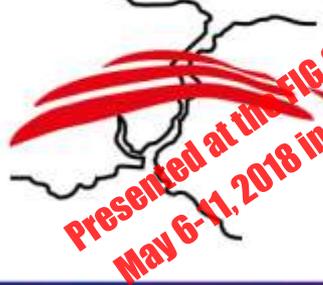


FIG
2018
ISTANBUL

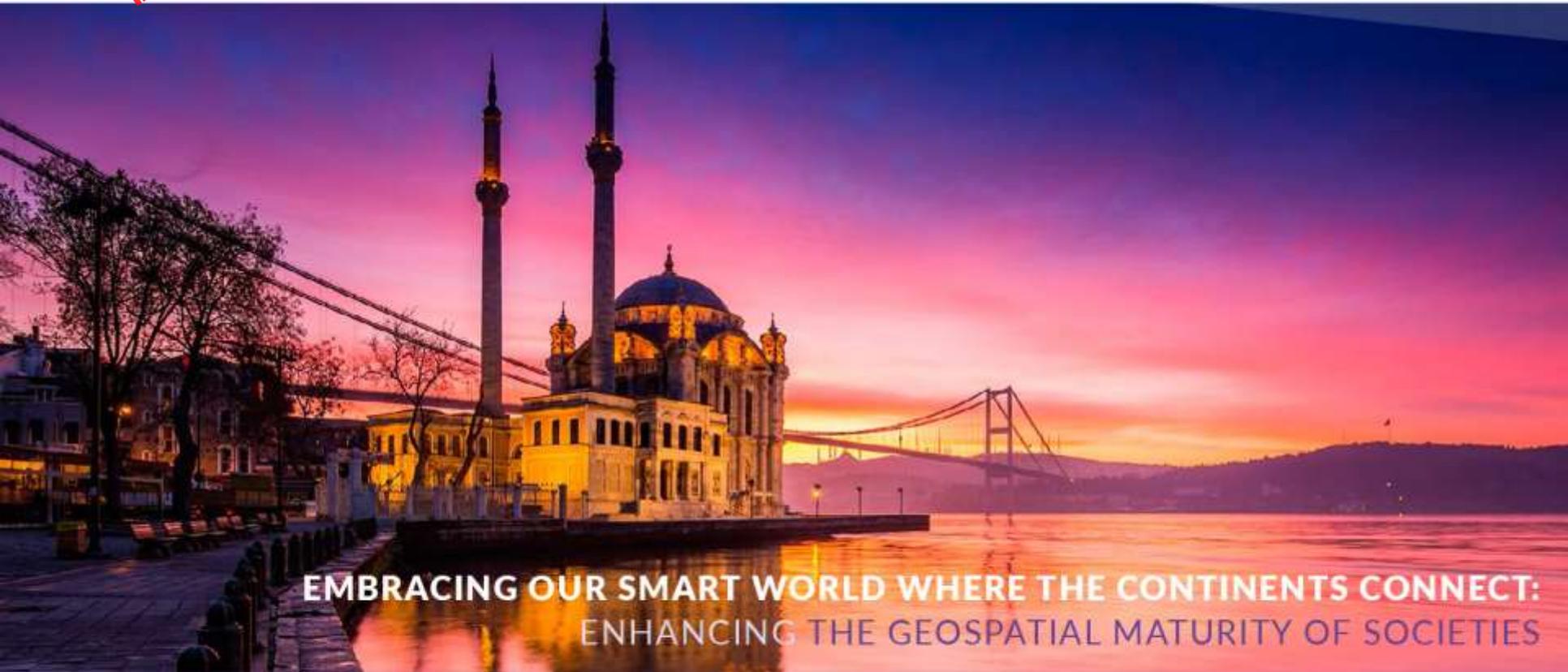


**Presented at the FIG Congress 2018,
May 6-11, 2018 in Istanbul, Turkey**

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Benefits of OGD for providers of authoritative data

Jürg Lüthy and Christian Kaul

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Agenda

- Introduction
- Open Government Philosophy Data for spatial data
- Evolution of OGD in Cadastral Data of Canton Zurich
- Incorporation of VGI in OGD Infrastructure
- Case study: Obstacle mapping @ FOCA
- Conclusion & Outlook

