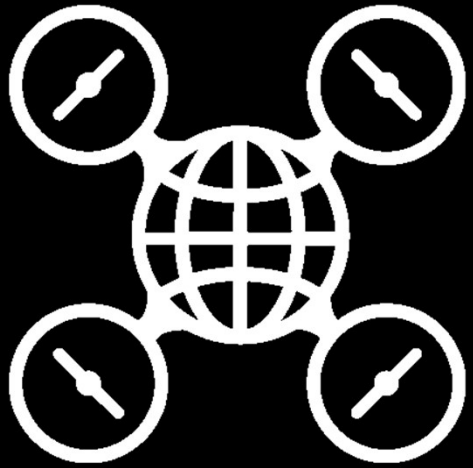


OpenDroneMap

And the business case for free and open source
licensing and global commons

Stephen Vincent MATHER

GIS Manager, Cleveland Metroparks



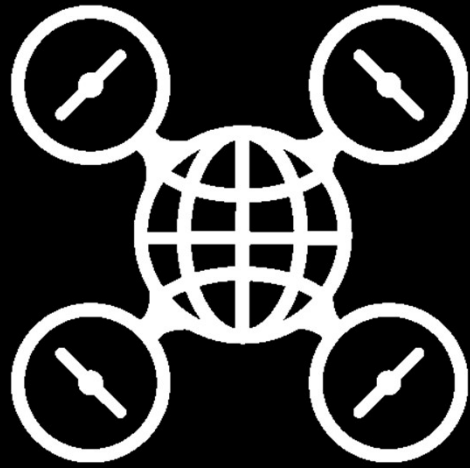
OpenDroneMap

And the business case for free and open source
licensing and global commons

Stephen Vincent MATHER

Pixel Shepherd &

Direct Interhuman Pixel Transfusion @ OpenDroneMap



OpenDroneMap

In preparation for the robot takeover.

