



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Bundesamt für Landestopografie swisstopo
Technik und Innovation

wissen wohin
savoir où
sapere dove
knowing where

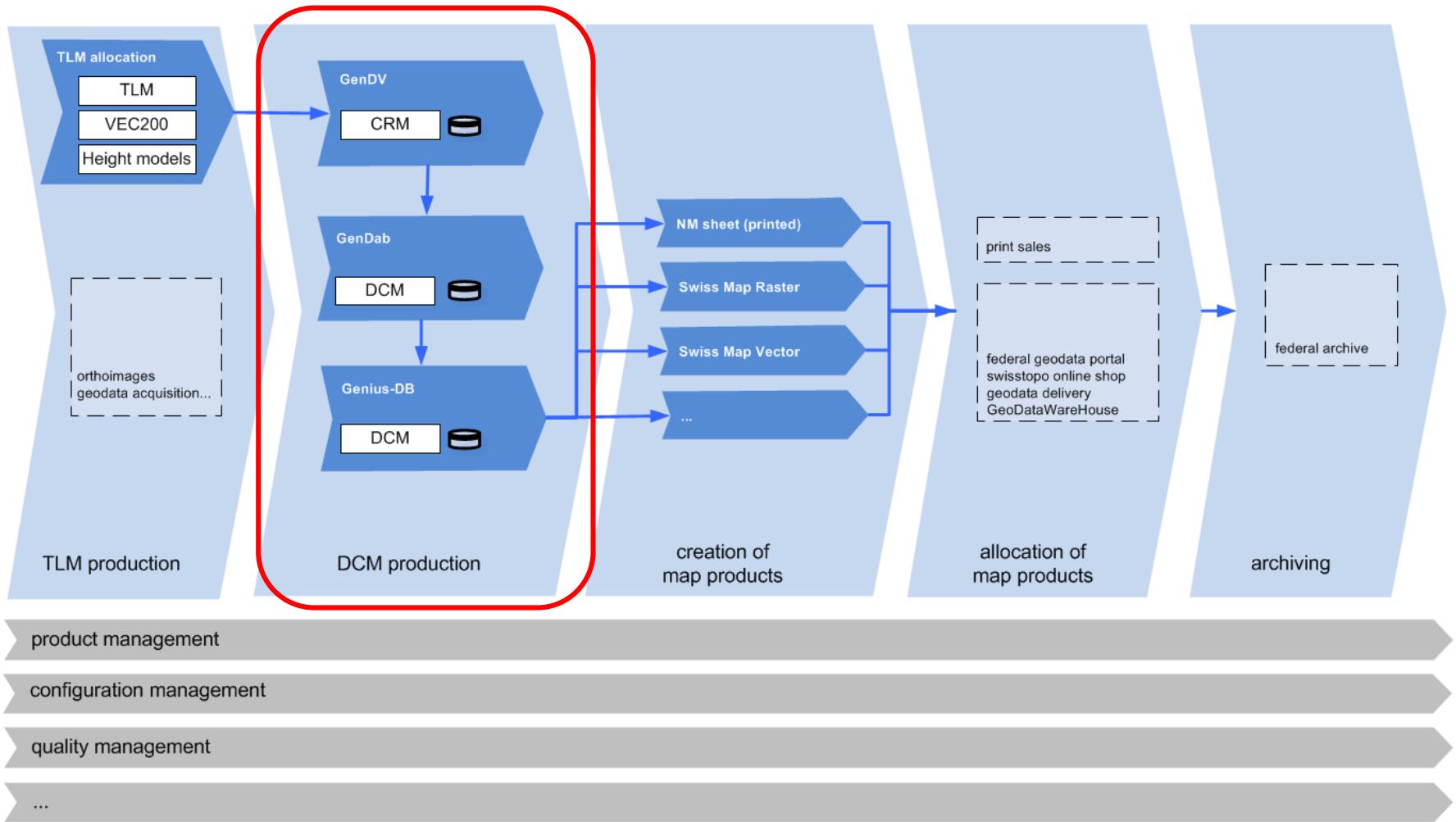
New national maps for Switzerland

11. November 2015

Dominik Käuferle

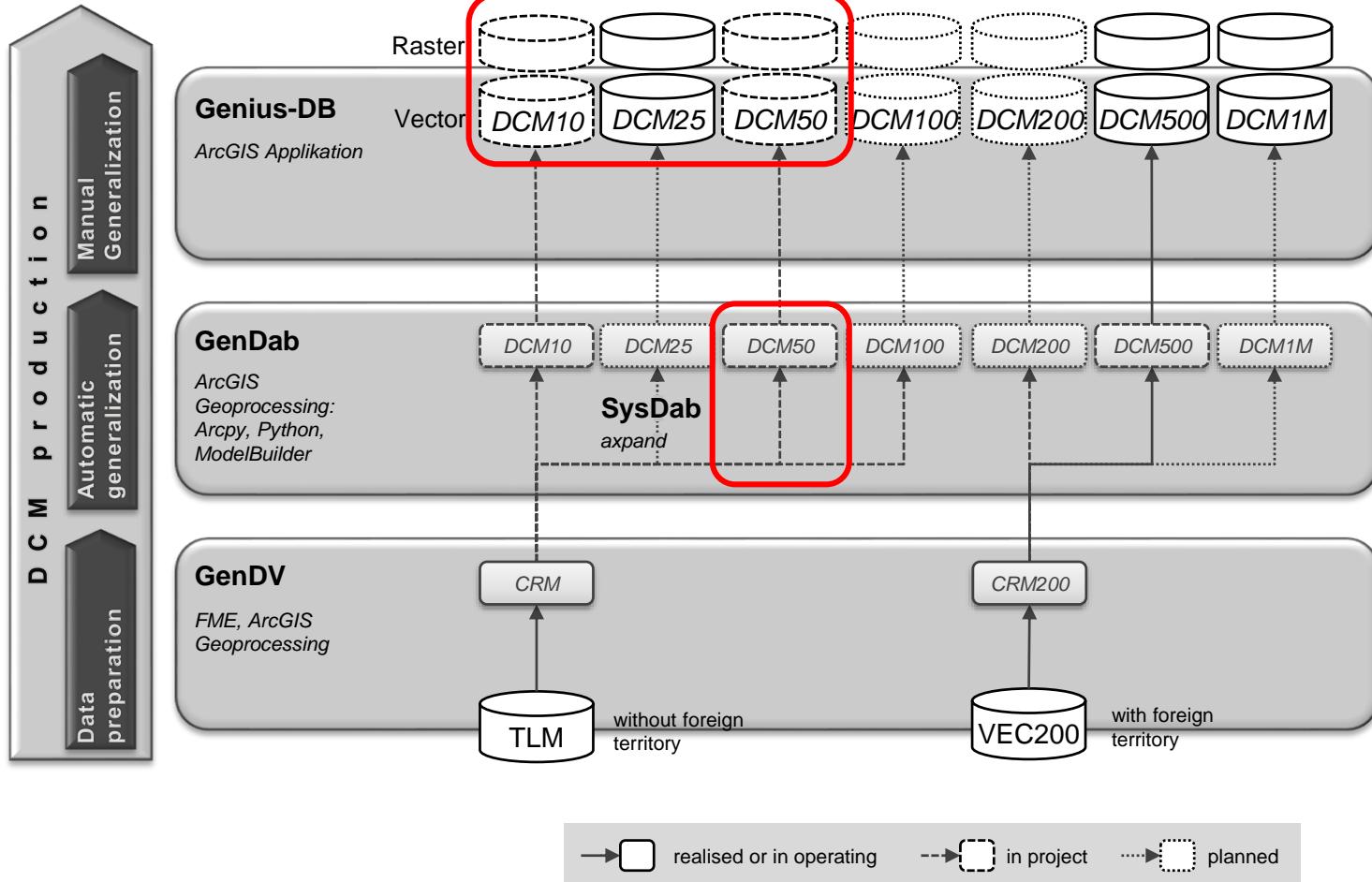


National Map Process chain





DCM production architecture





1:10'000: first release June 2016

Digital Cartographic Model 1:10'000 = new national map 1:10'000

- Fully automated production, perimeter Switzerland
- Source TLM, DTM and DCM25 rock/relief-rasters
- Little automatic generalization (vegetation)
- Automatic text placement
- Digital product



