



EstWin
Estonian Wideband Infrastructure Network

2009

The Estonian Broadband Vision



To ensure future economic growth and sustain an IT leadership position in the region, Estonia has defined a national broadband vision

Highlights from the Estonian Broadband Vision:

- **Make 100Mbit/s broadband available to the majority of Estonian households and businesses by 2015**
- Bridge the digital divide that today exist between urban and rural areas
- Improve competition

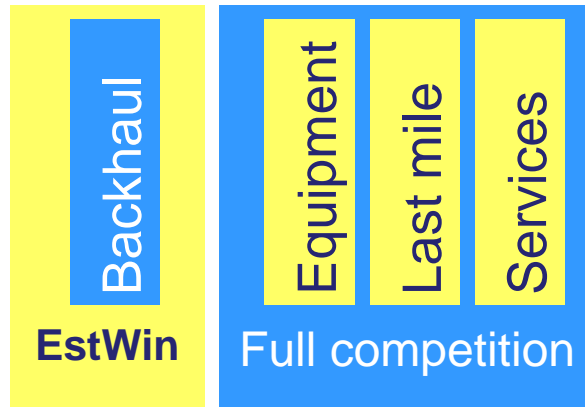
Estonia is aiming to secure EU funding to extend fiber transport coverage to rural areas with low population density, areas where it today is too expensive for operators to invest in infrastructure on commercial terms

Estonian Broadband Vision 2015

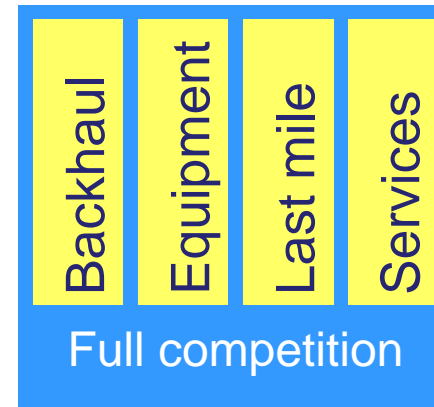
100Mbit/s broadband connection for everyone



Rural “white” areas



Urban and “black” areas



Financing:

EstWin 1 2009 - 2011 2000 km fibre	The Ministry of Agriculture - EERP/AGRI
	The Ministry of Internal Affairs – Structural funds
	The Ministry of Economic Affairs and Communications – Structural funds

EstWin 2
4000 km fibre

?

The EstWin project



Design and construction of fibre-based physical network

- Fiber optical cables: 6.000km
- "End Locations" sites: 1400

"Middle mile" transport network

Distance end-location to end user <1,5km

Rural and underserved areas only

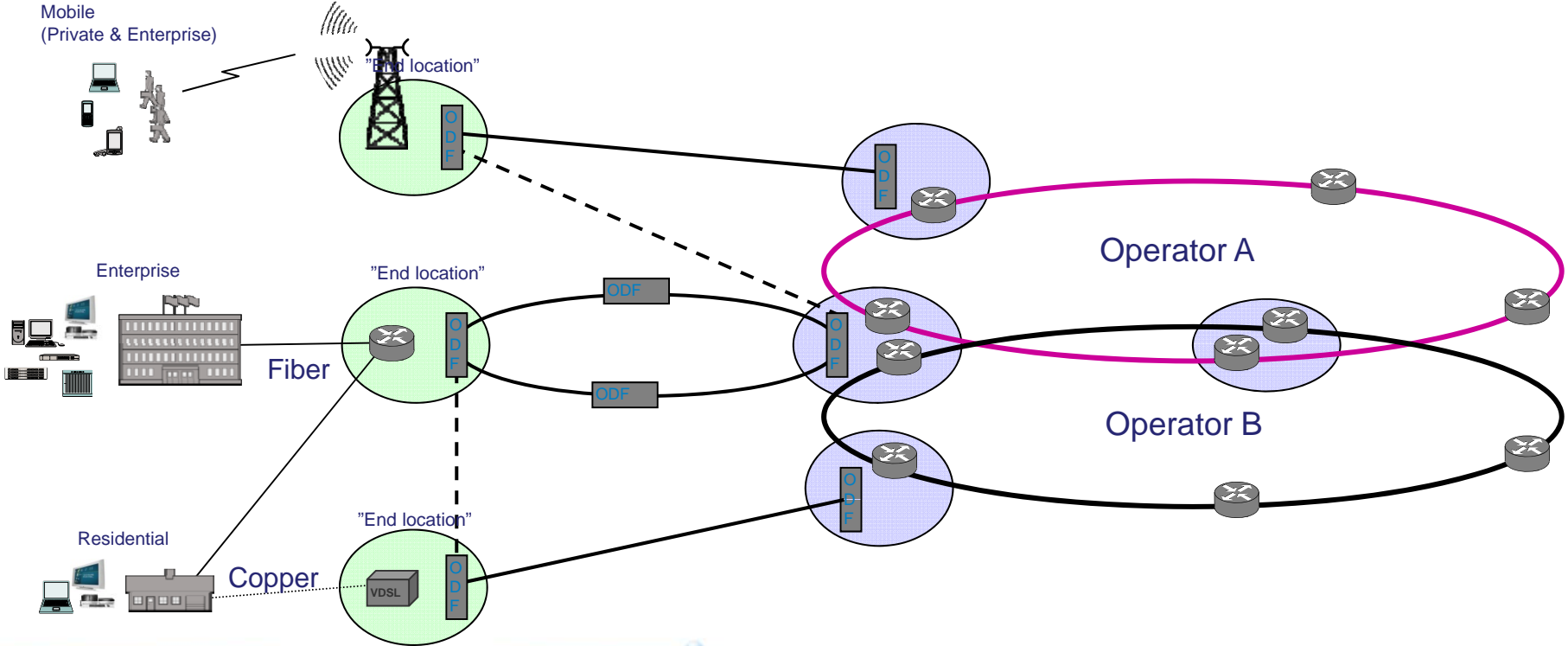
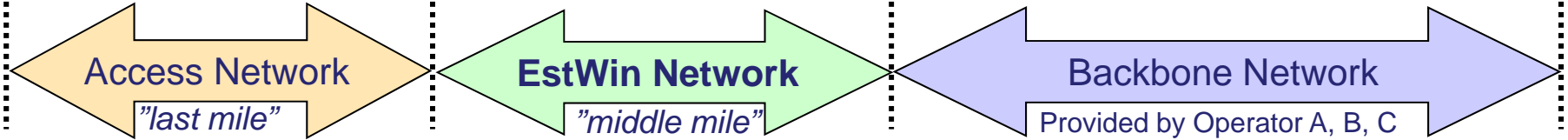
Coverage to 98% of territory of Estonia