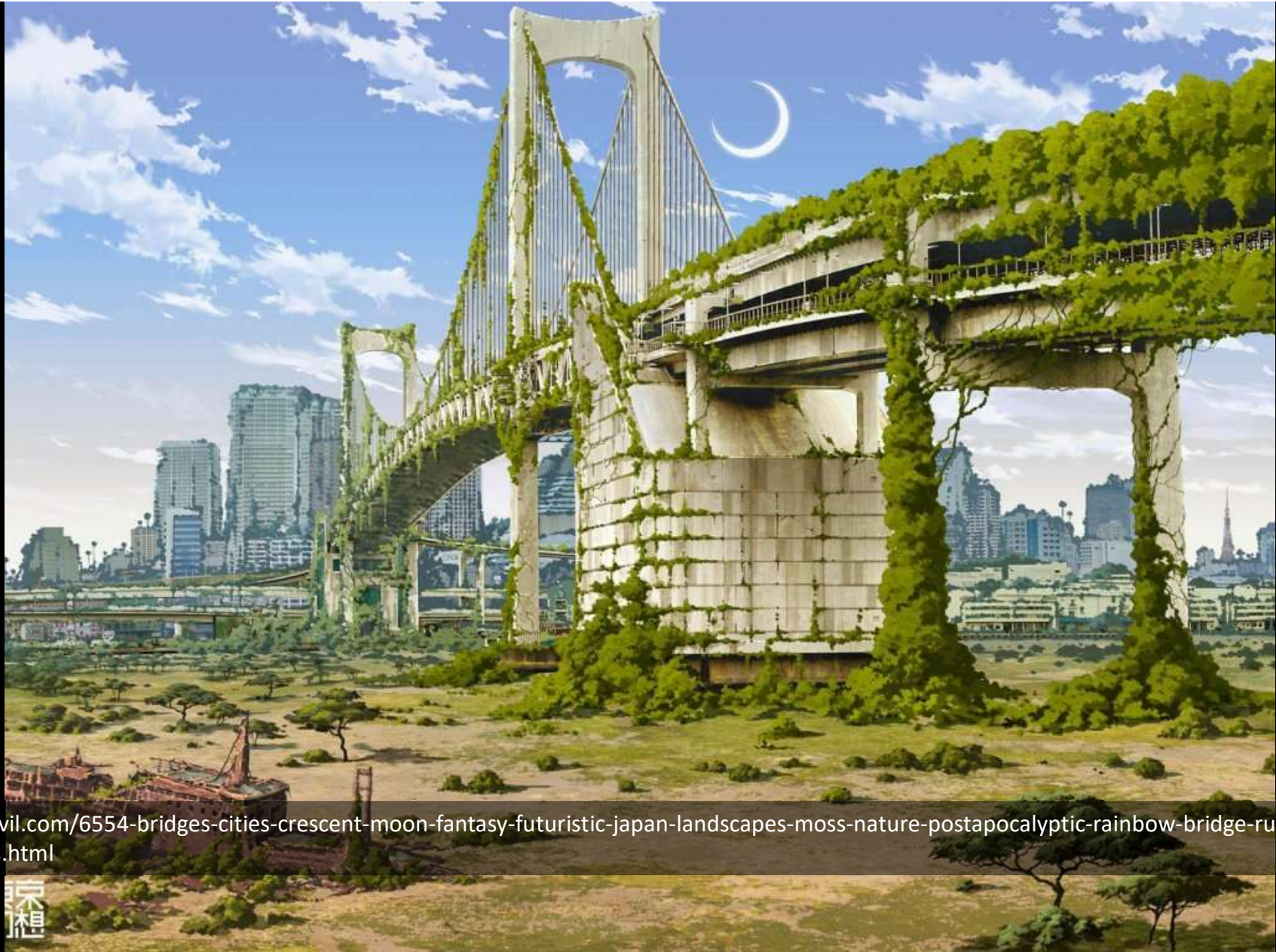
Preparation for Wiley Robot Takeover



<https://imgur.com/gallery/azyruE3>

The Future





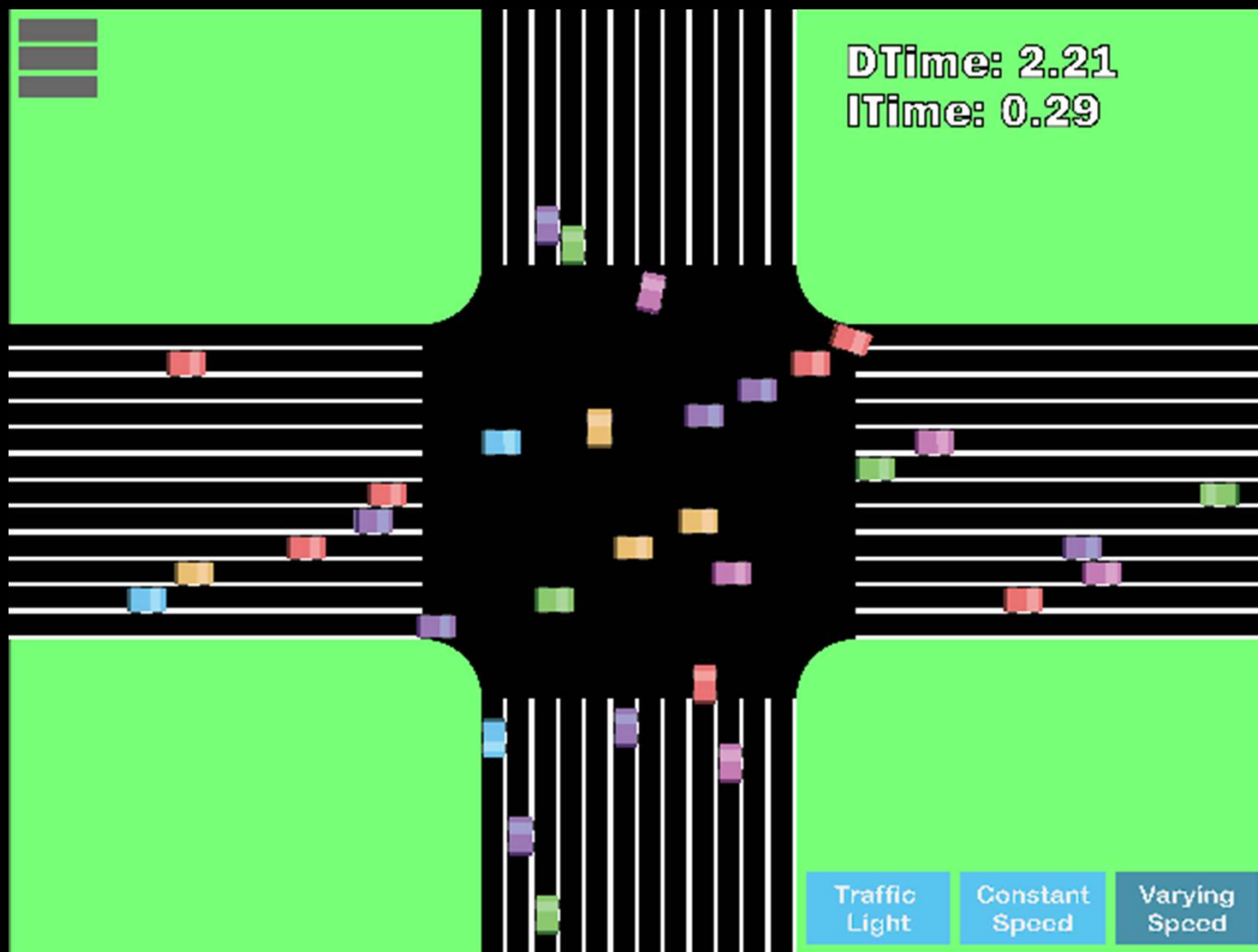
<https://www.walldevil.com/6554-bridges-cities-crescent-moon-fantasy-futuristic-japan-landscapes-moss-nature-postapocalyptic-rainbow-bridge-ruins-ships-tokyo-tokyogenso-vehicles.html>

