

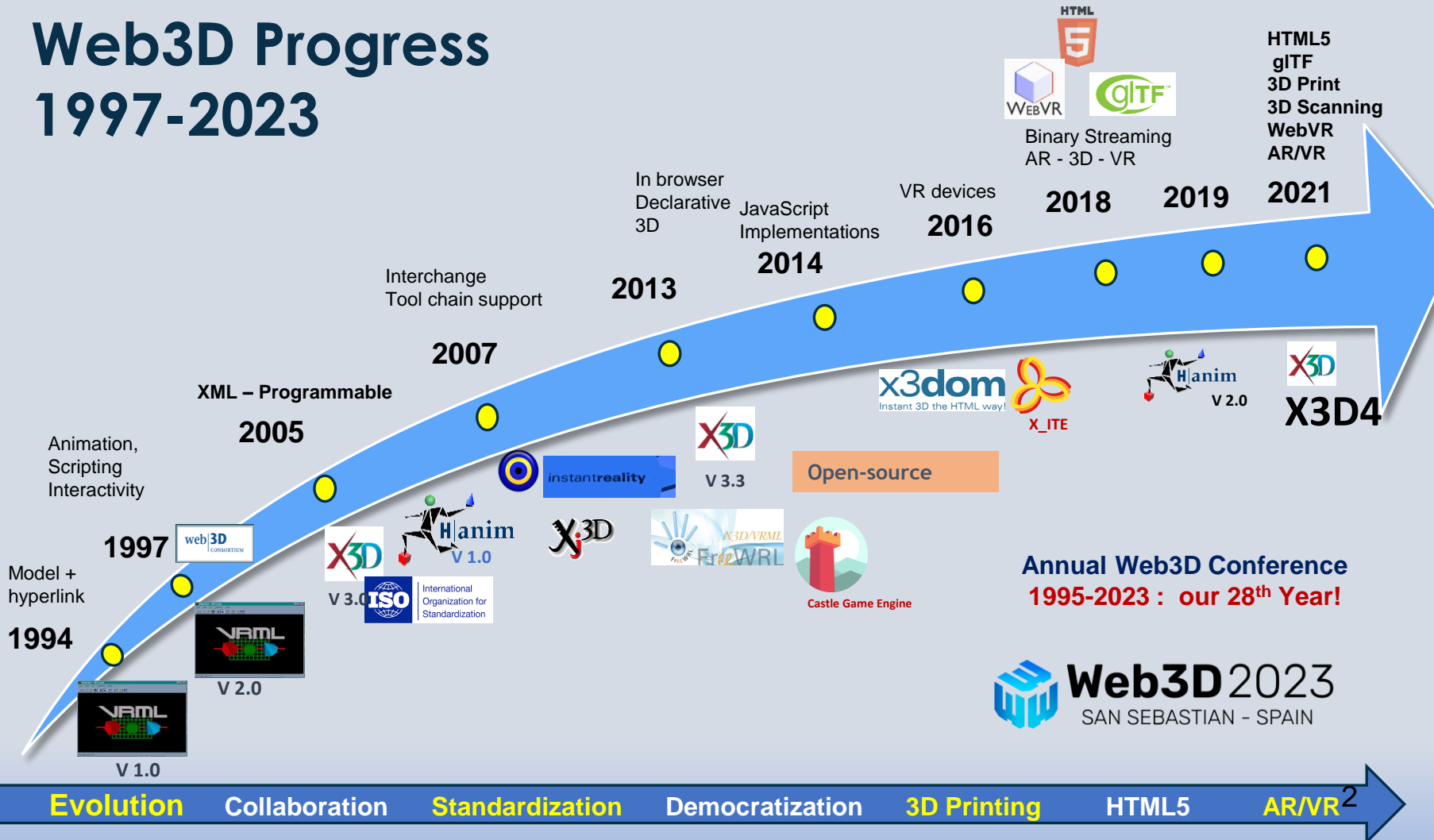
The Web3D Consortium: Web3D.org

Extensible 3D (X3D)

content
with



Web3D Progress 1997-2023



Extensible for Convergence

Web, industry and standards bodies have been collaborating for a foundation for open interoperable enterprise 3D solutions



... and many more!

www.web3D.org/liaisons

NEW RELEASES!

