

# Summary

Sheet	Description
<a href="#">Subscribers</a>	Data relative to subscribers for all types of networks
<a href="#">Traffic</a>	Data relative to volumes of traffic for all types of networks
<a href="#">Revenues</a>	Data relative to revenue for all types of networks
<a href="#">Network coverage</a>	Data relative to the population coverage and area coverage of all types of network
<a href="#">Mobile base stations</a>	Data relative to the number of sites of mobile operators
<a href="#">Mobile network</a>	Data relative to the modelling of mobile networks
<a href="#">DSL</a>	Data relative to the modelling of DSL
<a href="#">FTTC/VDSL</a>	Data relative to the modelling of FTTC/VDSL
<a href="#">FTTH/FTTB (GPON)</a>	Data relative to the modelling of FTTH/FTTB (GPON)
<a href="#">Cable</a>	Data relative to the modelling of cable
<a href="#">Financials</a>	Financial data

# Data on subscribers

[BACK TO SUMMARY](#)

HISTORICAL VALUES					FORECASTS						
2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020

Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)

**NOTE**

Please indicate the historical values that are relevant to your activities, with the highest possible level of detail. Whenever the detailed level requested is not available, please provide the aggregate level or any level available. Please provide any forecasts whenever available from a budget perspective or a business plan perspective. For any given category, even partial or aggregated data is welcome (for example for some of the years or for some of the categories)

**Retail subscribers at end of period**

	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
<b>FIXED NETWORKS</b>												
<b>Total fixed broadband</b>												
Total clients												
Residential clients												
Business clients												
Broadband only clients												
Broadband + TV clients												
Broadband + fixed telephony clients												
Broadband + TV + fixed telephony clients												
<b>DSL - Incumbent only</b>												
Total clients												
Residential clients												
Business clients												
DSL - own network only clients												
DSL - own network + TV clients												
DSL - own network + fixed telephony clients												
DSL - own network + TV + fixed telephony clients												
<b>DSL - LLU (Local Loop Unbundling at MDF level)</b>												
Total clients												
Residential clients												
Business clients												
DSL - LLU only clients												
DSL - LLU + TV clients												
DSL - LLU + fixed telephony clients												
DSL - LLU + TV + fixed telephony clients												
<b>FTTC/VDSL - SLU (Sub-local Loop Unbundling)</b>												
Total clients												
Residential clients												
Business clients												
FTTC only clients												
FTTC + TV clients												
FTTC + fixed telephony clients												
FTTC + TV + fixed telephony clients												
<b>DSL - Bitstream</b>												
Total clients												
Residential clients												
Business clients												
DSL - Bitstream only clients												
DSL - Bitstream + TV clients												
DSL - Bitstream + fixed telephony clients												
DSL - Bitstream + TV + fixed telephony clients												
<b>FTTH / FTTB</b>												
Total clients												
Residential clients												
Business clients												
FTTH / FTTB only clients												
FTTH / FTTB + TV clients												
FTTH / FTTB + fixed telephony clients												
FTTH / FTTB + TV + fixed telephony clients												
<b>Cable broadband - DOCSIS 2.0 or before</b>												
Total clients												
Residential clients												
Business clients												
DOCSIS 2.0 only clients												
DOCSIS 2.0 + TV clients												
DOCSIS 2.0 + fixed telephony clients												
DOCSIS 2.0 + TV + fixed telephony clients												
<b>Cable broadband - DOCSIS 3.0</b>												

