

Web3D Consortium



Versar and Web3D Strategic Partnership Meeting

15 December 2020

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Web3D Consortium
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web|**3D**

CONSORTIUM

Unlocking Markets
Enabling Enterprises



Our Standards

**Provide a technology strategy based on
durability, interoperability, and portability**

About Web3D Consortium

- International, non-profit, member-funded, Standards Development Organization (SDO)



- Founded in 1997. Web3D develops and maintains X3D and HAnim ISO-IEC Standards
- Engaging a community of technologists, enterprises, and artists
- Members span Academia, Industry, Government, and Professionals



www.web3d.org

Web3D Consortium Goals

Enable enterprises and industry with open 3D standards

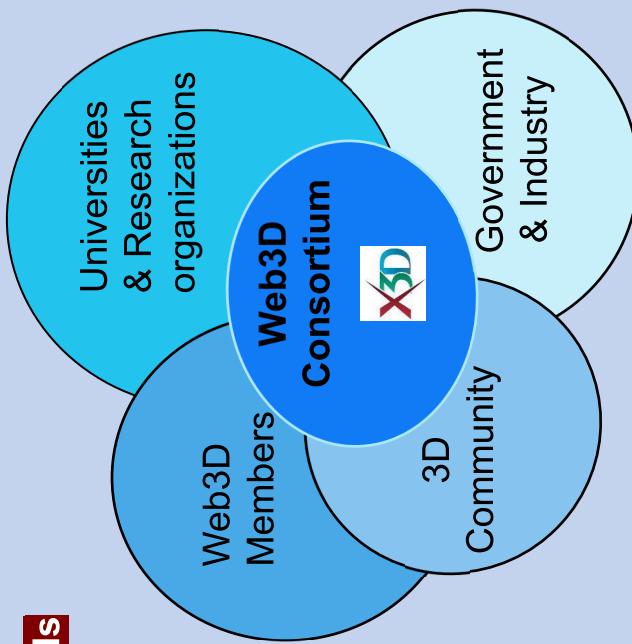
Provide a vehicle for the creation of open standards for 3D the Web, and to integrate these standards and resources for outreach, advocacy, and education

Empower 3D/VR Developers

Guide Policy Makers

Helping consumers and developers understand 3D technologies and to make informed decisions when choosing the right technology for their business needs.

www.web3d.org/about



Web3D Standards



X3D
File Format and
Rendering Engine



HAnim
Humanoid Animation



Version 4.0 now a Public Draft

Integrates X3D and glTF, HTML5,
WebAudio, Shadows, PointProperties

Web3D Member Ballot next 45 days,
then ship to ISO/IEC

**X3D standards and HANIM
Ratified by
ISO/IEC JTC 1/SC 24 WG 6**

www.web3d.org/standards

About Extensible 3D (X3D)

- Open, certified ISO-IEC Standard
- Royalty-Free
- Evolutionary since 1997
- Durable : Forward Compatible
- Interoperable : across applications
- Portable: Multi-Platform

- X3D is next generations VRML, offering robust 3D functionality for 3D scenes across a wide variety of applications
- X3D has strong interoperability with other industry standards
- X3D Provides long-term stability for 3D content and solutions

www.web3d.org/about



Next Generation VRML



X3D: Publishing 3D with interactivity

A Presentation layer

You need a higher-level language like X3D to compose several 3D assets into a meaningful 3D interactive Web application.

X3D provides the best presentation layer when combining 3D models, 3D tiles, Point clouds, Smart Game Format (SGF) and more into one system.



www.web3d.org/x3d/why-use-x3d

The Web is our platform:

X3D Anywhere



- **3D + VR + AR Capable**
- **Runs on multiple devices** (Phones, tablets, desktops, caves)
- **Used across multiple domains** (Medical, Geospatial, 3D printing/scanning, CAD and more)
- **Interactive 3D**
- **Animation**
- **WWW**

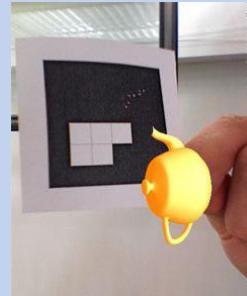
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X3D Use Cases

