

Agenda

Topics

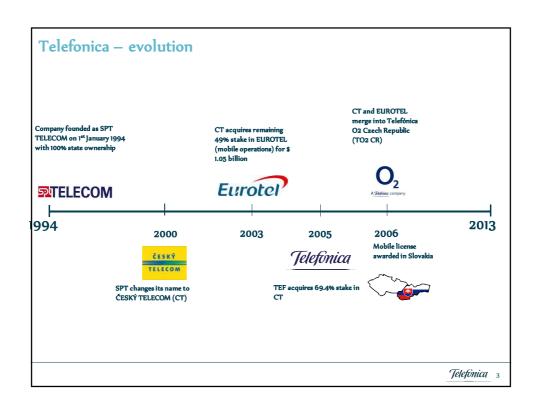
- International roaming
- Operator's perspective on 4G mobile broadband, including future tariff design
- Competition on Czech telecom market
- IPTV service development

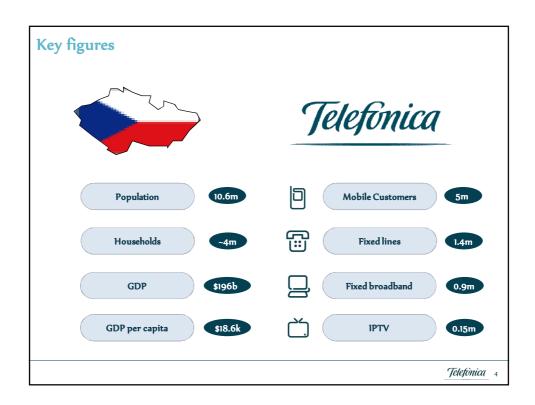
Specific questions

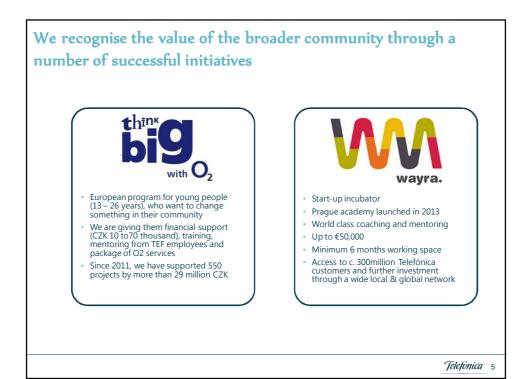
- applications? tariffs?
- 2. Do you have flat rate tariff or do you charge differently based on transmission
- 3. What may be the reasons that the 4G take up rate is much lower in Europe than in the United States?
- I. What are the key success factors of 4G? e.g. 4. What are the challenges in offering mobile evolution strategy from 3G to 4G? new 4. What are the challenges in Czech? What are the bottlenecks?
 - 5. Do you find it difficult in finding sites for base station? Are building owners willing to lease their rooftop for operators to erect base
 - 6. What regulatory measures do you wish CTO to do or not to do?
- 7. It would be beneficial to consumers of both Czech and Taiwan if the international roaming charges could be reduced. How can NCC and Telefonica collaborate to make that happen?
- 8. How well are O2's following tariffs received by consumers in the Czech mobile market?