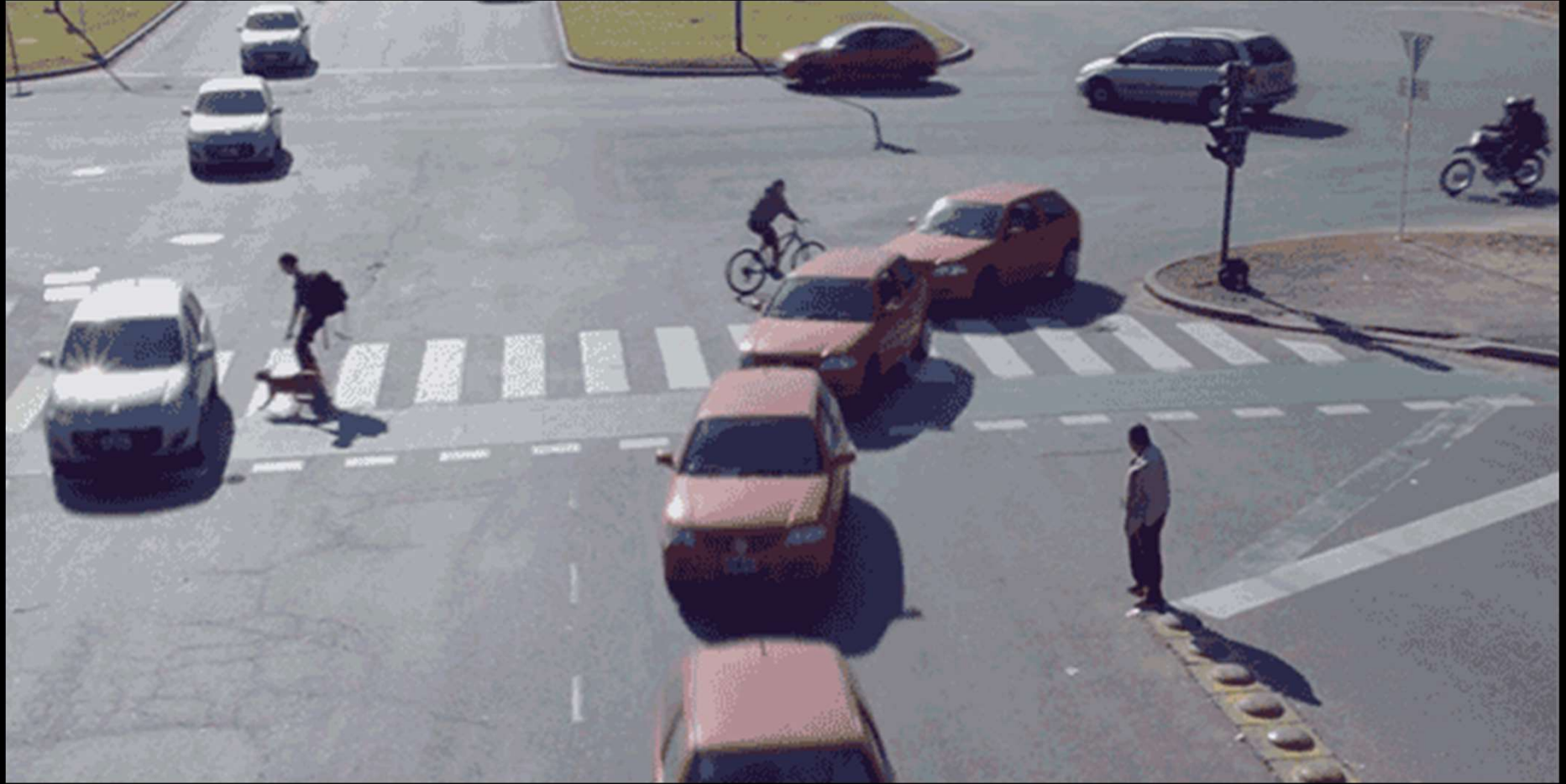


<https://www.archdaily.com/599251/architecture-of-independence-african-modernism/54dabe1be58ecef160000b6-la-pyramide-abidjan>