1:10 000





1:10 000





1:10 000



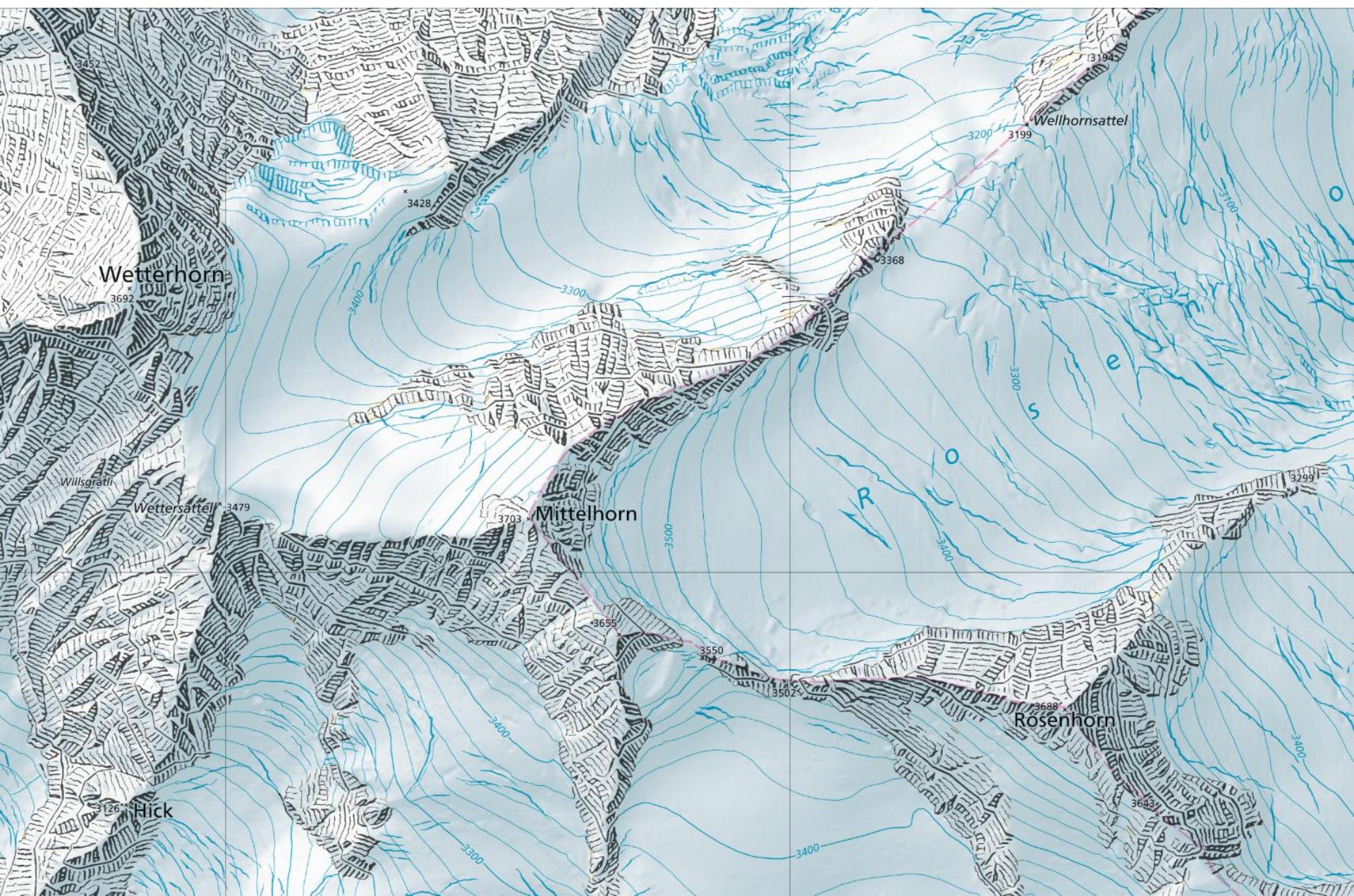


1:10 000