X3D Anywhere



Augmented Reality



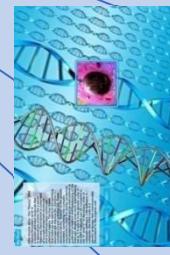
Gaming



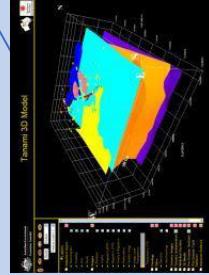
Cultural Heritage



Education



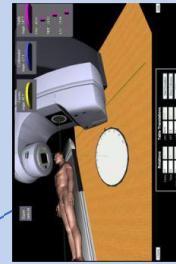
Geo Visualization



Enterprise



Medical



E-commerce



Mirror Worlds



Virtual Worlds

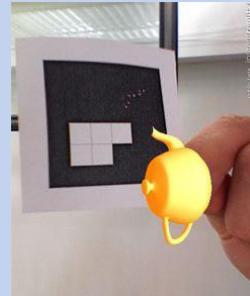


X3D Use Cases

X3D Anywhere



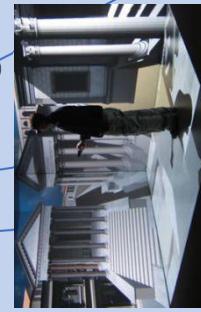
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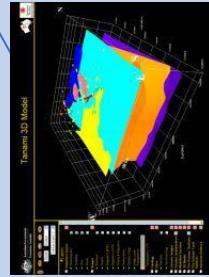
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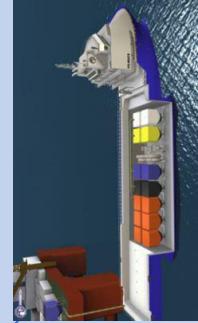
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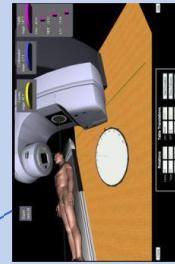
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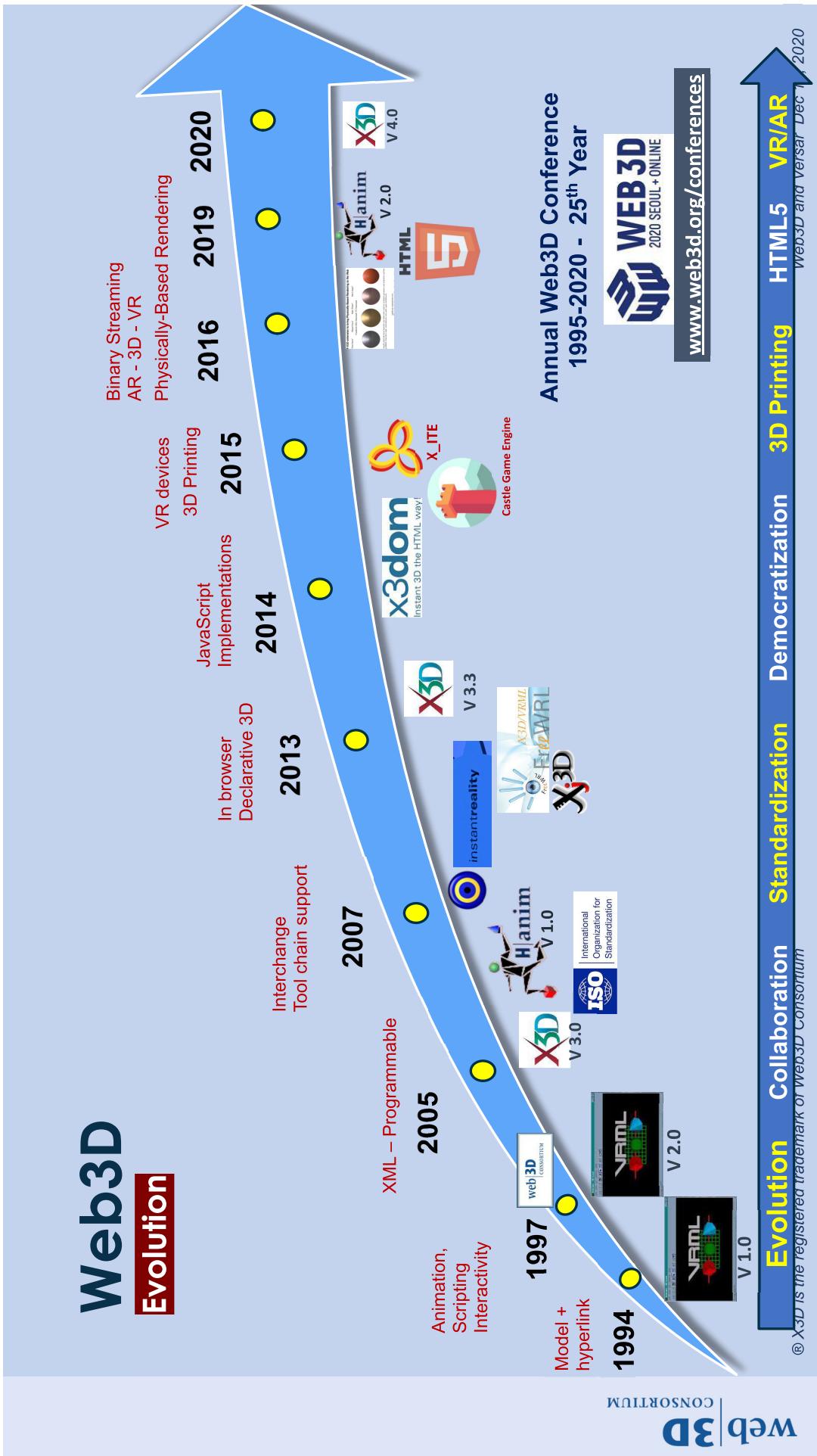
Mirror Worlds



