Schweizerische Eidgenossenschaft
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armasuisse
Bundesamt für Landestopografie swisstopo

swisstopo

SOMAP 2012, Vienna

Swiss Map online and the Federal Spatial Data Infrastructure of Switzerland

SOMAP 2012 – Nov. 22nd-23rd 2012, Reto Künzler

Swiss Map and the Swiss FSDI

1. swisstopo

2. FSDI of Switzerland

3. Swiss Map

4. Swiss Map Mobile

5. Future

6. Discussion / Questions

swisstopo's Vision

In the function of the Federal Geo-Information center we...

- **produce** high-quality spatial reference data and products derived thereof,

- **coordinate** the activities for federal basis geodata and promote their broad application and

- **guarantee** to provide data and fundamental bases for monitoring spatial development in Switzerland.

This applies to the planning interval from 2012-2015.
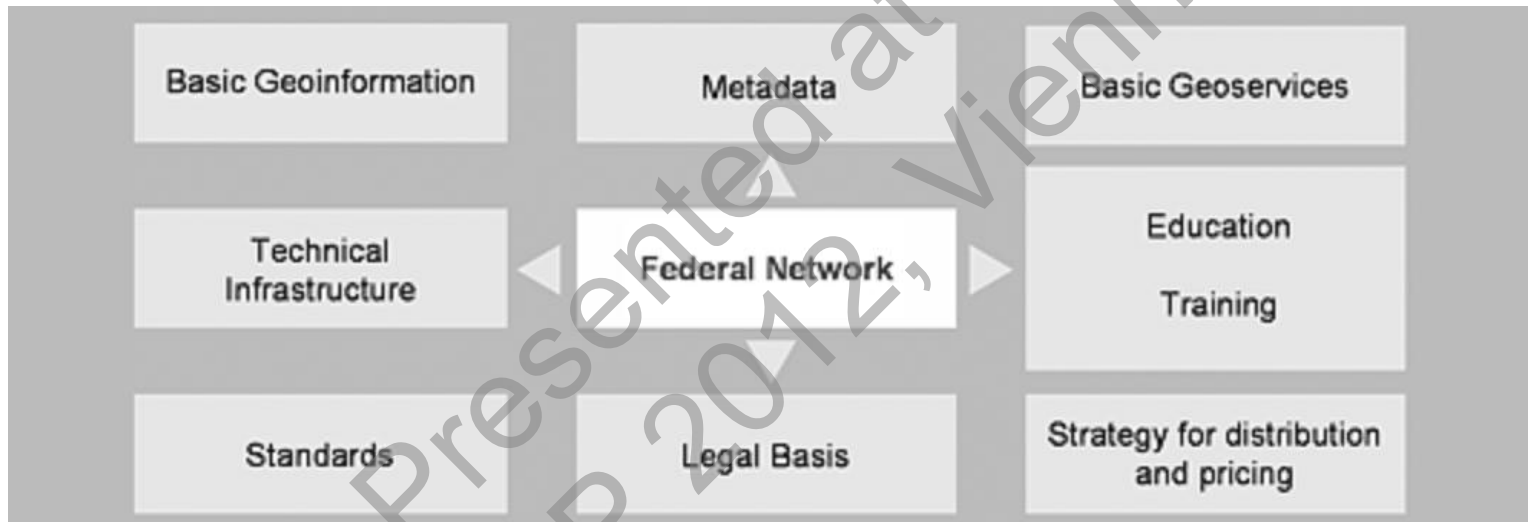
The Organizational Chart of swisstopo
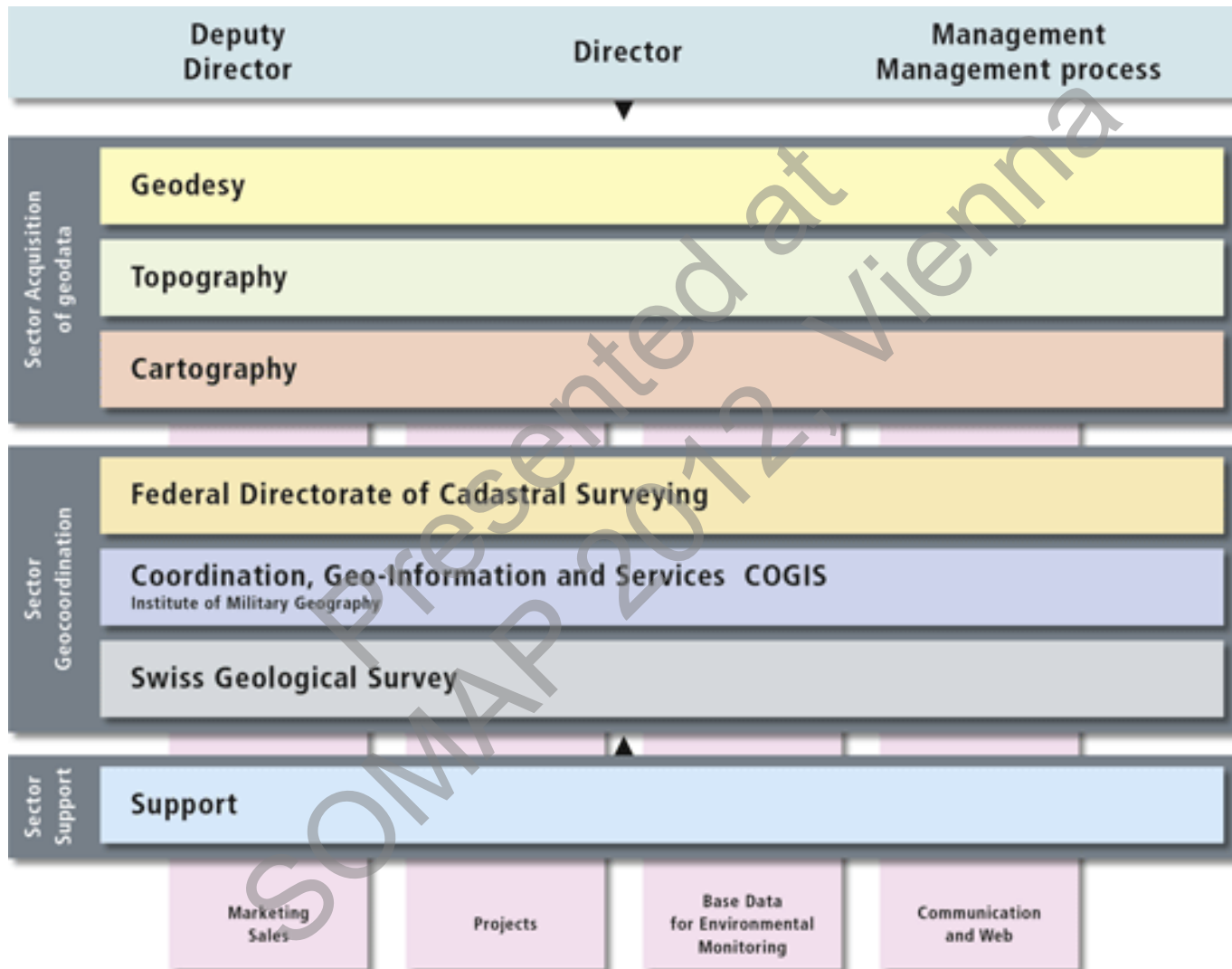
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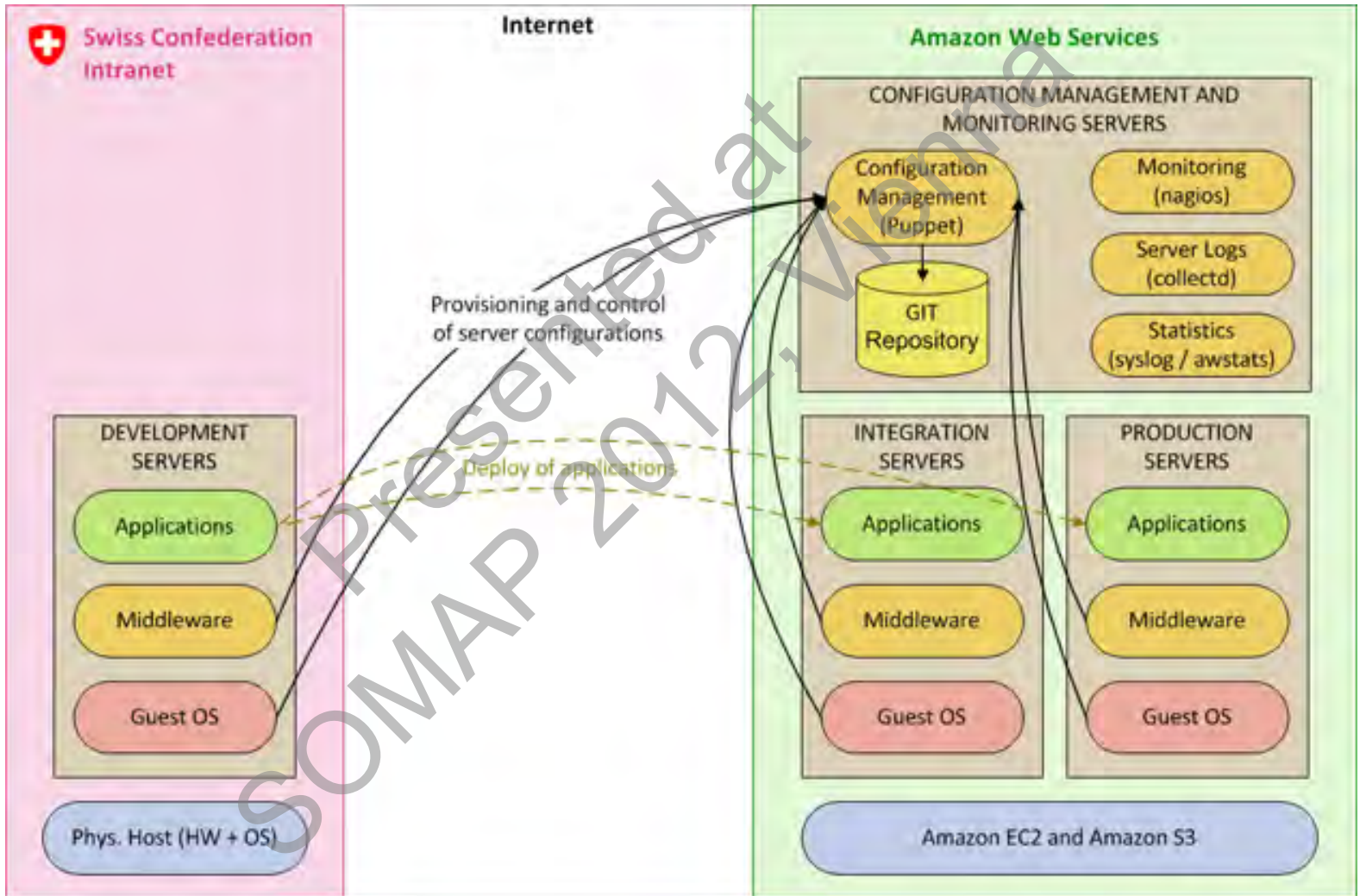5. Future