- Introductory presentations 45-50 mins
- Q&As session

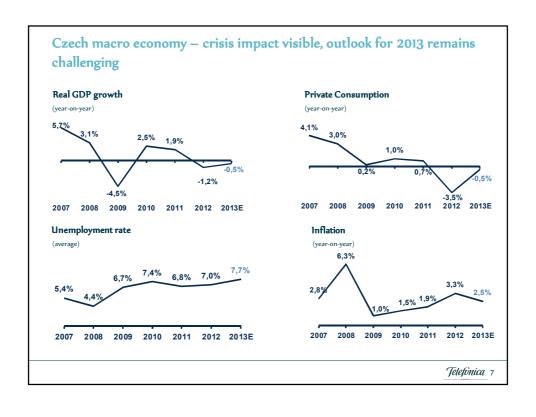
O1 Introduction

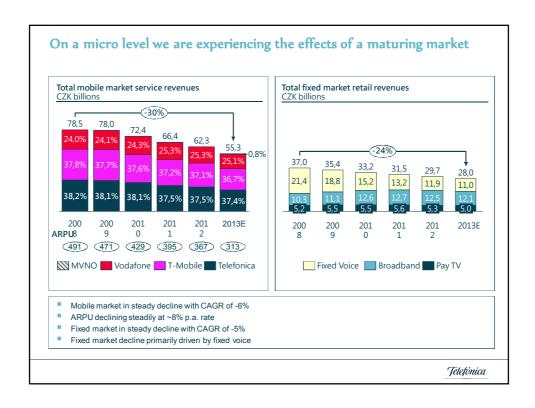


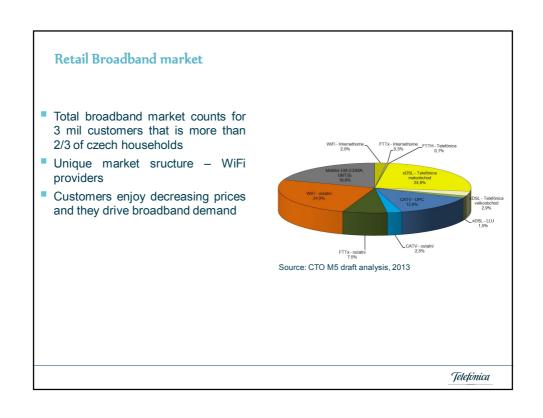




O2 Market context

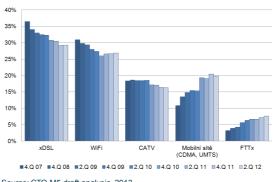






Broadband market share

- Infrastructure competition proved to drive market growth
- Significant importance of mobile broadband almost 20% share despite complementary usage to fixed broadband

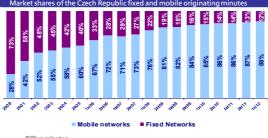


Source: CTO M5 draft analysis, 2013

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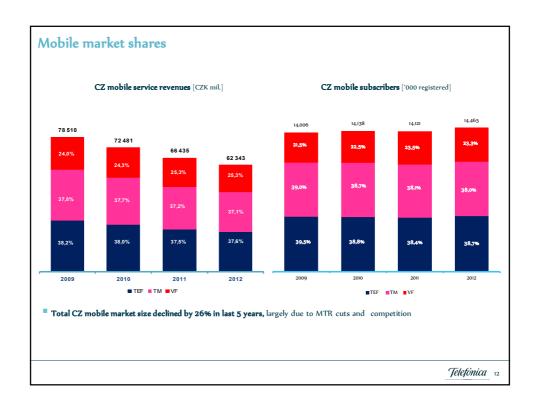
Fixed voice

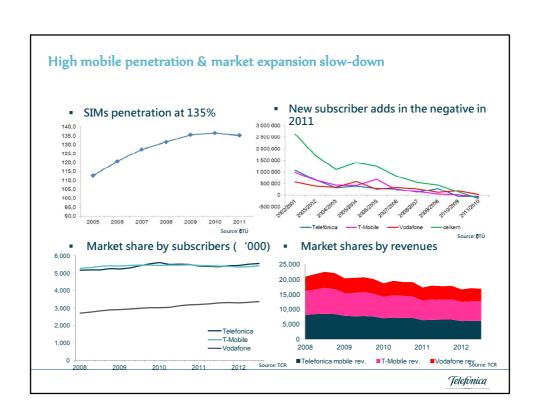
- Strong fix mobile substitution
- Fix penetration peak in 2001 (~3.8m lines), steady decrease since
- O2 Home concept since 2008. Traditional fixed voice add-on to fixed broadband

