Thema 12: PDF Map generation Service

Generic print service MVP

- single page map in different formats

- default templates in usual sizes (A4, A3,...)

- custom template can be sent to service (data like logos must be included)

- call via POST (multi part form data upload) => JSON (JobID) => Poll JobID => JobID finished => Download Print result (PDF/PNG)

- content:
  - raster: WMS/WMTS URLs, Cloud optimized GeoTIFF
  - vector:
    - VectorTiles: URL-Data + URL-Styling
    - KML/GPX: URL-Data + URL-Styling (SLD)/Data + Styling in Request body
    - GeoJSON: URL-Data + URL-Styling (SLD)/Data + Styling in Request body

POC

- minimal interface 2 examples config:
    - simple => hiking map + drawed vector
    - medium complex => vector tiles as background, wms, wmts (bonus: templating features)
- API:
    - OGC WPS API?
    - custom job handling api?
- Queue system (REDIS/RabbitMQ/SQS...) pro, cons, no market research
- Workers:
    - minimal implementation (at least the two examples should be stisfied)
    - job polling
    - scalebility