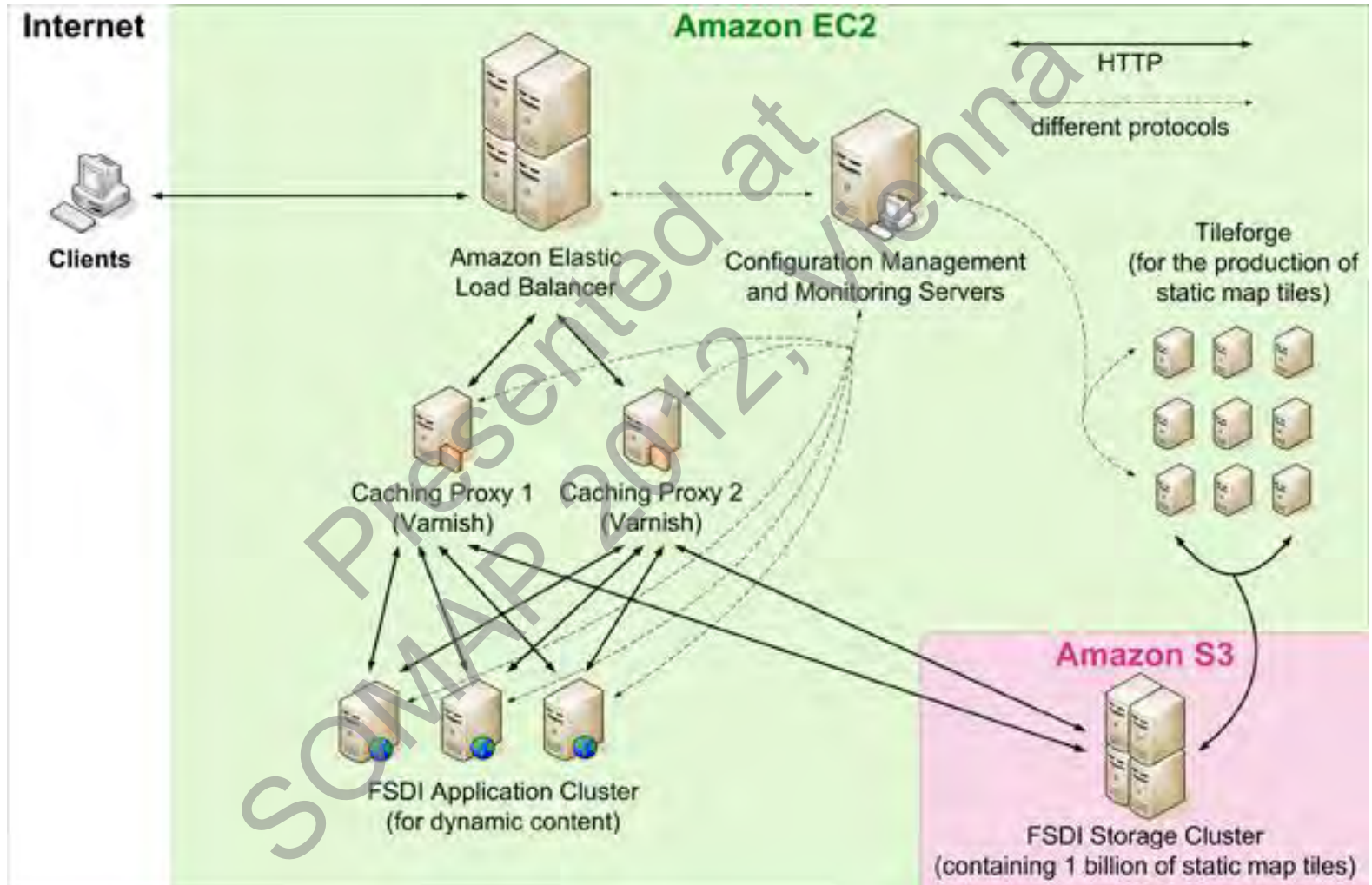6. Discussion / Questions

The nine pillars of the FSDI

