Why Open Source?

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

PostGIS

QGIS
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".

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 [...] 

Institut Géographique National, France (IGN) stores more than 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.ordinancesurvey.co.uk/using-open-source-gis/
## Postgresql Scalability

<table>
<thead>
<tr>
<th>Maximum Database Size</th>
<th>Unlimited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Table Size</td>
<td>32 TB</td>
</tr>
<tr>
<td>Maximum Row Size</td>
<td>1.6 TB</td>
</tr>
<tr>
<td>Maximum Field Size</td>
<td>1 GB</td>
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<tr>
<td>Maximum Rows per Table</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Maximum Columns per Table</td>
<td>250 - 1600 depending on column types</td>
</tr>
<tr>
<td>Maximum Indexes per Table</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>

Source: [https://www.postgresql.org/about/](https://www.postgresql.org/about/)
Thank You

Arnulf Christl
Metaspatial Consulting
http://metaspatial.net/en/stdm/