

NGA DEPLOYMENT in Switzerland

ANCOM - Conference

The Communications Infrastructure – A Topical Issue in Europe, November 2013

René Dönni Kuoni, OFCOM Switzerland



Goals of Swiss Telecoms Policy

- Good quality services fot whole population and economy at reasonable prices
- Reliable and achievable Universal Service for all parts of the Country and for all groups of the population
- Competitive landscape in telecoms
- Well placed in international comparisons
- => Fostering market forces
- => predictable Regulation
- => Non discrimination
- => incentives for sustainable high speed investments



Telecom Regulation in Switzerland

- Ex post regulation for interconnect and LLU of Copper
- No regulation of Fiber access in the Swiss Telecoms Act
- Restricted Bitstream Access Regulation (4 Years)
- Regulated Duct Access (LRIC)
- In practice: Mobile Termination Rates non regulated (ex post)

Construction rules regarding Telecom

Relevant authorities: Cantons and Communities

Wireline :

Use of public ground for free

Permissions must be easy to get

Obligation to announce and to coordinate

Need to co-utilize existing ducts if spare capacity available

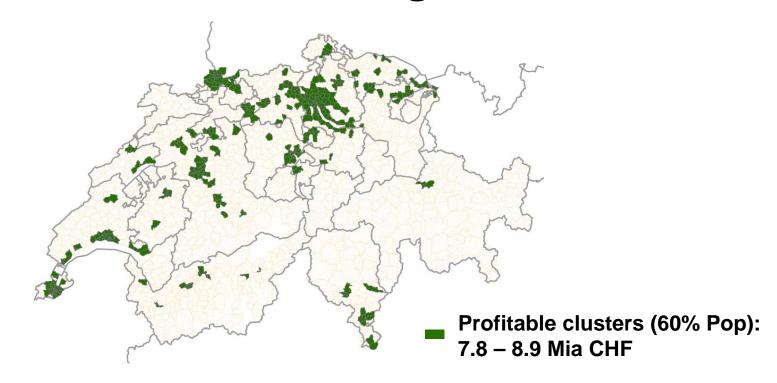
Mobile:

No free use of public ground

Co-regulated by environmental law and protection of landscape



Cost modell of FTTH greenfield rollout



Total rollout

Single fiber: 21.4 Mia CHF

Multifiber 4 fibers 23.9 Mia CHF (1 Operator)

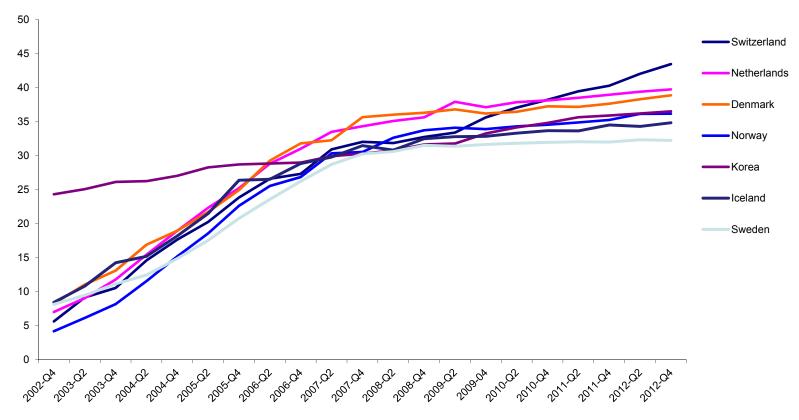
NGA deployment : Swiss features

- Part of Governmental strategy on information society.
- Good quality infrastructure (ducts, utilities, spare capacity).
 Strong Cable industry in Switzerland.
- FTTH Cooperations in Cities. Swisscom & Utilities
 Round Table, mediated by the Regulator. "4 fibres"
- Multistakeholder working group, lead by Government: Broadband mapping and publication of examples. Transparency and awareness.
- Political debate regarding possible changes is focussed on investment and coverage.