Virtual Worlds



Web3D Evolution



Web3D is a Community Effort

Members and volunteers work together on Standards

**Developers · Designers · Educators · Consultants
Researchers · Clinicians · Hobbyists**



Web3D Working Groups:

- X3D
- Humanoid Animation (HAnim)
- Medical
- Geospatial
- Mixed Augmented Reality (MAR)
- Cultural and Natural Heritage
- X3D Semantic Web
- Design Printing & Scanning
- Web3D User Experience (Web3DUX)

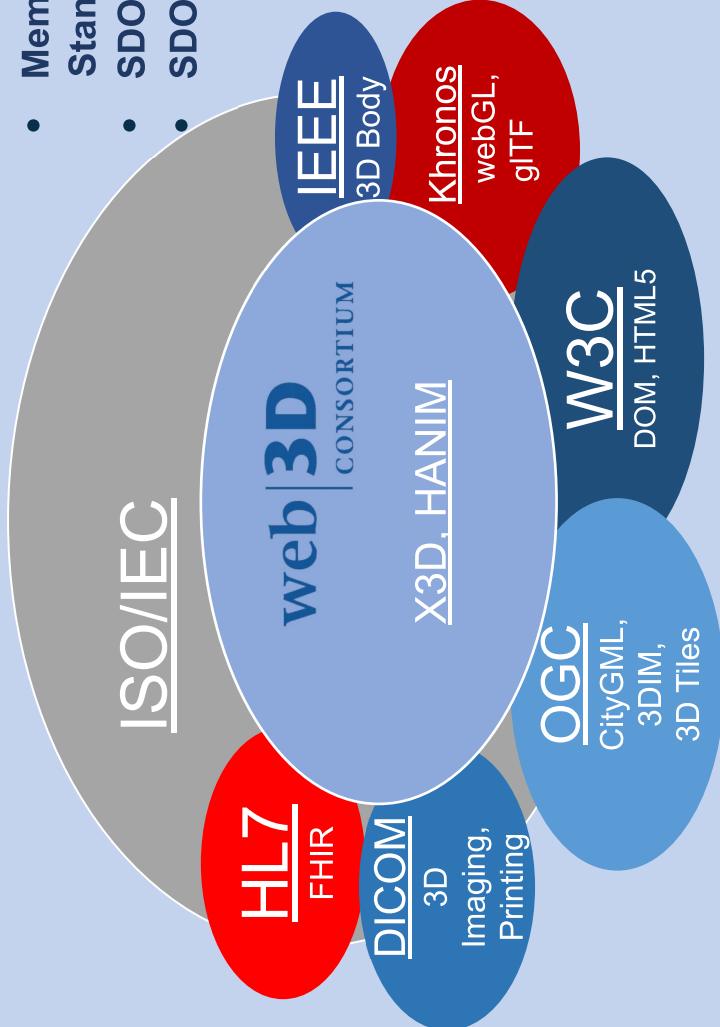


www.web3d.org/working-groups

Web3D Collaborates

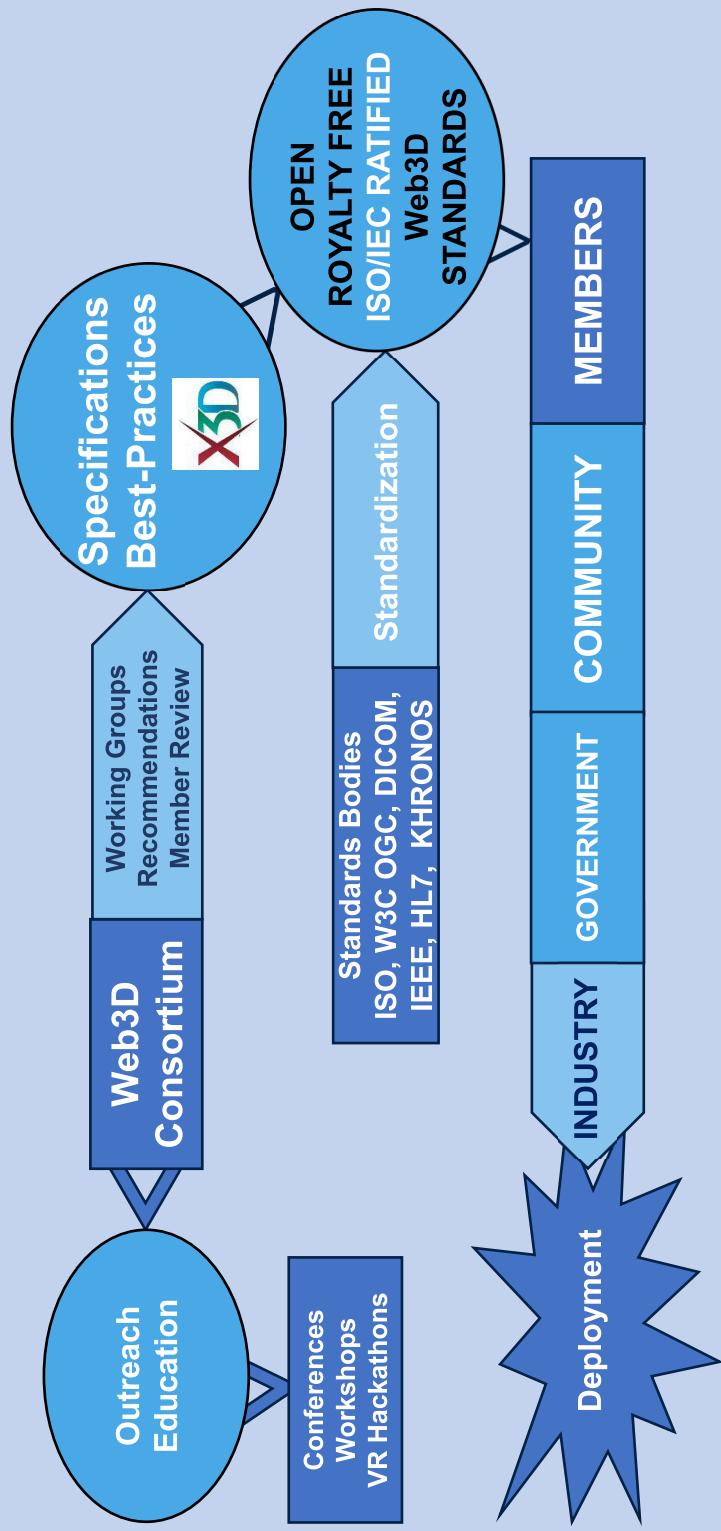
Standards Development Organization Collaboration

