Open Source for STDM

GLTN
GLOBAL LAND TOOL NETWORK

Why Open Source?

- License and usage
- Professionality
- Scalability
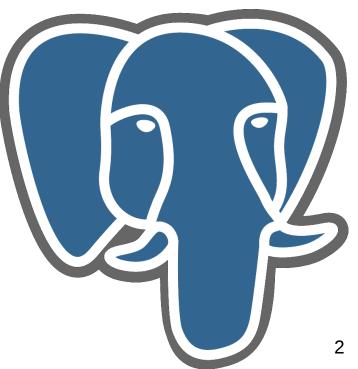- Stability
- Cost
- ...

Open Source: Unrestricted Use

- Use of Open Source software is unrestricted.
- Unrestricted for testing, prototyping, and operation!
- Now and tomorrow and for decades to come.
- On as many machines you want or need. With as many CPU cores you may desire.
- Unlimited
- Unrestricted

Open Source is Professional

- The Internet would not exist without Open Source.

- Open Source is used by all(!) big businesses.

- Google, eBay, Amazon, Facebook, Twitter, Instagram, Zalando, Uber, Skype,

  Name them ...

- They would all not exist as they do now – without Open Source!

Open Source is Secure

Code is open for scrutiny, customization and improvement.

The 2003 MITRE study, "Use of Open Source Software in the U.S. Department of Defense", [...] concluded that OSS "plays a more critical role in the [Department of Defense (DoD)] than has generally been recognized".

FAQ by the U.S. Department of Defense:
http://dodcio.defense.gov/Open-Source-Software-FAQ/

Open Source is Recommended

U.S. Department of Defense:

- [...] Senior leadership must actively embrace open source software.

- [...] Executives and CIOs should capitalize on the opportunity provided by open source, set specific goals for its integration [...]

From: http://dodcio.defense.gov/Portals/0/Documents/OSSFAQ/dodfoss_pdf.pdf

Spatial Data in Postgresql

Institut Géographique National, France (IGN) stores more then 100 million spatial features in Postgresql and PostGIS.

Case Study: http://postgis.refractions.net/documentation/casestudies/ign/

Ordance Survey Great Britain serves map data using Postgresql, PostGIS and GeoServer. Case study of Open Source GIS in the Public Sector:

Case Study: https://www.ordnancesurvey.co.uk/using-open-source-gis/

Postgresql Scalability

Maximum Database Size	Unlimited
Maximum Table Size	32 TB
Maximum Row Size	1.6 TB
Maximum Field Size	1 GB
Maximum Rows per Table	Unlimited
Maximum Columns per Table	250 - 1600 depending on column types
Maximum Indexes per Table	Unlimited

Source: https://www.postgresql.org/about/

Thank You

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Metaspatial Consulting

http://metaspatial.net/en/stdm/