swisstopo FSDI Architecture
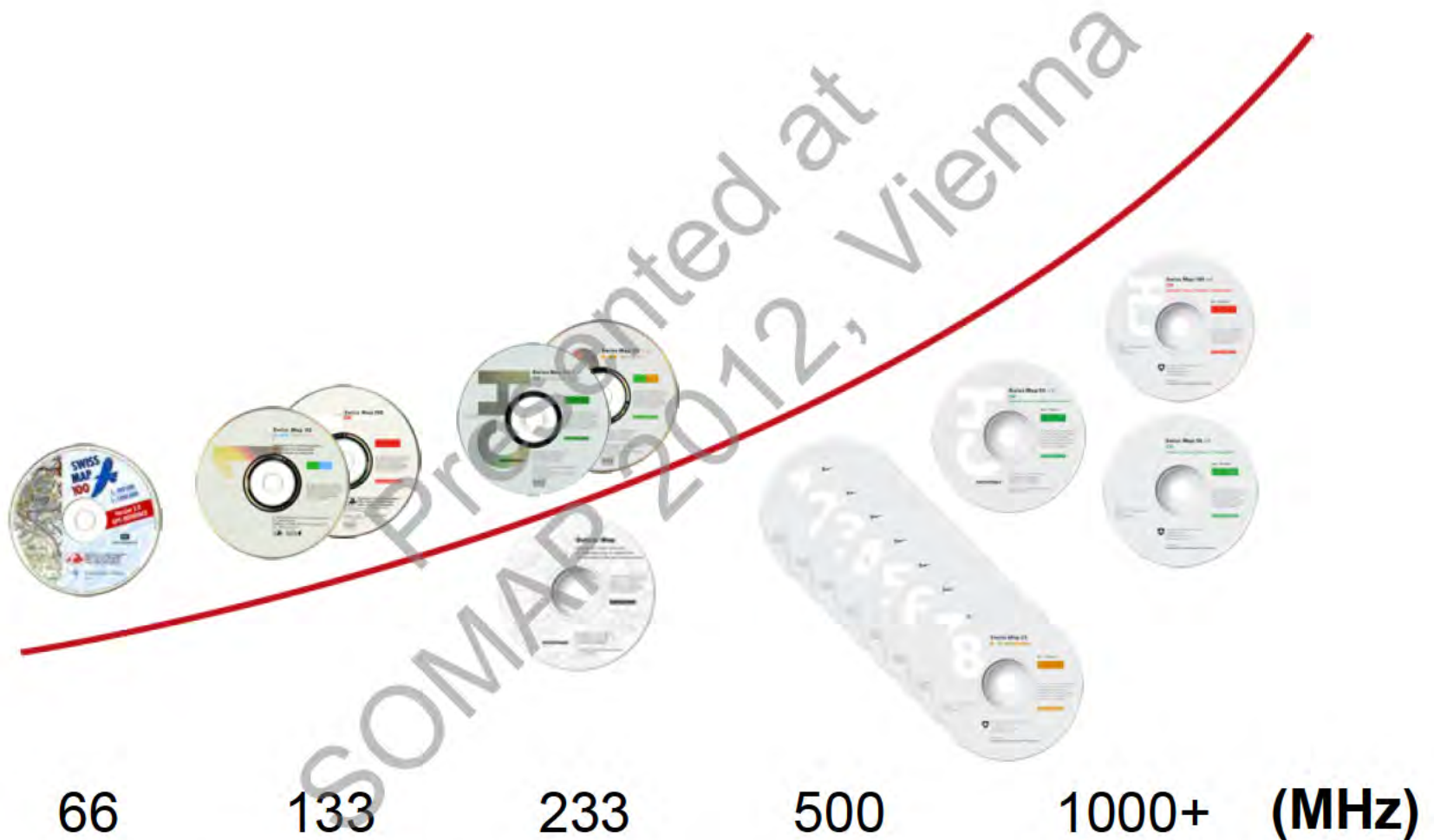
EC2 and S3 within the swisstopo FSDI