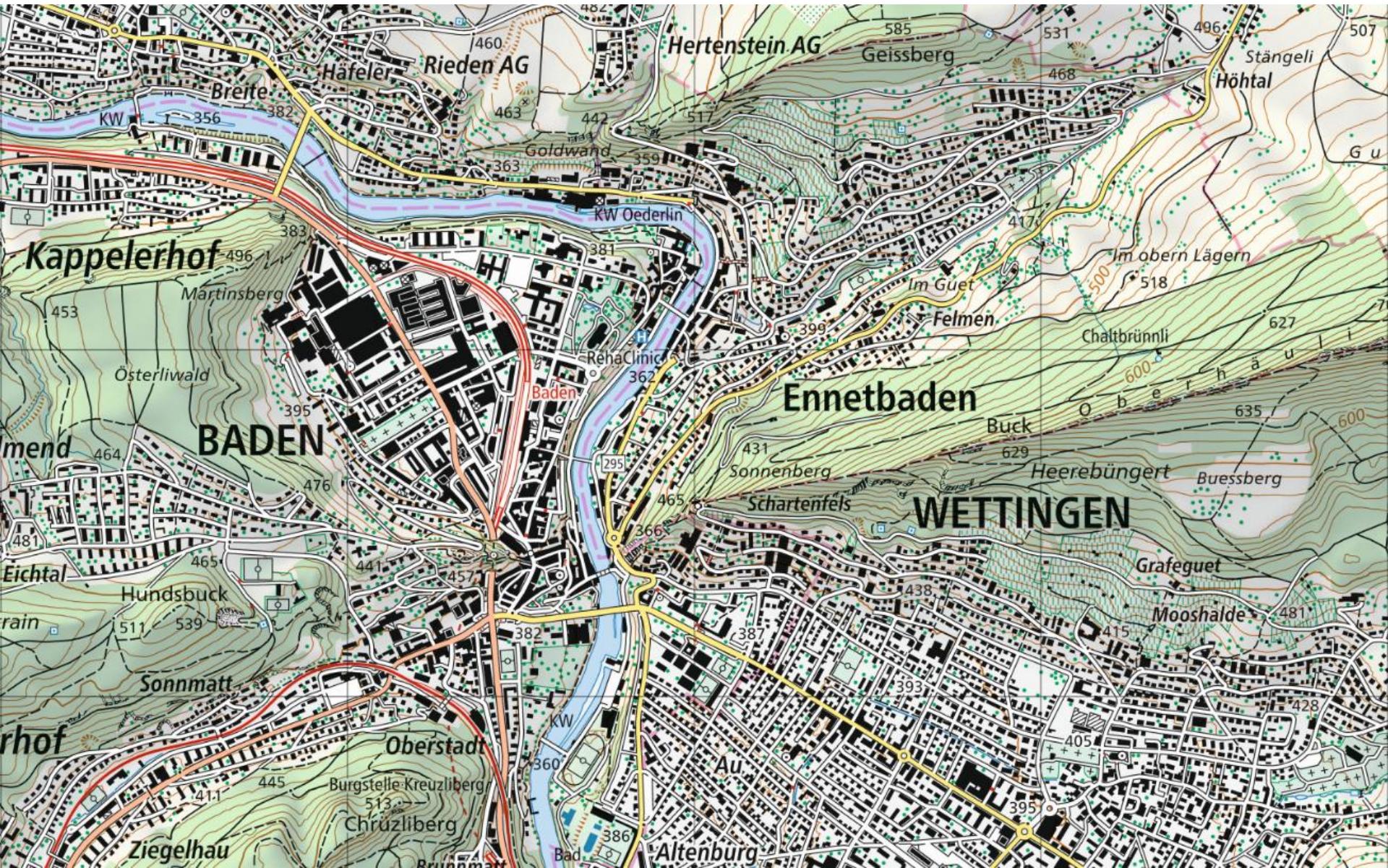
1:10 000





1:25 000: in production