Four different open-source engines released for SIGGRAPH!

Chock-Full-O-Features and formats ~!



X3DOM.org : Javascript Engine - New Release 1.8.3



X_ITE Javascript Engine - New Release



Castle Game Engine

Castle Game Engine



FreeWRL 6.1

More BOFs this week

X3D4 is Web3D Ready - A major upgrade to the X3D Graphics
- Monday, 7 August 2023 - 3:00 PM - 4:30 PM Pacific. Room 514.

3D Web Interoperability for the Metaverse
- Tuesday, 8 August 2023 - 1:00 PM - 3:00 PM Pacific. Room 514.

Virginia Tech

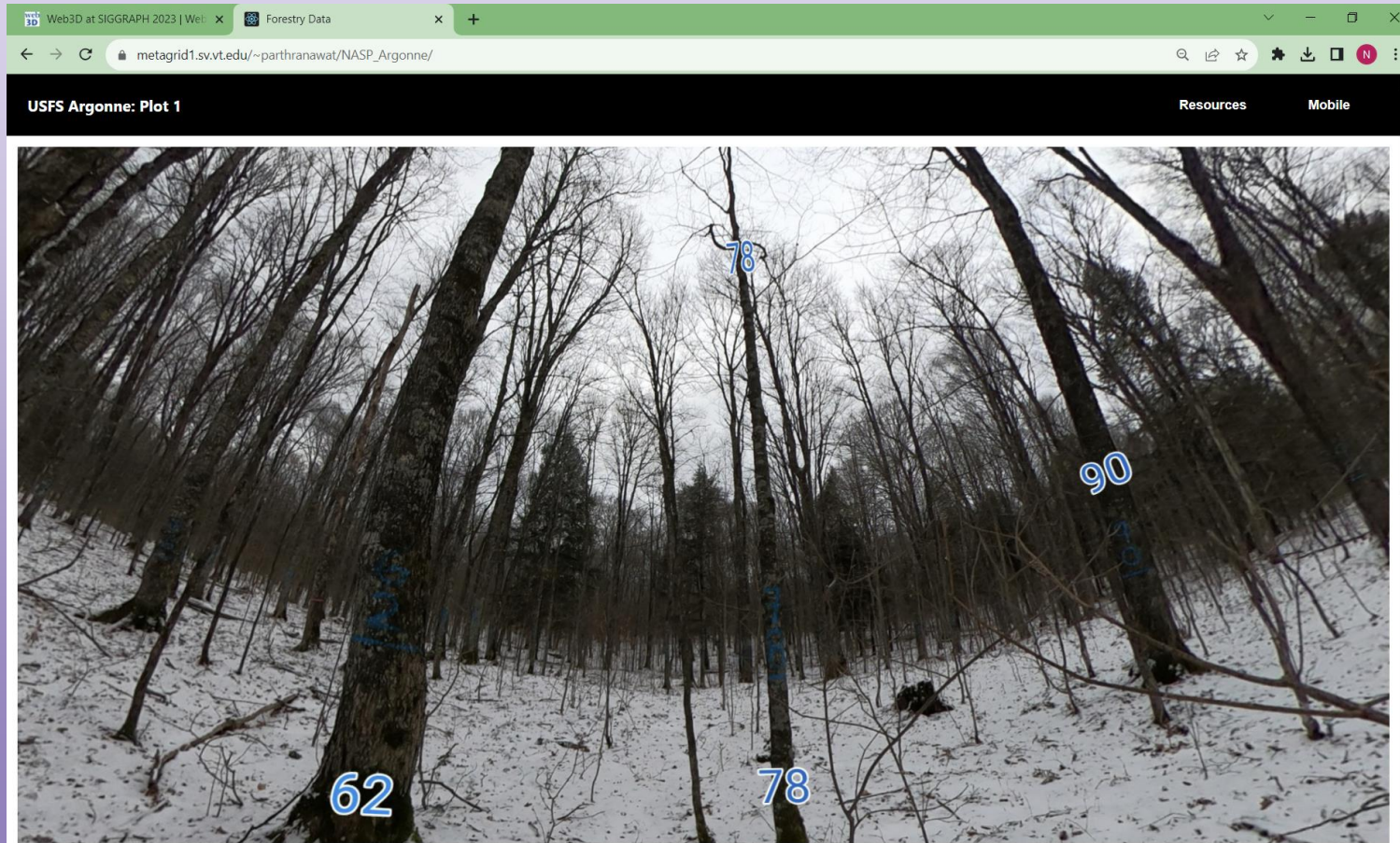
Nicholas Polys Immersive Cartography

2022-2023 Highlights :

