



Anita Havele
Executive Director, Web3D Consortium
anita.havele@web3d.org



Web3D Consortium Upda August 2011



# **About the Web3D Consortium**



- International
- non-profit
- member-funded industry group
- Develop and Promote X3D

Our members span business, academia, government

wand the military

web 3D



# **ABOUT OPEN STANDARDS X3D**



www.web3d.org

- Portability
- Durability
- IP-independence
- International
- recognition and support



Real Time
Web Ready
ISO Approved
Open/Commercial
Source

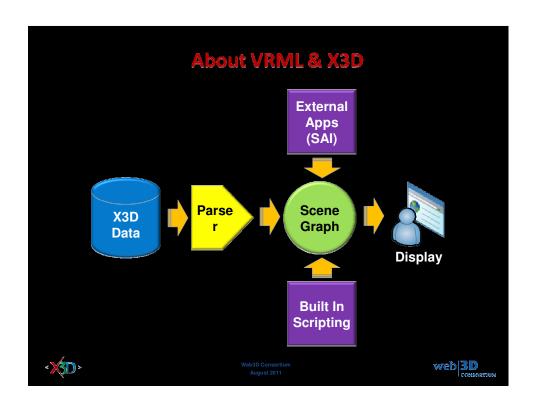
#### **VRML & X3D**

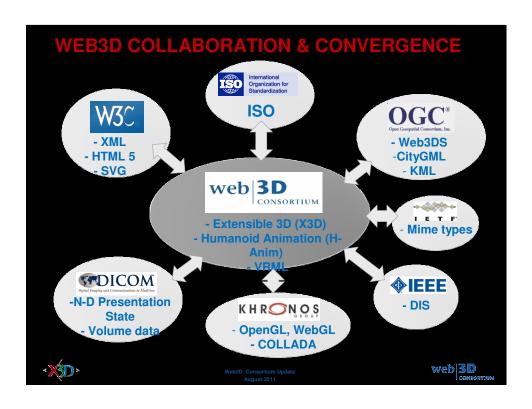


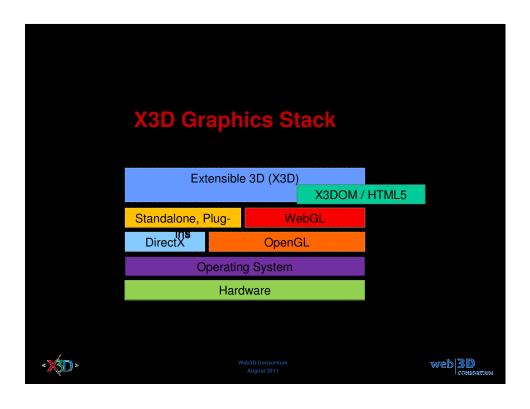


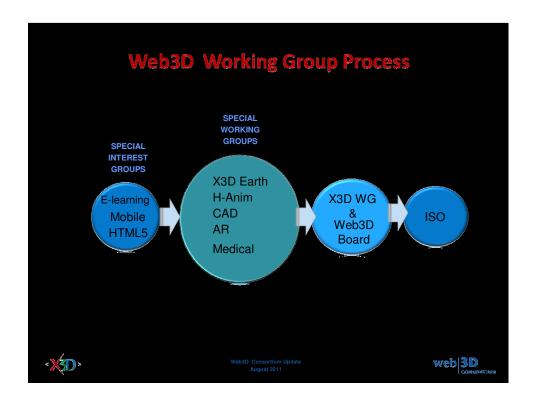


- VRML is the most widely supported real-time 3D format.
- X3D updates VRML functionality and provides an XML and binary encoding + Geospatial Support.
- X3D is the 3D component of MPEG 4.
- X3D 3D Portrayal model for OGC services. web 3D









#### Web3D - Open Special Interest Groups

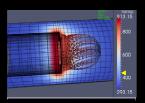
Why? Raise awareness in web-enabled 3D visualization

Who? Developers and industry leaders interested in using open standards for 3D Web

AR/MR



HTML5/X3DO



E-learning





Web3D Consortium Upda August 2011



#### Web3D News - Augmented Reality

- Web3D Collaborating with OGC for location based AR apps.
- Web3D SIG

Group



d into a Working





## Planned goals of AR WG include:

- Collect requirements and describe typical use cases for using X3D in AR/MR applications
- Produce and propose X3D components for AR/MR scenes and applications
- Produce sample AR/MR applications using X3D to demonstrate how this functionality can work correctly

# Web3D News – e-learning

- Ongoing Collaborative efforts with the IMS Global Learning Consortium to make X3D part of their stack.
- X3D e-learning Application
   Web3D Korea Chapter e-book app Contains text, video,
   3D graphics component
   The e-book uses functions of X3D





## Web3D News - X3D Earth

- New approaches for handling coordinate precision across Geospatial scales
- Quad tree imagery and terrain tools developed using Rez platform.
- The latest exemplar, by NPS, AVAILABLE NOW
- 3D Blacksburg Online Mirror World for civic engagement, as test bed for LOD management
- OGC 3DPIE



