Total redesign of parallel simulators and of the modeling environment. Feedback loop: modelers <=> PDES experts <=> 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,...)