

How Data Management and Services help to share 3d Models across Systems
Paul Gabriel



Why do you model?

How do you model?



Structural Modelling



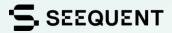












Numerical Modelling











Mapping







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BIM





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Visualization







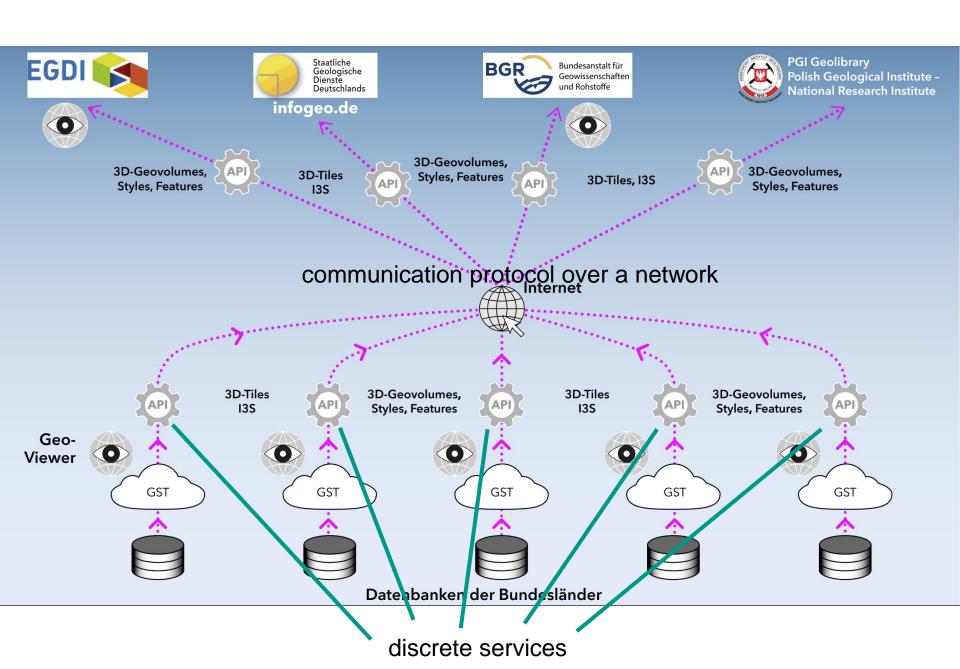


What is an SOA? (service-oriented architecture)

In software engineering, service-oriented architecture (SOA) is an architectural style that focuses on discrete services instead of a monolithic design. SOA is a good choice for system integration.

By consequence, it is also applied in the field of software design where services are provided to the other components by application components, through a communication protocol over a network. A service is a discrete unit of functionality that can be accessed remotely and acted upon and updated independently, such as retrieving a credit card statement online. SOA is also intended to be independent of vendors, products and technologies.

