Everybody Loves Rapid Application Development Environments (RADs)
Examples include Matlab, Mathematica, Maple etc.

But

- Large datasets and/or computations often are required for algorithm design and optimization
- RAD computations generally are too slow
- Data may be naturally distributed and not easily moved to a central location
- Building increasingly complex RAD applications may be difficult
Our Distributed RAD Strategy:

- Use RAD-compatible “global shared WORKSPACE” to develop and run distributed/parallel RAD applications

SCAI’s NetWorkSpaces™:

- Looks and feels like a conventional WORKSPACE in the base RAD
  - Net(Workspaces): Shared, globally accessible over a network
  - (NetWork)Spaces: Coordination provided by “Linda-like” semantics e.g., Lindaspaces (SCAI), Javaspaces (SUN), Tspaces (IBM), etc.
• Network RAD processes can share data and coordinate themselves

• Completely general distributed/parallel applications are enabled

• Distributed network RAD processes can be uncoupled in time and space
  ➢ “Anonymous communication” dramatically increases developer productivity in implementing and maintaining distributed applications

• Move RAD processing to the data instead of moving the data to the processing
  ➢ Saves time and network bandwidth by NOT moving data
  ➢ Gains access to new data

• Pervasive RADs: Enables pervasive participation in distributed RAD applications

For more details, see our poster and/or e-mail: networkspaces@lindaspaces.com