

Access Grid Toolkit Roadmap

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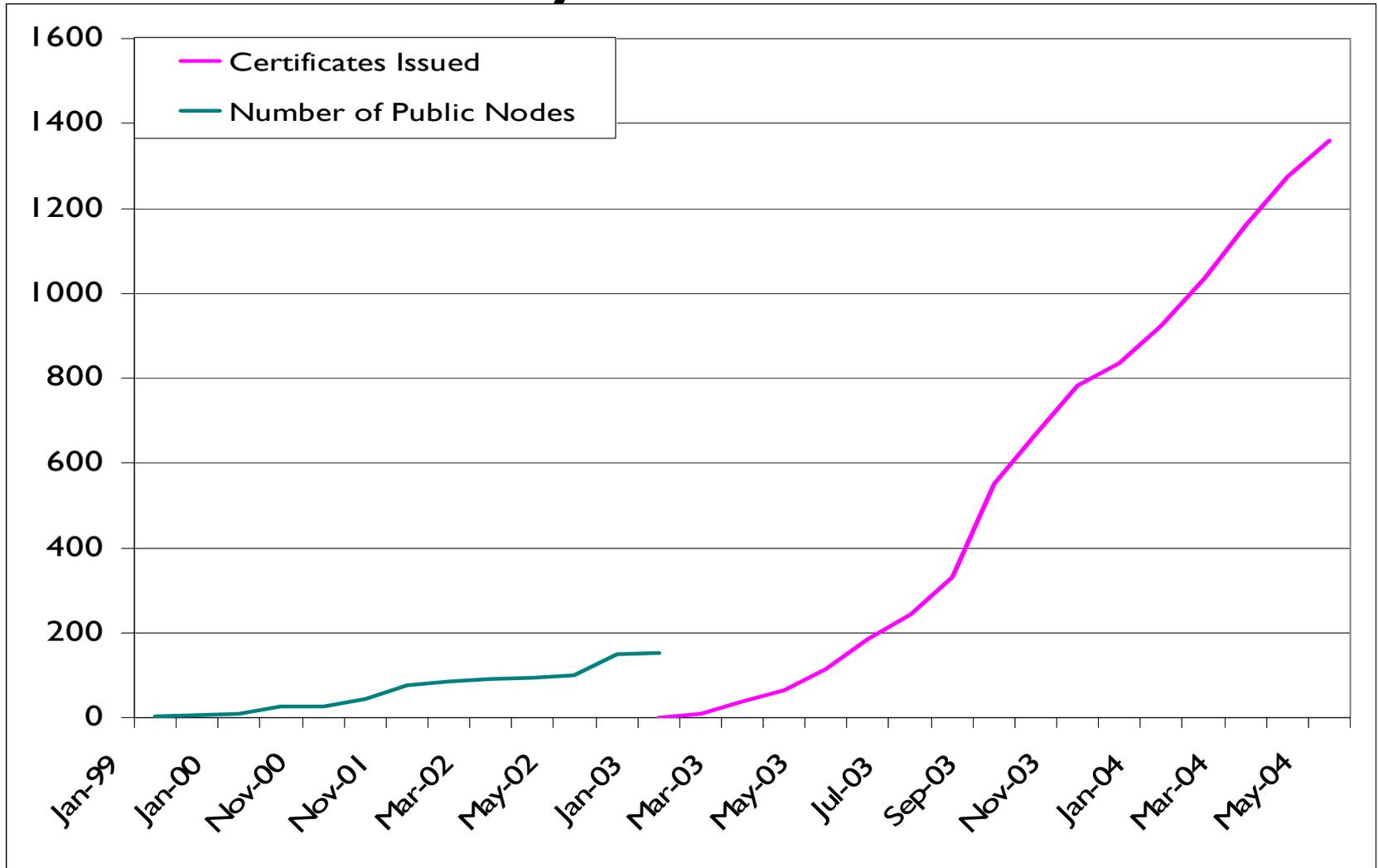


Overview

- History and Growth
- Research Directions
- Roadmap Overview
- Roadmap Details



History and Growth



Research Directions

- Advanced Room Configurations
 - Tiled Displays
 - Shared Drawing Surfaces
 - Haptic Devices
 - Integrated Instruments/Facilities
 - Cost: Bandwidth
- Minimal Configurations
 - Handhelds,
 - Wearable Computers
 - Set-Top Boxes
 - Cost: Collaborative Capabilities
- Advanced Collaboration Services
 - Stream processing, modifying
 - Data mining from Streams
 - Cost: Latency
- Deeper Grid Integration
 - Compute Resources
 - Data Resources
 - Publish/Subscribe Service Models
 - Peer to Peer Apps and Services
- Extending Security Work
 - Improved Authentication Solutions
 - Improved Authorization Solutions