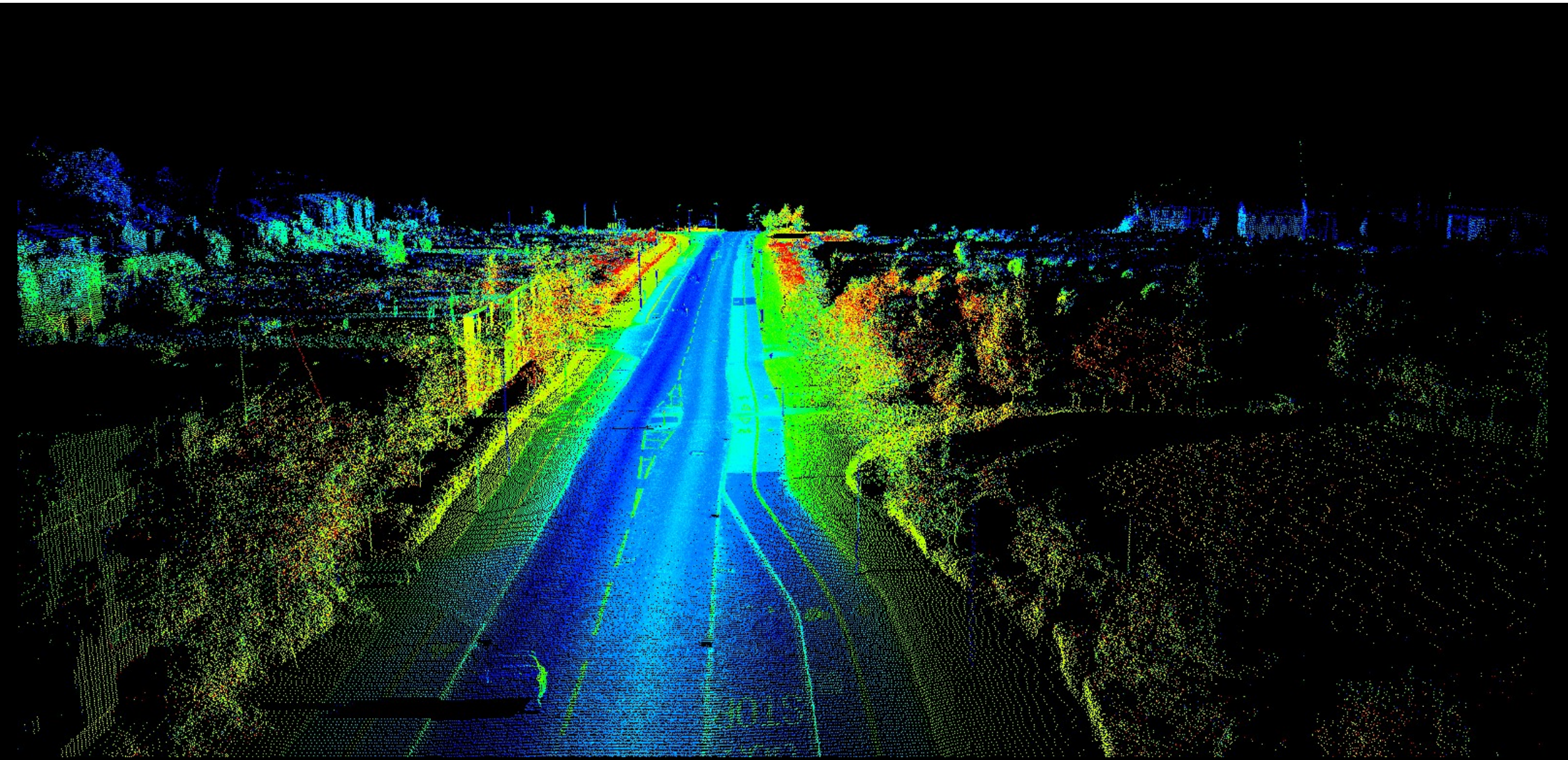


<https://s-media-cache-ak0.pinimg.com/736x/36/a5/e7/36a5e797df79b8ed4931d40dc75c0084.jpg>









