EUROPEAN CITIES AND REGIONS NETWORKING
FOR INNOVATIVE TRANSPORT SOLUTIONS

The role of Open Specifications and Standards in delivering Open Data in Burgos (and Spain)

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POSSE and the local level

- Focused on Public Transport Open Data (in principle no standardization, due to the nature and characteristics of the city, already standardized)
- Thanks to the cooperation of different local actors: various city departments (mobility, software, traffic, PT…), the supplier of the different systems, external support (external experts) and other local actors.
- Now in process of implementation.
- Open for future plans in other fields: traffic, bicycles, taxis, parking ...
- With great help from other cities, city networks and the POSSE project partners.
- Already finished, it is very focused on a medium size city with the problems of one just supplier.
- Great expectations from students and entrepreneurs in order to develop new apps and business.

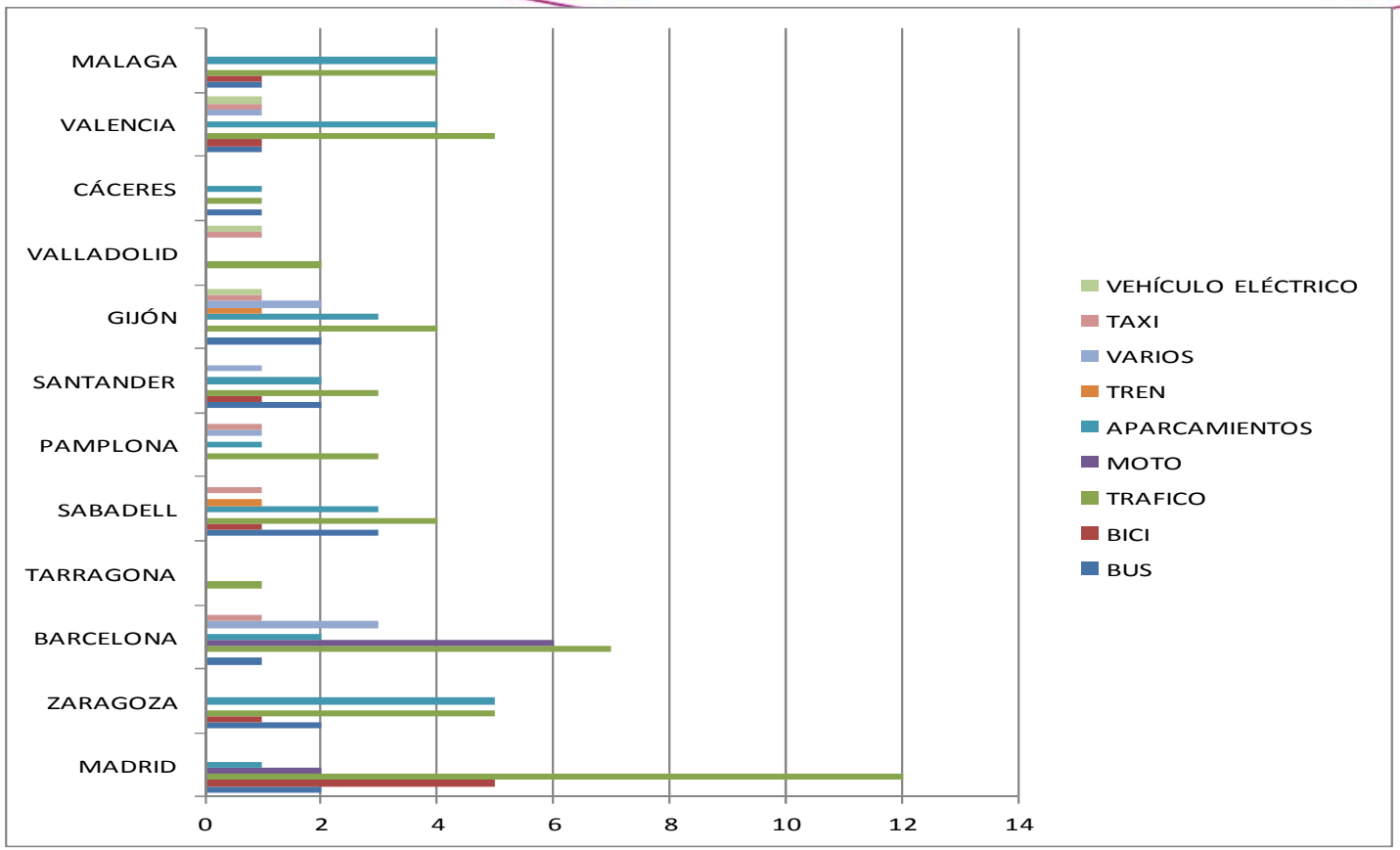
POSSE from Local to National level

- Some cities very advanced in terms of Open Data with already systems implemented along with the organization of the National Workshop at National level of POSSE (Oct 2013) made the City of Burgos upscale the objective of the project, developing the National Guidelines.
- At the same time, new groups were created: The Open Data group in the RECI (Spanish Smart Cities Association) and the Intelligent Cities Group (AENOR Group Subcommittee 3 SPT), even with normative (PNE 178301).
- The area of Open Data also suggests the creation of business in not so distant future, and especially the area of transport is one of the clearest. Cities were interested into inform citizens and creation of business in the area.
- While other issues such as interoperability or standardization are touched, the Guide is primarily focused on Open Data.

