



IMAGE SERVER

WHAT IS IT?

The requirements for efficient distribution of orthophotography are ideally solved with the Sinergise Image Server, which has been developed as part of the Giselle LPIS system. The architecture consists of one central image server, many clients and an optional local image server, one for each LAN of clients.

The clients access the local image server for images. If an image is not cached yet, it is **transparently loaded from the central image server** to the local image server. The applied technology is similar to bitTorrent or other new generation P2P networks, which deal with the distribution of **large data sets** among many hosts.

THE ESSENTIAL FEATURE OF THE IMAGE SERVER

- The Central server manages both, **the images and the clients**.
- The local image server aggressively caches images and the central server ensures that the data are **consistent and up to date**. Images can be transferred either via the Internet, physically via DVD/CD, or both.
- Our architecture ensures that no local IT managing expertise and effort is needed besides setting up a normal PC, thus keeping down long-term costs, often neglected by other solutions, which tend to disregard long-term aspects and user satisfaction.
- The presented design of the Image Server greatly **improves performance of the system** (compared to either accessing images from a central location or reading unprocessed images stored on local network file servers), while facilitating maintenance of the software infrastructure as well as that of the orthophotographic images. It is possible to update images in a **central location**, and the updates can automatically be distributed to local offices **without the need for a local system administration**.

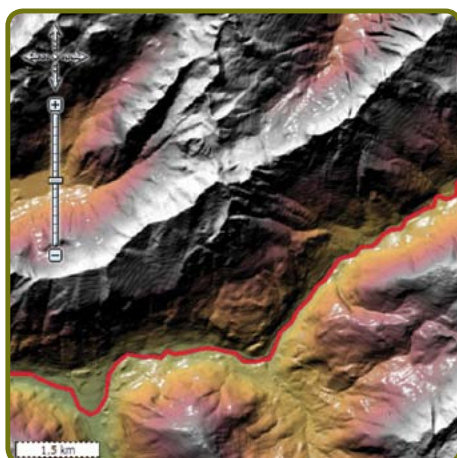
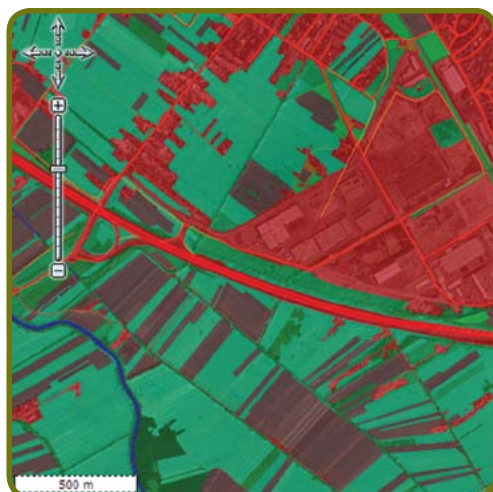




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EASE OF USE

Sinergise Image Server supports local offices with the following features, designed to provide the best experience to end-users.

- Regional data pre-loading
- Configurable image transfer size and fidelity
- Local caching of retrieved data
- Smart Level-Of-Detail (LOD) processing