<http://www.renishaw.com/media/img/gen/9a5511617ef7479a8d3ddc0917dc5b6d.png>



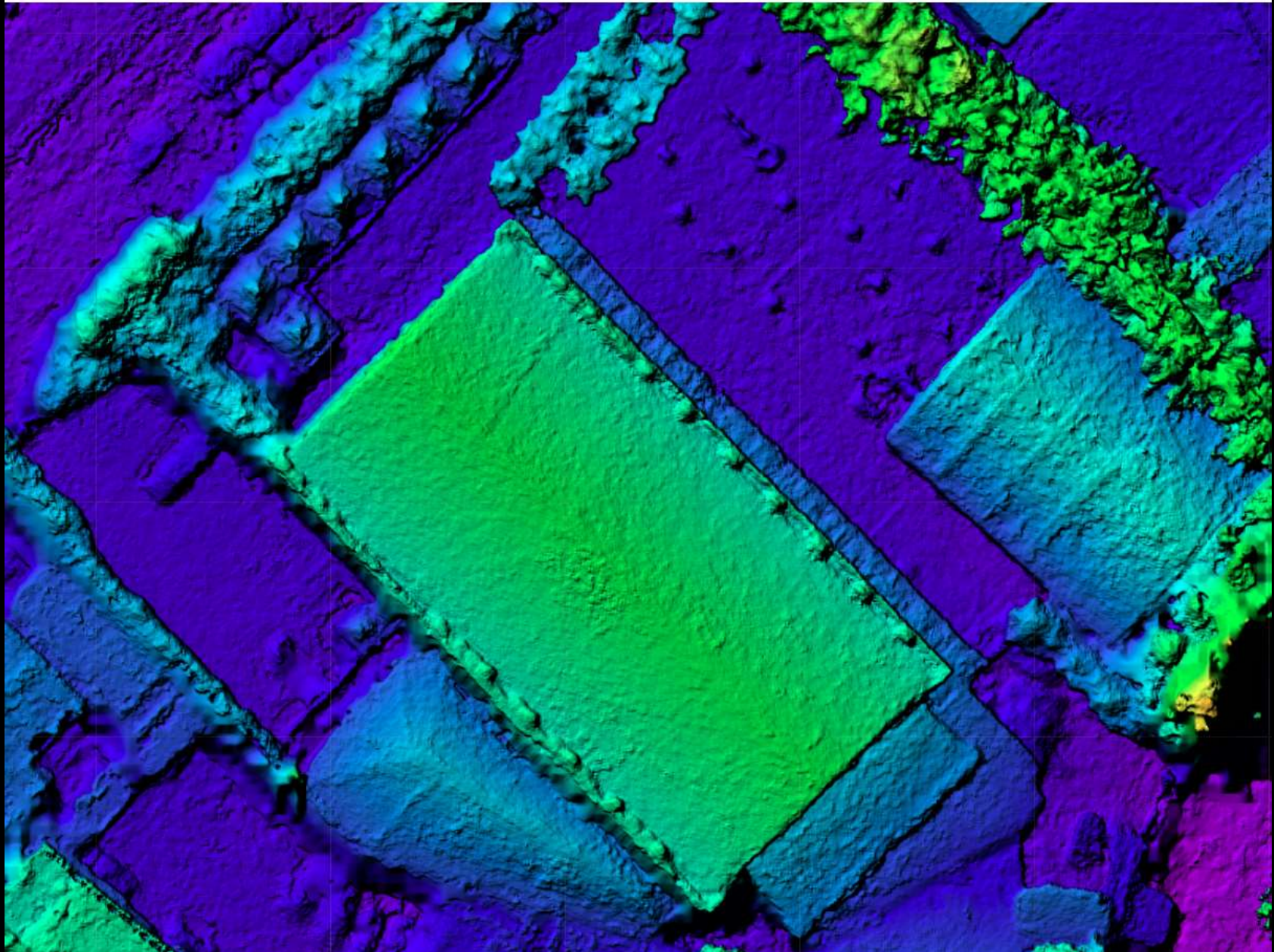
OpenDroneMap is an open source toolkit for aerial drone imagery.

