'open' geospatial





'open' minds spuim 'uədo,



kill the company

- an exercise where employees try to poke holes in the organization
- putting yourself in the competition's shoes and analyzing how to sink the company

....and as a result, you expose the things that are holding the company back

kill the company

esri exits the picture (or more plausible, esri permanently suspends agrc)

steal paid projects

decentralize gis in state government

automate data aggregation

route 911 funding elsewhere

steal TURN GPS subscribers

Permanent suspension of @realDonaldTrump

By Twitter Inc. Friday, 8 January 2021 y f in 8

There's a world of GIS outside of the box













The world of 'open' geospatial

'free' and 'open source'

freedom to use, freedom to modify, and freedom to share the modifications

free as in freedom (or puppies)

freedom has a cost



upkeep, contributions, the idea of playing (or paying) a role to make it better

the investment of time = invested users = greater user control



□ + ♡

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The world of 'open' geospatial

access to source code

- public domain
- audit and modify

benefits include...

- prevents vendor lock-in
- promotes secure software
 - 'secure' software can be decompiled, potentially exposing sensitive information
- improved quality
 - incentive to do best work

"Publishing government software as open source has many benefits with no drawbacks." Waldo Jaquith





The world of 'open' geospatial: standards

'open' standards

- interoperable
- vendor-neutral
- data-neutral
- publicly available
- no license fees
- unencumbered by patents and other intellectual property





The world of 'open' geospatial: data

'open' data

- free to use (public domain)
- welcomes collaboration
- data use = better data
 - OSM















So then, how does esri maintain customers?

- government: local, state, and federal
- academia: secondary and higher education
- brand (think Tylenol)
- corporate procurement practices
 - vendor liability
 - customer support
- licensing strategy
 - Enterprise Licensing Agreements (ELAs)
 - negates the idea of 'free' alternatives
- network effect (talkative customers)
 - ESRI UC ~18k | International FOSS4G ~1k
- breadth of offering & partner network
 - 1,600+ partners

"The open source software movement, while formidable, is objectively not disrupting Esri's core business, nor in my opinion is it threatening to any time soon." - Joe Morrison





ndless

keep your options 'open'

- hybrid model is the best approach
 - aka, a diversified portfolio (ELA)
- comply with open standards --> interoperable
- pick and choose solutions in the open geospatial ecosystem
 - blending open and proprietary



keep your options 'open'

blending open proprietary

open source

- grass-roots user control
- the code lives on (work with the existing source code or an established fork)
- free (as in puppies)
- outside of the monopoly

proprietary

- vendor liability
- neatly cataloged and packaged solutions
- centralized documentation
- customer support
- fairly stable environment

open ecosystem at agrc - closing some gaps

quick wins

- serve WMS/WFS layers (alongside our esri hosted feature services)
- make SGID available in Google's BigQuery public datasets program

larger-effort wins

- discontinue the use of attribute domains where value <> desc
- run sweeper on automated schedule
 - add more interoperable-data checks such as attribute-domain validation check
- expand our collaborative editing efforts
- public feedback mechanism for submitting data issues (spatially) [we have chalkdust]
- integration with OSM