The New Swiss National Maps
There Strategic Relevance

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New Jersey vs Switzerland

8’700 sq.mi 8.7 mil

16’700 sq.mi 8.4 mil

5’000 daily

50’000 daily
• A 179 year old, government department
• Embracing the future yet driven by traditional values for outstanding cartographic depiction
• Maintaining and training skills alongside modern technical expertise
• With one foot in the future and one in the past
• Balancing the comprise of automation with the values our customers demand
The Challenge: To be Relevant

- Centre of Geoinformation – Based on the Federal Act on Geoinformation
- Ensure the historic relevance for the future
- Reliable cartographic data – Independent of economic interest and within the Swiss Confederation
- Focused on digital publication
- Managing the establishment and operation of the National Geodata Infrastructure
- Ensuring that all Spatial and land-related information is available at a single location
- Localisation through Geoinformation
The Challenge: To be up-to-date

- 80% Automatic Production 1:25K & 1:50K
- 1st Production with GIS 2x faster than updating with CAD
- 100% Automatic Production 1:10K in ca. 100 hours
- High-Quality, Complex visualisation remains a challenge

Workflow 1:10’000

1:10’000 Fully Automatic

1:50’000 80% Automatic
The Challenge: Open Data

- The Swiss Geoinformation market is worth $800 million
- Open government data is a trend – for the Swiss public it’s reality www.geo.admin.ch
- Maps remain the most requested items
- …announce in public (legitimatisce)!

Swiss TV – main news 7.30pm
The Challenge: Better Usability

- Maps, the perfect Interface to Big Data (Gartner, 2013)
- Less data but more possibilities due to new technology
- Elevate your maps with high-quality visuals
- Readable use-case intelligent maps – from hype to useful application
- Think “MOBILE”
- Vector tiling! Can it cope with generalisation & High-quality visuals?
The Challenge: Full Coverage

- The Base data is still missing in the Alps
  ➢ The new 1:10K as a stopgap

- Fully automatic production from Cadastral data
  ➢ Possible or an Illusion?

- Digital Cartographic Models can offer different styles & content
  ➢ A bright future

- Switzerland; An Island within Europe!
  ➢ Can we integrate our neighbour’s data?
Conclusion

• Map Design and data visualisation are ever important in the days of Big Data
• Reliable and independent Geoinformation are a nations backbone
• A Nations National maps are its visiting card
• National maps a multi-purpose tool, much like our Swiss Army Knife

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