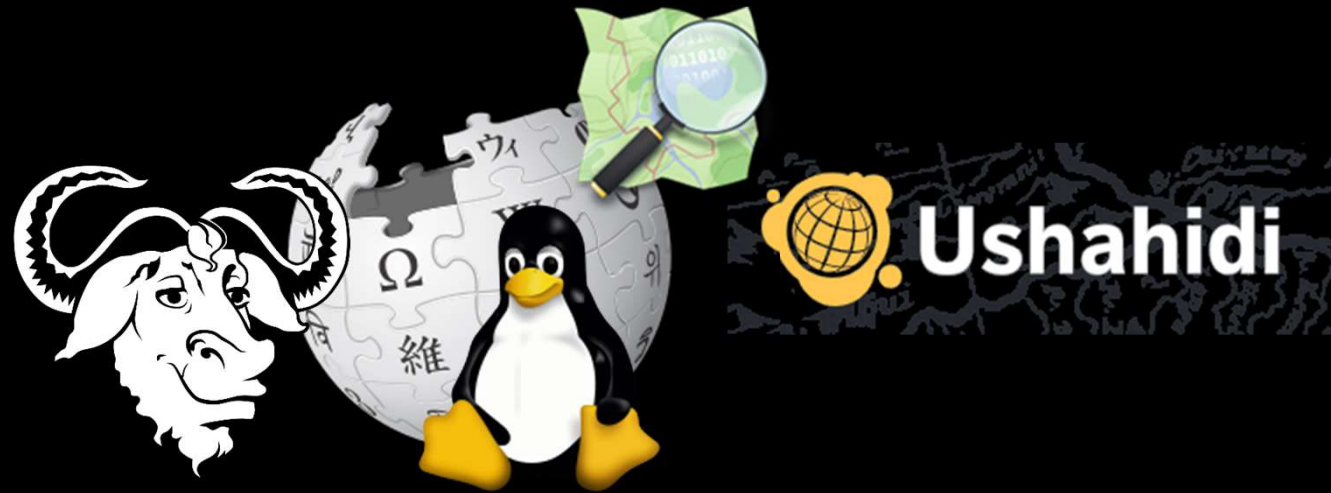
It is modern photogrammetry - fully automated matching, digital surface modelling, and mosaicking

Platform vs. Toolkit







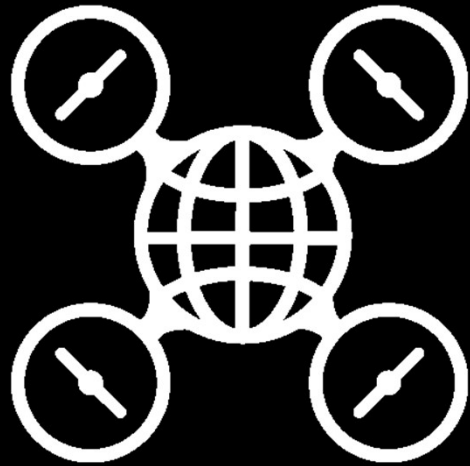


Commons-based peer production

The equation



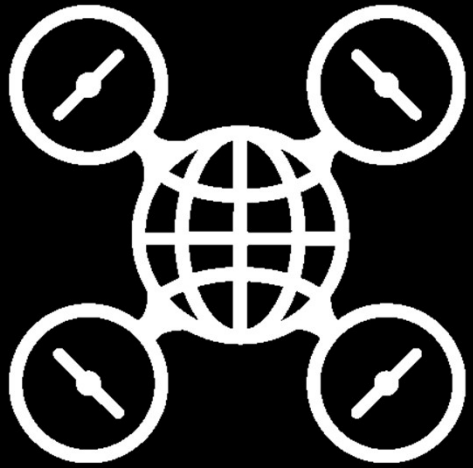
ht: Professor Yochai Benkler



OpenDroneMap

OpenDroneMap is a free and open source toolkit for aerial drone imagery.

It is modern photogrammetry - fully automated matching, digital surface modeling, and mosaicking



OpenDroneMap

And the business case for free and open source
licensing and global commons

What business do we have participating in a commons?

- Putting projects in the commons allows us mechanisms for funding collectively
- Well-resourced digital commons provide a stability that private resources cannot
- Avoiding per license costs gives us legal capacity to scale projects

Putting projects in the commons allows us mechanisms for funding collectively

OpenDroneMap funding and contributions:

- Cleveland Metroparks
- Our FOSS community including Masserano Labs and others
- Humanitarian Innovation Fund
- American Red Cross
- GFDRR and World Bank Tanzania
- ...

Well-resourced digital commons
provide a stability that private
resources cannot



Latest Imagery

Check out the most recent imagery uploaded.



