



**SED**

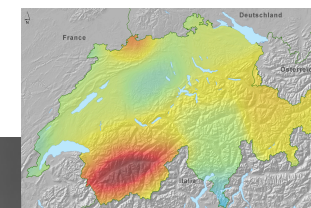
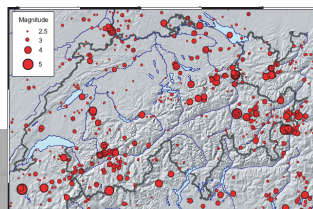
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# Portal-related developments @ SED

*Draft summary, Nov. 2009*





# Overview:

- Time-dependent hazard mapping (portlet, delivery for NERIES)
- GEM - Global Earthquake Model (full-featured application framework, with portal and portlets on hazard calculation, risk calculation, hazard & risk mapping, hazard & risk curves, etc.) – integration with NERIES to be discussed
- SHARE – same technology as GEM, but
  - eurocentric content
  - orientation rather on presentation of results than on web-based hazard calculators
- NERA – NA10  
SED contributions to user requirements and workbench interface specification of the next-generation NERIES/NERA portal.



SED

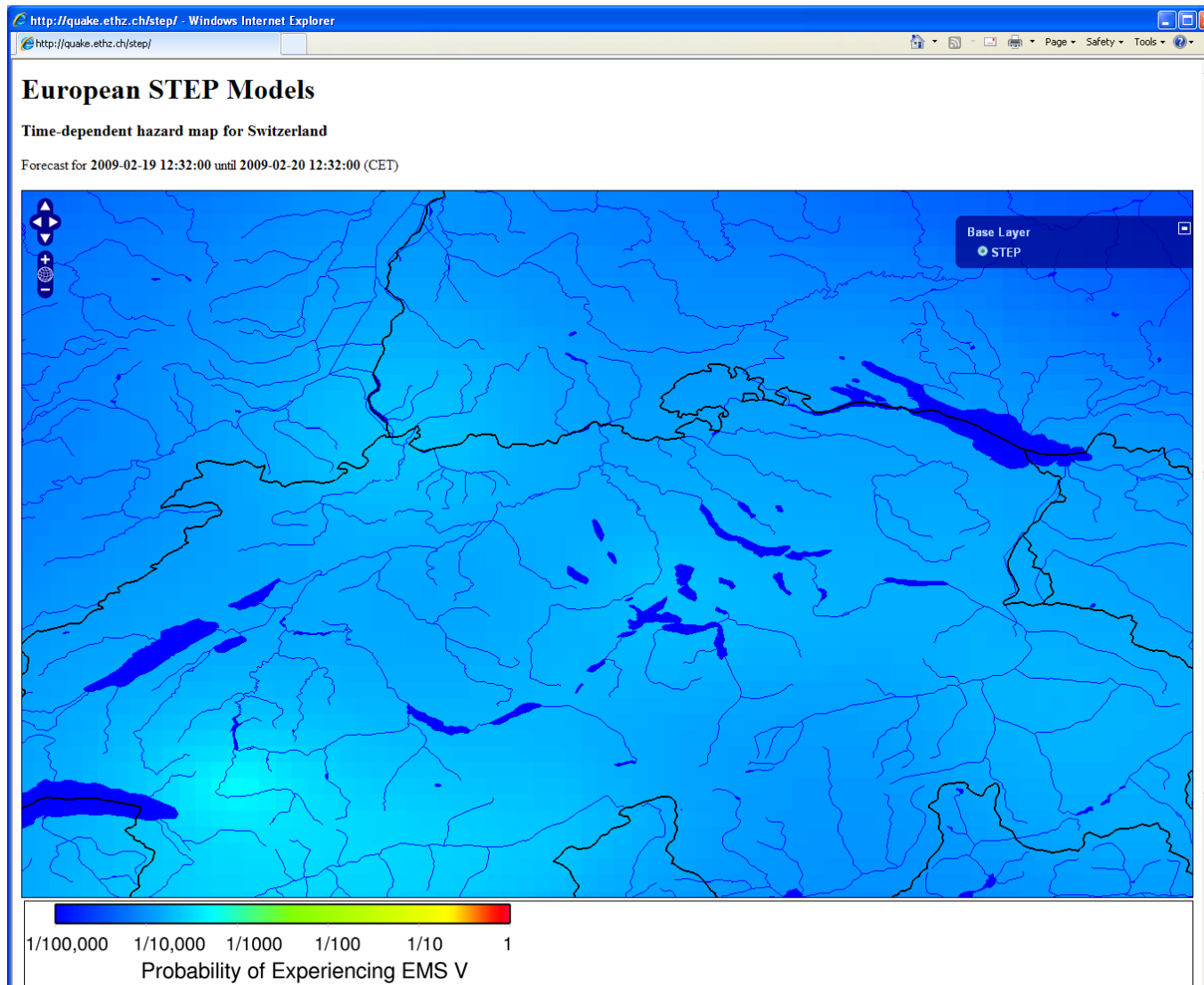
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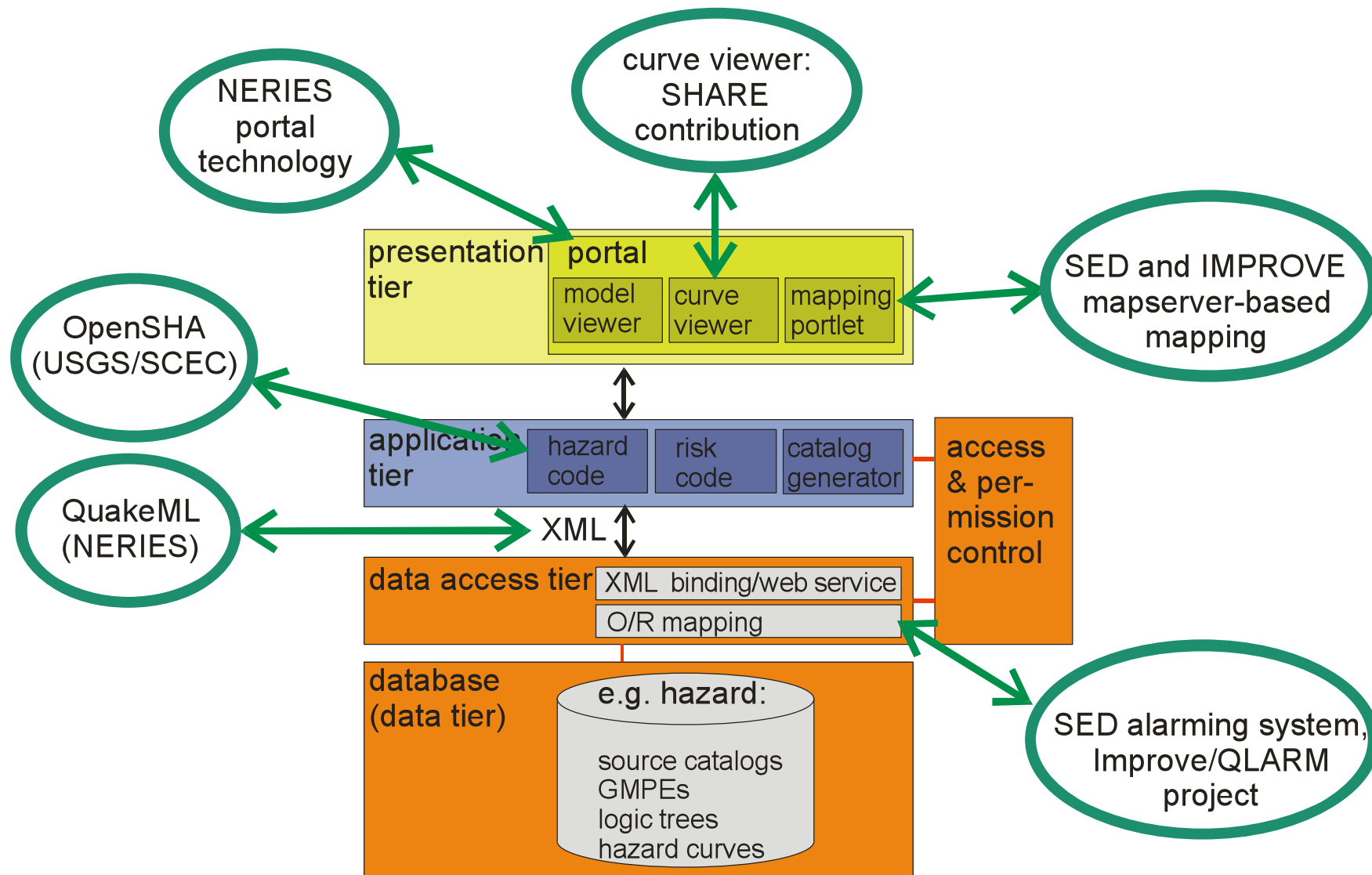
## Time-dependent hazard portlet



- Early draft
- As with all SED web mapping:  
Postgres DB,  
mapserver based  
WMS and WFS  
service  
infrastructure,  
openlayers client
- Portlet wrapper  
tested (but not on  
screenshot)
- Will be mayor field of  
development in the  
coming months



# GEM portal – I – the openGEM overall architecture







## NERA NA10

Draft tasklist (from project proposal – discussions in progress):

- Task A Provide a single (Note: I still question the need for a ‘single’ portal, but maybe it is semantics) integrated data portal providing access to seismological and engineering data sets, as well as to computational and analysis services. (EMSC, ORFEUS, VCE)
- Task B Development of an access portlet for engineering experimental data (VCE, ORFEUS)
- Task C Analysis, and specification and monitoring of user interaction needs and requirements (ETHZ, EMSC, ORFEUS, VCE)
- Task D Develop a virtual data workbench service to manage heterogeneous data requests and result sets from diverse data providers (ORFEUS, EMSC)
- Task E Implement standards for service-invocation mechanism through which external tools and processing services can be invoked on datasets available from within the data workbench (ORFEUS, EMSC)
- Task F Web services synchronization (EMSC, ETHZ, ORFEUS, VCE)