



A simulation limited only by your imagination ...

- ❖ smaller, better, faster;
- ❖ powerful structure and language for describing a wide variety of real-world issues;
- ❖ variable fidelity in the representation of physical and cognitive phenomena.

*Simajin That!*

## Overview

### Operating Modes

- ❖ Completely Standalone Option (no people needed!)
- ❖ Networked Option (with various combinations of people, software and hardware) – DIS, HLA, custom protocols
- ❖ Real-Time or User-Specified Speed
- ❖ 2-D and 3-D Preview, Runtime and Replay Graphics Capability

### Operating Systems and Hardware

- ❖ Laptops, Desktops, Blade Servers, etc.
- ❖ Windows
- ❖ Mac OS X
- ❖ UNIX, Linux

## Applications

### Military Conflicts

- ❖ Asymmetric and Limited Intensity Conflicts
- ❖ Logistics, CBRNE,
- ❖ Nonlethal Weapons, Humanitarian Missions
- ❖ Coalition and Joint Operations
- ❖ Peace/War Transitions
- ❖ Urban Warfare and Terrorist Activities
- ❖ Multiple Sides, Spies, Traitors, etc.

### “Soft” Issues

- ❖ Religious
- ❖ Economic and Political Viewpoints
- ❖ Societal and Behavioral Effects

### Emergency Management

- ❖ “What If?” Planning
- ❖ Integration with Emergency Operation Centers
- ❖ Complete Infrastructure Analysis
- ❖ First Responders, First Receivers
- ❖ Medical Services
- ❖ Short, Long Term Disaster Response
- ❖ HAZMAT

### Future Technologies

- ❖ Airspace Utilization
- ❖ Near Space and Space Missions
- ❖ Bio-Technology

### Vulnerability and Risk Assessment

- ❖ Pathway Analysis
- ❖ Insiders (Active and Passive)
- ❖ Facility Design Including Barriers, Sensors, Comm
- ❖ Overall Effectiveness

### Network Defense, Information Warfare

- ❖ Vulnerability Assessments
- ❖ Information Dominance/Assurance

### Economic Policy

- ❖ Financial Modeling
- ❖ Suspicious Trading
- ❖ Consumer Demand

### Environmental Analysis

- ❖ Long Term Land Management
- ❖ Multi-Modal Transportation
- ❖ Integrated Pest Management
- ❖ Energy Management and Conservation

### City and Regional Planning

- ❖ Resource Management
- ❖ Traffic Engineering
- ❖ Land Use Planning and Zoning (LUPZ)
- ❖ Border and Port Security
- ❖ Infrastructure Analysis

### Medical/Public Health

- ❖ Pathogen/Antibody Interactions
- ❖ Triage Procedures, Patient Stabilization and Transport
- ❖ Medicine Distribution
- ❖ Epidemic Response Analysis

## Functional Capabilities

- ❖ Balanced treatment of physical and cognitive phenomena
- ❖ Generic functionality for entities (move, sense, talk, affect, process)
- ❖ Create and customize organizations of all types, including no organization
- ❖ User-defined attributes represent physical and cognitive features; can be used in tables and tactics to further customize and tailor the entities
- ❖ Interrogate entities during the simulation to gain information
- ❖ Entities represented as hierarchy of components with data to describe their characteristics (perceptions, organizations, location and motion, signatures, capabilities)

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## Simajin Clients

Department of Defense  
Department of Energy  
Department of Transportation  
Department of Homeland Security  
National Aeronautics and Space Administration

## Advantages of Simajin

Proven technology used across a wide range of applications

Built outside the limitations of specified requirements

Capable of simulating chaotic systems without making assumptions

Runs on ordinary laptops and desktop computers networked together to perform thousands of runs overnight

It can be used, initially, to examine smaller projects and then build up to larger scope and fidelity scenarios

RhinoCorps can train your personnel to use Simajin so that applications can be performed “in-house”

Explicit separate representation of reality and perceptions of reality

Comprehensive in scope and potential outcomes

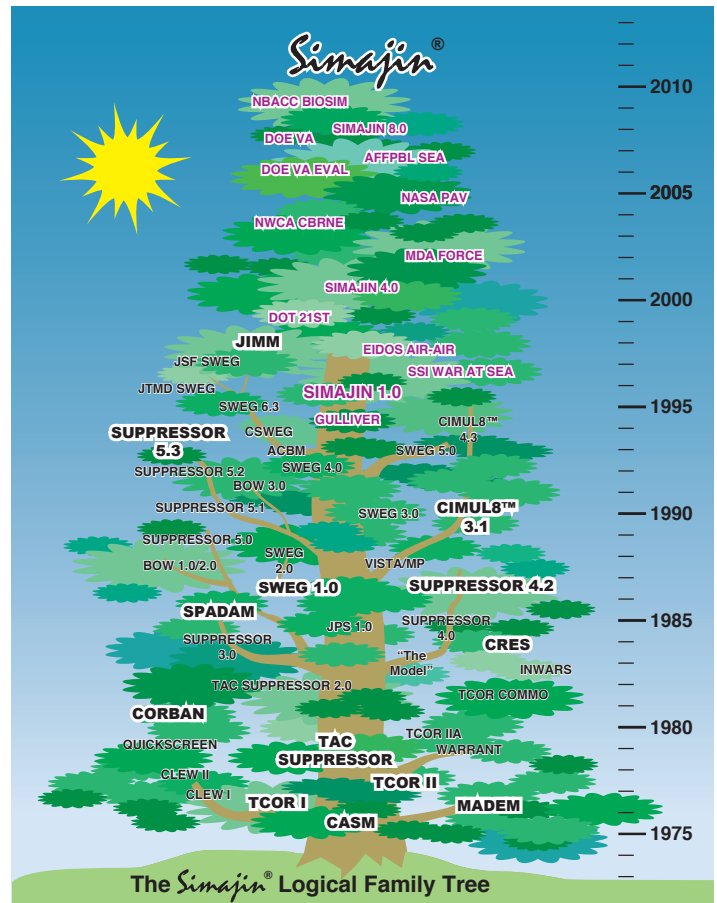
Easily adaptable to new scenarios

Reusable and expandable data bases

Manageable learning curve, no special expertise needed except for the subject matter required for the application

***Simajin is a general purpose toolkit for solving real problems; a user's experience and imagination are the only limiting factors***

Missile Defense Agency Graybeard Panel declared Simajin “... the best modeling and simulation tool they have ever seen.” – November 2002



## The History of Simajin

Simajin is based on over thirty-five years of experience in developing and using computer simulations to solve practical problems. The logical family tree, for which Simajin is the most advanced member, is shown in the picture above. The complete tree has many more branches than what is shown here.

Simajin and its predecessors have been used by DoD, DOT, DOE, DHS, NASA, other federal agencies, many different government contractors, and the commercial sector.

Simajin has a very broad applicability because it was not designed to meet a specific user problem. It can be applied to military or civilian issues. It can be used for traditional, standalone analyses, or for networked, real-time applications. It has been applied to highly detailed, short duration and less detailed, long duration scenarios.

If you can describe the details associated with your problem, then more than likely Simajin can be applied to it.