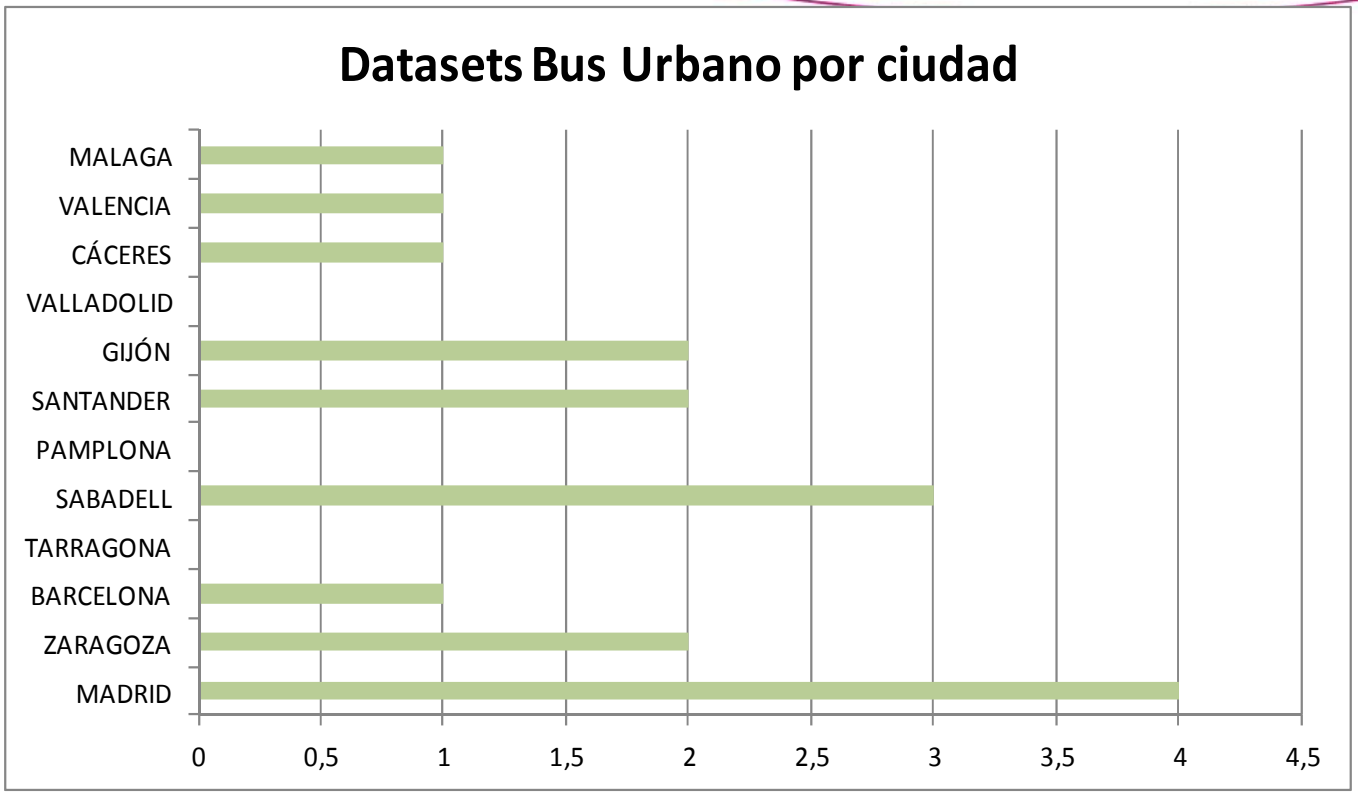
POSSE – National level, first steps

- The starting point is the study of the Laws at local/national level, as well as the initiatives already existing. Different approach.
- Study and Analysis of the data, defining data sets and which data is publishable or not, public areas and use of the data.
- With the CiViNET Network and the RECI Network it was created a ranking of vocabulary, format and data groups.
- It was analyzed the availability of the data in the different cities and the level (format, quality) of the data provided in relation with everything about mobility and transport.
- Important the support of the Ministry of Industry (red.es), involved from the beginning, even organizing bilateral meetings with the project managers of POSSE, and the collaboration with the cities and entities involved, although it was more general.
- Important the examples from UTMC / OCA and the partners from the Project.