- Membership sharing between Web3D
- Standards Development Organization (SDO)
- SDO Working Group participation
- SDO joint work opportunities



www.web3d.org/about/liaisons

Bringing open Web3D Standards to All



www.web3d.org/working-groups

Versar Directing Membership Benefits



Marketing Opportunities	Business Opportunities	Drive Web3D Standards	Networking Opportunities	Web3D Talent Bank
<ul style="list-style-type: none">▪ Promote products▪ Promote Services▪ Speaking Opportunities▪ Conference participation▪ Booth partnership	<ul style="list-style-type: none">▪ Business partnership▪ Joint grants▪ SDO Partnerships	<ul style="list-style-type: none">▪ Working Group participation▪ Early access to standards▪ Board Seat	<ul style="list-style-type: none">▪ Industry Leaders▪ 3D Research Experts▪ 3D companies	<ul style="list-style-type: none">▪ Access to Web3D experts▪ Lesson Learned▪ Proven Use cases

There are many benefits to joining Web3D Consortium as we build open interactive 3D standards

Why Participate in Web3D?

Learn and collaborate with peers, customers, competitors, and potential partners

Influence new standards in ways that matter to your business

Support Web3D's vision by becoming a member

www.web3d.org/join



Why a Web3D Directing Membership?

1. **Get immediate access and influence on development of new Web3D standards**
 - a. Develop new specifications; Vote on standards
 - b. Join or lead Working Groups
 - c. Submit new technologies and use cases
2. **Show the industry you are the leader making interoperable 3D a reality**
 - a. Directing Members drive strategy and initiatives through a seat on the Board of Directors
 - b. Serve as an official Web3D Liaison with other SDOs
 - c. Access Industry-wide perspectives to make informed strategic decisions
3. **Build long-term value and community**
 - a. Partner with other members and speed time-to-market
 - b. Learn lessons and best practices from industry leaders
 - c. Partner with members on external marketing, proposals, and projects