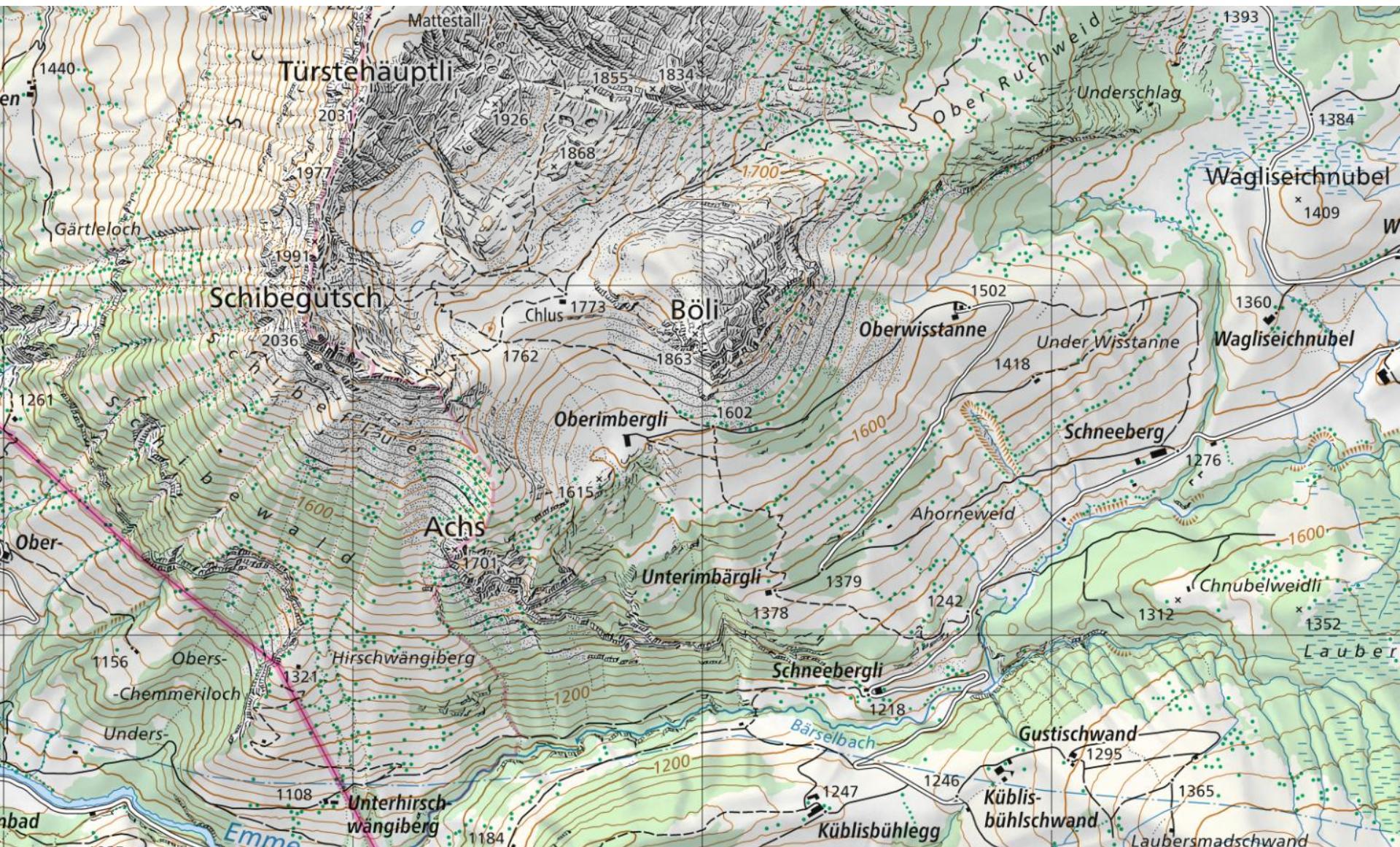
Digital Cartographic Model 1:25 000 = new national map 1:25 000