	HISTORICAL VALUES					FORECASTS						
	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
<p style="text-align: right; color: red;">Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)</p>												
<b>Total clients</b>												
Residential clients												
Business clients												
DOCSIS 3.0 only clients												
DOCSIS 3.0 + TV clients												
DOCSIS 3.0 + fixed telephony clients												
DOCSIS 3.0 + TV + fixed telephony clients												
<b>Wireless fixed broadband</b>												
Total clients												
Residential clients												
Business clients												
Wireless fixed only clients												
Wireless fixed + TV clients												
Wireless fixed + fixed telephony clients												
Wireless fixed + TV + fixed telephony clients												
<b>Satellite broadband</b>												
Total clients												
Residential clients												
Business clients												
Satellite broadband only clients												
Satellite broadband + TV clients												
Satellite broadband + fixed telephony clients												
Satellite broadband + TV + fixed telephony clients												
<b>Other technology (please specify)</b>												
Total clients												
Residential clients												
Business clients												
Other broadband only clients												
Other broadband + TV clients												
Other broadband + fixed telephony clients												
Other broadband + TV + fixed telephony clients												
<b>MOBILE NETWORKS</b>												
<b>Total mobile networks</b>												
Total clients												
Residential clients												
Business clients												
<b>Mobile - broadband only (dongles, USB keys, EXCLUDING smartphones)</b>												
Total clients												
Residential clients												
Business clients												
<b>Mobile - all types of phones</b>												
Total clients												
Residential clients												
Business clients												
<b>Mobile - smartphones</b>												
Total clients												
Residential clients												
Business clients												
<b>Mobile - basic handsets (non-smartphones)</b>												
Total clients												
Residential clients												
Business clients												
<b>Yearly churn rate</b>												
<b>FIXED NETWORKS</b>												
<b>Total fixed broadband</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for broadband only clients												
Churn rate for broadband + TV clients												
Churn rate for broadband + fixed telephony clients												

	HISTORICAL VALUES					FORECASTS						
	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
Churn rate for broadband + TV + fixed telephony clients												
<b>DSL (incumbent, LLU, bitstream)</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for DSL only clients												
Churn rate for DSL + TV clients												
Churn rate for DSL + fixed telephony clients												
Churn rate for DSL + TV + fixed telephony clients												
<b>FTTC/VDSL - SLU (Sub-local Loop Unbundling)</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for FTTC only clients												
Churn rate for FTTC + TV clients												
Churn rate for FTTC + fixed telephony clients												
Churn rate for FTTC + TV + fixed telephony clients												
<b>FTTH / FTTB</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for FTTH / FTTB only clients												
Churn rate for FTTH / FTTB + TV clients												
Churn rate for FTTH / FTTB + fixed telephony clients												
Churn rate for FTTH / FTTB + TV + fixed telephony clients												
<b>Cable broadband - DOCSIS 2.0 or before</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for DOCSIS 2.0 only clients												
Churn rate for DOCSIS 2.0 + TV clients												
Churn rate for DOCSIS 2.0 + fixed telephony clients												
Churn rate for DOCSIS 2.0 + TV + fixed telephony clients												
<b>Cable broadband - DOCSIS 3.0</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for DOCSIS 3.0 only clients												
Churn rate for DOCSIS 3.0 + TV clients												
Churn rate for DOCSIS 3.0 + fixed telephony clients												
Churn rate for DOCSIS 3.0 + TV + fixed telephony clients												
<b>Wireless fixed broadband</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for wireless fixed only clients												
Churn rate for wireless fixed + TV clients												
Churn rate for wireless fixed + fixed telephony clients												
Churn rate for wireless fixed + TV + fixed telephony clients												
<b>Satellite broadband</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for satellite broadband only clients												
Churn rate for satellite broadband + TV clients												
Churn rate for satellite broadband + fixed telephony clients												
Churn rate for satellite broadband + TV + fixed telephony clients												
<b>Other technology (please specify)</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
Churn rate for other broadband only clients												
Churn rate for other broadband + TV clients												
Churn rate for other broadband + fixed telephony clients												
Churn rate for other broadband + TV + fixed telephony clients												

Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)

# Data on subscribers

[BACK TO SUMMARY](#)

	HISTORICAL VALUES					FORECASTS						
	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
						Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)						
<b>MOBILE NETWORKS</b>												
<b>Total mobile networks</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
<b>Mobile - broadband only (dongles, USB keys, EXCLUDING smartphones)</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
<b>Mobile - all types of phones</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
<b>Mobile - smartphones</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												
<b>Mobile - basic handsets (non-smartphones)</b>												
Churn rate for total clients												
Churn rate for residential clients												
Churn rate for business clients												