Web3D Consortium Upda



# 3DBLACKSBURG.ORG





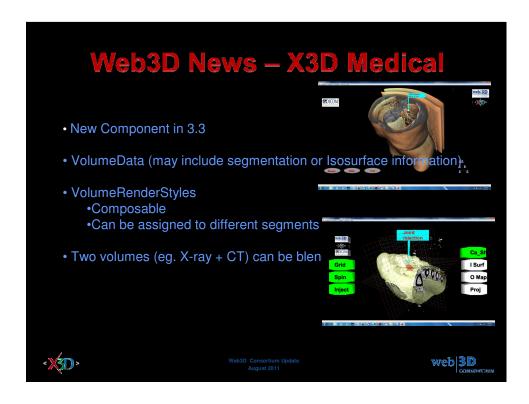


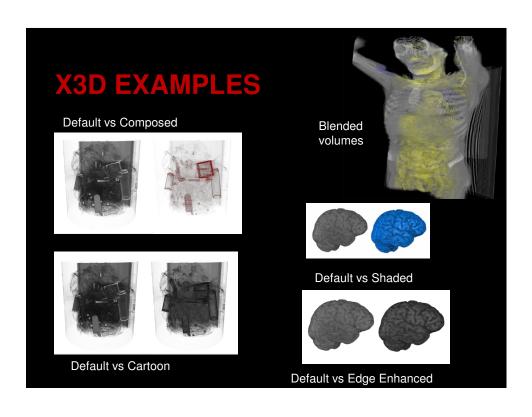


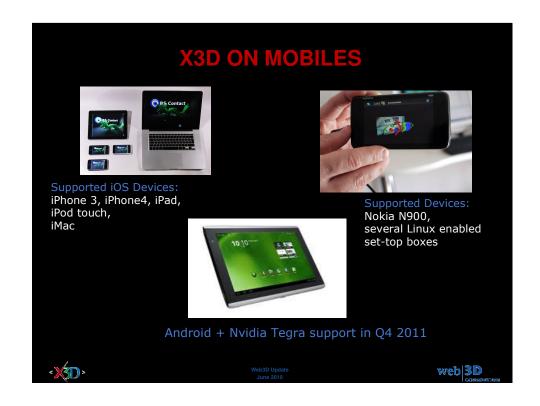
# OGC 3DPIE – ROLE OF X3D

- Interoperable 3D portrayal pipeline
- · Major output format of the Web 3D
- Identify challenges for future X3D developments and future OGC/Web3D collaborations









#### Web3D News - Multi-user

- Recent developments include open source release of DeepMatrix, OpenDIS
- Best paper at Web3D 2011 was a multiuser paper on HTTP

1.1



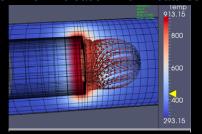


Web3D Consortium Upda August 2011



#### Web3D News – X3DOM /HTML5

- X3DOM allows X3D in native browses 3D WITHOUT PLUGINS (yea!).
- X3DOM is an open source, open standards X3D viewer developed by Fraunhofer, a member of the Web3D Consortium
- X3DOm New Release New Features



Courtesy Fraunhofe



web 3D

#### Web3D News - Release of X3D V3.3

- · Volume Rendering
- New Units Proposal
- Geocentric rendering



Web3D Consortium Upda



# Declarative 3D W3C Community group Goal

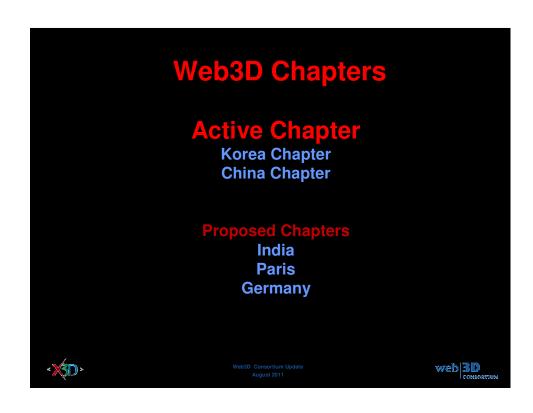
Evaluate the requirements for a successful standardization of a declarative approach to interactive 3D graphics as part of HTML documents.

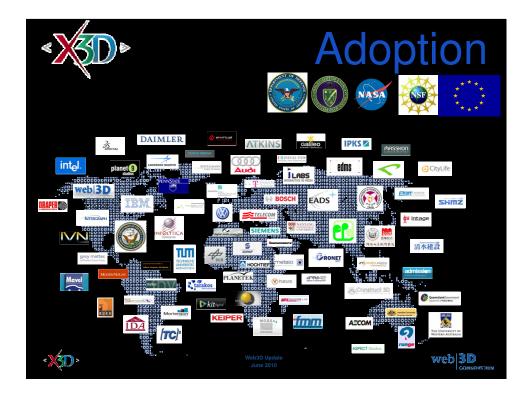
#### Key Players

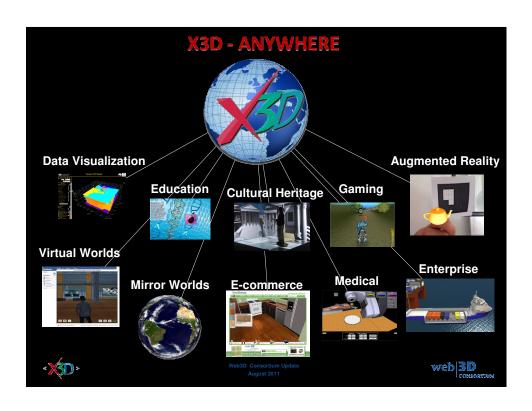
DFKI
Fraunhofer
Web3D Consortium
KHRONOS



web 3D









# Why Join the Web3D Cosortium

Consumers is changing their behavior towards 2D

Consumers are ready for interactive immersive 3D experience

There has been no better time to discuss 3D technologies







#### Together we can build a immersive 3D world



We look forward to your participation

To join visit us at: www.web3d.org/join



