



# Project S3

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**Total redesign of parallel simulators and of the modeling environment.  
Feedback loop: modelers  $\Leftrightarrow$  PDES experts  $\Leftrightarrow$  software professionals.**

**Give users what they need: "Porsche for the masses"**

- Much more speed (new designs, optimistic & conservative simulators).
- Modern modeling style: dynamic hierarchical entities, runtime construction of largest models, runtime aggregation/deaggregation.
- Usability
  1. hide details of parallelism, but allow to express concurrency
  2. tools, tools: load management, model debugging,...
  3. canonical scalable partitioning of typical large models  
(Internet, ATM, wireless,...). Model databases on the web.
- Popular computing platforms (UltraSparc, SGI, Linux,...)