Date: **November 21st 2019**
Provider: **WebODM**
Resolution: **2.00 cm**




Date: **November 19th 2019**
Provider: **topomax.ru**
Resolution: **1.87 cm**



Date: **November 20th 2019**
Provider: **WebODM**
Resolution: **5.00 cm**

Edit feature

 **Building** i

Zoom to this

All fields

Name i

Latrille Events +

Building i

yes v

Levels i

2, 4, 6... v

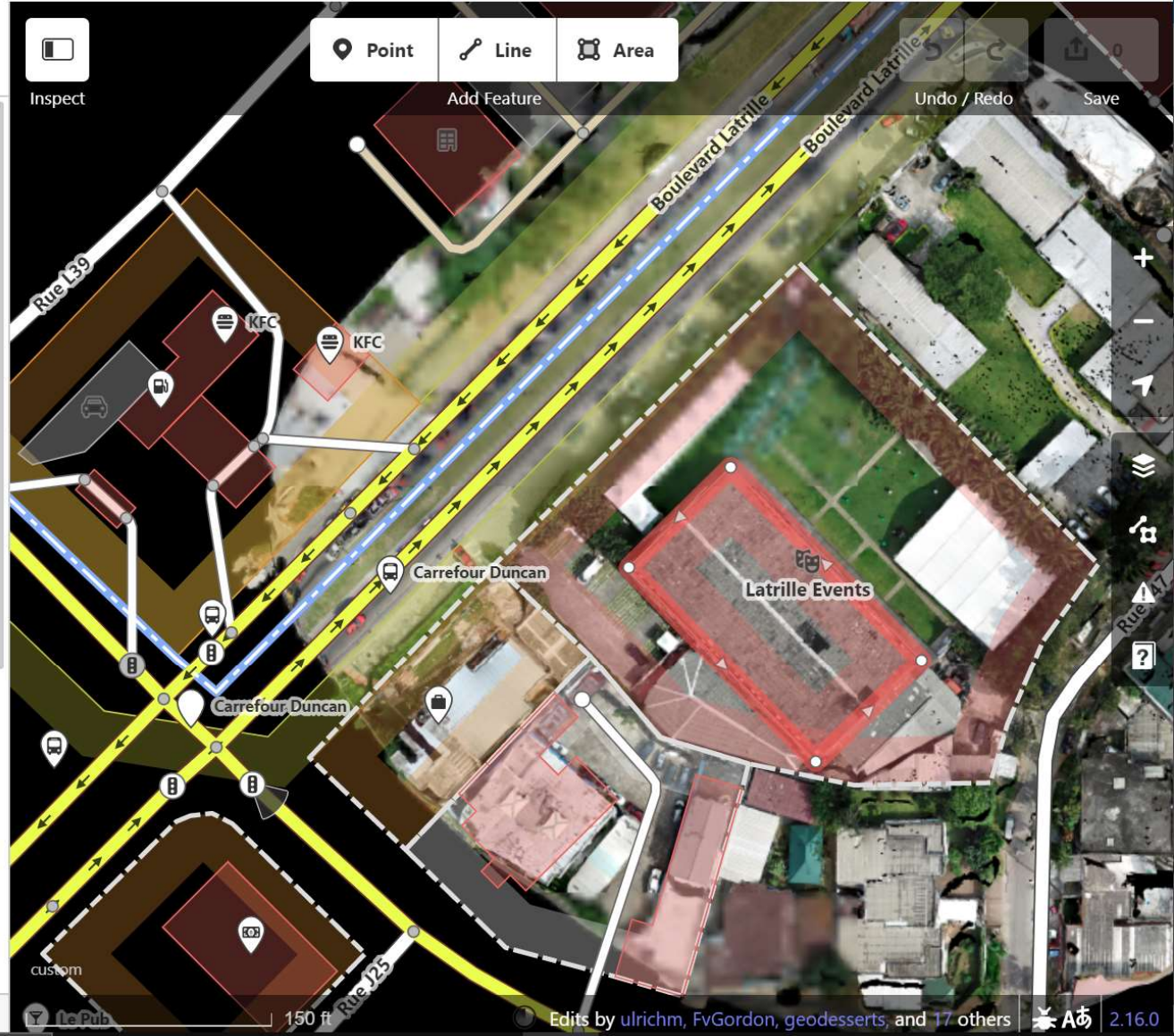
Height (Meters) i

Unknown v

Address i

123 Street v

City v Postcode v



Point Line Area

Inspect

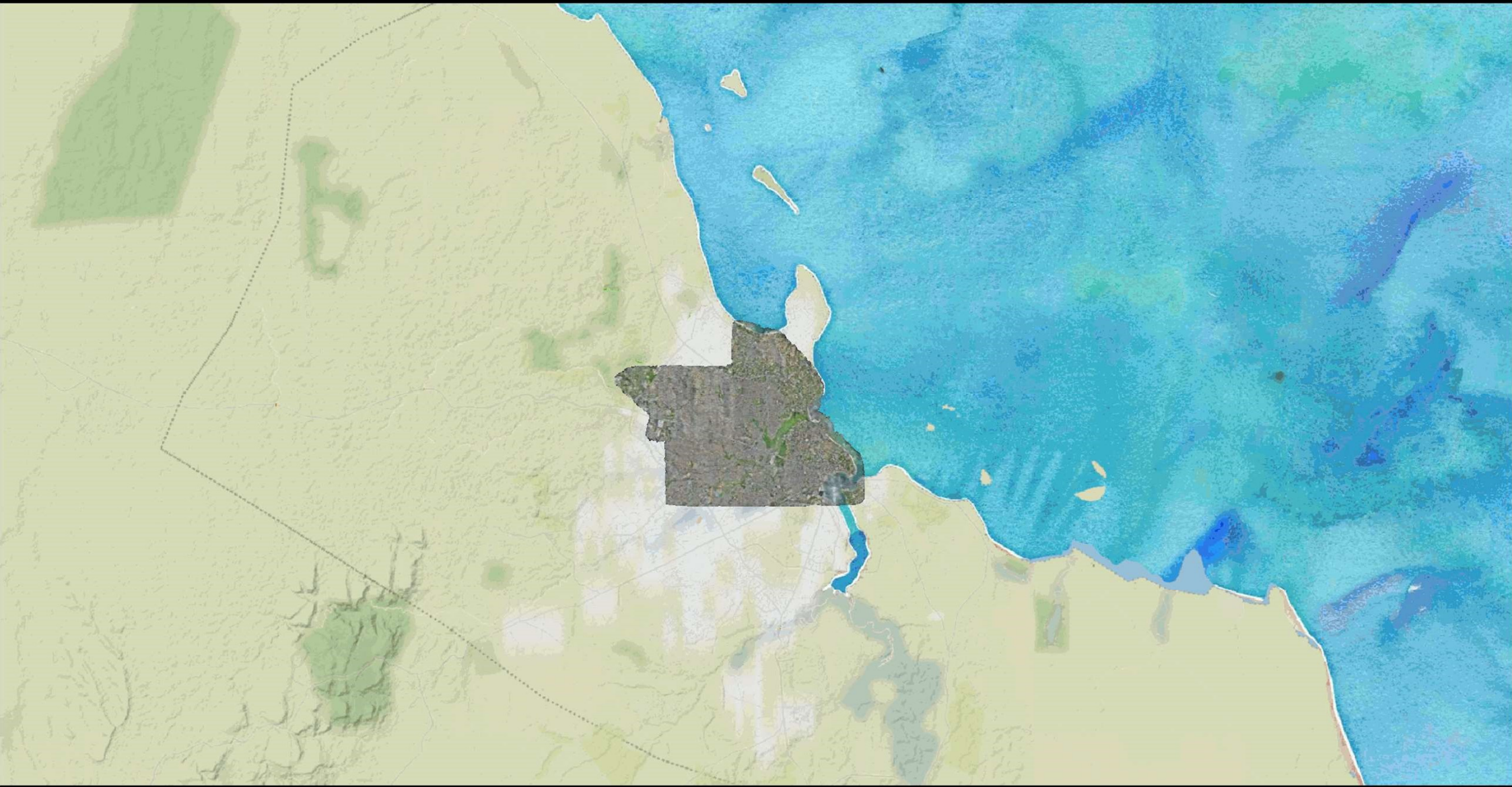
Add Feature

Undo / Redo Save

• Fly → process → share → digitise



Avoiding per license costs gives
us legal capacity to scale projects