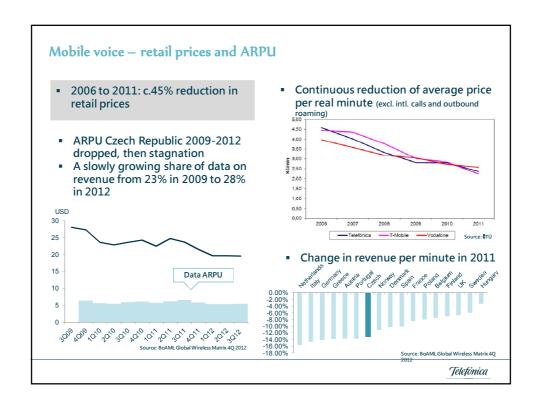


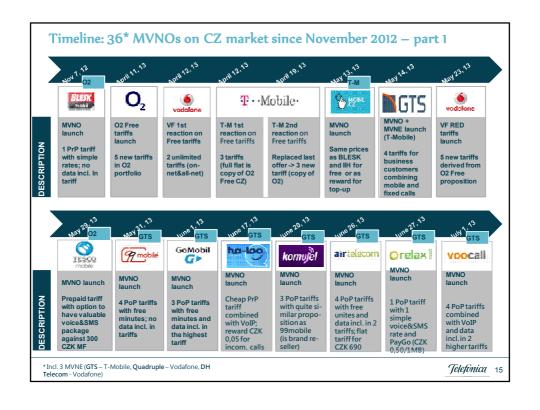
(2007-2016)

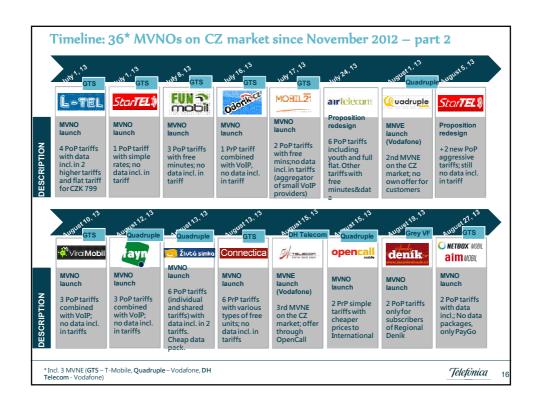


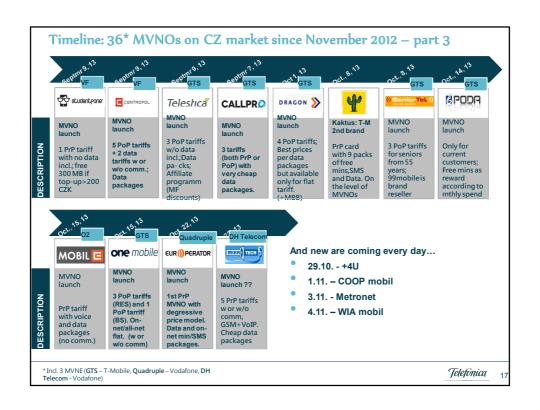


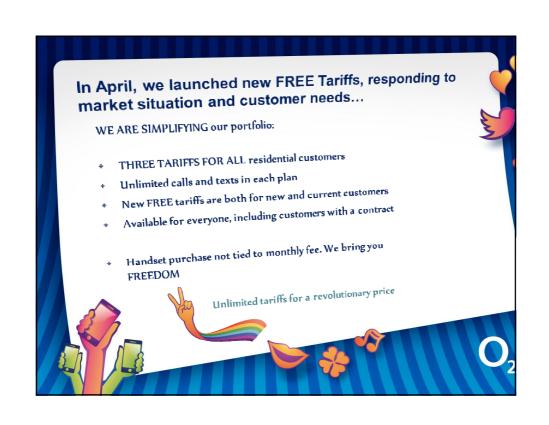














Network sharing with T-Mobile will bring significant value, leveraging the experience with MORAN 1) The country will be broadly divided into two areas, based on the existing MORAN 3G division The innovative MORAN scheme is in operation for 3 years at 1'000 sites, being the first active 3G sharing initiative in Europe 2G and 3G networks of both partners will be consolidated into a common grid Both partners will share active as well as passive infrastructure The result will be a more efficient network with relevant savings Telefónica will continue to benefit from it's robust fixed capacity network Proposed regional division illustrative



Regulatory Framework

- Czech Republic fully implemented the European Regulatory Framework
- Key responsibilities of the Regulator:
- Ex-ante market regulation
 - SMP (Significant Market Power) player designation
 - Imposing regulatory remedies (e.g. access, non-discrimination)
 - Price Regulation
- Spectrum Management
- Customer Protection