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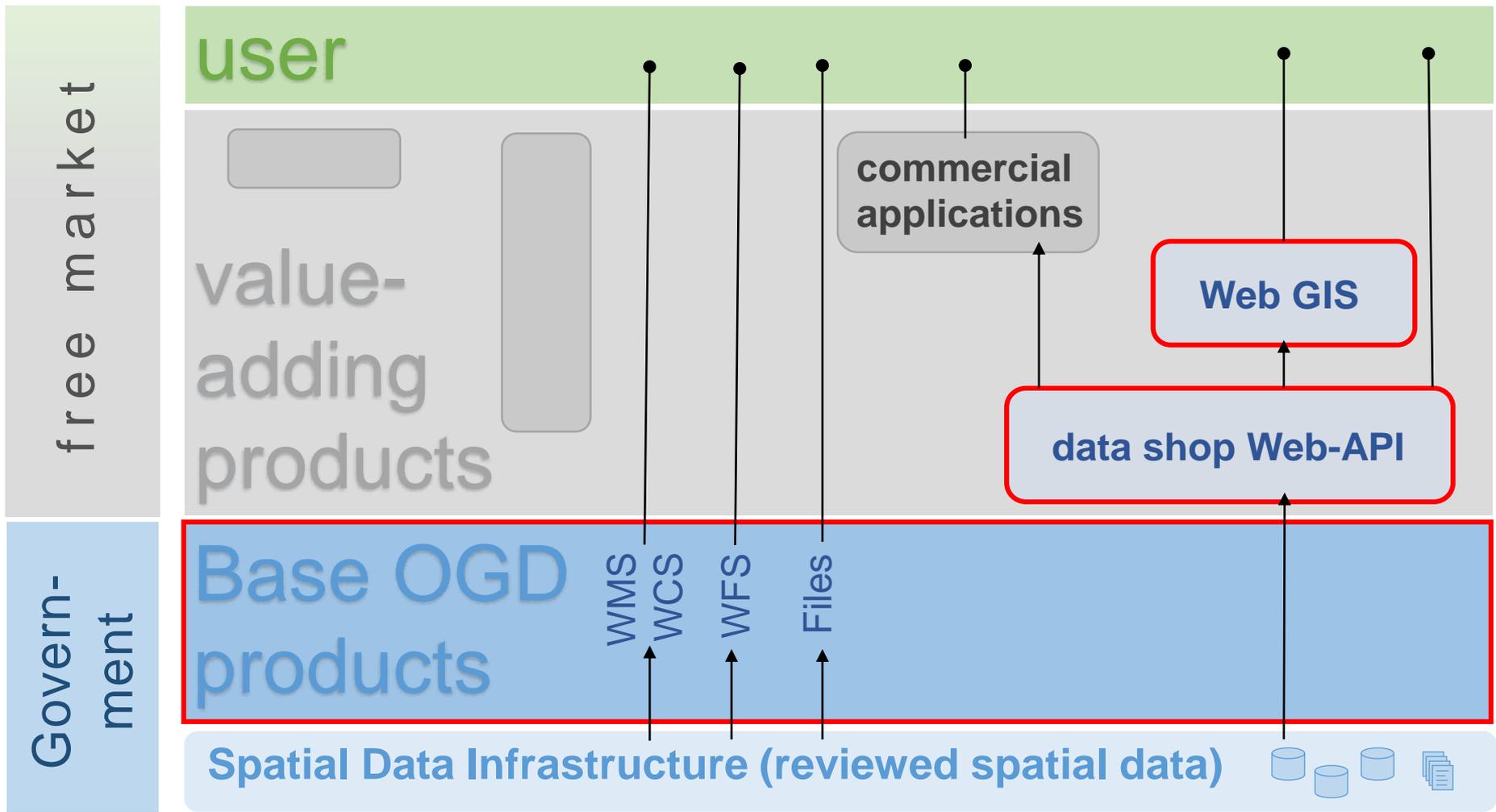
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Open Government Data Philosophy