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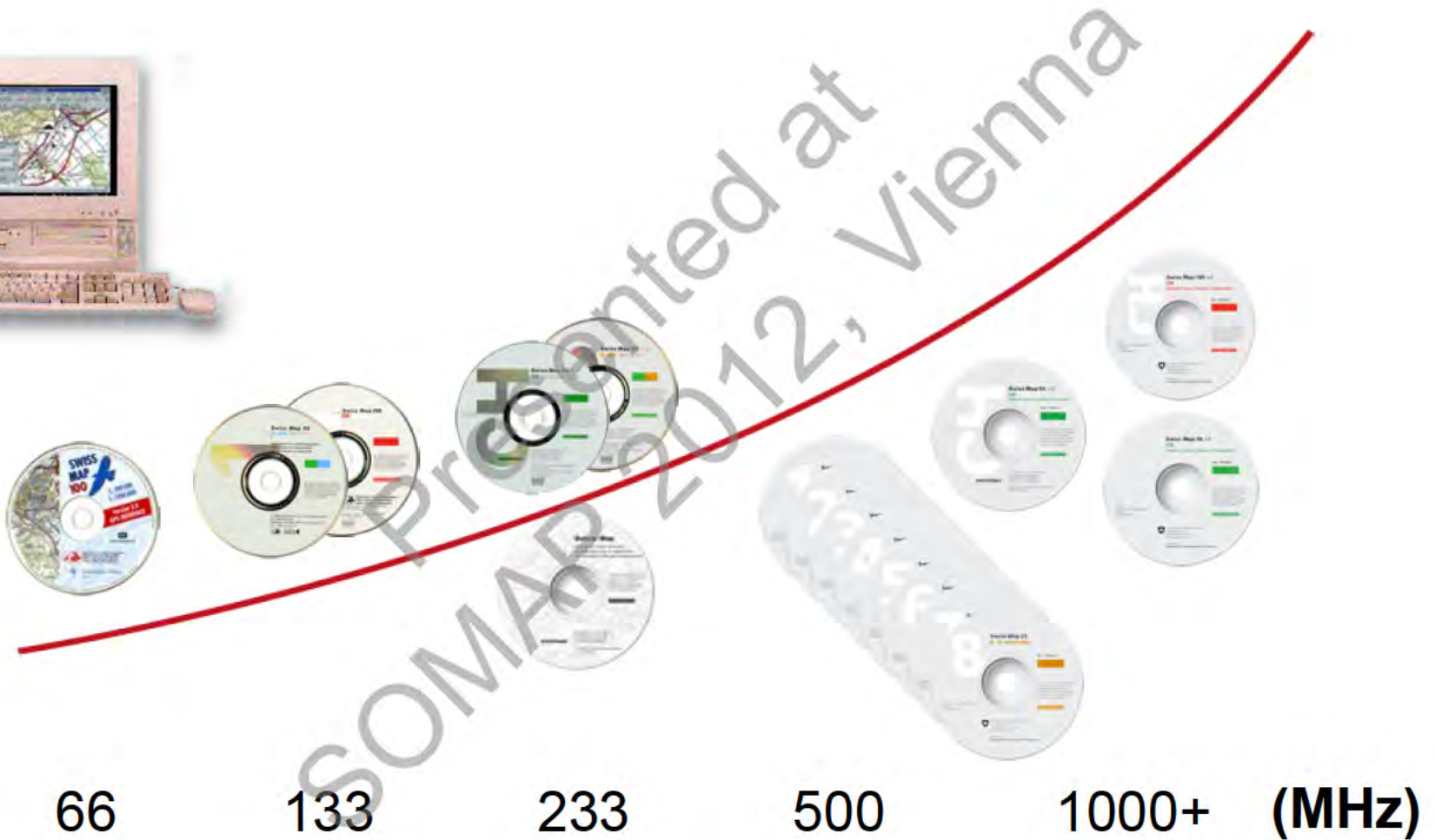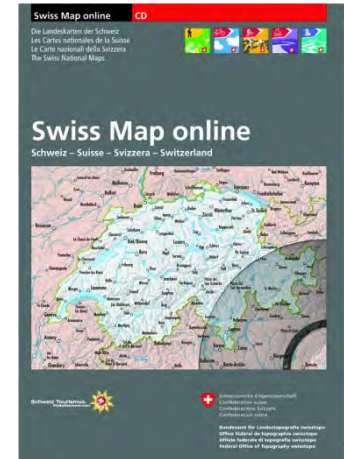
From media-based Swiss Map Products…

