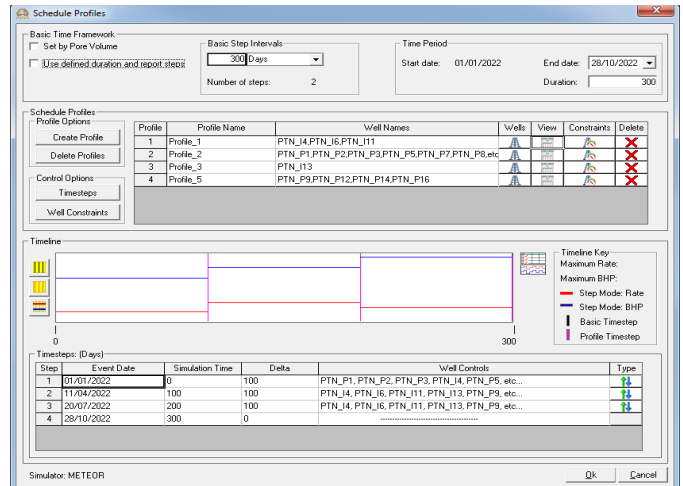
- Accurate flux boundary conditions from full-field simulation output
- Pseudo-well implementation of flux boundaries is highly user configurable
- Sector refinement

#### CHEMICAL EOR MODELLING

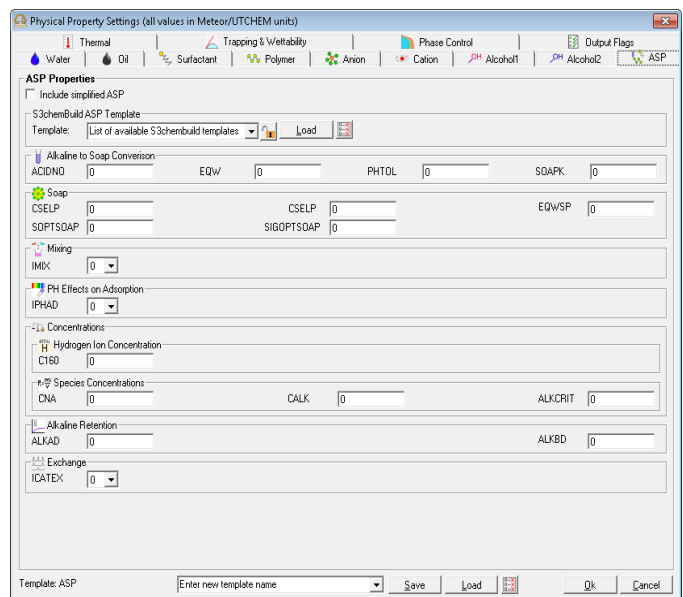
- Meteor/UTCHEM CEOR components and properties can be specified
- Polymer, surfactant/polymer and ASP schemes
- Reactive and non-reactive water tracers for Single Well Tracer Tests
- Chemical properties and complete CEOR schemes can be saved to templates

### SCHEDULE CREATION AND SLUG DESIGN

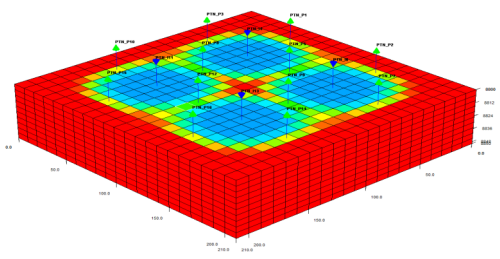
- Simulation schedules defined by time or injected pore volume
- Slug profile designer allows complex injection/production profiles to be created, saved and reused
- Schedule profiles can be created for groups of wells in a single step
- Fast schedule creation from existing slug designs and schedule templates



**Injection/production schedule designer**



**ASP designer**



**CEOR model with tiled 5-spot pattern**



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