HISTORICAL VALUES					FORECASTS						
2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020

Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)

**NOTE**

Please indicate the historical values that are relevant to your activities, with the highest possible level of detail. Whenever the detailed level requested is not available, please provide the aggregate level or any level available. Please provide any forecasts whenever available from a budget perspective or a business plan perspective. For any given category, even partial or aggregated data is welcome (for example for some of the years or for some of the categories)

**Average data usage per subscriber per month (Mbytes)**

	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
<b>FIXED NETWORKS</b>												
<b>Total fixed broadband</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>DSL</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>FTTC/VDSL - SLU (Sub-local Loop Unbundling)</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>FTTH / FTTB</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Cable broadband - DOCSIS 2.0 or before</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Cable broadband - DOCSIS 3.0</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Wireless fixed broadband</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Satellite broadband</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Other technology (please specify)</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>MOBILE NETWORKS</b>												
<b>Total mobile networks</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Mobile - broadband only (dongles, USB keys, EXCLUDING smartphones)</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Mobile - all types of phones</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Mobile - smartphones</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												
Average monthly data usage - Business subscribers												
<b>Mobile - basic handsets (non-smartphones)</b>												
Average monthly data usage - All subscribers												
Average monthly data usage - Residential subscribers												

HISTORICAL VALUES					FORECASTS						
2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020

Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)

Average monthly data usage - Business subscribers

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### Average voice usage per subscriber per month (Mbytes)

FIXED NETWORKS											
<b>Total fixed broadband</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
<b>DSL</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
<b>FTTC/VDSL - SLU (Sub-local Loop Unbundling)</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
<b>FTTH / FTTB</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
<b>Cable broadband - DOCSIS 2.0 or before</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
<b>Cable broadband - DOCSIS 3.0</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
<b>Wireless fixed broadband</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
<b>Satellite broadband</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
<b>Other technology (please specify)</b>											
Average monthly voice usage - broadband subs with a bundle including voice											
MOBILE NETWORKS											
<b>Total mobile networks</b>											
Average monthly voice usage - all subscribers											
Average monthly voice usage - residential subscribers											
Average monthly voice usage - business subscribers											
<b>Mobile - broadband only (dongles, USB keys, EXCLUDING smartphones)</b>											
Average monthly voice usage - all subscribers											
Average monthly voice usage - residential subscribers											
Average monthly voice usage - business subscribers											
<b>Mobile - all types of phones</b>											
Average monthly voice usage - all subscribers											
Average monthly voice usage - residential subscribers											
Average monthly voice usage - business subscribers											
<b>Mobile - smartphones</b>											
Average monthly voice usage - all subscribers											
Average monthly voice usage - residential subscribers											
Average monthly voice usage - business subscribers											
<b>Mobile - basic handsets (non-smartphones)</b>											
Average monthly voice usage - all subscribers											
Average monthly voice usage - residential subscribers											
Average monthly voice usage - business subscribers											

# Data on revenues

[BACK TO SUMMARY](#)

HISTORICAL VALUES					FORECASTS						
2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020

Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)

**NOTE**

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**Revenue per period - MKD**