66   133   233   500   1000+ **(MHz)**

From media-based Swiss Map Products…

66   133   233   500   1000+   **(MHz)**

…to Swiss Map online using Web Services

FSDI

Swiss Map online - Hans R. Frosch

File   Edit   View   Insert   Graphics   GPS   Window   Help

Available layers | **Selected layers** ✕

Layers

Selected layers

- **Hiking trails** ▲ ▼ ✕
- **SAC-huts** ▲ ▼ ✕
- **Hill shading(swissALTI3D)** ▲ ▼ ✕
- **National map (1:25 000 - 1 million)** ▲ ▼ ✕

Map ✕

Ritzlihorn

Overview ✕

Profile 1 ✕

2500
2238.3
1800
1200
800

0

2000   4000   6000   6609
7.8°
13.7%
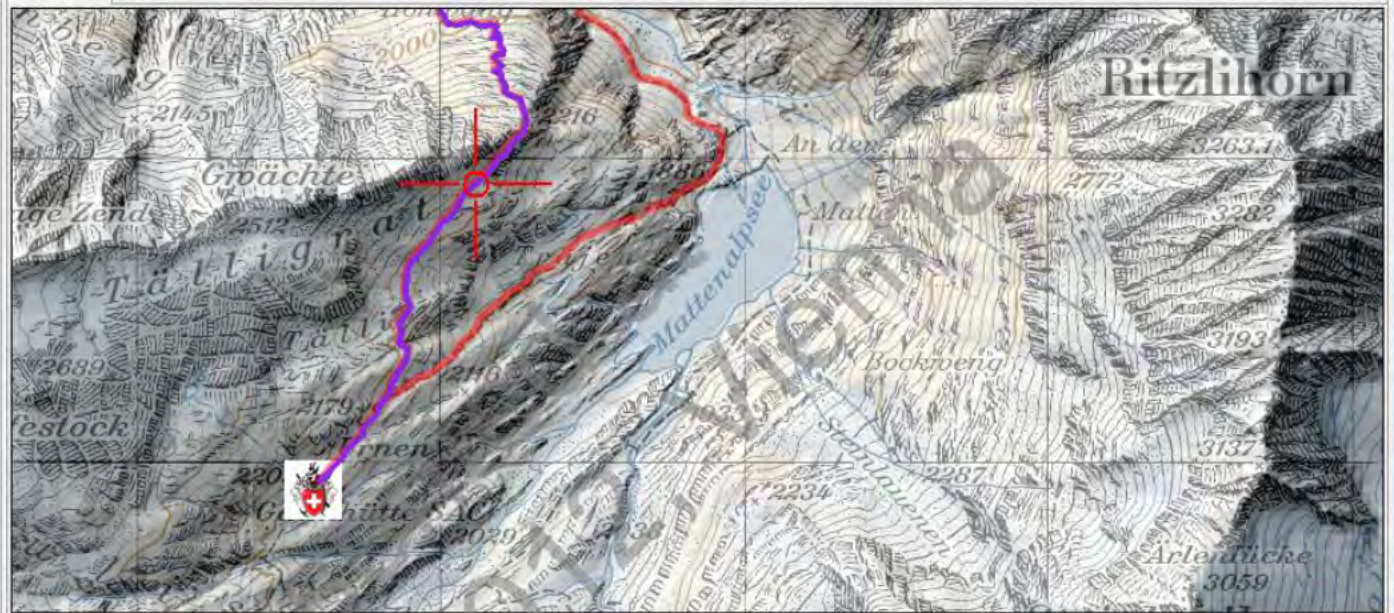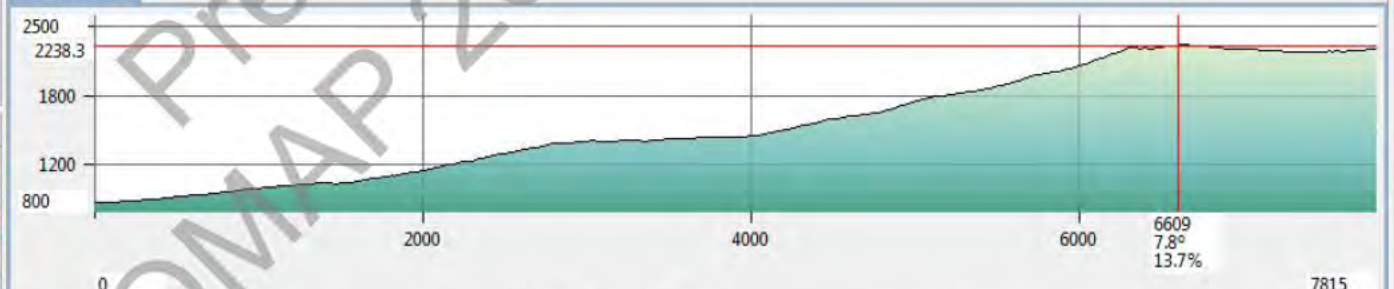
7815

Values				
Distance	7815 m	Time	4h 36min	
Total ascent	1486 m	Minimal elevation	879 m	
Total descent	158 m	Maximal elevation	2240 m	

Behaviour
- ○ Zoom
- ● Crosshair

Settings

Grid	Degree of detail
	Offset	Lines
Vertical [m]	2000	☑
Horizontal [m]	600	☑

Reset

Export

Print

663028 164429 | E 8.261646° N 46.628133° | E 8° 15' 41.93" N 46° 37' 41.28" | 5 m/px | NM 1:50 000 | 100%

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Swiss Map Mobile - History

- SonyEricsson / Swisscom (2008)
- Swiss Map Mobile 2009:
  - Symbian S60 (Java ME)
  - Windows Mobile (5.x – 6.5)
  - iOS
- 2010:
  - SwitzerlandMobility, panoramic view, AR
- 2011:
  - Android

Swiss Map Mobile

- Possibility of offline data usage is mandatory
- Channels: App Store / iTunes, Google Play
- (Still) growing potential in Switzerland
- Cloud storage
- Partnership with private SW company

- Amap mobile from BEV

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Swiss Map – future aspects

- Possible separation of software and subscription (access to data) instead of integrated and combined products
- Central management of subscriptions
- Enhance interoperability

Conclusion

The co-existence of free portals/services and commercial products is demonstrated to be possible and beneficiary.

The different and partially complementary needs for geodata can be satisfied using a modern service infrastructure.

The presented solution can evolve and adapt to future fields and dimensions: open government, open data, shopping solutions and new products for new platforms.

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Acknowledgements

I thank…

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- Christine Najar and Silvia Künzler-Roth

- Organizers and sponsors of SOMAP 2012

…and YOU of course for your attention!

See full paper «Swiss Map online and the Federal Spatial Data Infrastructure of Switzerland» in «Service-Oriented Mapping 2012» by Markus Jobst (pages 407-415)

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