Open Geospatial Consortium

Geospatial and the Metaverse



Nadine Alameh, Ph.D.
OGC CEO & President
nalameh@ogc.org

March 7 2023

Maps

Buildings

Cities (Digital Twins)

Roads

Underground Infrastructure



Indoor maps

Weather info

Ocean modeling

Remote Sensing – Satellite Imagery

Science data: water, soil, air, etc

Open Geospatial Consortium



EVERYTHING

HAPPENS IN SPACE & TIME

Open Geospatial Consortium

OGC
Making geospatial information Findable Accessible Interoperable & Reusable (FAIR)

Geospatial → EVERYONE

We are lowering the barriers for EVERYONE to be able to create value from geospatial

Open Geospatial Consortium

The Open Geospatial Consortium (OGC)

community – standards - innovation



230+ members from industry

120+ government agencies

185+ universities & research orgs

70+ standards

100+ working groups

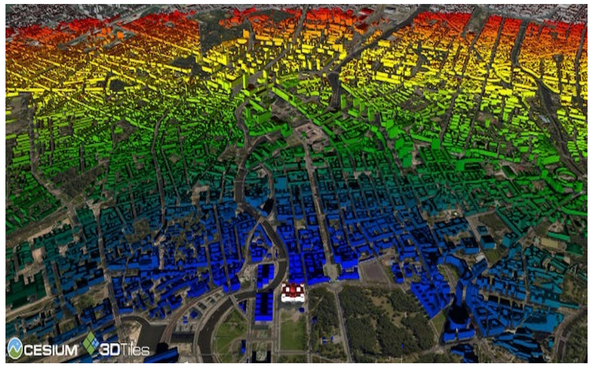
Open Geospatial Consortium

ALL THINGS 3D

3D TILES / I3S / GEOVOLUMES API / CITYGML /INDOORML

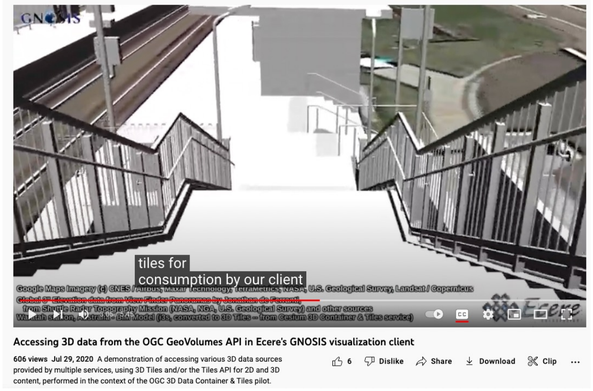
3D PORTRAYAL / WEB MAP TILE SERVICE













http://www.ogc.org/docs/is

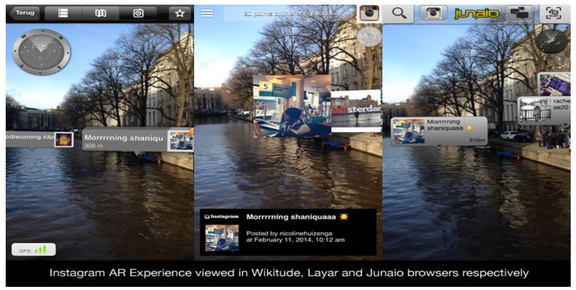
Open Geospatial Consortium

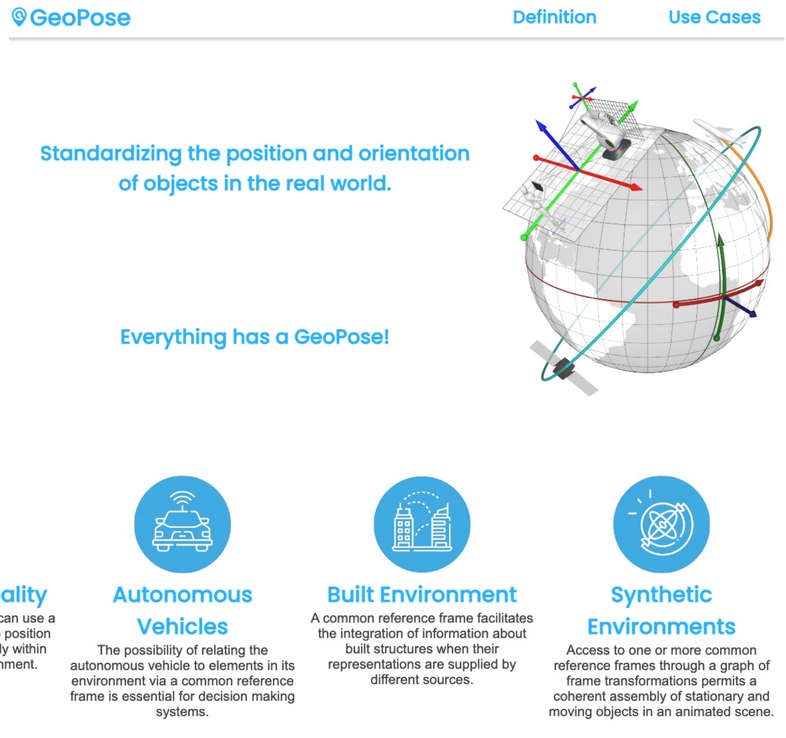
MODELING THE WORLD

CITYGML / INDOORML/ INFRAGML/ WATERML /PIPELINEML/ UNDERGROUND (MUDDI) / ARML / GEOPOSE





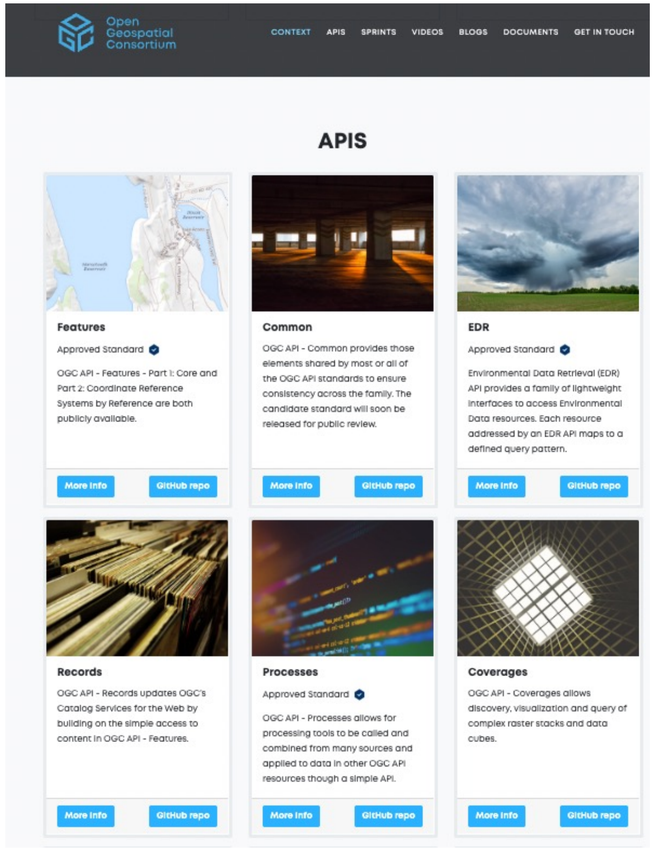


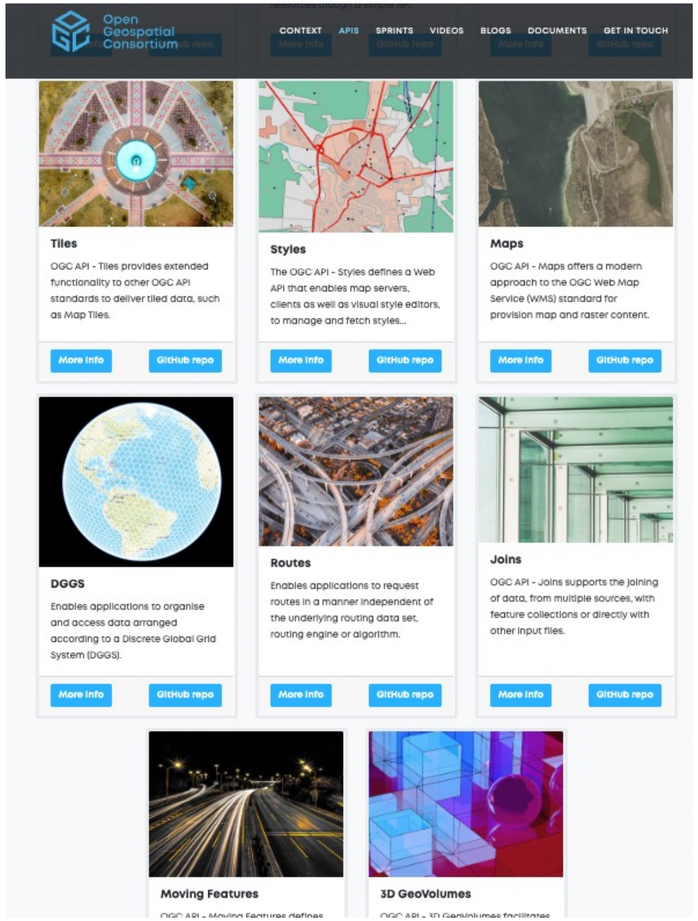


http://www.ogc.org/docs/is

Open Geospatial Consortium

APIS – MAKING DATA FINDABLE ACCESSIBLE INTEROPERABLE REUSABLE (FAIR)