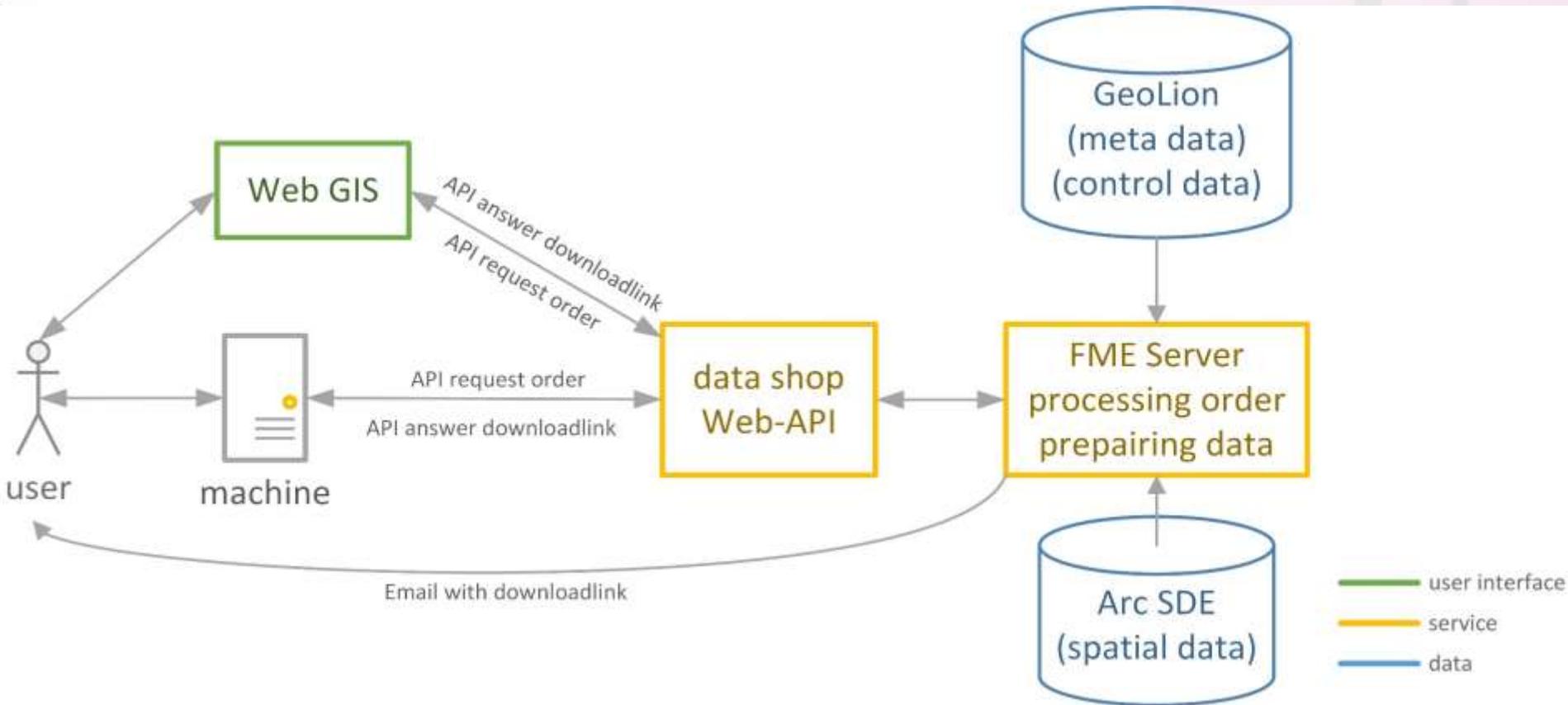
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Evolution of OGD in Cadastral Data of Canton Zurich



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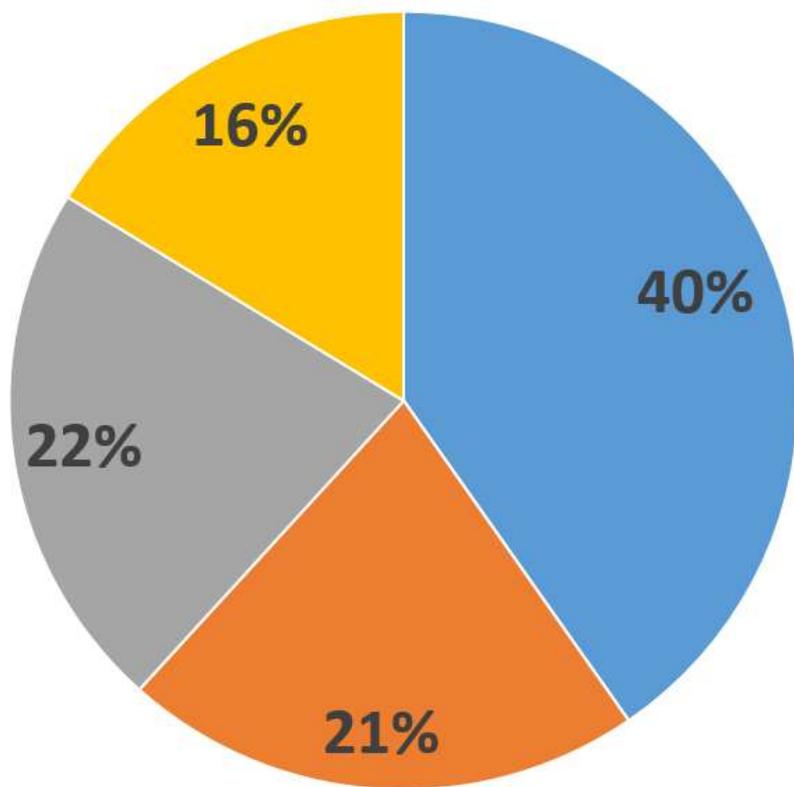
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Number of orders by type of data