- USDA Professional Forestry Training
- Stroubles Creek Tour
- Construction Safety and Liability Management



● USDA Professional Forestry Training




Chrome File Edit View History Bookmarks Profiles Tab Window Help zoom 88% Fri Mar 3 6:08 PM

Forestry Data x +

localhost:3000 Update

Forestry Data- Jefferson

Plots Resources Mobile



Tree #	Species	Class	DBH	Crown Class	Logs	Bolts	Height
1	Mockernut Hickory	AGS	18	Codominant	1.5	0	65
2	Red Maple	AGS	13.2	Intermediate	1	0	55
3	Mockernut Hickory	AGS	17.9	Codominant	2	0	70
4	Red Maple	AGS	15	Intermediate	0.5	0	50
5	Scarlet Oak	AGS	32.9	Codominant	1	0	70
6	Mockernut Hickory	AGS	9.5	intermediate	0	3	45
7	Chestnut Oak	AGS	25.5	Codominant	1	0	75
8	Scarlet Oak	AGS	12.5	Intermediate	1	0	65
9	Scarlet Oak	AGS	24	Codominant	1.5	0	80
10	Scarlet Oak	AGS	23	Codominant	0.5	0	75

localhost:3000 Jefferson National Forest, Exercise Stand

Scaling to 6 ecosystems and dozens of plots with

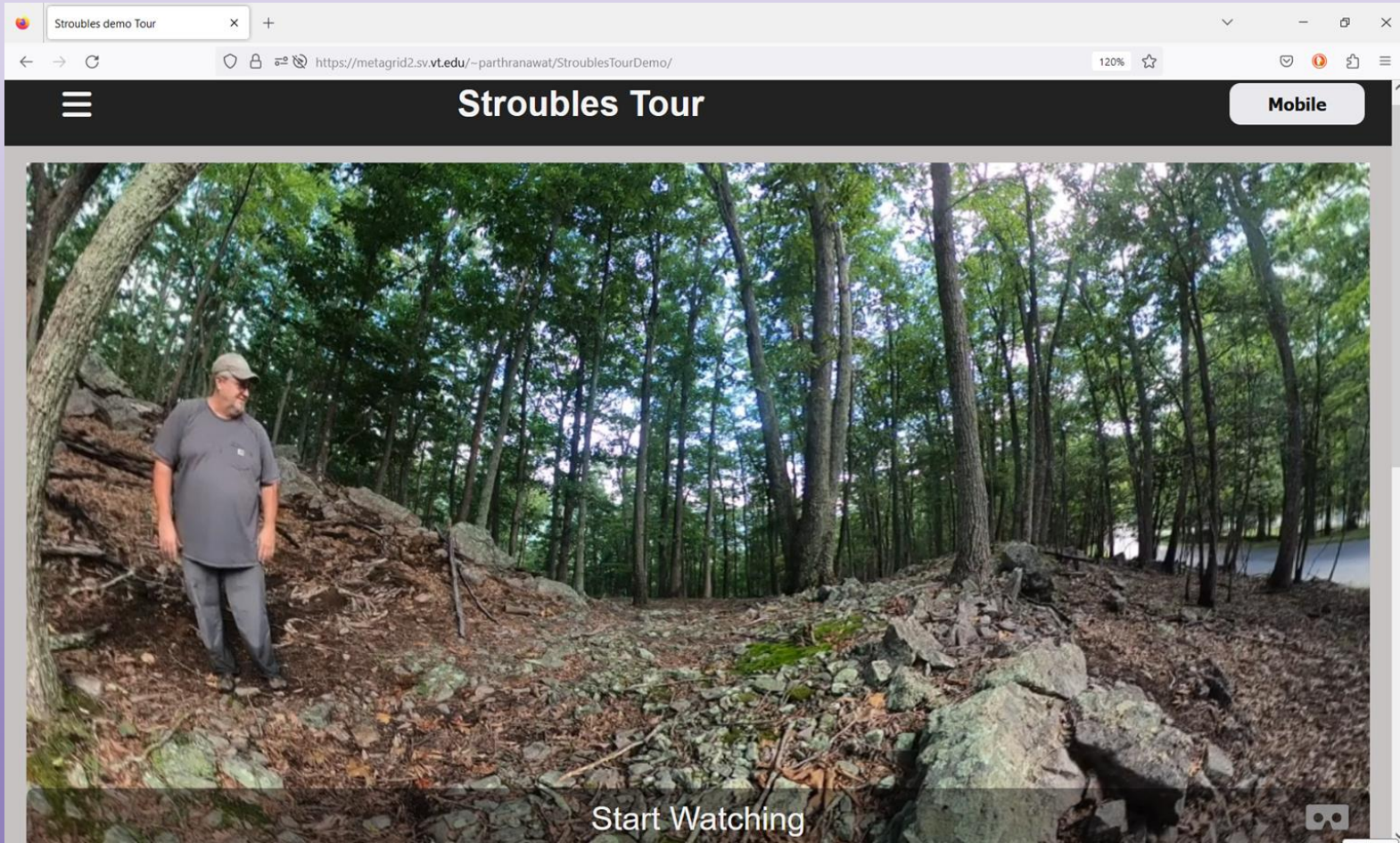
X3DOM + React

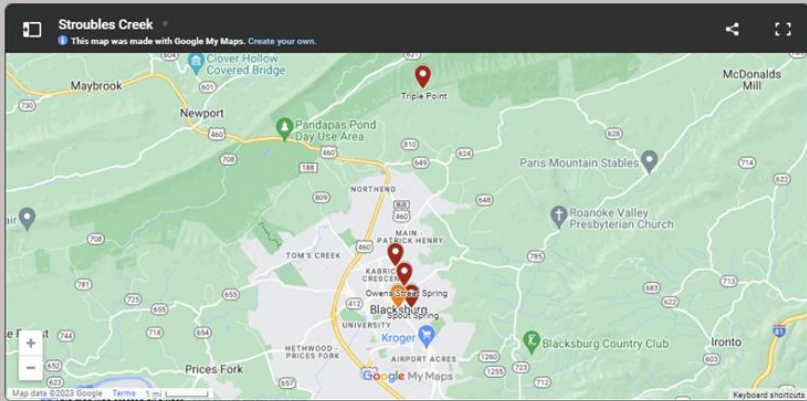
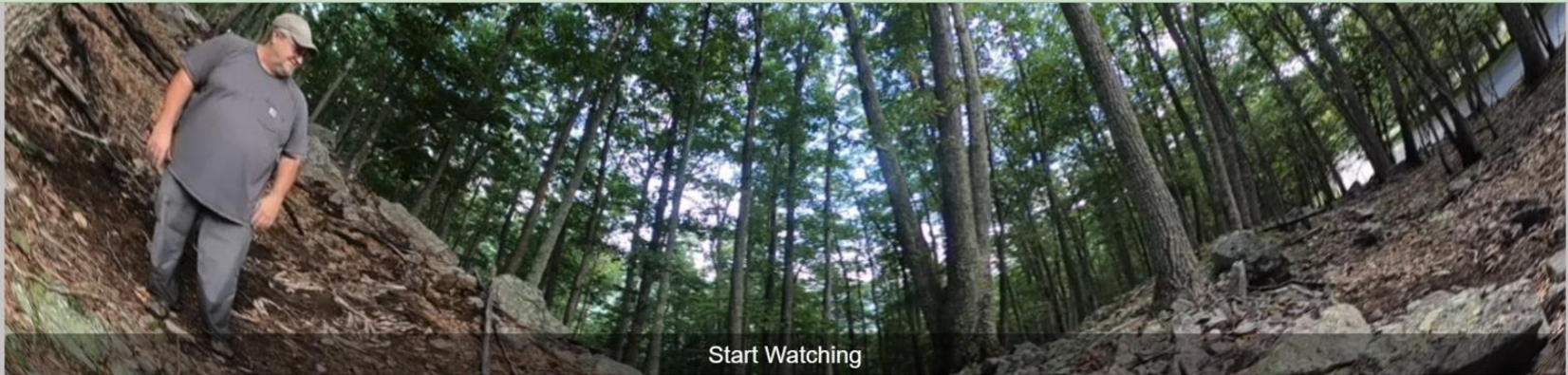
Paper: Web3D'21