	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
<b>FIXED NETWORKS</b>												
<b>Total fixed broadband</b>												
Total revenue												
Residential revenue												
Business revenue												
Broadband only revenue												
Broadband + TV revenue												
Broadband + fixed telephony revenue												
Broadband + TV + fixed telephony revenue												
<b>DSL - Retail</b>												
Total revenue												
Residential revenue												
Business revenue												
DSL only revenue												
DSL + TV revenue												
DSL + fixed telephony revenue												
DSL + TV + fixed telephony revenue												
<b>DSL - Wholesale</b>												
Total revenue												
Residential revenue												
Business revenue												
DSL only revenue												
DSL + TV revenue												
DSL + fixed telephony revenue												
DSL + TV + fixed telephony revenue												
<b>FTTC/VDSL - SLU (Sub-local Loop Unbundling)</b>												
Total revenue												
Residential revenue												
Business revenue												
FTTC only revenue												
FTTC + TV revenue												
FTTC + fixed telephony revenue												
FTTC + TV + fixed telephony revenue												
<b>FTTH / FTTB</b>												
Total revenue												
Residential revenue												
Business revenue												
FTTH/FTTB only revenue												
FTTH/FTTB + TV revenue												
FTTH/FTTB + fixed telephony revenue												
FTTH/FTTB + TV + fixed telephony revenue												
<b>Cable broadband - DOCSIS 2.0 or before</b>												
Total revenue												
Residential revenue												
Business revenue												
DOCSIS 2.0 only revenue												
DOCSIS 2.0 + TV revenue												
DOCSIS 2.0 + fixed telephony revenue												
DOCSIS 2.0 + TV + fixed telephony revenue												
<b>Cable broadband - DOCSIS 3.0</b>												
Total revenue												
Residential revenue												
Business revenue												
DOCSIS 3.0 only revenue												
DOCSIS 3.0 + TV revenue												
DOCSIS 3.0 + fixed telephony revenue												
DOCSIS 3.0 + TV + fixed telephony revenue												
<b>Wireless fixed broadband</b>												



	HISTORICAL VALUES					FORECASTS						
	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
	Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)											
<b>Total revenue</b>												
Residential revenue												
Business revenue												
Wireless fixed only revenue												
Wireless fixed + TV revenue												
Wireless fixed + fixed telephony revenue												
Wireless fixed + TV + fixed telephony revenue												
<b>Satellite broadband</b>												
Total revenue												
Residential revenue												
Business revenue												
Satellite broadband only revenue												
Satellite broadband + TV revenue												
Satellite broadband + fixed telephony revenue												
Satellite broadband + TV + fixed telephony revenue												
<b>Other technology (please specify)</b>												
Total revenue												
Residential revenue												
Business revenue												
Other broadband only revenue												
Other broadband + TV revenue												
Other broadband + fixed telephony revenue												
Other broadband + TV + fixed telephony revenue												
<b>MOBILE NETWORKS</b>												
<b>Total mobile networks</b>												
Total revenue												
Residential revenue												
Business revenue												
<b>Mobile - broadband only (dongles, USB keys, EXCLUDING smartphones)</b>												
Total revenue												
Residential revenue												
Business revenue												
<b>Mobile - all types of phones</b>												
Total revenue												
Voice revenue												
Data revenue												
Other revenue (please specify)												
Residential revenue												
Voice revenue												
Data revenue												
Other revenue (please specify)												
Business clients												
Voice revenue												
Data revenue												
Other revenue (please specify)												
<b>Mobile - smartphones</b>												
Total revenue												
Voice revenue												
Data revenue												
Other revenue (please specify)												
Residential revenue												
Voice revenue												
Data revenue												
Other revenue (please specify)												
Business clients												
Voice revenue												
Data revenue												
Other revenue (please specify)												
<b>Mobile - basic handsets (non-smartphones)</b>												
Total revenue												
Voice revenue												
Data revenue												
Other revenue (please specify)												
Residential revenue												

HISTORICAL VALUES					FORECASTS						
2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020

Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)

Voice revenue  
 Data revenue  
 Other revenue (please specify)  
 Business clients  
 Voice revenue  
 Data revenue  
 Other revenue (please specify)