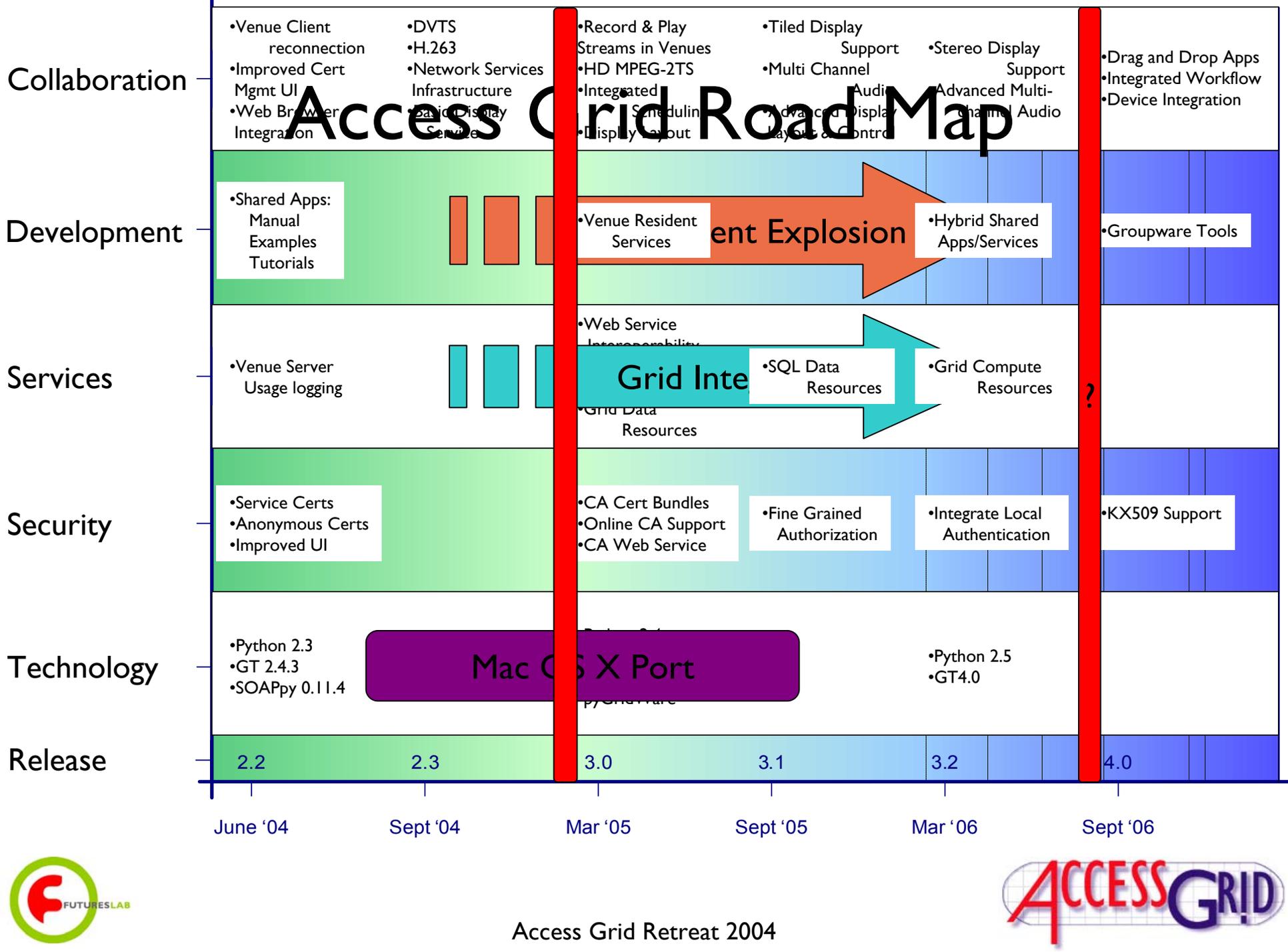


Application Deployments

- Expansion into New Communities has already begun:
 - Existing AG Community (1000)
 - Meeting Ware
 - Fusion Collaboration (>1000)
 - Enable Remote Science, using HVA
 - ANL Advanced Photon Source (4000)
 - Enable Remote Science, using HVA
 - Center for Learning and Multimodal Communication (200)
 - Sociology, Human Computer Interaction
 - Advance Biomedical Collaboration Project (100)
 - Teaching, Immersive Collaboration
- Domain Scientists bring new requirements



Access Grid Road Map



Access Grid Toolkit 2.3

- New Node Services:
 - H.263 (OpenMash), DVTS (SangWoo Han)
 - Headless Video Producer (OpenMash)
 - Basic Display Service
- Network Services Infrastructure
 - Interfaces, Schemas/Data Definitions
 - Example Service, maybe two
- Bug Fixes for 2.2, to Support SC Global



Access Grid Toolkit 3.0

- Venue Resident Services
 - Record & Play Streams in Venues
 - Integrated Scheduling Services
- New Node Services:
 - HD MPEG-2TS
 - Basic Display Layout
- Technology Updates:
 - Python 2.4
 - GT4.0 ?
 - ZSI/SOAPpy
 - pyGridWare
- New External Services:
 - Voyager Service
 - Grid Data Resources
- “VO” Service
 - Concept in development now, give input!
- Web Service Interoperability
- CA Web Service Interface
 - CA Cert Bundles
- Online CA Support



Access Grid Toolkit 3.1

- Tiled Display Support
 - Advanced display service
- Multi Channel Audio
 - Two Channel (stereo)
- Display Layout & Control
- SQL Data Resources
- Fine Grained Authorization



Access Grid Toolkit 3.2

- Stereo Display Support
- Advanced Multi-channel Audio
 - 2+ (5.1?) Channels
- Hybrid Shared Apps/Services
- Grid Compute Resources
- Integrate Local Authentication
 - Active/Open Directory?
- Python 2.5
- GT4.0



Access Grid Toolkit 4.0

- Drag and Drop Applications
- Integrated Workflow System
- Groupware Tools
- Kerberos X509 Support



Credits

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More Credits

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