● Stroubles Creek Tour





Useful Links

- [Live Data](#)
- [GE Tour](#)
- [BMP Tour](#)
- [InfoVis Site](#)





Start Watching



- **Construction
Safety and Liability
Management**



Scene 3 Fog

View Scene

Mobile



*Paper in
ACM SIGGRAPH
Web3D 2023!*







WebXR Elements » 1

HTC Vive Stereo effect Headset

position: 0.00 1.60 0.00

rotation: 0.00 0.00 0.00

Right controller

position: 0.50 1.50 -1.00

rotation: 0.00 0.00 0.00

select button

squeeze button

Reset pose Exit immersive

Console Issues

top Filter 2 hidden

Default levels 1 Issue: 1

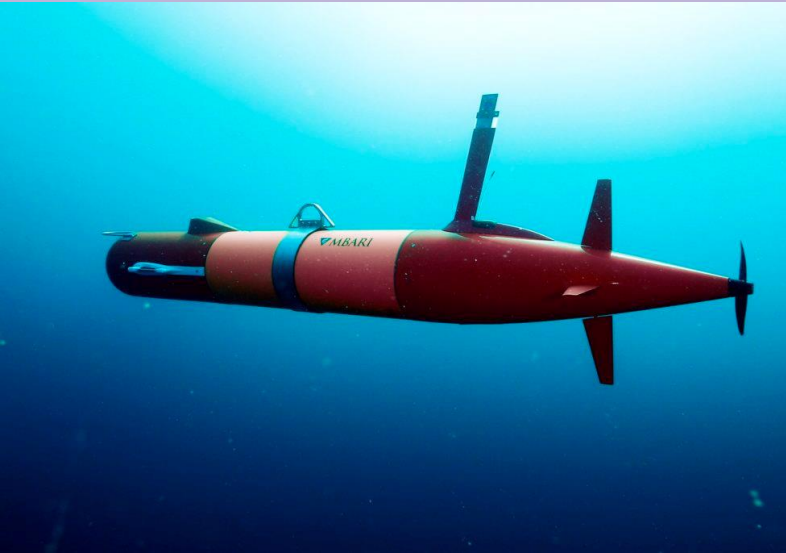


MBARI – Mike McCann

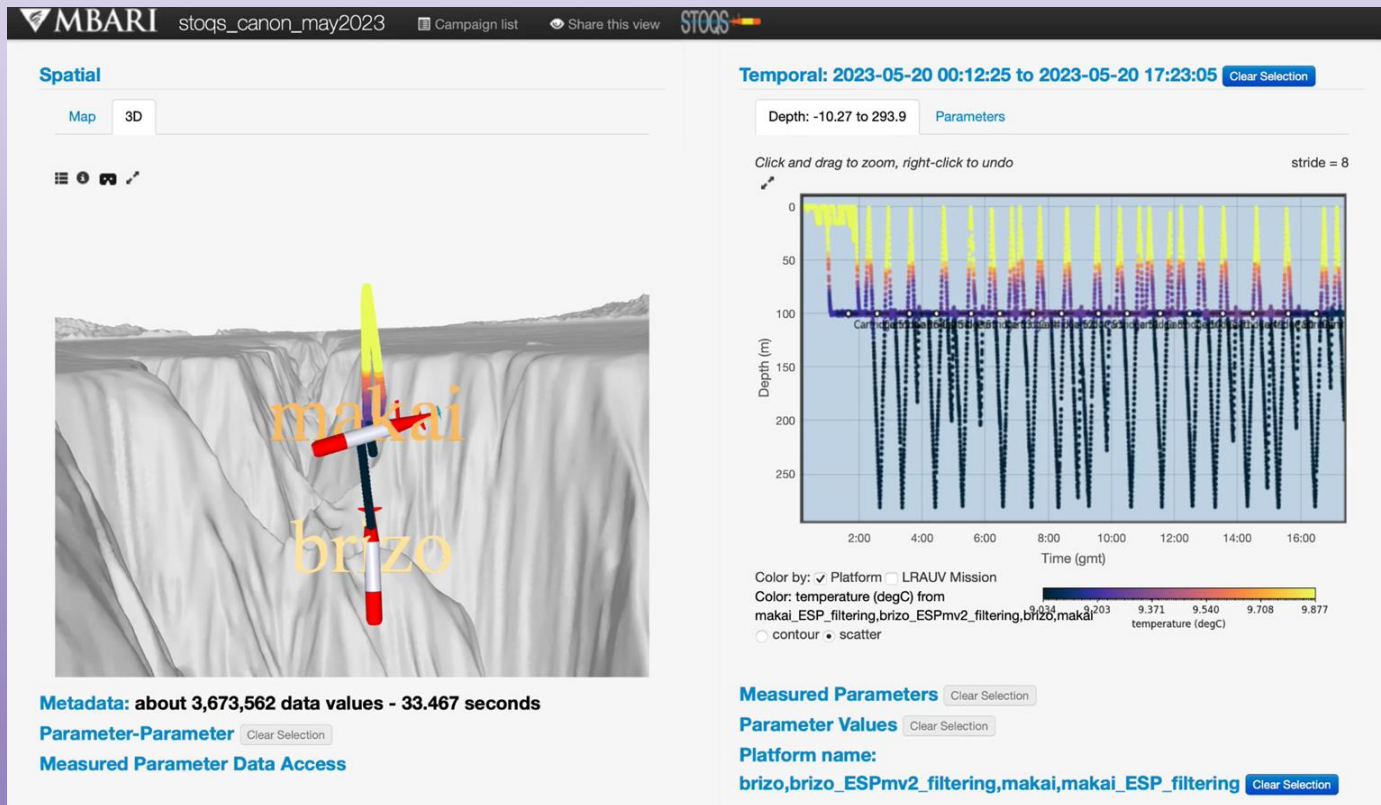
Monterey Bay Aquarium Research Institute

**3D Oceanographic Data Visualization with STOQS,
an open source web application**

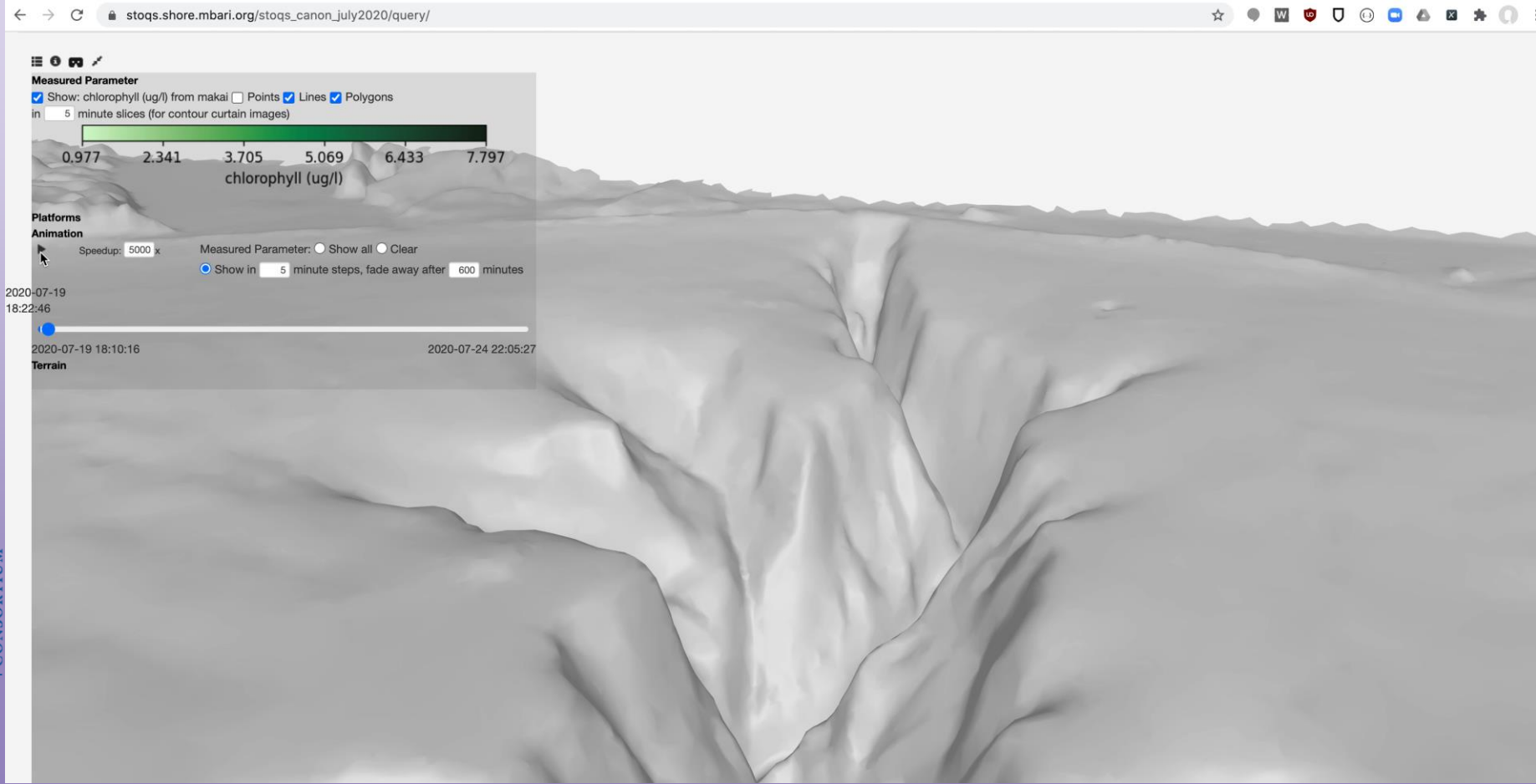
Robots collect a lot data...