## Average Revenue per User per month - MKD

FIXED NETWORKS											
<b>Total fixed broadband</b>											
Total ARPU											
Residential ARPU											
Business ARPU											
Broadband only ARPU											
Broadband + TV ARPU											
Broadband + fixed telephony ARPU											
Broadband + TV + fixed telephony ARPU											
<b>DSL - retail</b>											
Total ARPU											
Residential ARPU											
Business ARPU											
DSL only ARPU											
DSL + TV ARPU											
DSL + fixed telephony ARPU											
DSL + TV + fixed telephony ARPU											
<b>DSL - wholesale</b>											
Total ARPU											
Residential ARPU											
Business ARPU											
DSL only ARPU											
DSL + TV ARPU											
DSL + fixed telephony ARPU											
DSL + TV + fixed telephony ARPU											
<b>FTTC/VDL - SLU (Sub-local Loop Unbundling)</b>											
Total ARPU											
Residential ARPU											
Business ARPU											
FTTC only ARPU											
FTTC + TV ARPU											
FTTC + fixed telephony ARPU											
FTTC + TV + fixed telephony ARPU											
<b>FTTH / FTTB</b>											
Total ARPU											
Residential ARPU											
Business ARPU											
FTTH/FTTB only ARPU											
FTTH/FTTB + TV ARPU											
FTTH/FTTB + fixed telephony ARPU											
FTTH/FTTB + TV + fixed telephony ARPU											
<b>Cable broadband - DOCSIS 2.0 or before</b>											
Total ARPU											
Residential ARPU											
Business ARPU											
DOCSIS 2.0 only ARPU											
DOCSIS 2.0 + TV ARPU											
DOCSIS 2.0 + fixed telephony ARPU											
DOCSIS 2.0 + TV + fixed telephony ARPU											
<b>Cable broadband - DOCSIS 3.0</b>											
Total ARPU											
Residential ARPU											
Business ARPU											
DOCSIS 3.0 only ARPU											

	HISTORICAL VALUES					FORECASTS						
	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
DOCSIS 3.0 + TV ARPU												
DOCSIS 3.0 + fixed telephony ARPU												
DOCSIS 3.0 + TV + fixed telephony ARPU												
<b>Wireless fixed broadband</b>												
Total ARPU												
Residential ARPU												
Business ARPU												
Wireless fixed only ARPU												
Wireless fixed + TV ARPU												
Wireless fixed + fixed telephony ARPU												
Wireless fixed + TV + fixed telephony ARPU												
<b>Satellite broadband</b>												
Total ARPU												
Residential ARPU												
Business ARPU												
Satellite broadband only ARPU												
Satellite broadband + TV ARPU												
Satellite broadband + fixed telephony ARPU												
Satellite broadband + TV + fixed telephony ARPU												
<b>Other technology (please specify)</b>												
Total ARPU												
Residential ARPU												
Business ARPU												
Other broadband only ARPU												
Other broadband + TV ARPU												
Other broadband + fixed telephony ARPU												
Other broadband + TV + fixed telephony ARPU												
<b>MOBILE NETWORKS</b>												
<b>Total mobile networks</b>												
Total ARPU												
Residential ARPU												
Business ARPU												
<b>Mobile - broadband only (dongles, USB keys, EXCLUDING smartphones)</b>												
Total ARPU												
Residential ARPU												
Business ARPU												
<b>Mobile - all types of phones</b>												
Total ARPU												
Voice ARPU												
Data ARPU												
Residential ARPU												
Voice ARPU												
Data ARPU												
Business clients												
Voice ARPU												
Data ARPU												
<b>Mobile - smartphones</b>												
Total ARPU												
Voice ARPU												
Data ARPU												
Residential ARPU												
Voice ARPU												
Data ARPU												
Business clients												
Voice ARPU												
Data ARPU												
<b>Mobile - basic handsets (non-smartphones)</b>												
Total ARPU												
Voice ARPU												
Data ARPU												
Residential ARPU												
Voice ARPU												
Data ARPU												
Business clients												

Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)

# Data on revenues

[BACK TO SUMMARY](#)

HISTORICAL VALUES					FORECASTS						
2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020

Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)

Voice ARPU  
Data ARPU


**NOTE**  
 Please provide the most recent data relative to the footprint of your networks - whenever possible population coverage and land coverage for mobile technologies  
 This information is more accurate if provided at the most detailed level (i.e. municipality level). If information not available please provide the information at regional and national levels  
 If you plan coverage extension in the future, please indicate it in the forecasts on national level

## Network coverage at national level

Macedonia population (2013) 2,064,032 Makstat  
 Macedonia land area (km2) 25,713 Makstat