1:25 000

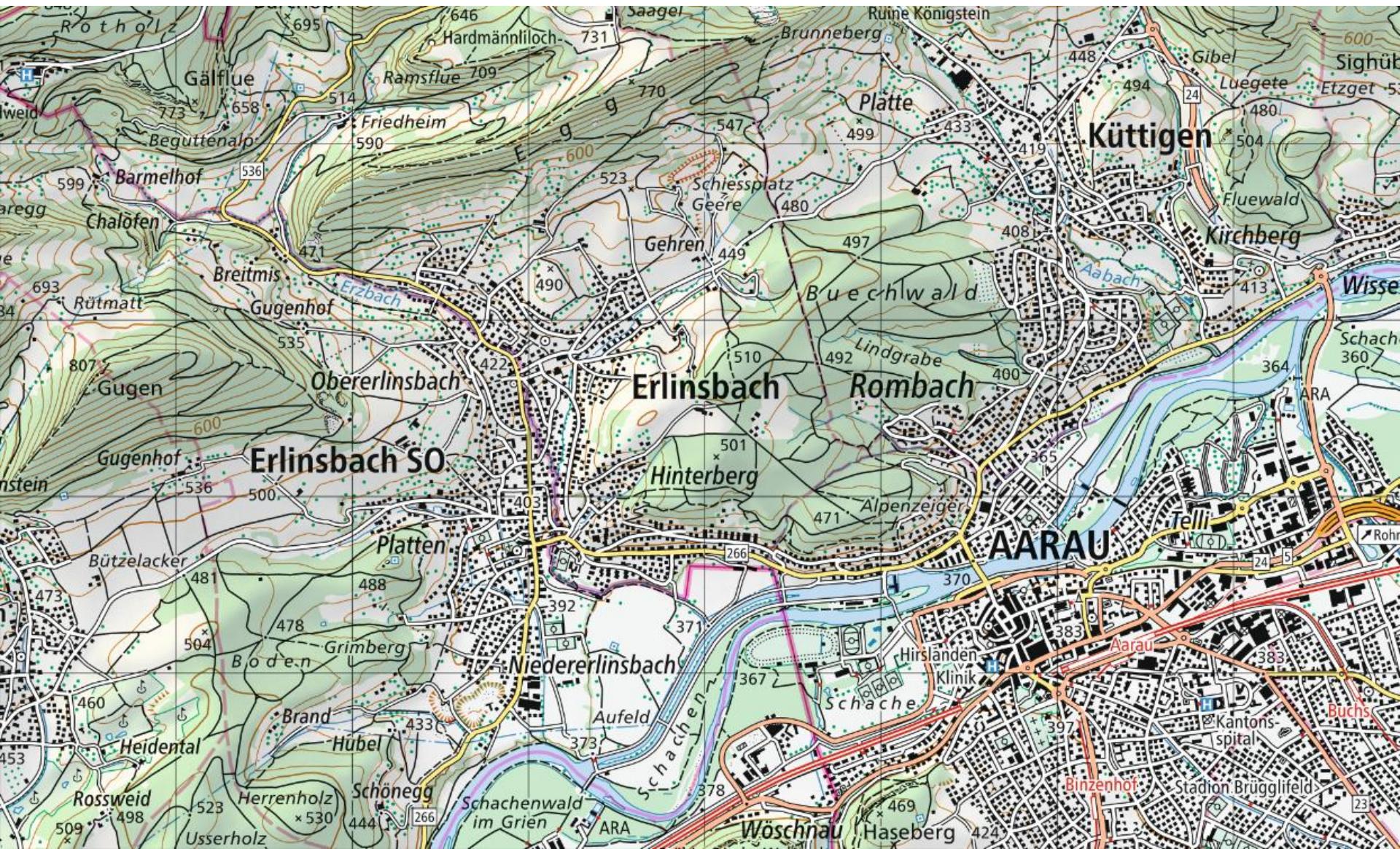
30 map sheets published





1:50 000 : production starts 2016

