

FOSS4G in support of Antarctic Science and Environmental Management: The SCAR KGIS Project

S. Vogt, F. Rau, H. Saurer, K. Braun, J. Arigony-Neto (Institut für Physische Geographie, Universität Freiburg / Germany), R. Jana (Instituto Antártico Chileno, Punta Arenas / Chile)

A Spatial Data Infrastructure for King George Island, Antarctica



King George Island is one of the most crowded places in Antarctica. Some people even consider it the 'Secret Capital of Antarctica'. The mainly ice-covered island features a large number of scientific bases, an air strip and abundant wildlife. The island is also a hot spot for Antarctic tourist cruises and the emerging land-based Antarctic tourism.



Scientific activities, requirements for facility management, tourism, and the protection of the sensitive ecosystems lead to a considerable conflict of interests.

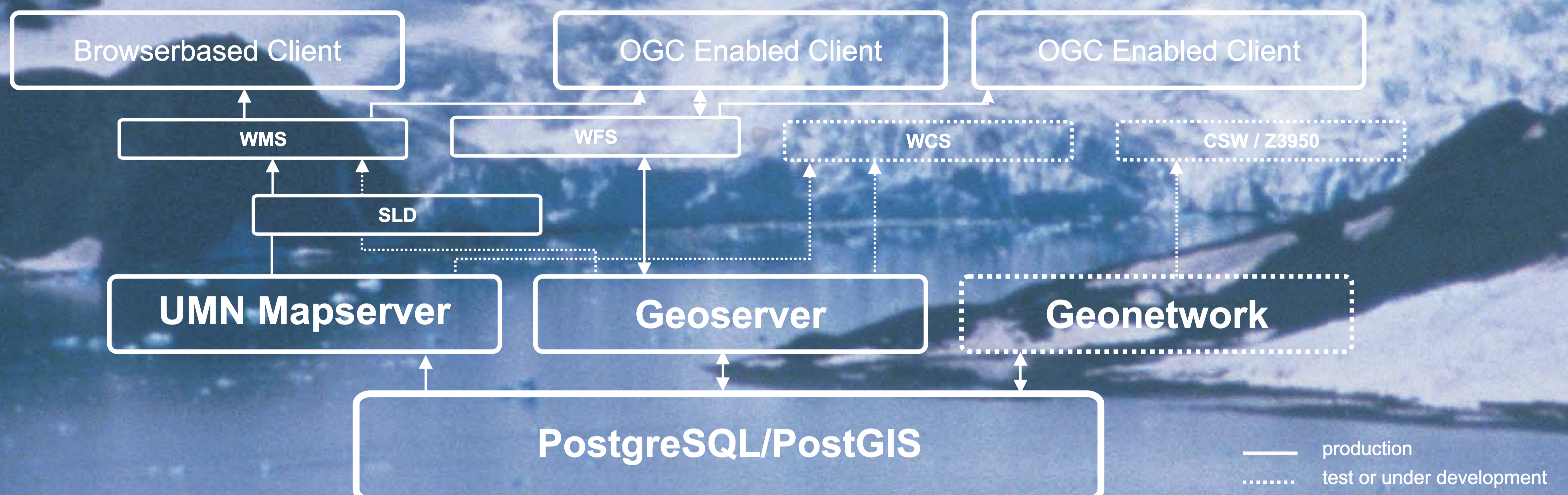


The international King George Island GIS Project of the Scientific Committee on Antarctic Research (SCAR KGIS) provides a SDI for the island in support of research and environmental management activities. This infrastructure is used by researchers, for environmental and facility management, by the tourism industry and tourists, and for educational purposes. It also serves as a testbed to further develop SCAR's Antarctic Spatial Data Infrastructure.



SCAR KGIS is coordinated and hosted at IPG Universität Freiburg, Germany.

Technical Implementation based on Free and Open Source Software and Open Standards



Institutional / Policy Framework based on SCAR's Antarctic Spatial Data Infrastructure AntSDI

