



# **Open SystemC Initiative**

**SystemC News and Update**

**November 2003**

# OSCI Moving into a New Phase

## Original Goal:

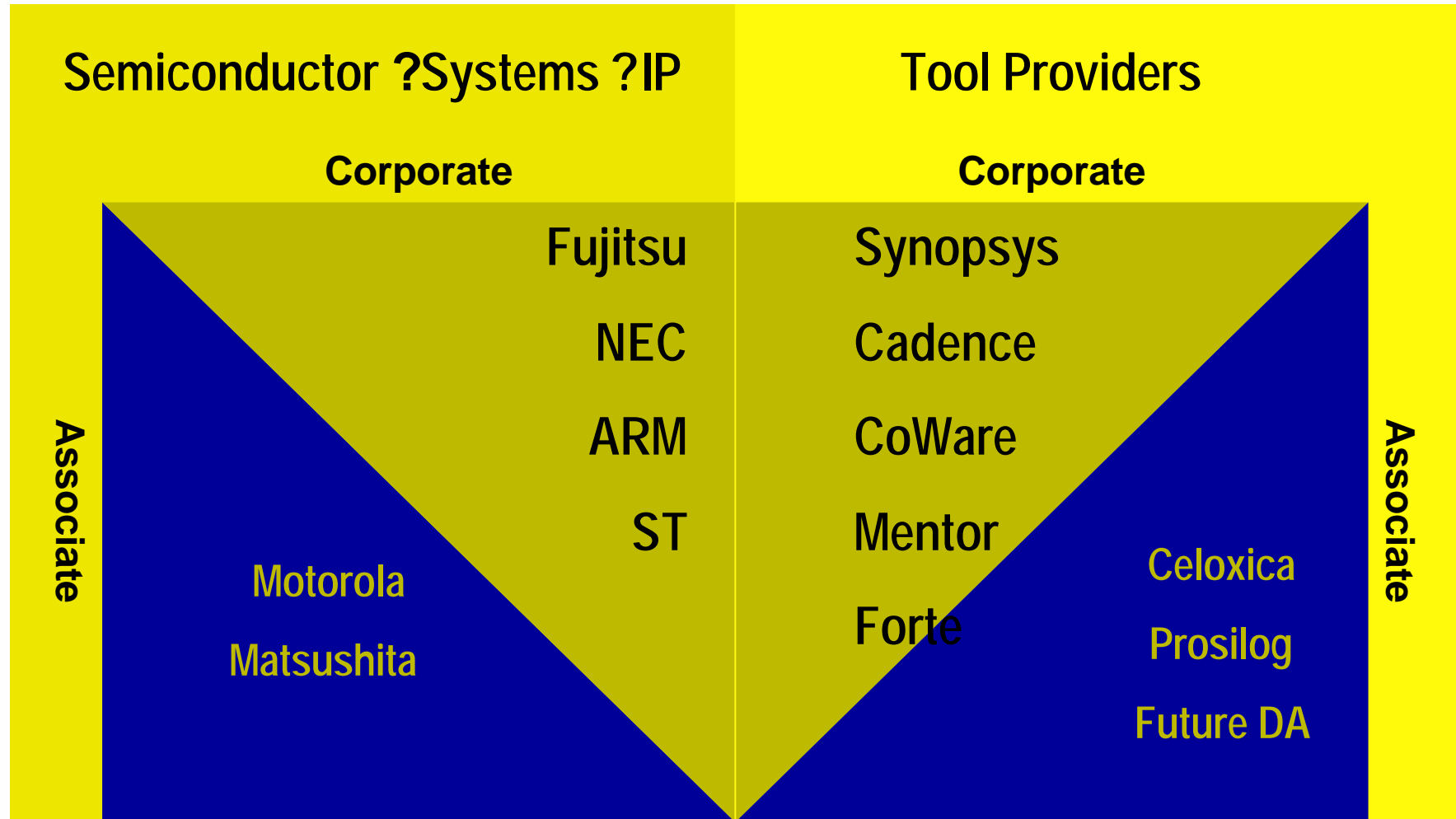
**Create a C++ based  
System-level  
design language**

## New Goal:

**Foster an Ecosystem**

**Users + Providers +  
add-on Standards +  
add-on Libraries**

# Building The Ecosystem



# Making Membership Easier Than Ever

- Memberships expire end of November
- New membership fee structure
  - Corporate Membership
    - ◆ \$25,000
  - Associate Membership
    - ◆ Revenue > \$1M ? \$10,000
    - ◆ Revenue < \$1M ? \$4,000
    - ◆ Educational ? \$2,000

# Working Group Activities

- Language Working Group
  - Has released 2.0.1 LRM
  - Is beginning work to open IEEE par for IEEE SystemC standardization
  - Testing incremental version 2.1
    - ◆ In “OSCI Members” web site area for testing and review

# SystemC 2.1 Features

- IP Delivery
  - Structured error reporting mechanism
  - `sc_argc()` and `sc_argv()`
  - New callbacks
  - Object code release tagging
- TLM
  - `sc_export`
  - Dynamic process support
  - `sc_event_queue` class
- Ease of use
  - Use signals & ports like the underlying data type
  - Mixed concatenation
  - POSIX thread support
  - Support for MacOS X
- Fixed Bugs
  - lots

# Working Group Activities

- **Verification Working Group**
  - Has approved SCV 1.0 for release
- **Synthesis Working Group**
  - Working on a synthesizable subset document
- **Transaction Level Modeling Working Group**
  - Working on a methodology and library for Transaction-level communication

# Get Involved!

- Use what is now available!
  - Wide array of tools, IP, etc now available
  - Deploy language and tools in new projects
- Encourage your company to join!
  - Corporate Membership
  - Associate Membership
- Help define new directions!
  - Transaction-level
  - Synthesis
  - HW / SW