- Cadastral Data (parcels; buildings; landcover; etc.)
- Reference Data (DTM; DSM; etc.)
- Base Data (PLR; addresses; etc.)
- All other spatial Datasets

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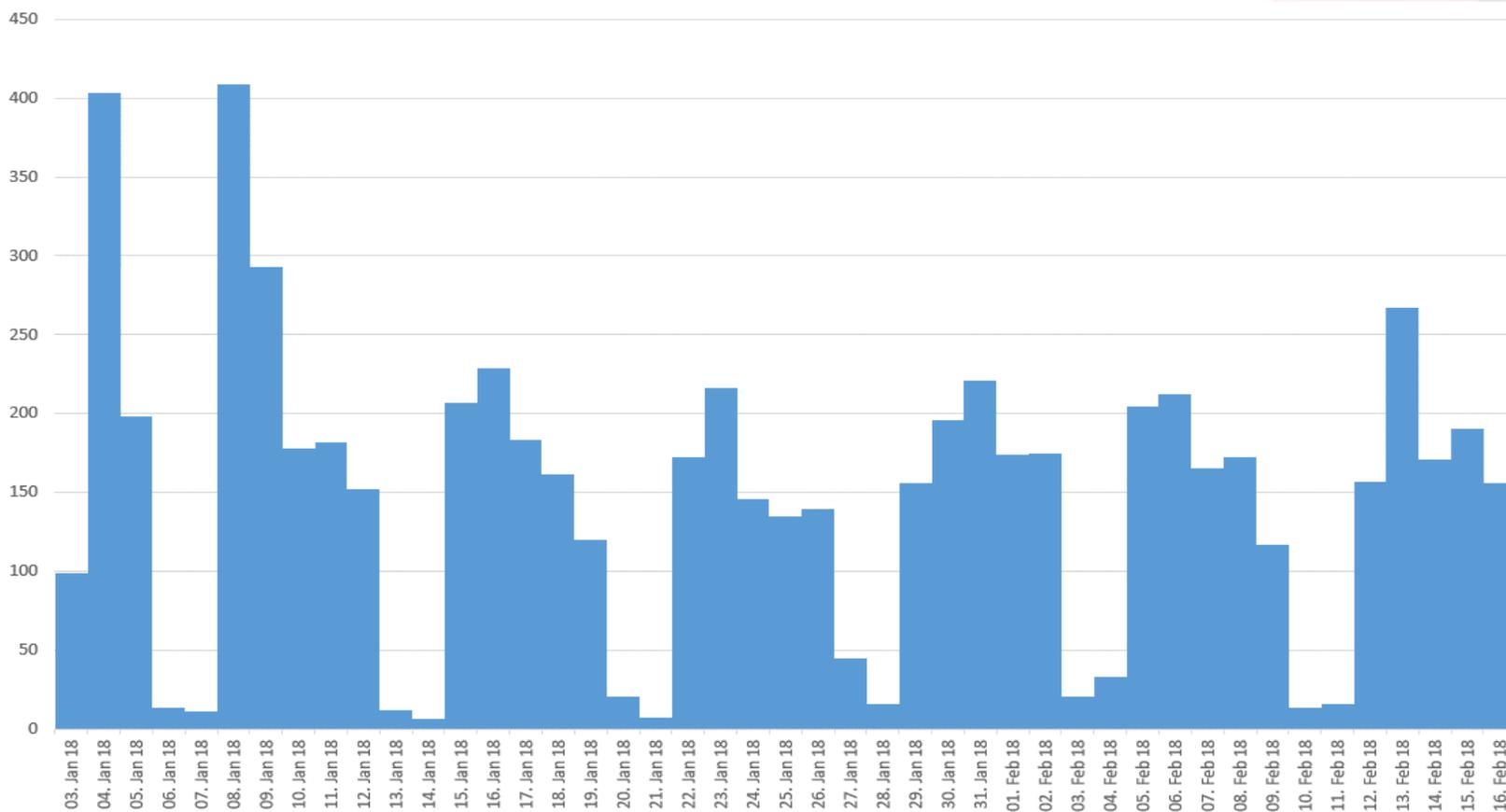
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Data orders – daily frequency



