



FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented at the FIG Working Week 2019
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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Land Administration Data to Support Development and Research

Miodrag ROIĆ, Croatia
University of Zagreb – Faculty of Geodesy

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Introduction

- ■ Registry (birth, company ...)
- ■ Registry (right, concession, ...)
- ■ Cadastres (property, utility, LPIS ...)

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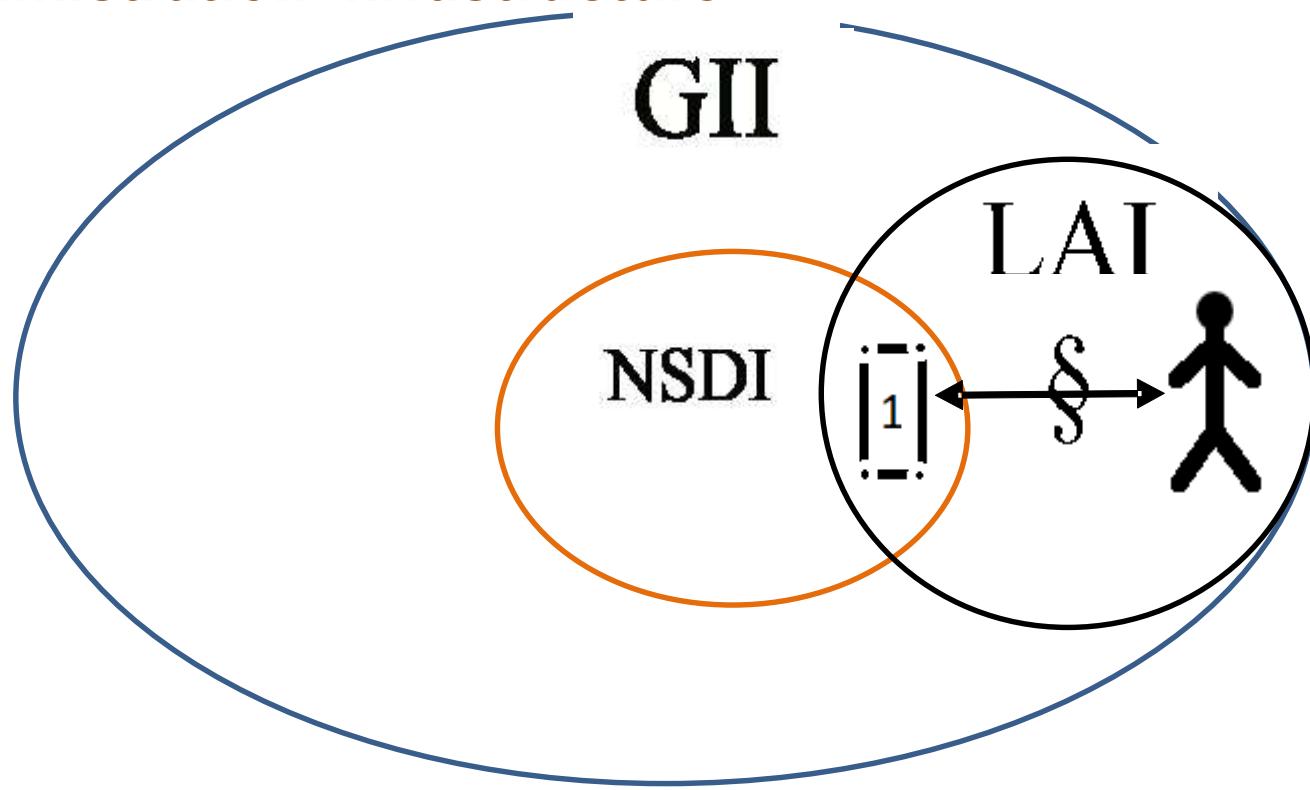
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Land Administration Infrastructure



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Cyberinfrastructure

- Research environment – supports data
 - Acquisition
 - Storage
 - Management
 - Integration
 - Mining
 - Visualization

