

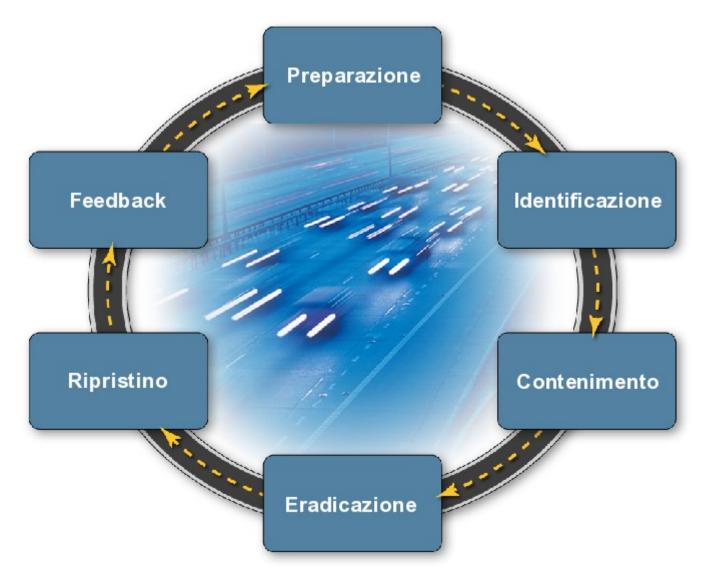
La predisposizione di ambienti virtuali per la collaborazione nella gestione delle emergenze

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### Lifecycle Management of Emergencies





# What is Project Wonderland?

- Sun Labs research project
- Open source toolkit for creating 3D virtual worlds
- Design focus on business, education & collaboration
- Supports high fidelity audio, shared applications, telephone integration, video, and more







### **World of Possibilities**

- Significant interest in "enterprise grade" virtual worlds for:
  - > Internal collaboration
  - Distance education
  - Training / on-boarding
  - > Customer Care
  - > Product demonstrations
  - Virtual conferences and events
  - Shared simulation
  - > Remote monitoring/control

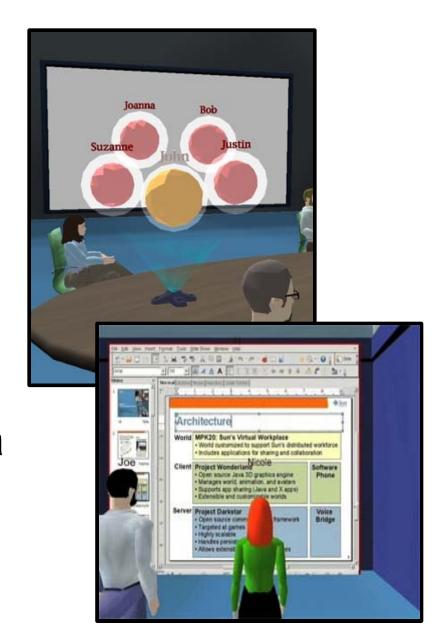






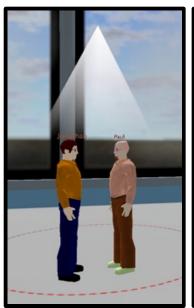
# Project Wonderland Differentiators

- End-to-end Solution
- Live application sharing
- Internal or external deployment
- Open and extensible
  - > 100% Java
  - Open source, open art path
- Integration with business/web data
- Extensive telephony integration
- Audio as core feature
- Project Darkstar scalability