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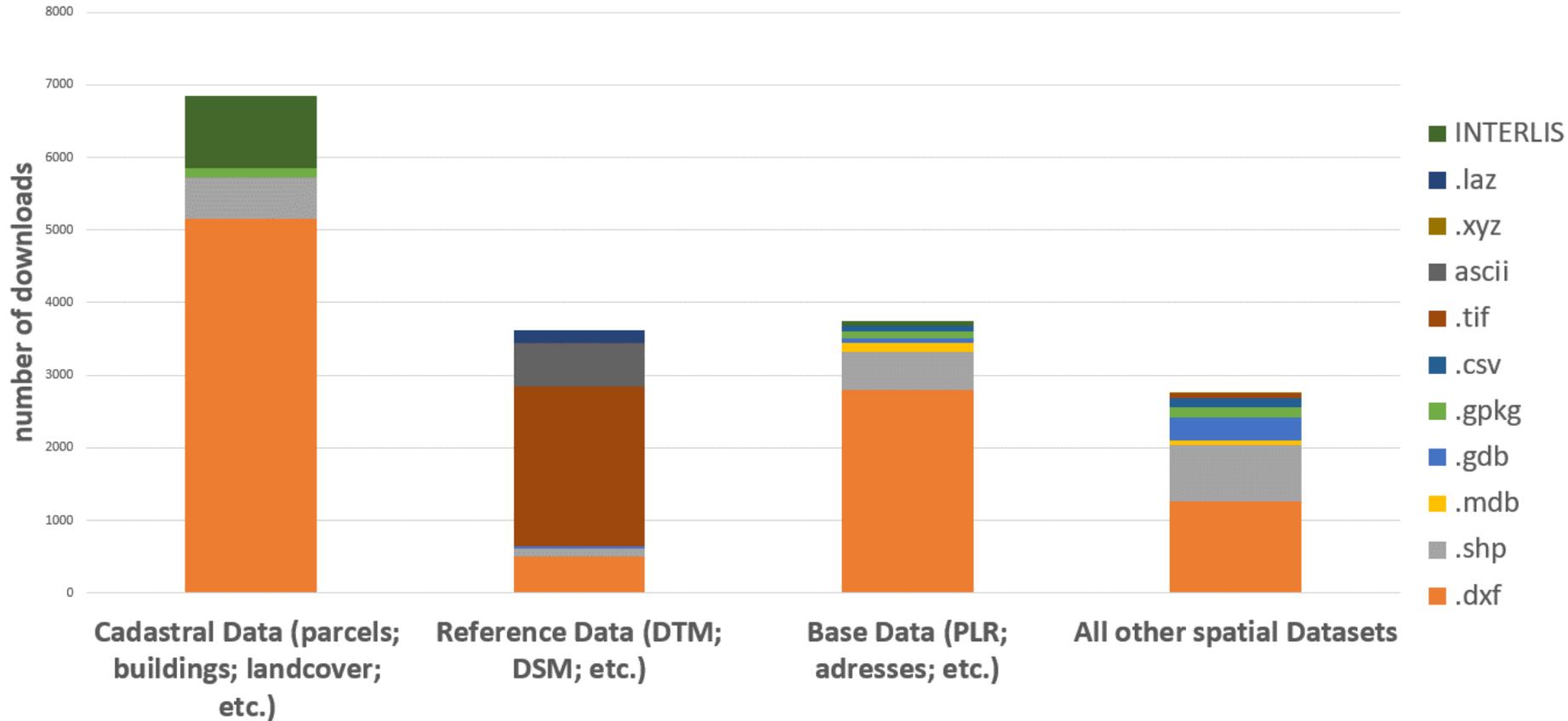
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Data orders – split by data format



Main issues in all SDI – data quality

- How can data quality be maintained over long period?
- How can the workload be optimized, cost minimized?
- Inclusion of citizen is considered to be beneficial:
 - Raise awareness for data (availability),
 - Include their knowledge for continuous improving.
- The more data sets are used, the better the quality