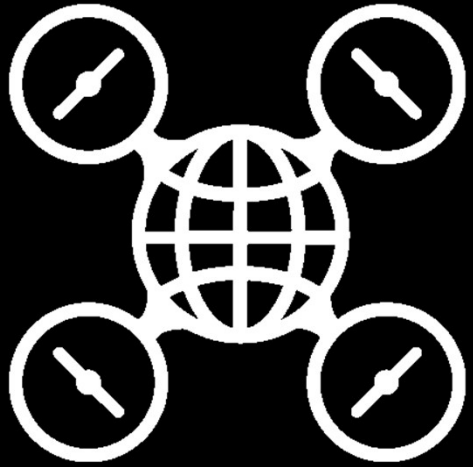


What business do we have participating in a commons?

- Save / pool \$\$\$
 - Putting projects in the commons allows us mechanisms for funding collectively
- Guarantee the future
 - Well-resourced digital commons provide a stability that private resources cannot
- Go big
 - Avoiding per license costs gives us legal capacity to scale projects

(How do I use OpenDroneMap?)

- Download and install from OpenDroneMap.org
- Use at <https://webodm.net>
- Contact freddie@uhurunet.com and use at <http://zamren.uhurulabs.org:8000/>



OpenDroneMap

And the business case for free and open source
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