### MPK20 - Sun's Virtual Workplace







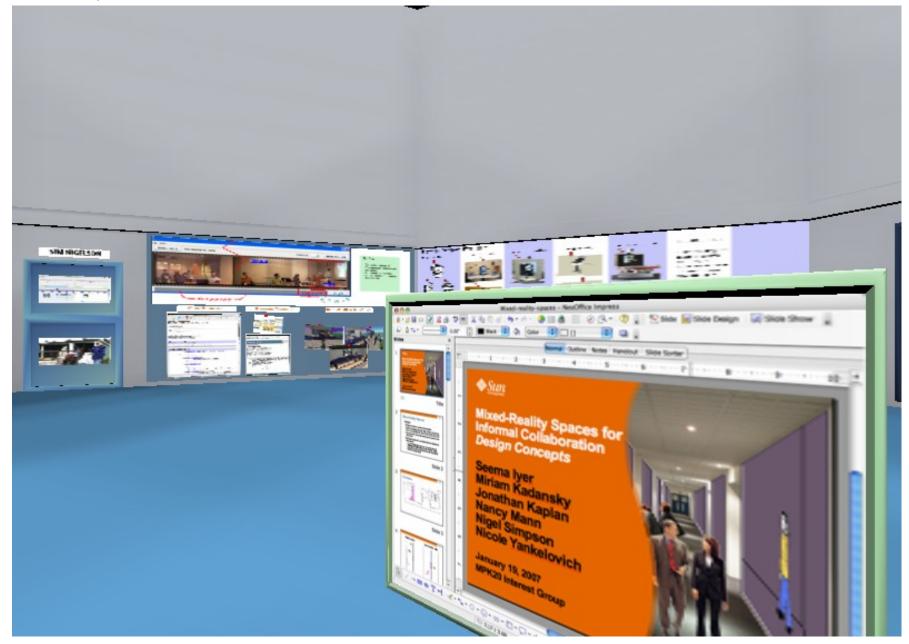




Sun Microsystems Proprietary



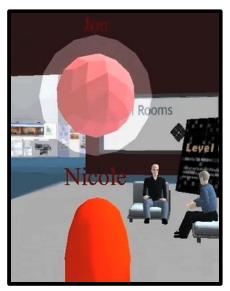
### **Live, Shared Documents**



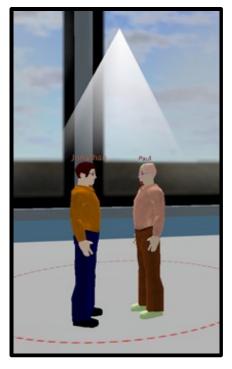


### **Audio & Telephony**

- Audio Features
  - Mix recorded and live audio
  - Range of audio fidelities
  - Individual volume control
  - > Audio recording
  - > Virtual microphone
  - Cone-of-silence
- Telephone Features
  - Incoming and outgoing calls
  - Migrate from VoIP to PBX
  - Carry telephone users around











## Mixed Reality Conferencing





### Sun's Virtual World Software Stack

#### Worlds

#### MPK20, Music in Wonderland, 6th Space, MiRTLE, ...

- Worlds customized for different audiences
- Includes applications for sharing and collaboration

#### Client

#### **Project Wonderland**

Open source Java 3D-based graphics engine Manages world, animation, and avatars Supports app sharing (initially Java and X apps) Extensible and customizable worlds Software Phone

World repository

Sun Directory Server

#### Server

#### **Project Darkstar**

- Open source communication and app framework
- Highly scalable
- Handles persistence
- Allows extensible set of core services

jVoice Bridge

Sun Glassfish ApplicationServer

Sun Glassfish ESB

**Sun Solaris 10** 



### **Applications: 6thSpace - Malden Labs**















## A Google Product





# A Typical Business App





### We Believe Business Computing Should Be

Reasonable

**Immersive** 

Pervasive

Proven
Deployment and
Adoption Model

Enterprise Class

And Deployed on a Scalable Platform

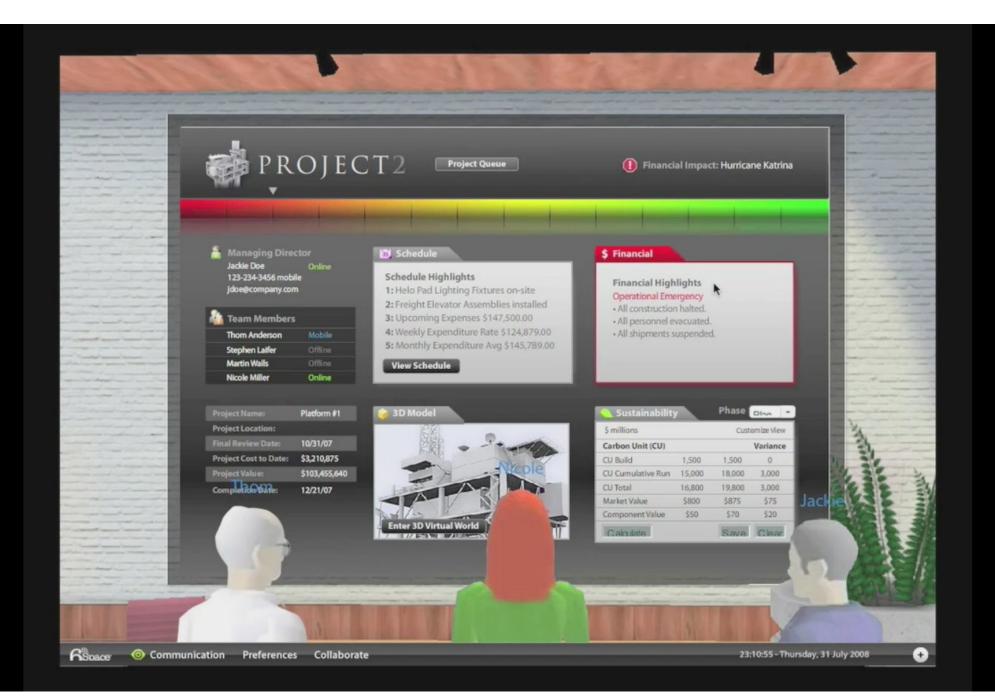






























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