The Shape of Things to Come

OSGeo, Persistent Identifiers and the shape of things to come

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Disclaimer

- Due to the time constraint we're keeping this short.

- **No Life of Brian related puns today.**

- **You will get them at FOSS4G 2023**

- Same for 1970s spaceships and robots.

- More next year in Prizren.

- **And now to something completely different..**

Brian

Boring Prophet

https://pbs.twimg.com/media/E54pRrVUUAQ3L0E.jpg

URL are not suitable for scientic reference

- URLs expire when the content they're referring to is moved in the Internet.

- Trying to open an expired URL results in 404 error.

- This is a growing problem for the Web and OSGeo – many URLs from the early 2000s are already dead and gone.

- Trying to find mementos of broken URLs in the Internet Archive is cumbersome

- Anything referenced in a scientific publication should be permanent. URL are not permanent.

Persistent Identifiers (PID) to the rescue
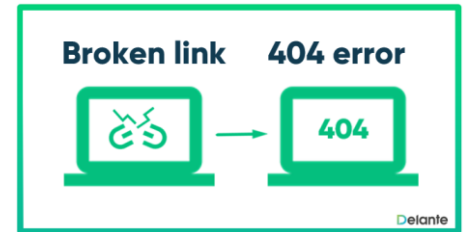
Broken Link Error

WIKIPEDIA
The Free Encyclopedia

„*A **persistent identifier** (PID) is a <u>long–lasting reference</u> to a document, file, web page, or other object.*

The term „persistent identifier" is usually used in the context of digital objects that are accessible over the Internet.

Typically, such an identifier is <u>not only persistent but actionable: you can plug it into a web browser and be taken to the identified source</u>"

ORCID, DOI and ROR are PID for different tasks.

<u>They can be linked and refer to each other.</u>

ORCID: People

DOI: Code, Data, Video

DOI: Publications

ROR: Research Organisation Registry
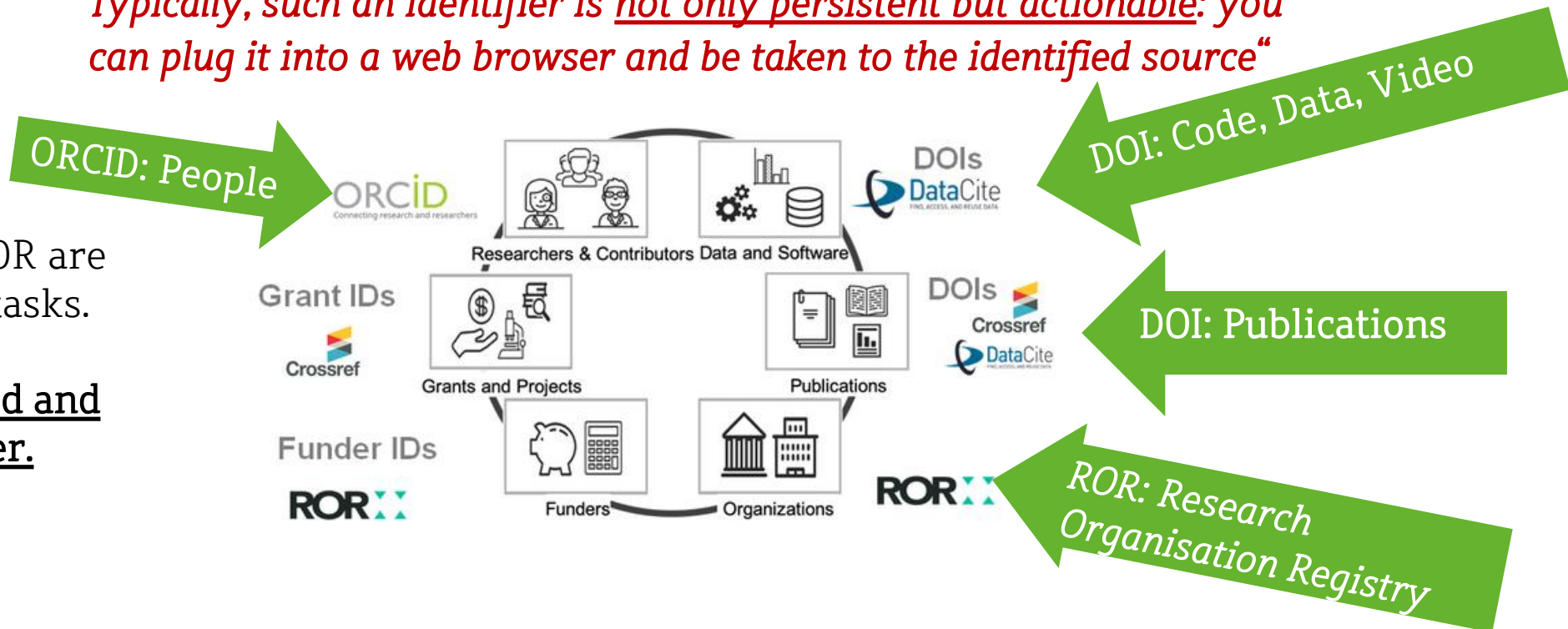
OSGeo is exploring PID

- <u>OSGeo committers</u> include ORCiD in code.