Convergence

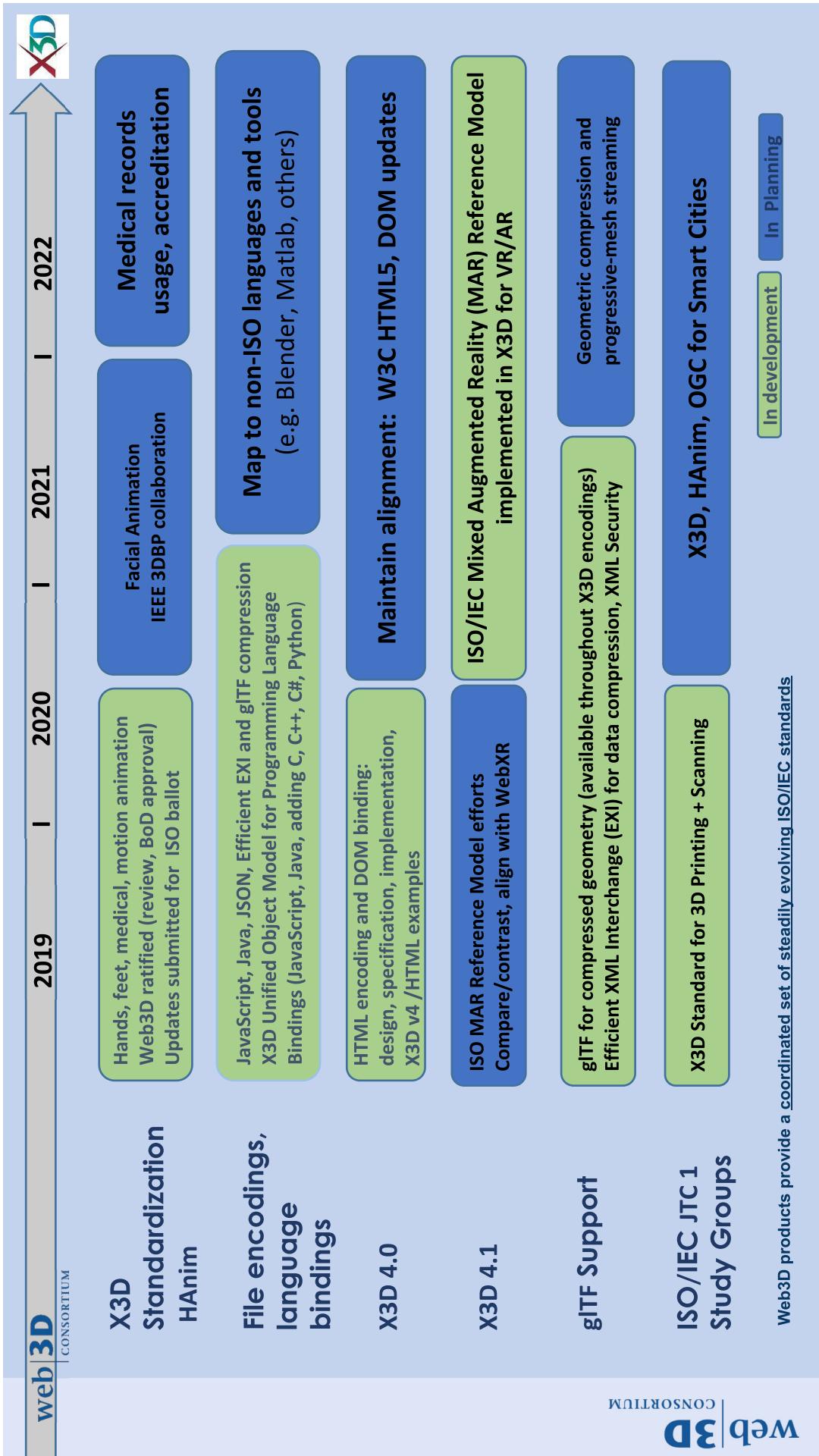
Take aways:

1. Current opportunity in a full, open technology stack that cuts-across vertical markets for long-term stability
2. Leadership in Web3D Standards technology brings client confidence in roadmaps and investment
3. There is customer appetite for non-proprietary, durable solutions that can save \$ across the enterprise and lifecycle
4. Decades of success stories show how extending X3D enables innovation to meet new application needs

Web3D Forward

To achieve our goal of X3D Everywhere, we will continue our multi-pronged strategy:

1. Continue technical Excellence and Open platforms
2. Pursue visible leadership in the international media ecosystem
3. Advocate for adoption, deployment, and procurement across sectors
4. Increase Web3D membership and partners



Web3D 2021 Events



Web3D 2021 – Hybrid (In-person and virtual)

Tentative Dates – October 2021

Pisa, Italy – Hosts: Institute for Information Science and Technologies (ISTI, CNR Italy).

<https://web3d.siggraph.org>



Virtual SIGGRAPH 2021

<https://s2021.siggraph.org/conference/>

Web3D 2021 Webinars

Continued X3D Education

www.web3d.org/webinars

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WEBINARS

web3D CONSORTIUM

Join Web3D and Participate!

Join us in building Open 3D



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Join us to build open interactive 3D standards

[**www.web3d.org/join**](http://www.web3d.org/join)

Web3D Resources

- About:** www.webx3d.org/about
- Membership:** www.web3d.org/join
- Learn X3D:** www.webx3d.org/learn-x3d
- Web3D Standards:** www.web3d.org/standards
- Work Groups:** www.web3d.org/working-groups
- Case Studies:** www.web3d.org/case-studies
- Workshop:** www.web3d.org/Web3d-quickstart
- Examples:** www.web3d.org/x3d/content/examples/Basic
- News & Events:** www.web3d.org/news-events