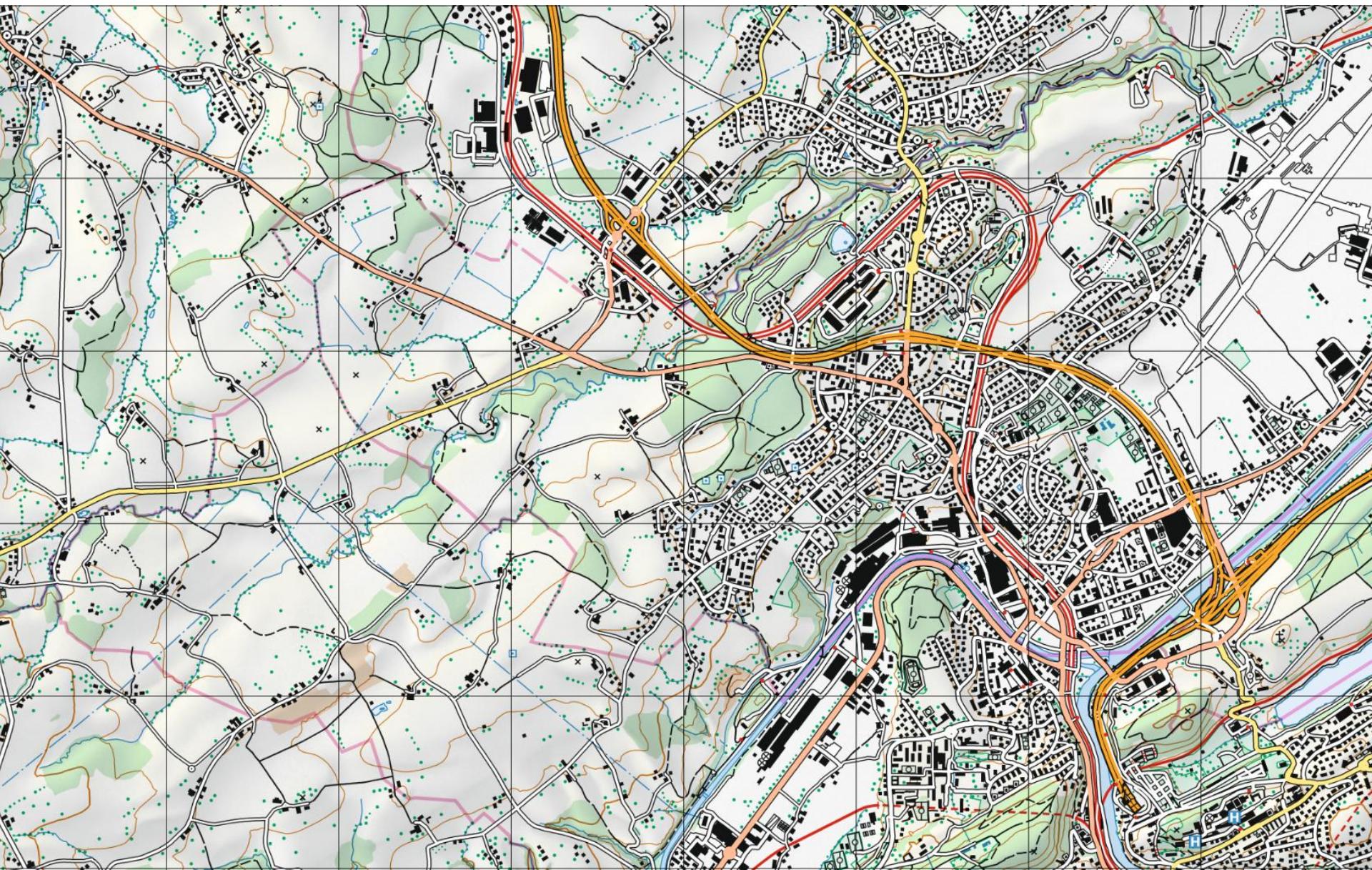
Digital Cartographic Model 1:50 000 = new national map 1:50 000





