

EDC Architecture

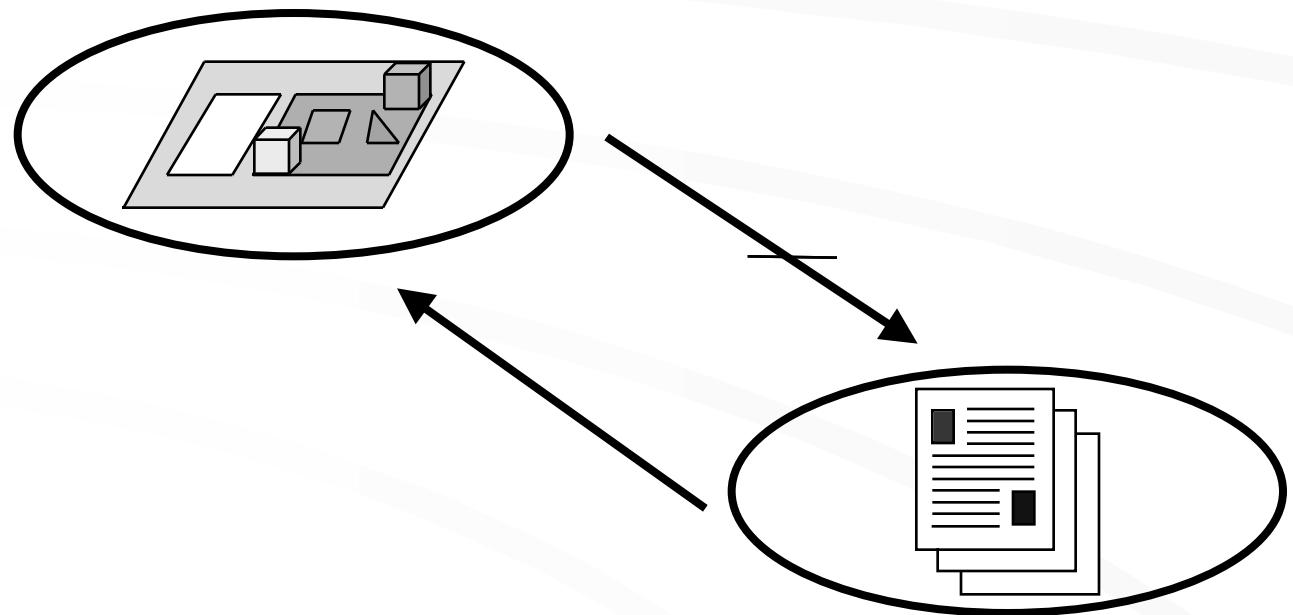
Eric Scharff

22-Feb-1999

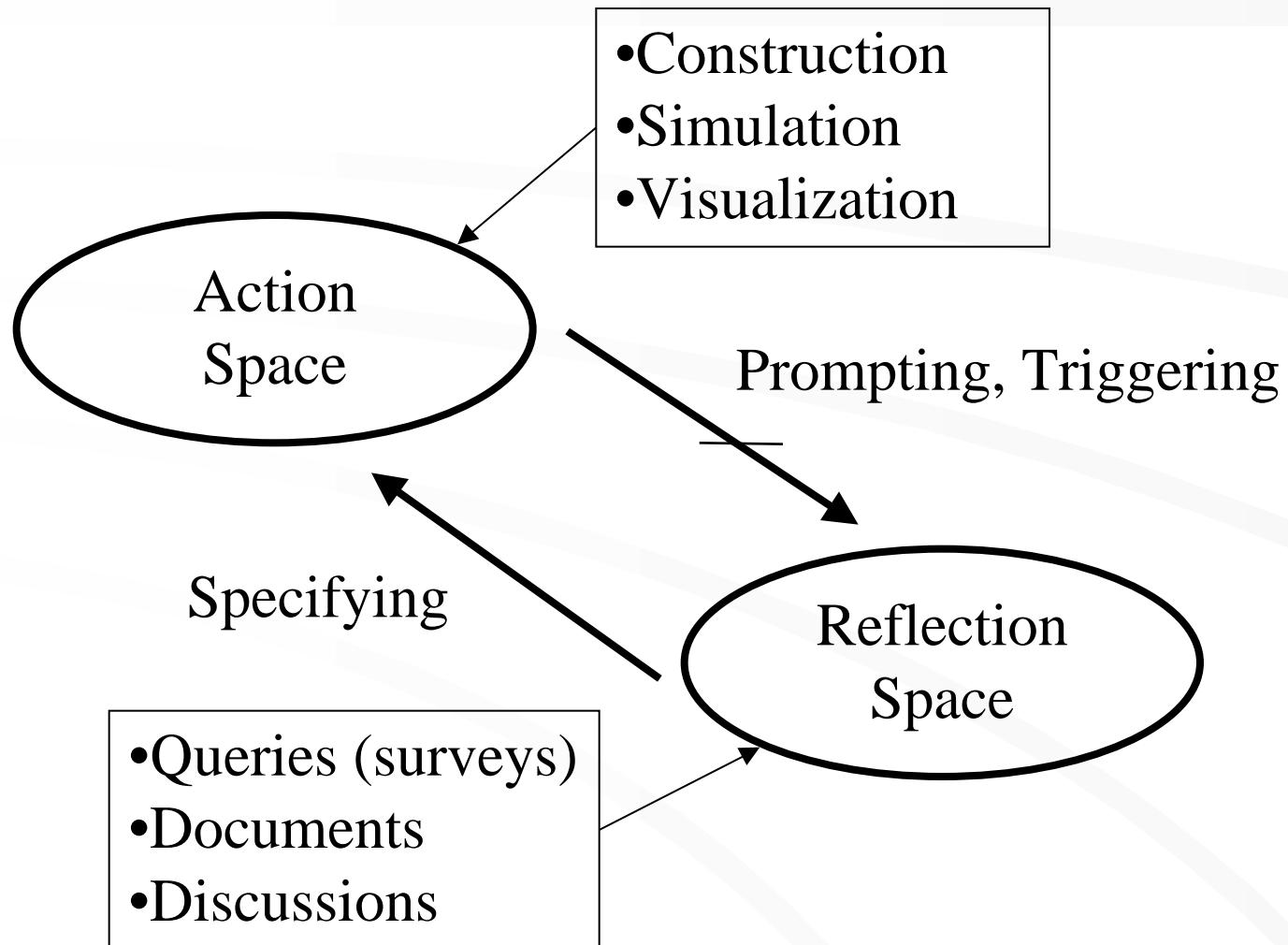
Overview

- Conceptual Framework
 - Action Space for construction activity
 - Reflection Space for contextualized information
- Architecture
 - Construction / simulation tools for Action Space
 - Dynamic Hypermedia for Reflection Space
- Implementation