Humans need to understand it...



3 Dimensional moving fluid with life growing in it...



Web 3D Community

All the groups: CAD, Geospatial, Medical, ...

- Makes it easy to “view source” to build 3D scenes
- X3D nodes are building blocks that work in standard web technology

Future work

- Volume visualization of 4D simulation data
- Tileserver for extremely large scene exploration
- ... (what are your needs?)

Versar – Casey Gomez

USNA Annapolis

- Navy and Army
- Disparate Data Sources
- LiDAR, Imagery, GIS, CAD
- Georeferencing
- Survey Controls
- Geo to Local Transformation
- Tiling, Optimization
- UI Controls



Versar

Port of Gulfport, MS

- Navy and Marine Corps
- Data Collection Training Data
- LiDAR, Photogrammetry
- Survey Controls
- Geo Wrap
- Water Level
- Measuring Tool
- Movable Features
- UI Controls



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Web3D 2023 Metaverse Workshop

9-11 Oct 2023, **San Sebastian, Spain** - [Tentative Program](#)

2PM -5PM, Wednesday 11 October 2023 f2f Metaverse Workshop and Meetup

- Call for Speakers -
- Discussion topics
 - Scope & Use Cases
 - The Nature of Interoperability
 - WWW and device interfaces
 - Web Architecture & current standards
 - Paths to Interoperability
 - SDOs and engagement
 -
- Review of the 3D Web Interoperability WG Deliverable

Join Our Global Community: Web3D.org !

The screenshot shows the homepage of the Web3D Consortium website. The browser's address bar displays "web3d.org". The page features a dark blue header with the "web3D CONSORTIUM" logo on the left, a globe image in the center, and a "Log in" button with a search field on the right. Below the header is a navigation menu with tabs for "HOME", "NEWS & EVENTS", "CREATE X3D", "PARTICIPATE", "STANDARDS", and "ABOUT". The main content area contains a diagram illustrating the X3D workflow: various 3D software packages (Blender, SketchUp, Unity, 3DS MAX, and others) feed into a "CONVERT" box, which outputs to an "X3D" box. This box also receives input from "GLTF" and other file formats. The final output is shown as a 3D scene rendered on multiple devices (laptop, tablet, smartphone) with various operating system icons (Windows, Linux, iOS, Android) and browser icons (Chrome, Firefox, Safari, Edge) below it. To the right of the diagram, the text "X3D Means 3D Anywhere" is displayed. At the bottom of the page, there are navigation arrows and a series of dots.