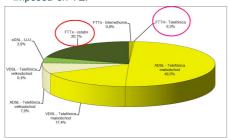
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Key Challenges

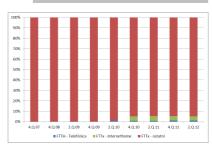
- Formalistic approach to market review process not allowing to fully reflect market realities
 - Relevant market definition technological neutrality
 - Geographical segmentation reflecting regional differences
- Pressure on termination fees
- "Recent" focus on mobile market
- Non-existence of efficient appeal mechanism against NRA's decisions

Fixed market – regulated infrastructures

- Regulator refused to include CATV and wireless in the unbundling and wholesale broadband markets
- Fiber considered only after consensus on fiber regulation was reached
- NGA (fiber) networks enjoy 8% market share on Broadband market.
- Fiber deployment driven so far by new entrants i.e. in unregulated environment
- Yet fiber bitstream and fiber unbundling will be imposed on TEF







Source: CTO analyses

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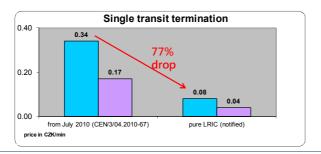
Geographical segmentation

- In 2012 Geographic segmentation/partial deregulation was proposed by CTO:
 - Segment A areas where TEF CR market share is bellow 40% and xDSL+WiFi+CATV/FTTX technologies are available (2/3 of Czech population)
 - Segment B all other areas
- Proposal vetoed by the Commission despite supportive opinion of BEREC
- CTO withdrew the draft analysis and currently applies nation wide market definition

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Fixed Termination Rates - pure LRIC

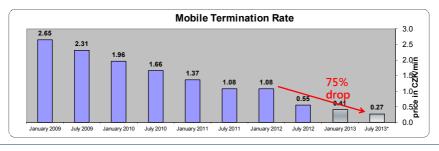
- Recommendation on termination rates applies also on fixed termination.
- CTO developed Bottom Up pure LRIC model and notified new costs to the Commission. Current rates for fixed termination were proposed to decrease 75%
- The Commission has started investigation, Article 7a
- Massive opposition from incumbent and alternative operators who expressed doubts about sustainable fixed voice market
- Following Commission's comments even fruther drop expected (CZK 0,03)



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Mobile Termination Rates

- 75% drop in 12 months leads to massive revenue loss which cannot be covered by other services.
- Further degradation of the financial possibilities to invest in new network technologies and further extension of broadband networks
- Winner of a regulation based "pure LRIC" are those providers which do not operate an own mobile access network
- Mobile operators filed legal action against adopted "pure LRIC" price decision, breach of national law



Mobile origination market review

- Mobile origination market found competitive in 2006
- Considered competitive EU wide removed from list
- Spring 2012 market re-introduced in CR, analysis launched with the goal to impose mandatory wholesale obligations on MNOS
- Public consultation finished in FEB 2013, analysis put on ice
- CTO tried to prove collective dominance, but analysis is superficial
 - Majority of EU markets would be collusive
 - CTO refused to reflect market development in 2012/2013
- CTO still maintains its "market failure" position
- Airtours criteria

Common strategy	CTO failed to define (not to mention prove) any concrete common strategy
Coordination stability	CTO ignores "instability" on the market • Spectrum auction – will double mobile spectrum available • MVNOs entry
Retaliatory mechanisms	Bold "cross-border price war" theory

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2013 Spectrum Auction

2nd Atempt after the 1st Auction failure (spring 2013)

Controversial rules

- Set-aside spectrum for new entrants
 - > No analysis neither justification provided
 - > Illegal state aid breach of EU Treaty
 - > Discriminatory & disproportionate
- National Roaming and MVNO obligations
 - > Illegal intervention to existing rights (allotments) in case of 2G/3G
 - > Circumventing the due process (market review -> SMP designation -> access obligations)

The Czech Court dismissed TEF's action

- Dismissed on procedural grounds
- Judicial review of the Auction rules possible only after Auction ends