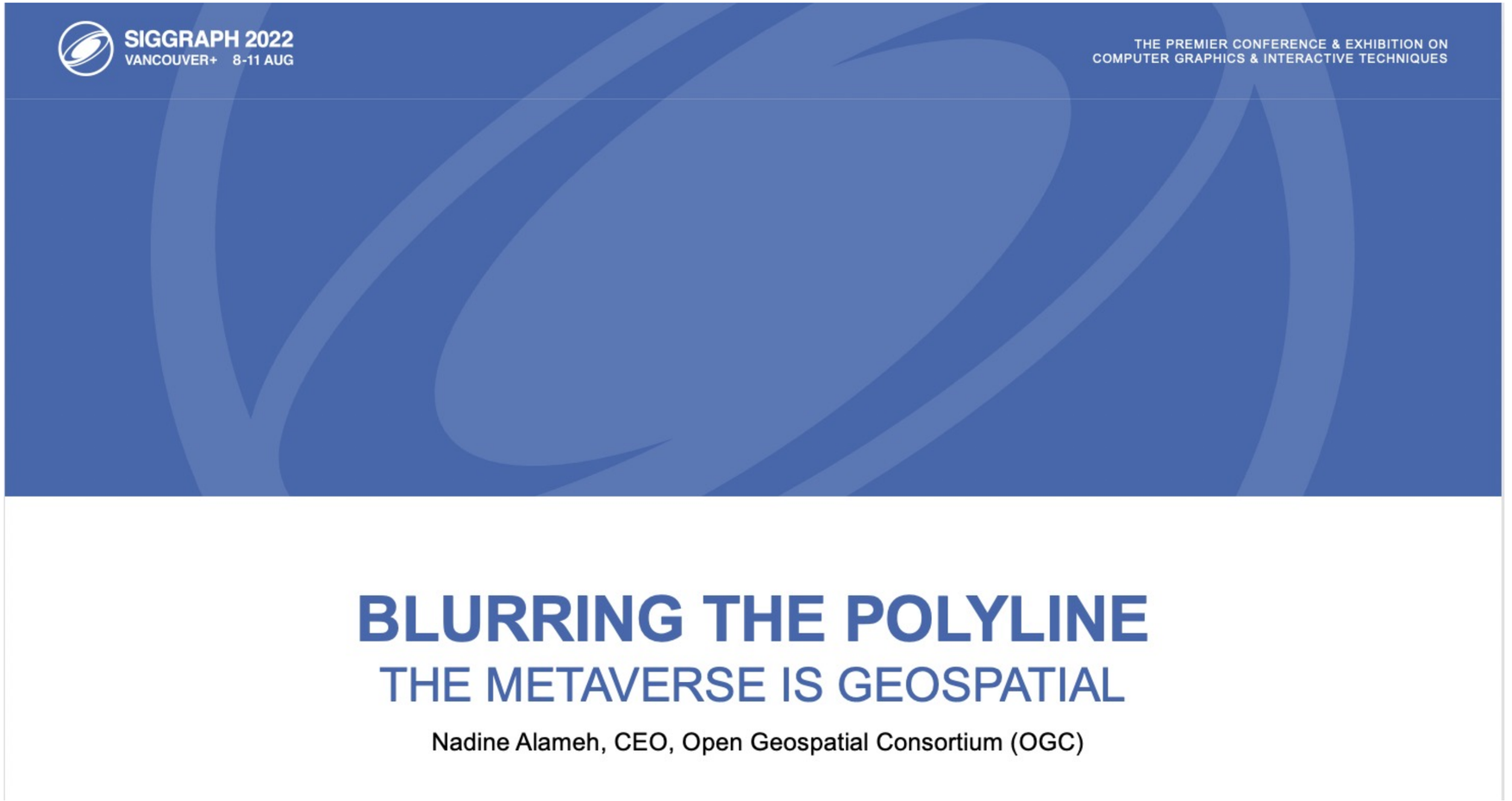


https://ogcapi.ogc.org

Open Geospatial Consortium

How does it all come together?





https://cesium.com/building-the-open-metaverse-siggraph-2022

Open Geospatial Consortium

The metaverse is geospatial but



- No one can do it alone => standards & collaboration
- Let’s not reinvent the wheel => standards & interoperability
- This is not a one-time thing => standards & experimentation

Open Geospatial Consortium

Metaverse Standards Forum

A Venue for
Cooperation between
Standards Organizations and Companies to
Foster the Development of
Interoperability Standards for an
Open and Inclusive Metaverse

Metaverse
STANDARDS FORUM™

June 2022 - 37 Founding Organizations

Metaverse Standards Forum – © Copyright 2022 This work is licensed under a Creative Commons Attribution 4.0 International License



Thank You

Community

500+ International Members
110+ Member Meetings
60+ Alliance and Liaison partners
50+ Standards Working Groups
45+ Domain Working Groups
25+ Years of Not for Profit Work
10+ Regional and Country Forums

Innovation

120+ Innovation Initiatives
380+ Technical reports
Quarterly Tech Trends monitoring

Standards

65+ Adopted Standards
300+ products with 1000+ certified implementations
1,700,000+ Operational Data Sets
Using OGC Standards

Save the dates

- **March 21 – GeoAI Roundtable (virtual)**
- **Week of June 5 (Hunstville, Alabama, USA)**
- **Week of Sep 25 (Singapore)**

Dr. Nadine Alameh

nalameh@ogc.org

@nadinesa

https://www.linkedin.com/in/nadinealameh

https://www.ogc.org/pressroom

Copyright © 2021 Open Geospatial Consortium