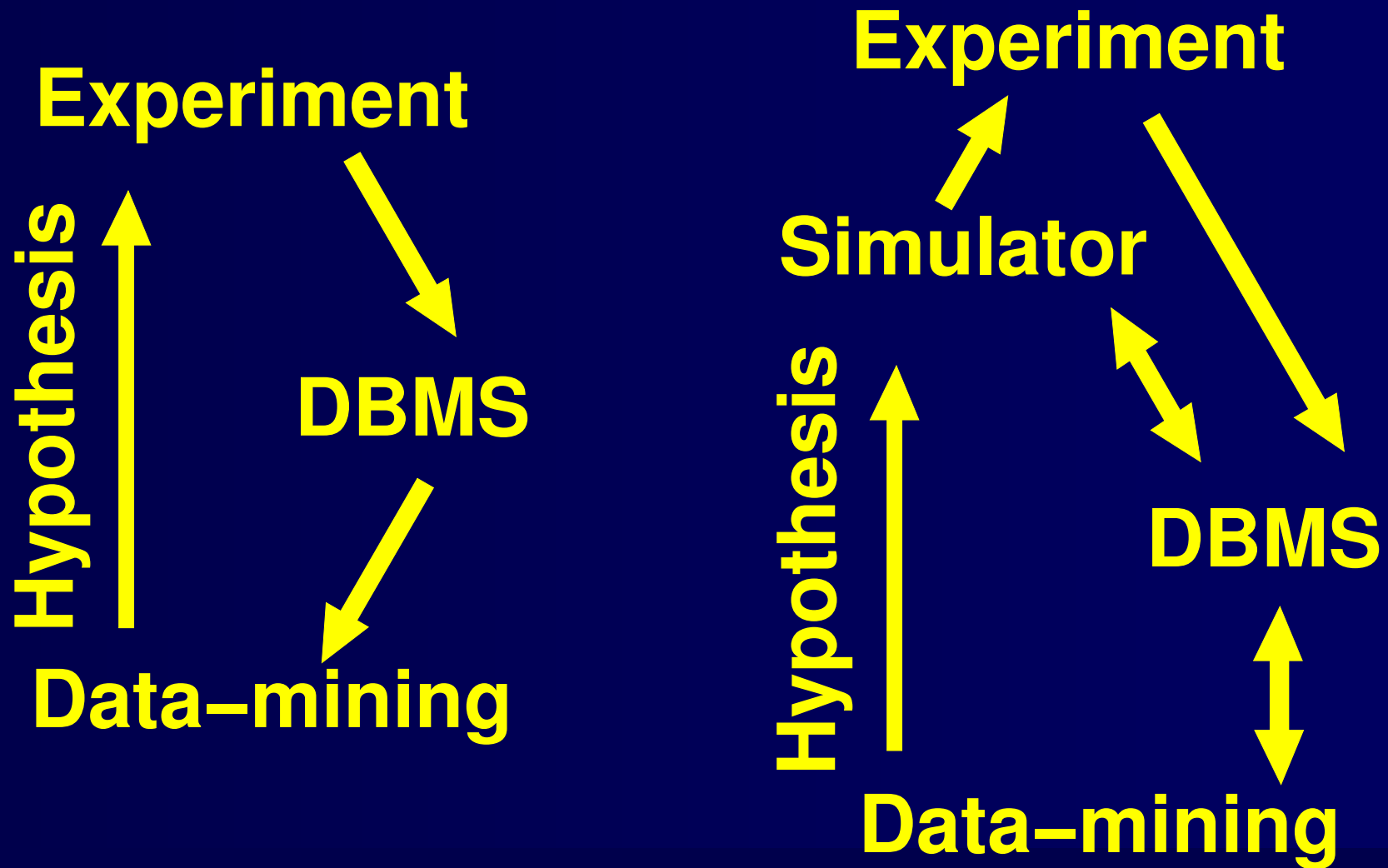


NQS: a DB within a simulator



Motivations

- Complex computer models are experimental
- Realistic modeling is the ultimate excavator
- Neural models are hard to build – the modeler's friend
- Neural model behavior is complex – compare models to reality
- Real-time model evaluation

Application areas

- Cell model parameter manipulation:

```
NQS ("NAME", "DIST", "DIAM", "SEG#", "gna_bar", "gkdr_bar", ...)
```

- Network design:

```
NQS ("POST_TYPE", "PRE_TYPE", "POST#", "PRE#", "WT0", "WT1", "DIST")
```

- Retrospective model analysis (ModelDB)

```
NQS ("NAME", "PARENT", "NCHILD", "NSEG", "ORDER", "CODE")
```

- Experimental data (cf Matlab DBTool)

- Simulation analysis