NGA developpment in the OECD

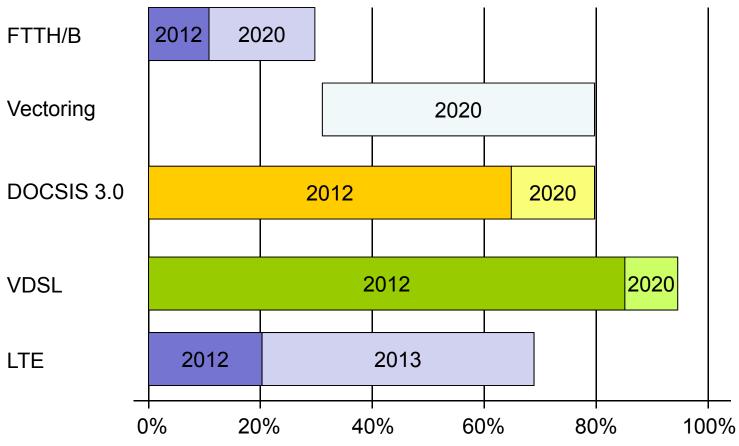
Fixed (wired) broadband penetration, historical leading OECD countries through, Dec. 2012



Source: OECD



Rollout in Switzerland



According to Operator announcements



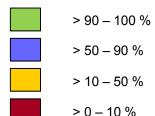
Jointly developped Guidelines

- Dedicated for local actors : Cantons, Communities, Operators
 - Transparency
 - Fostering NGA-deployment
 - Activation of local forces

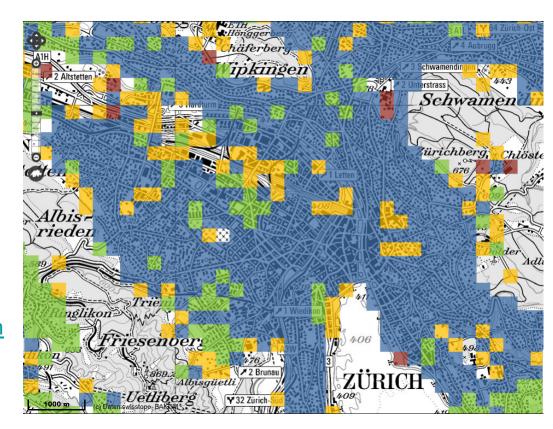


Broadband mapping: services, bandwith, technologies, choice, antenna sites

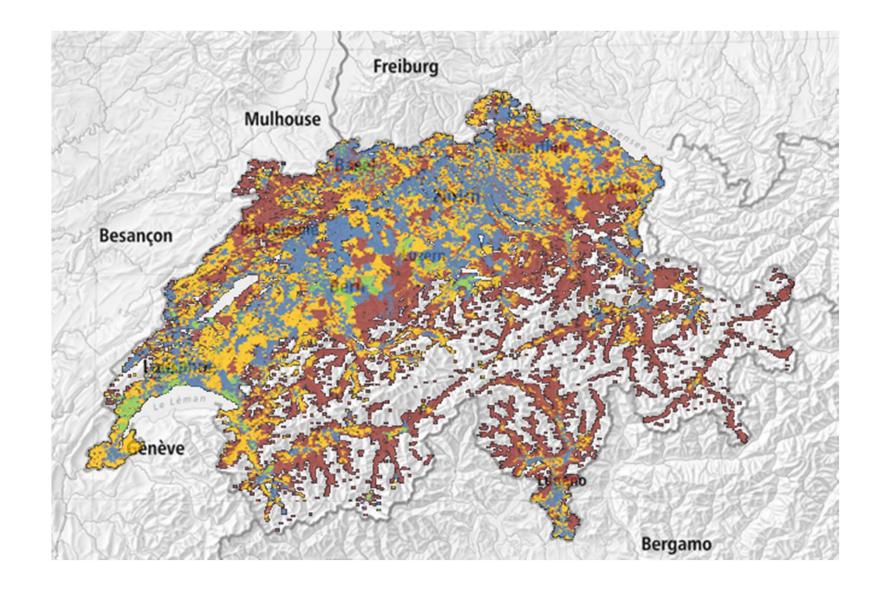
Download ≥ 100Mbit/s



See: www.Breitbandatlas.ch









Discussed changes in regulated access pricing

Short run proposals:
 Duct access according to "Investment Renewal Accounting".

LLU of Copper: prices based on Fiber costs, taking into account differences in quality and service levels.

Interconnect based on NGN, glide path to avoid sharp changes.

Long run proposals:
 Maintain ex post regime but expand into technologically neutral access regulation.



Related political issues

- Universal Service Obligations:
 - Short run proposals: increase the garanteed bandwith (1 - 2 Mbit/s).

Long run:

Re-think the scope and the financing mechanism.

- Radio networks radiation levels:
 - Debate on the further deployment of mobile communication infrastructure in relation with public health.



Thank you

Bern: Unesco World Heritage

