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## How to assure quality and reliability for Spatial Data Infrastructures

National Statistic Institutes (NSIs) and Mapping and Cadastral Agencies (NMCAs) and their SDIs are good examples of environments where up-to-date high volume of information need to be reliably available all the time. Today, both professionals and citizens are more and more using applications, that are based on integration of statistical and geospatial information.

NSIs and NMCAs host hundreds of services with thousands of data offerings, making the task of managing the performance and the utilization of those extremely challenging. Some organizations attempt to develop in-house solutions for monitoring the quality of the services. However, they quite often suffer when it comes to analyze the real usage of information in the services.

With a solution specifically developed for spatial web services, new information can be revealed regarding the usage of the services, which show the challenges and issues faced by the users. The case to be presented aim to solve the issues above by:

- Testing the capacity of services by generating realistic & relevant loads, so services can meet capacity requirements;
- Keeping track of uptime and identifying trends affecting service level and availability;
- Establishing thresholds for key indicators and setting up alerts and warnings;
- Analyzing the usage level and their trends;
- Identifying the most popular services and data sets, and driving resources to increase the robustness of the infrastructure for those, then making more effective use of the resources;
- Showing the actual economic impact of improvements in service performance to users.