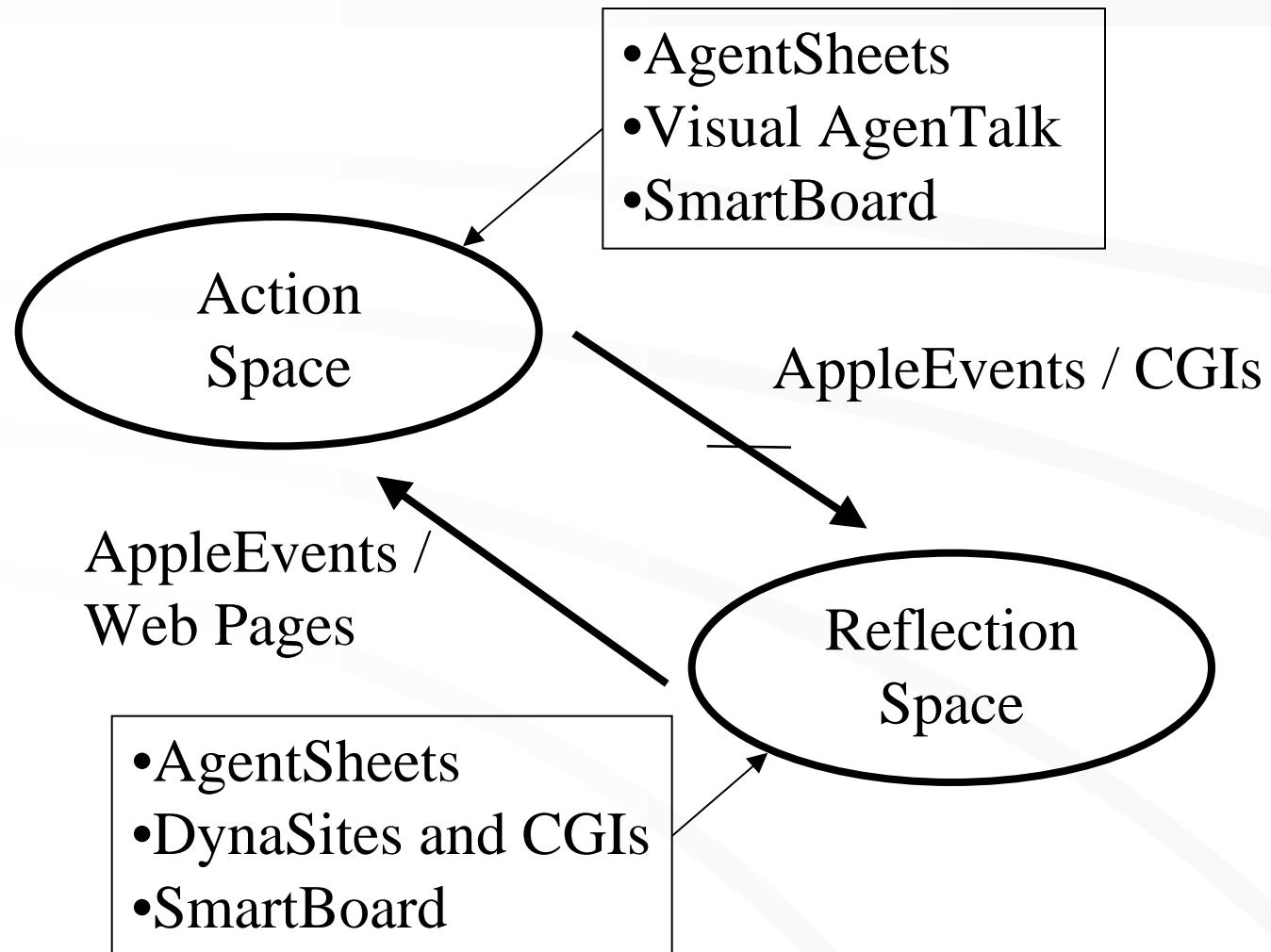
Conceptual Overview



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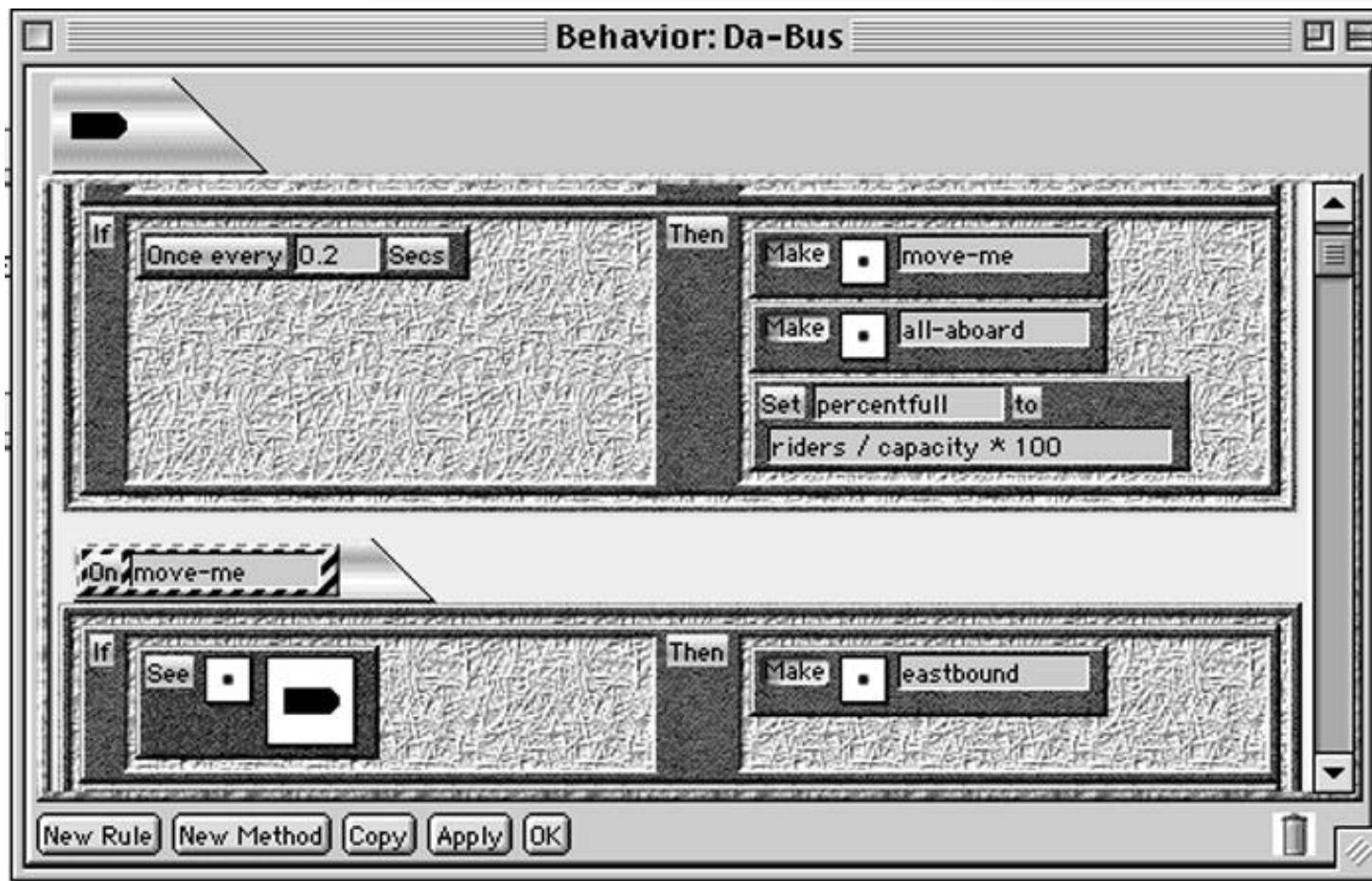
Implementation



AgentSheets / Visual AgenTalk

- <http://www.agentsheets.com>
- Distributed agent-based computation using a grid metaphor
- Open environment—can make changes at all levels.
- Can output simulations as Java Applets

Visual AgenTalk



Coupling Action → Reflection

- Simulation can open arbitrary Web page, including CGIs
- Context can be coded as part of CGI
- `http://mysite.org/foundProblem?row=3&col=2&problem=Traffic`
- Coding arbitrary information is possible

Coupling Reflection → Action

- Simulations can read arbitrary web pages
 - Survey results are stored in structured web pages
 - Agents read results out of web pages
- Reflection space can trigger arbitrary activity in Action Space through “Remote Controls”
 - Load correct background image and worksheet