Automatic generalization 1:50 000

test output october 2015





Automatic generalization 1:50 000

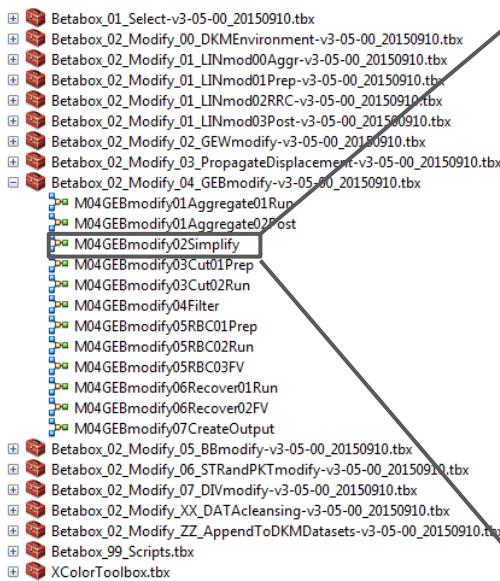
TLM vs. DCM50 test output



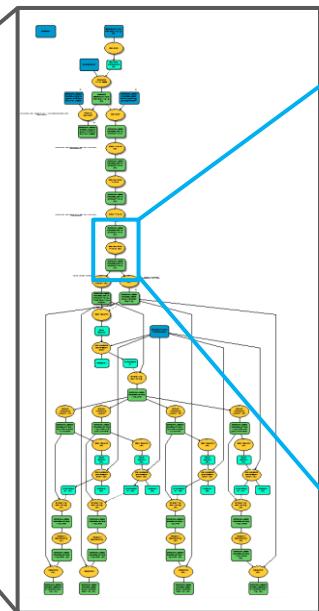


Automatic generalization 1:50 000

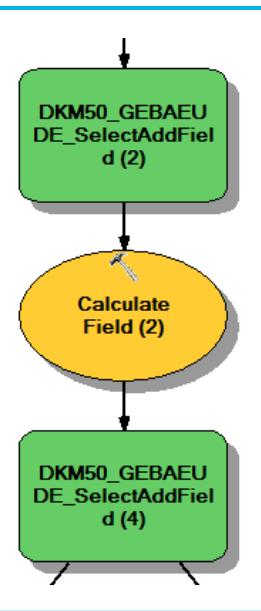
ArcGIS geoprocessing models



Toolboxes/Models

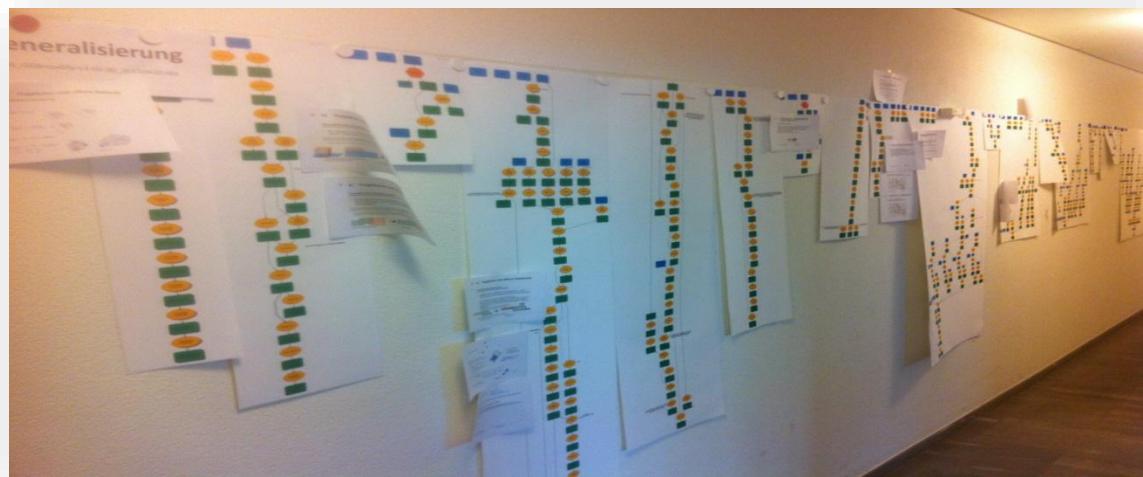


one process model



one process module

Currently 85 models with 88 different geoprocessing tools, which are called ~3 100 times in total





Automatic generalization 1:50 000

4 step dev process



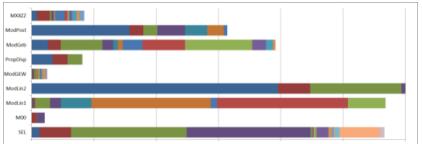
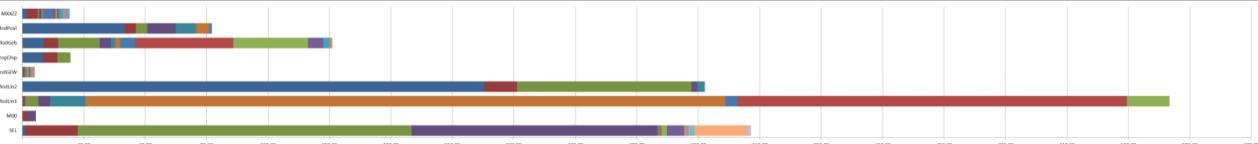
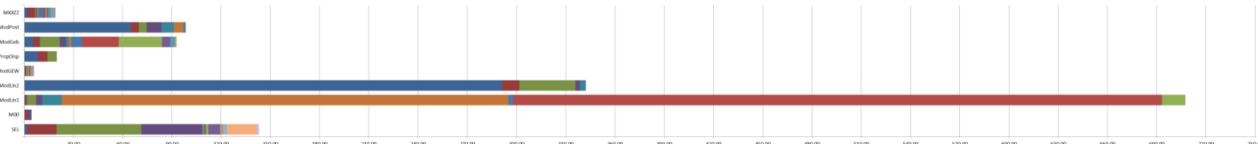
development & testing
agile / scrum ❤

production →



Automatic generalization 1:50 000

processing times

Map sheet	Duration	Process diagram
224 Olten	13.4h	
225 Zürich	25.8h	
226 Rothrist	23.9h	



Questions?