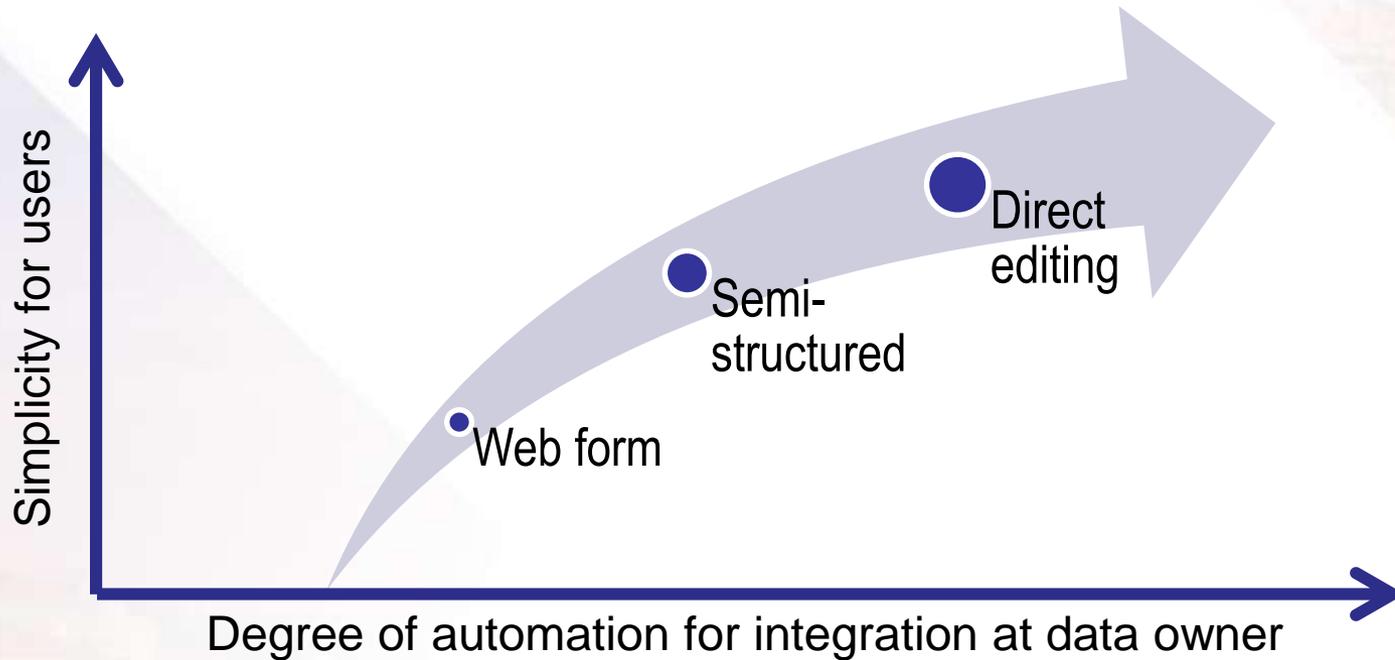
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Incorporation of VGI in OGD Infrastructure



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The screenshot displays a GIS application interface. On the left, a map shows a street layout with several data points labeled with IDs and coordinates. The street names 'Bötzingenstrasse' and 'Bärengraben' are visible. A scale of 1:200 is shown in the bottom left corner. On the right, a detailed object information panel is open, showing the following data:

- Bezeichnung/Nummer: [Empty]
- ObjectID: 20 004
- Rechtswert/Hochwert: 1100727.252
- 2002303.503
- Material: [Dropdown menu open showing options: Beton armiert, Vollguss, Gussbeton, Gussrost, Stahlplatte, andere]
- Form: [Empty]
- Breite / Länge [mm]: unbekannt
- Verschuss / Erhöhung: [Empty]
- höhe: [Empty]
- Bemerkung: [Empty]
- Knoten: 01 248
- Rotation: [Empty]

Case study: Obstacle mapping @ FOCA

- Federal Office of Civil Aviation (FOCA) is responsible for aviation development and the supervision of civil aviation activities in Switzerland.
- What is their interest in VGI?

Today: Touch down on the runway
Tomorrow: heading to data point (3D coordinate)



N	033.937277
E	-118.383373
H	98.4 ft

**Need for up-to-date,
complete data set about
obstacles!**

Conclusion and outlook

- With publication of many authoritative data sets under OGD the use of spatial data has entered a new era.
- VGI can be used in particular for authoritative data as a useful addition to the classic data maintenance processes.
- With VGI, the data quality can be significantly increased again, which benefits all users.
- New technologies incorporated (Atom Publishing Protocol, OpenSearch)
- VGI feedback loops upgraded to level 2 and later towards level 3.