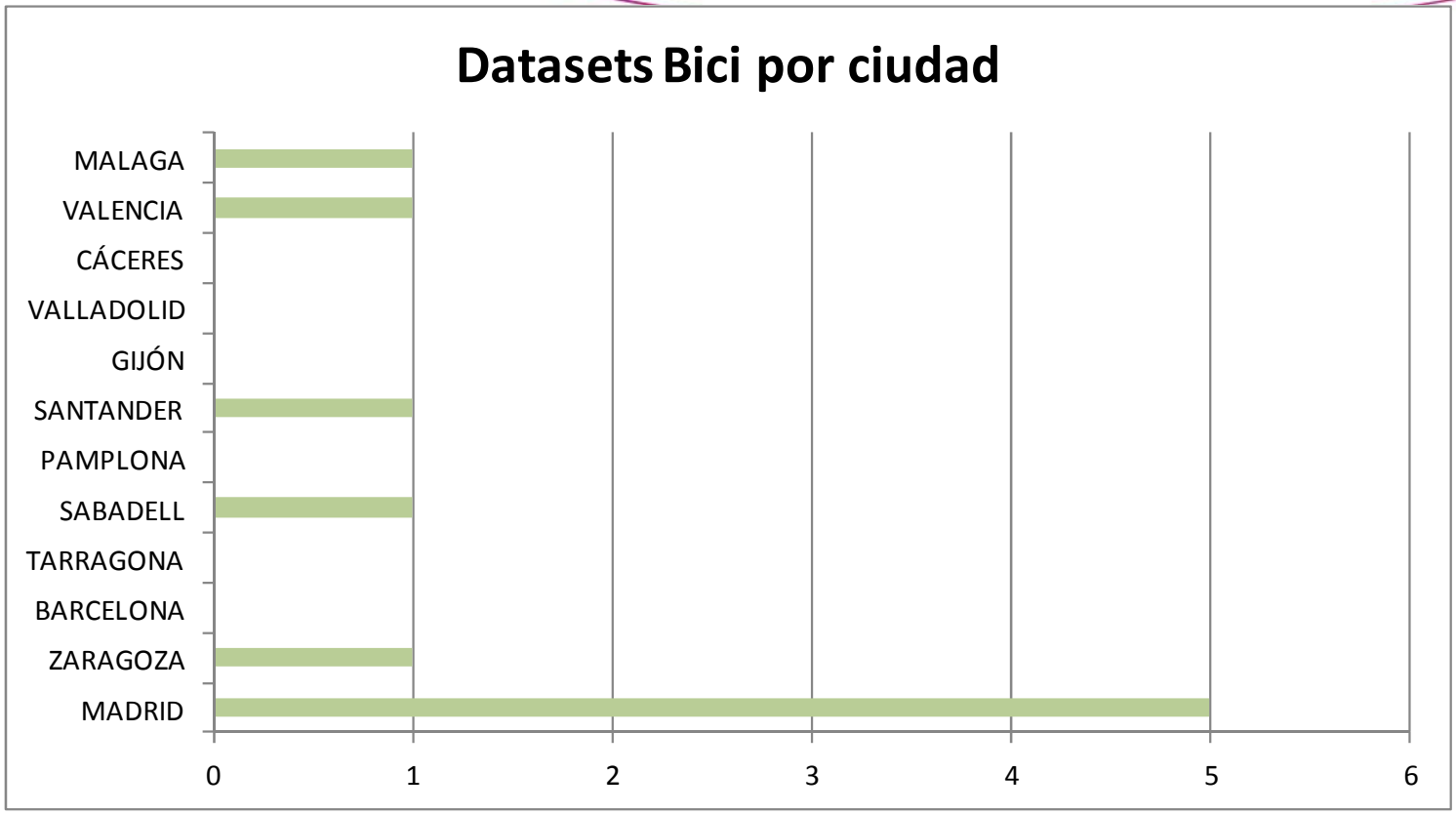
POSSE, advanced cities in general



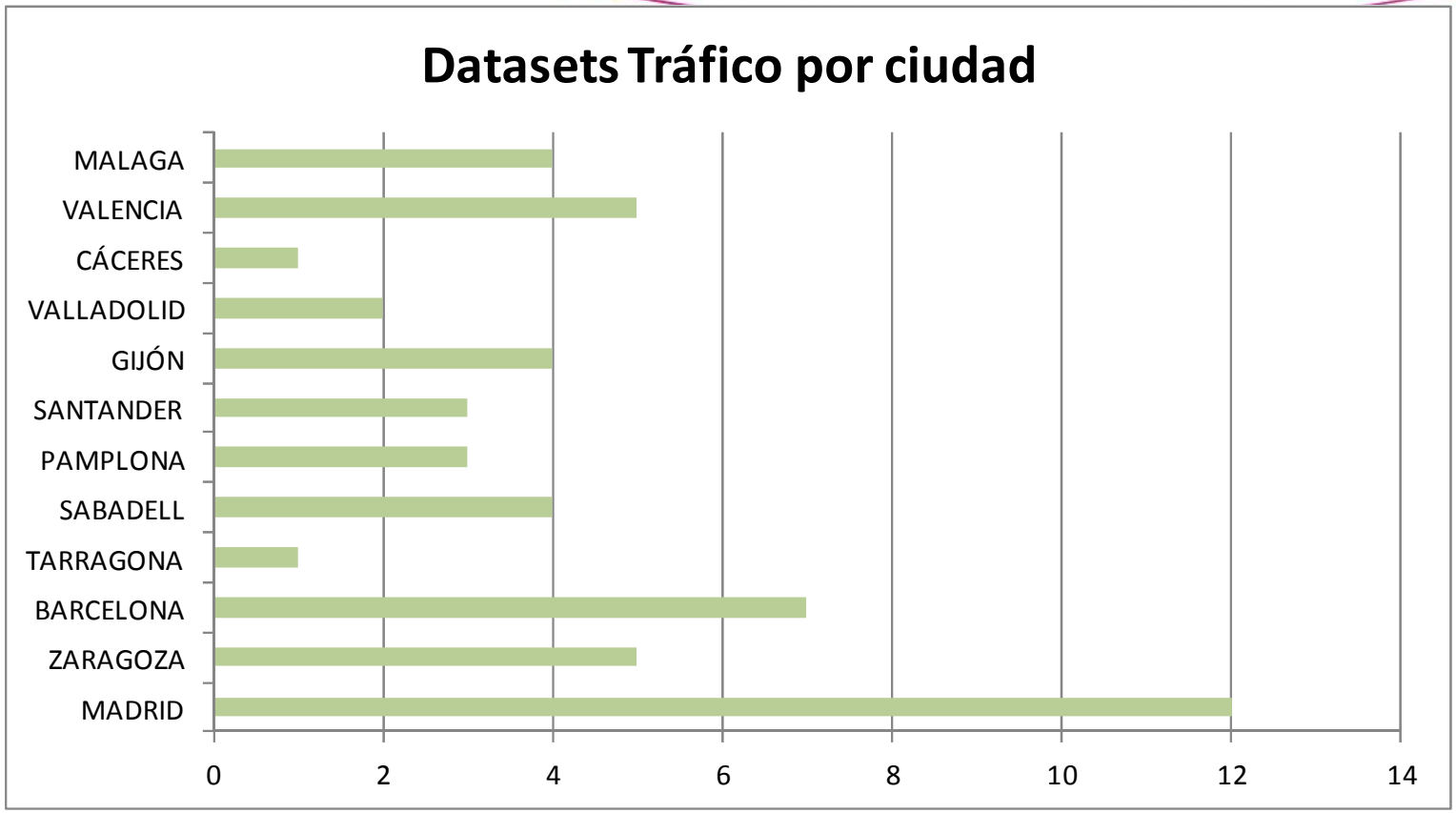
POSSE, Bus datasets



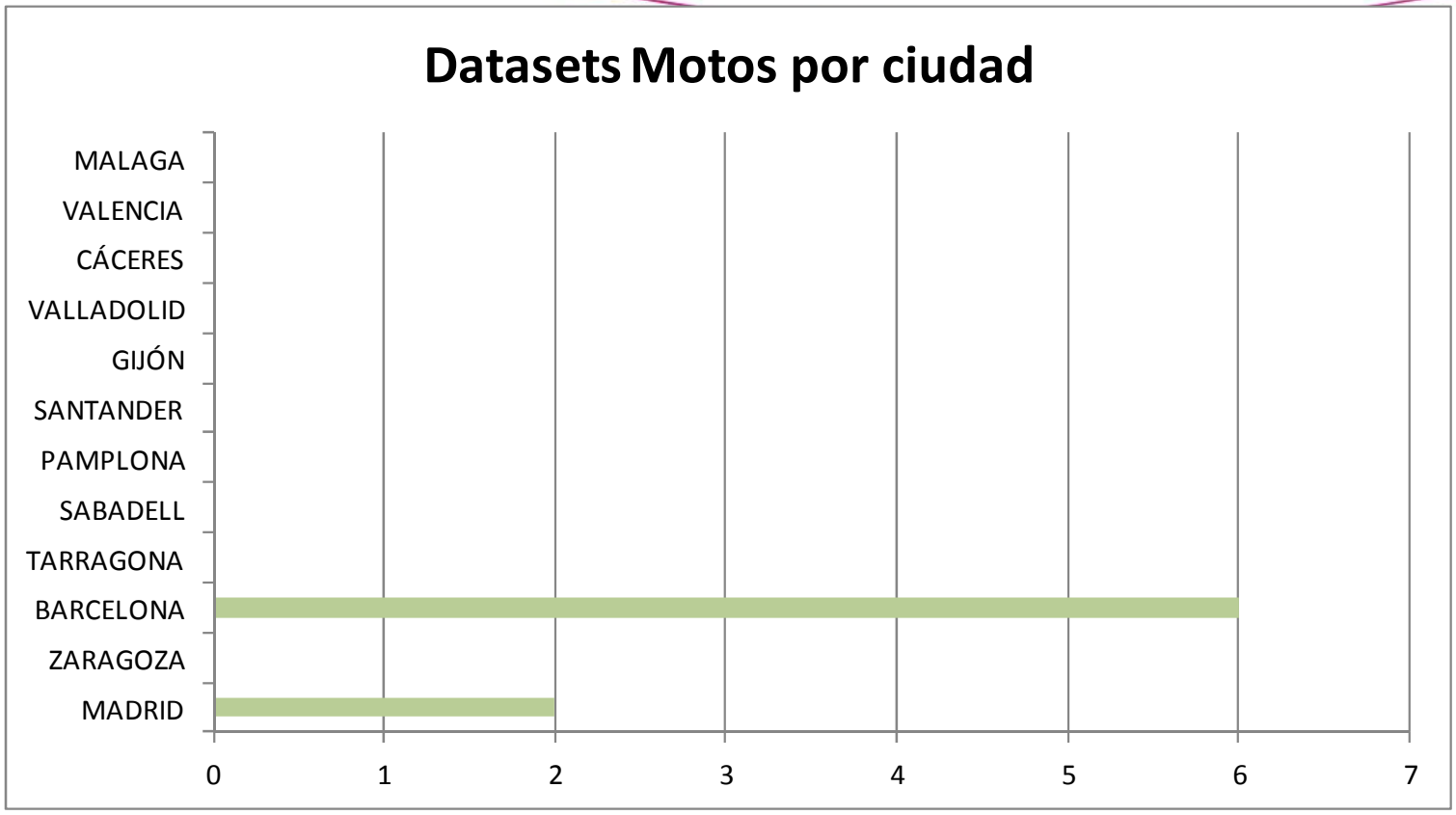
POSSE, Bicycle Datasets



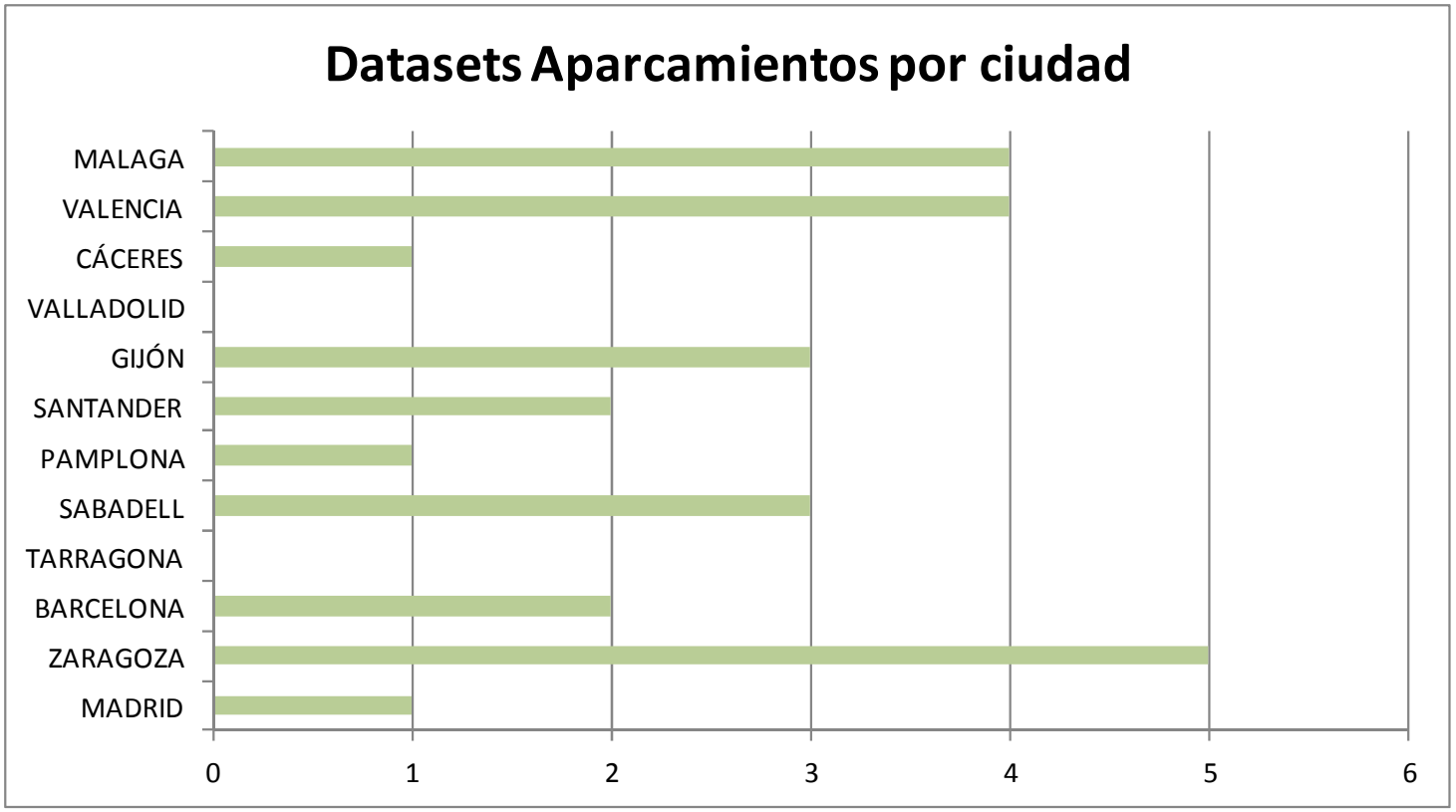
POSSE, Traffic Datasets



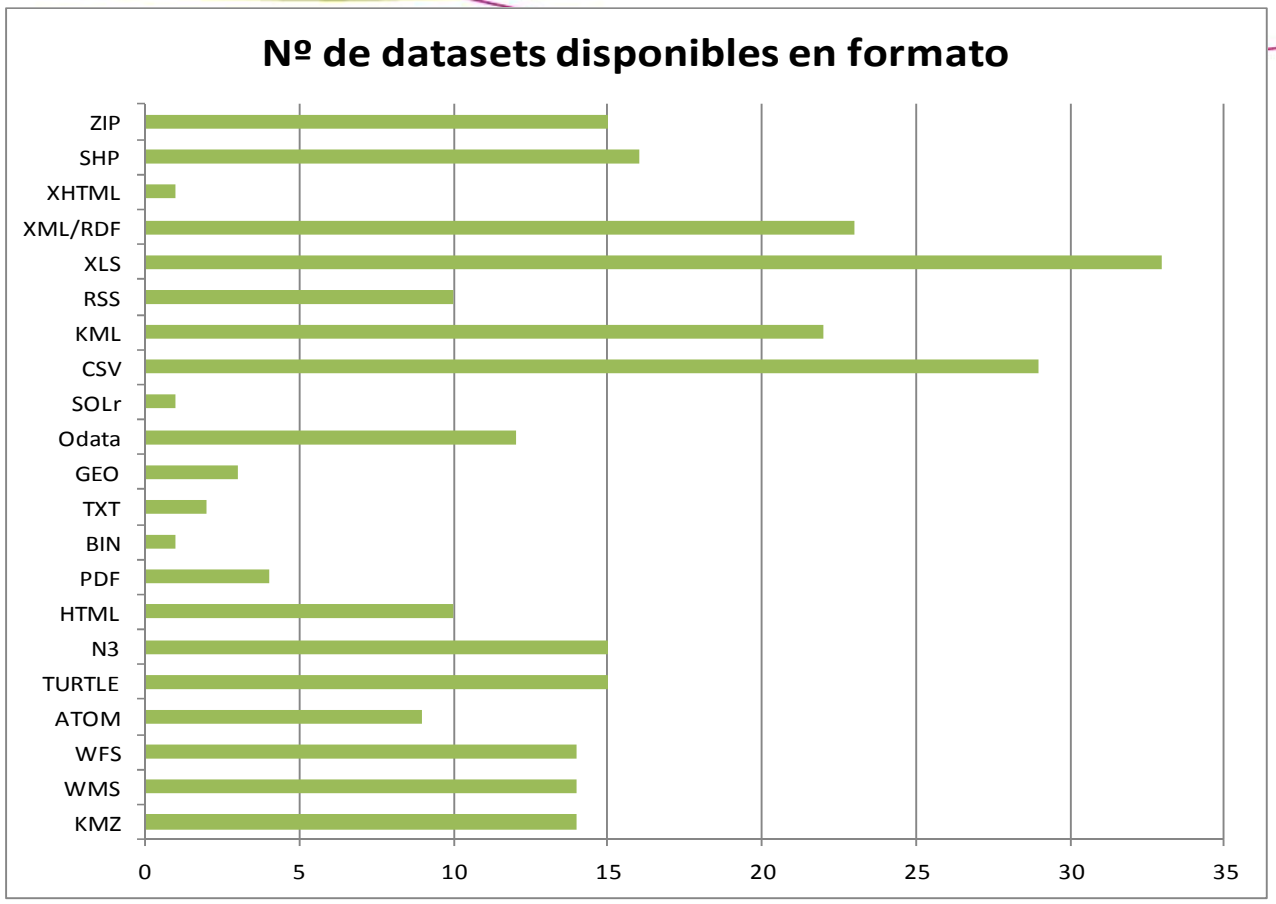
POSSE, Motorbike Datasets



POSSE, Parking Datasets



POSSE, different formats of datasets