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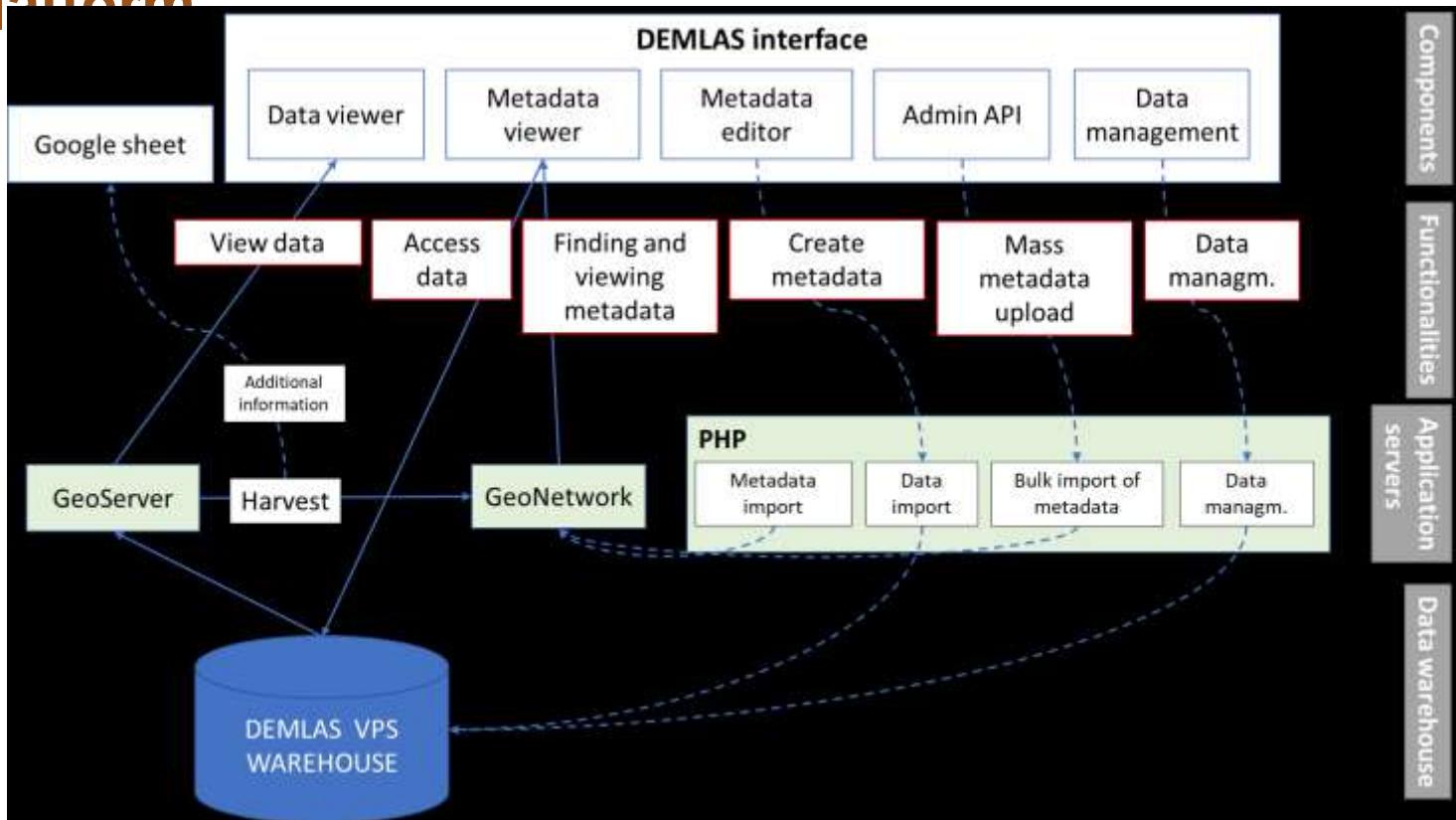
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DEMLAS platform



