



ITU REGIONAL DEVELOPMENT FORUM FOR EUROPE

# ICTs for EDUCATION

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# Agenda

- 1. Benefits education transformation**
- 2. Broadband access for education**
- 3. Broadband policy for education transformation**

# Benefits of Education Transformation

## Employment and Economic Development

- Builds 21<sup>st</sup> century workforce
- Reduces unemployment

## Competitiveness

- Equips every student for success
- Increases academic rigor and achievement

## Citizenship and Social Equity

- Unlocks student potential
- Prepares students for social leadership and citizenship



“Job losses and earnings losses have been concentrated in low-skilled, low-income households. Many workers remain trapped in low-paid, insecure jobs with little social protection. Young people continue to face record unemployment levels.”

— OECD

# Broadband Access – Key for Success of Education

- **Connect all schools and classrooms with broadband**
- **Educate all teachers and students to use ICTs**
- **Deliver digital content for education**
- **Provide:**
  - **public internet access at schools (community access centres)**
  - **affordable home broadband connectivity for low income student families**
  - **affordable computers for students and teachers**

# Broadband policy – why do we care?

## Goal

**Widespread, affordable, high-quality broadband connectivity is key for education transformation**

## Policies

- **Robust content and app ecosystems**
- **Facilities-based competition**
- **Targeted, efficient subsidies in high cost areas**

# Broadband regulation – where do we stand?

## Current EU telecoms framework

- Successful in bringing competition to the market
- Less successful in promoting investments in ultrafast broadband

## New EU telecoms framework

- Must foster incentive based competition and favor ex-post oversight over ex-ante control
- Remedies must balance the impact on incentives to make risky, expensive broadband investments as well as on static competitive benefits.
- End-users interests and rights must continue to be observed.

# Broadband investments – what we're proposing?

Optical fibre is the future proven prerequisite for 5G, V2x, FTTx

**No access requirements (unbundling) on incumbent's FTTx where:**

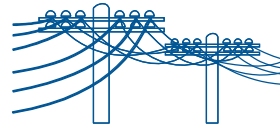
- There is “effective competition”
- Competitors have access to ducts, conduit, poles
- Regulator continues to monitor market performance



**Automobile industry**  
1886 – first motor car



**Telecommunication**  
1844 – first telegraph line

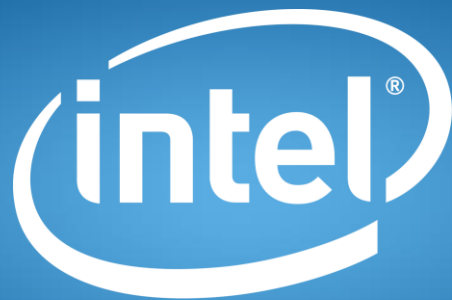


## Conclusions

- Equip schools, students and their families with modern ICT tools and affordable, high quality broadband access
- Modify the regulatory framework to foster investments and financing of broadband access in the last mile
- Liberalize access requirements to ultra-fast networks



Many thanks!



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