POSSE, cities experts and formats of Open Data

Open Data preference

- **CSV**
- **XML**
- **RDF**
- **RSS**
- **JSON** (Java Script Object Notation)
- **GEO**
- **TURTLE** (Terse RDF Triple Language)
- Others: SHP, ODS, KML, WMS, WCS, WFS..

Not Open Data Formats

TIFF
PDF
JPG
GIF
HTML

POSSE, Conclusions of the Guidelines

Complicated situation, advanced cities and beginners. Necessary of a vision from the reflection of the actions already done in some cities. New adopters to avoid the mistakes. Approach bottom-up.

- **Heterogeneous situation in terms of formats, data sets, classifications… Necessity of defining datasets and format.**
- **Not appropriated formats in many cases**
- **Big effort on the side of the Government (National, with red.es)**
- **Regarding PT (bus, train, bike, metro), traffic state and parking management basically. The AENOR Group is not covering important data sets of some specific areas.**
- **Those who has implemented (Madrid) can see new apps that they even thought prior to the opening.**

POSSE, the Spanish National Guidelines

The National Guidelines

- Two workshops at National level with 90 attendees in total.
- Five partners of the project involved in workshops and meetings
- More than 10 meetings with different stakeholders at national level.
- Participation in the Guidelines of more than 40 cities, 5 associations of cities and 2 National Government entities.
- Two presentations at National level, to be explained in other five events in the near future.

POSSE and the future of Open Data in ITS

- The immediate reaction to the last final workshop has been the many cities and entities asking for both Guidelines (local and national).
- It is going to be presented in other Fora, groups and networks (yet to be presented in RECI, ITS Spain, Federation of Municipalities and Provinces…)
- Group to be working in the future along with ITS Spain (proposal from them).
- New projects and activities in mind, AENOR group has confirmed the decision of keeping the work in this topic with the RECI on board.

Thanks!

- José María Diez

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