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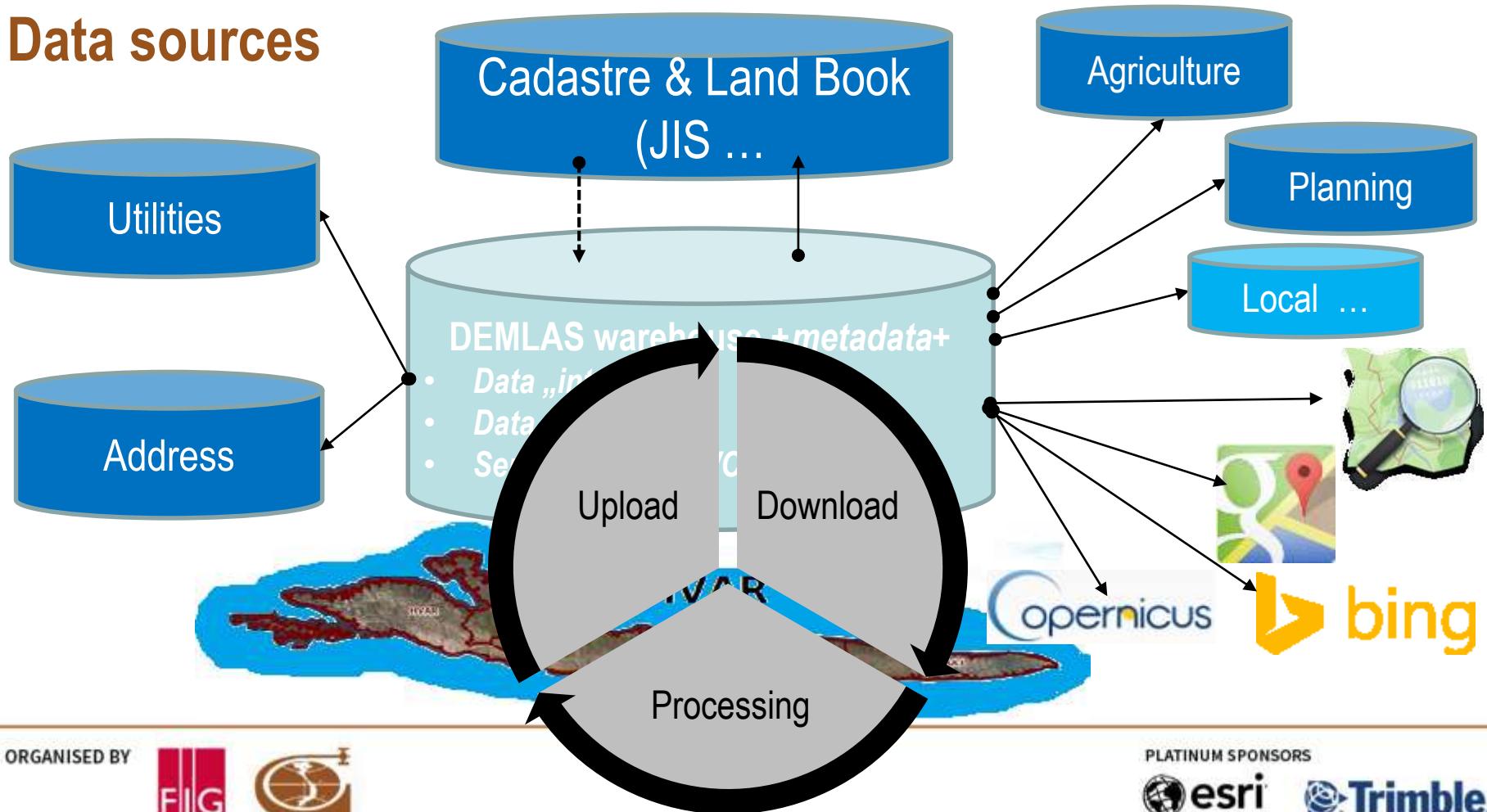
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Data sources



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Interface

The screenshot shows a geospatial data interface with a map background. On the map, there is a green polygon representing a building footprint and a yellow polygon representing a 'Natura 2000' area. A modal window titled 'Metadata info' is open, showing the coordinates '43° 10' 41" N 16° 36' 45" E' where the user clicked. The window lists five entries:

| Title | Metadata | Action |
|---------------------------------|----------|------------|
| georef_311669_Dol_1834_2 | XML | Add to map |
| georef_311669_Dol_1894_2_3 | XML | Add to map |
| georef_311723_StariGrad_1834_22 | XML | Add to map |
| georef_311723_StariGrad_1902_22 | XML | Add to map |
| cp_building | XML | Add to map |

Below the table are 'Previous' and 'Next' buttons.