- <u>19 OSGeo Projects</u> have registered doi for their repositories (https://wiki.osgeo.org/wiki/DOI)
  - –> Scientific citation of repos and releases
  - –> Due scientific credit to the committers

- Over <u>**930 hours / 39 days of FOSS4G videos**</u> can be accessed via doi (https://wiki.osgeo.org/wiki/TIB)
  - **NEW**: Access all videos from a FOSS4G through a single DOI.
  - **COMING:** Same for recordings from FOSS4G 2022 (you can rewatch all presentations!)

SMASH

PostGIS

GMT

GDAL

gvSIG

GeoTools

QGIS

GRASS GIS

GeoServer

MapServer

actinia

OSGeo Project MOSS

P R Ø J

Mapbender

OSGeoLive

HortonMachine rasdaman
raster data manager

Springer Handbook of Geographic Information
Kresse Danko Editors

FOSS4G Conferences [edit]

FOSS4G Conference Recordings
FOSS4G 2021 Argentina
FOSS4G UK Online 2020 - Sentinel
FOSS4G UK Online 2020 - Mercator
FOSS4G UK Online 2020 - Nightingale
OSS4G SotM Oceania 2019
OSS4G Bucharest 2019 8249
FOSS4G Europe 2018
FOSS4G SotM Oceania 2018
FOSS4G Boston 2017
FOSS4G Bonn 2016
FOSS4G Seoul 2015
FOSS4G Portland 2014
FOSS4G Nottingham 2013
Open Source GIS - GRASS User Conference Trento 2002

Eternal URLs and digital dogs tags – *Who cares ?*

- We all <u>will</u> care because of the emerging backend infrastructures, standards and <u>funding</u>.

- *Remember the Internet*: Connecting isolated computers to a network was a process and sparked unforseen benefits and services.

- Emerging PID infrastructures enable connectivity and discoverability for metadata and content.

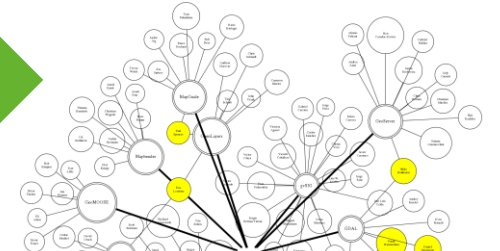- **Your input is needed to shape these things to come.**

Steko.iosa.it/2013/11/the-osgeo-umbrella

2013 → Stefano Costa
static

2021 → Codrina Maria Ilie, et al.
Online / interactive
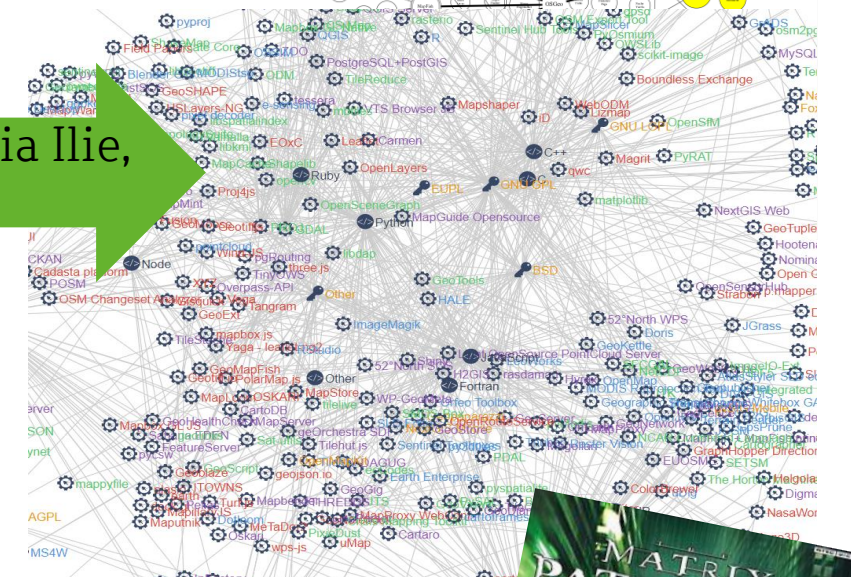
202x ? → Linked Open Data
interoperable

WZB

Berlin Social Science Center

Thank you for your attention.

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Beyond the earth... Beyond the moon...
Beyond your wildest dreams!
H.G. WELLS'
THE SHAPE OF THINGS TO COME

See you at FOSS4G 2023 in Prizren !

https://www.movieart.ch/bilder_xl/shape-of-things-to-come-poster_0_xl.jpg