https://en.wikipedia.org/wiki/Service-oriented architecture



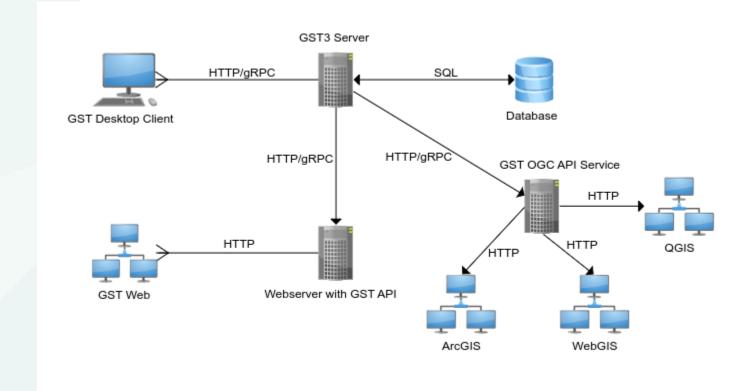
OGC API



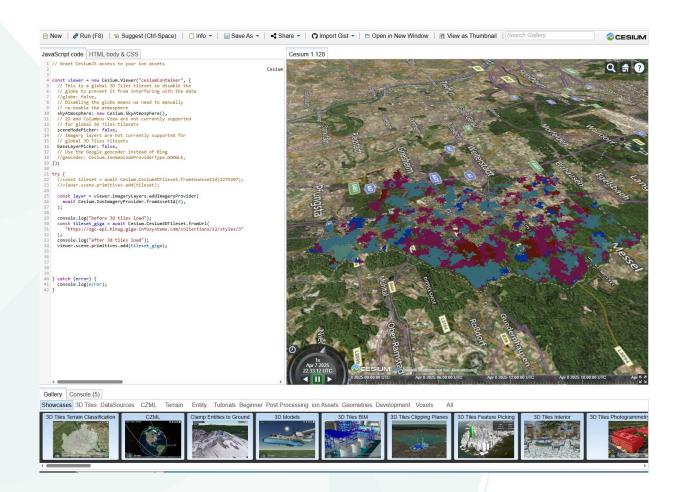
- Multiple Modules
 - Maps (former WM(T)S)
 - Features (former WFS)
 - Styles
 - * Volumes
 - Processes (former WPS)



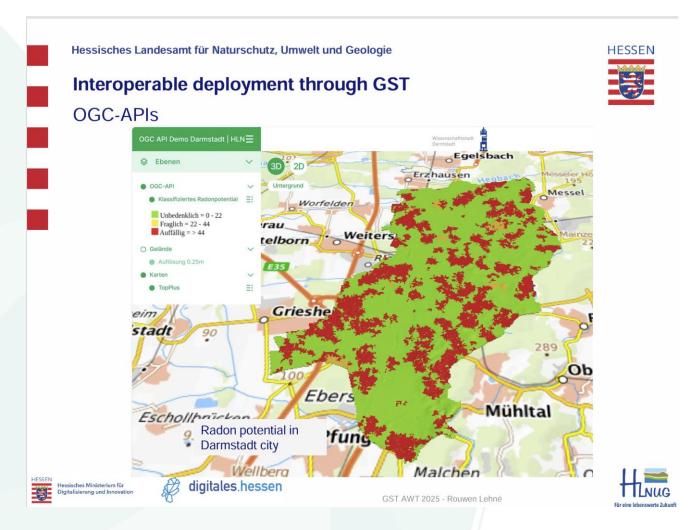






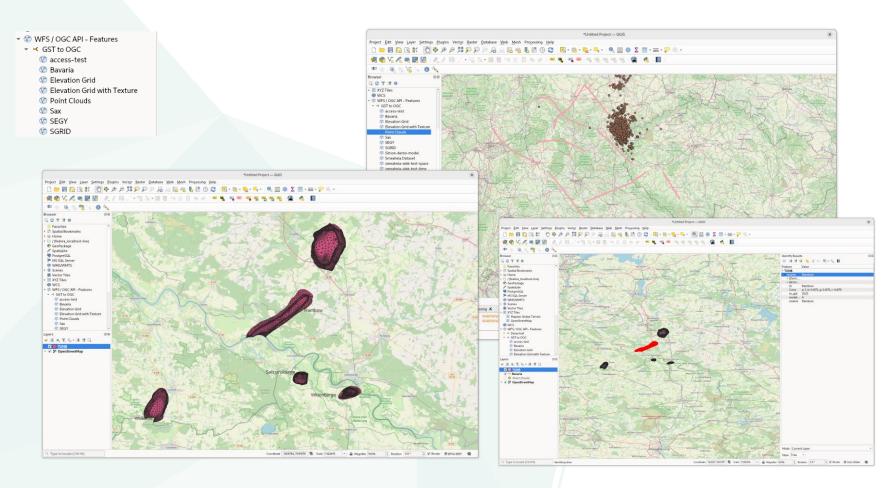








GST OGC API Features





Conclusion

- Data in silos is not beneficial, sharing is caring!
- OGC API is certainly one way to go
- New OGC API seems more promising than old W*S
- * Successful demo with HLNUG, Darmstadt and Kassel

Thank you!

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Questions?

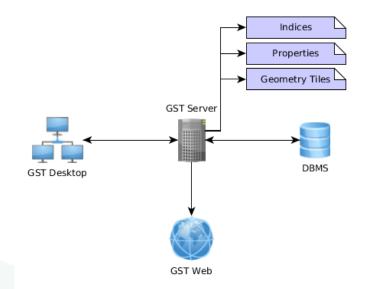
Remarks?

Wishes?



What's GST?

* 3 tier architecture



- * GST API <-> GST Server: GRPC, Port 50051
- * Web application
- * Several Clients → GST Desktop, GST Py, (C++)