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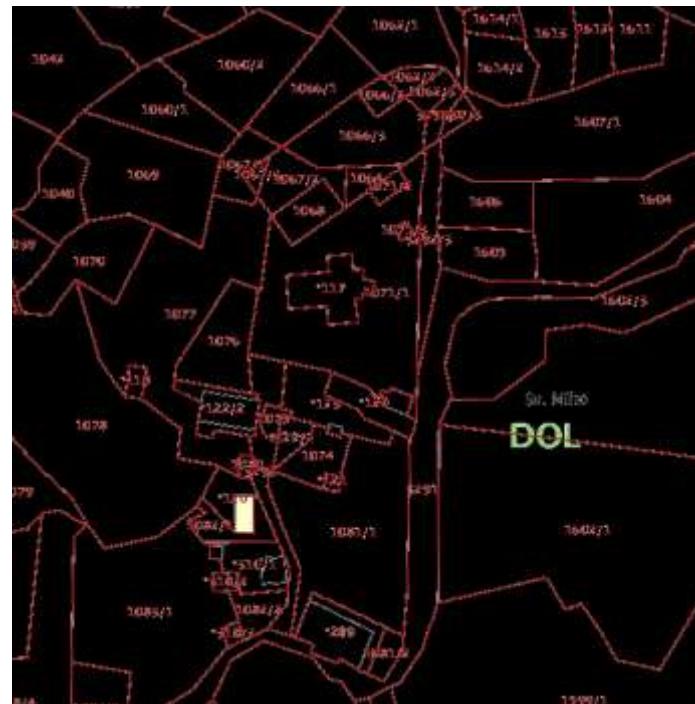
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Research fields



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Spatiotemporal investigations

- Inconsistencies
Area
 - $*123 = 378 \text{ m}^2$
 - $*124 = 7 \text{ m}^2$



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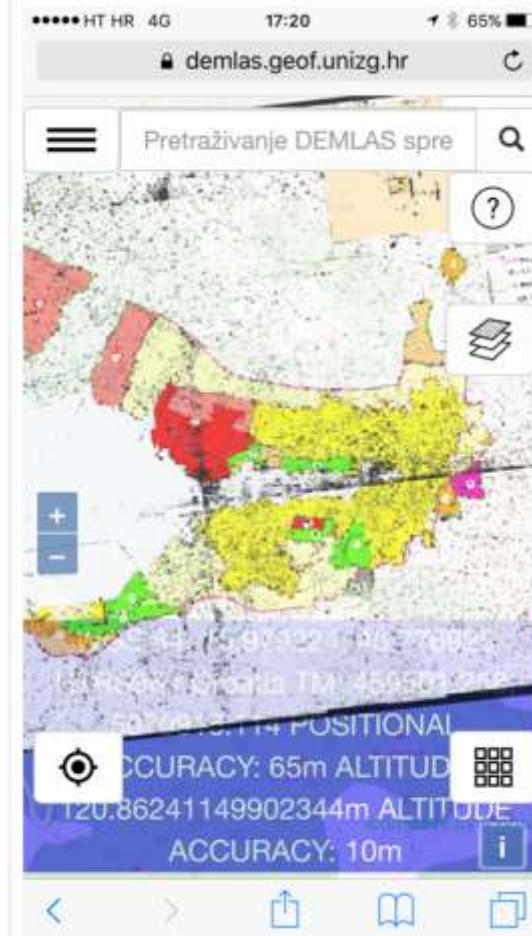
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Conclusion

- LAI Cyberinfrastructure
 - Availability
 - Integration
 - Re-use
- Semantic Web
- LG monitoring
- „GDPR”



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