Cost 65 M€

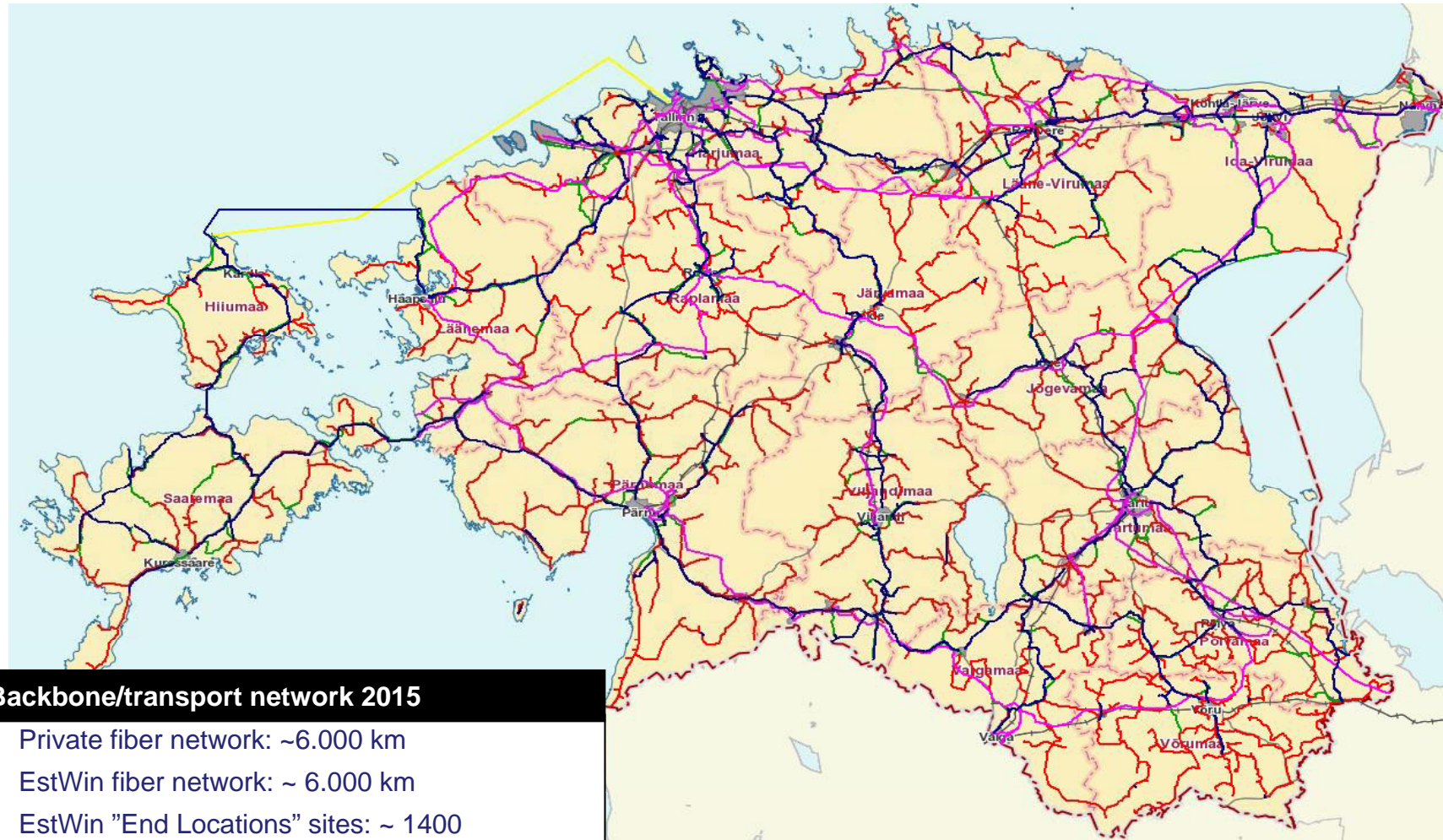
The main goal of the project EstWin is to help to eliminate digital divide between cities and rural areas, to increase social cohesion and contribute to economic growth by achieving these goals.



Network design overview



Fiber Optical Backbone Network in Estonia 2015



Backbone/transport network 2015

- Private fiber network: ~6.000 km
- EstWin fiber network: ~ 6.000 km
- EstWin "End Locations" sites: ~ 1400

The key principles



- The infrastructure is constructed only in rural areas where it doesn't exist (white areas);
- Backhaul transport network;
- Fibre-based physical network (dark fibre)
- Open access - network available for all service providers;
- Technological neutrality;
- The supply of transport capacity outside the EstWin network will be handled by the existing fiber transport network owners



Execution the EstWin Project

Public Private Partnership



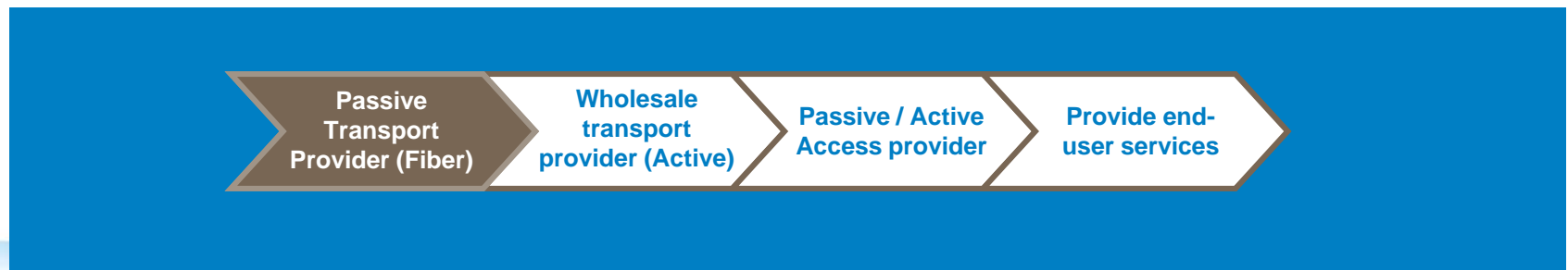
The Ministry of Economic Affairs and Communications
The Ministry of Internal Affairs
The Ministry of Agriculture
The Ministry of Finance

Estonian Broadband Development Foundation

Established in 11 August 2009;

Founders: Elion, Elisa, Eltel, EMT, Ericsson, Levira, Televõrgu and Tele2

Council: 17 representatives from telecom and public sector



Estonian Broadband Development Foundation (ELA)



Operating Guidelines:

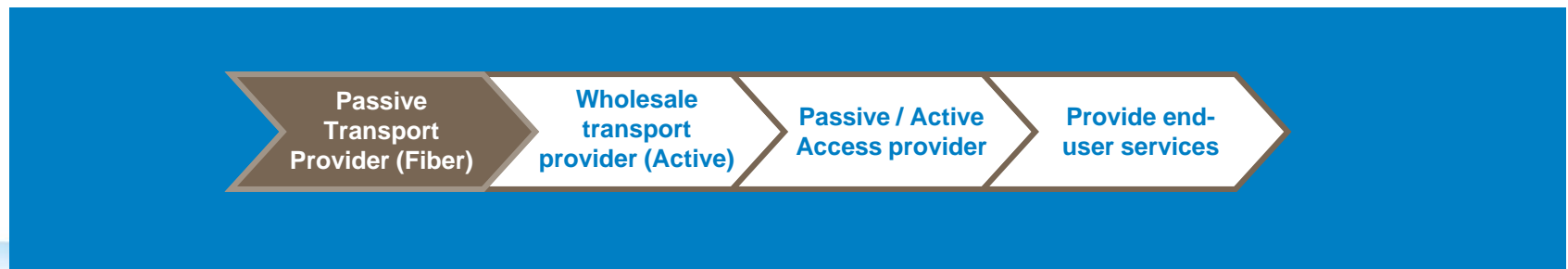
ELA not provide any end-user services

ELA is non-profit organization, the financials of ELA are public information

ELA will ensure equal availability of its network to all operators, at equal price

ELA is open for new operators entering the market

3rd party contractors for deployment and operations & maintenance of the ELA network will be selected via an open RFQ process to ensure competition between alternatives, and to comply with national and EU funding requirements





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