Share of the national population (or Households for fixed networks) covered	HISTORICAL VALUES		FORECASTS - END OF YEAR						
	Latest available %	Date for this data (month and year)	Planned coverage - 2014	Planned coverage - 2015	Planned coverage - 2016	Planned coverage - 2017	Planned coverage - 2018	Planned coverage - 2019	Planned coverage - 2020
<b>FIXED NETWORKS</b>									
PSTN (fixed line telephony)									
DSL									
FTTC/VDSL									
FTTH / FTTB									
Analogue cable TV (not broadband-capable)									
Cable broadband - DOCSIS 1.0 or 2.0 (low speed)									
Cable broadband - DOCSIS 3.0 (high speed)									
Wireless fixed broadband									
Satellite broadband									
Other technology (please specify)									
<b>MOBILE NETWORKS</b>									
2G network									
3G network									
4G network									

Share of the national land area covered by the network	HISTORICAL VALUES		FORECASTS - END OF YEAR						
	Latest available %	Date for this data (month and year)	Planned coverage - 2014	Planned coverage - 2015	Planned coverage - 2016	Planned coverage - 2017	Planned coverage - 2018	Planned coverage - 2019	Planned coverage - 2020
<b>MOBILE NETWORKS</b>									
2G network									
3G network									
4G network									

## Network coverage at regional level - HISTORICAL VALUES

Note- total area for regions/municipalities is slightly lower than national area due to not counting non

Source	Makstat	Calculation	FIXED NETWORKS														
			PSTN (fixed line telephony)		DSL		FTTC		FTTH / FTTB		Analogue cable TV (no broadband)		Cable broadband-DOCSIS 1.0 or 2.0 (low speed)		Cable broadband-DOCSIS 3.0 (high speed)		Wireless fixe
			% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households
Population and area coverage of the network																	
Istočen (East)			178.270	3.531													
Jugoistočen (South East)			173.383	2.735													
Jugozapaden (South West)			220.325	3.278													
Pelagoniski (Pelagonia)			232.367	4.723													
Pološki (Polog)			317.975	2.467													
Severoistočen (North East)			175.711	2.314													
Skopski (Skopje)			612.514	1.640													
Vardarski (Vardar)			153.487	4.042													

## Network coverage at municipality level - HISTORICAL VALUES

Note- total area for regions/municipalities is slightly lower than national area due to not counting non

Population and area coverage of the network	Municipality	Region	Makstat	statoids.com	2013 population	Land area (km2)	FIXED NETWORKS														
							PSTN (fixed line telephony)		DSL		FTTC		FTTH / FTTB		Analogue cable TV (no broadband)		Cable broadband-DOCSIS 1.0 or 2.0 (low speed)		Cable broadband-DOCSIS 3.0 (high speed)		Wireless fixe
							% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households	Date for this data (month and year)	% households
	Berovo	East			13.137	597															
	Cheshinovo - Obleshevo	East			7.104	133															
	Delchevo	East			16.594	423															
	Karbintsi	East			4.038	231															
	Kochani	East			38.004	357															
	Makedonska Kamenitsa	East			7.709	189															
	Pehchevo	East			5.051	208															
	Probishtip	East			15.443	326															
	Shtip	East			48.590	583															
	Vinitsa	East			19.504	432															
	Zrnovtsi	East			3.096	52															
	Kratovo	Northeast			9.654	375															



MOBILE NETWORKS

Fixed broadband	Satellite broadband		Other technology (please specify)		2G network			3G network			4G network		
	% households	Date for this data (month and year)	% population	Date for this data (month and year)	% population	% area	Date for this data (month and year)	% population	% area	Date for this data (month and year)	% population	% area	Date for this data (month and year)

MOBILE NETWORKS

Fixed broadband	Satellite broadband		Other technology (please specify)		2G network			3G network			4G network		
	% households	Date for this data (month and year)	% population	Date for this data (month and year)	% population	% area	Date for this data (month and year)	% population	% area	Date for this data (month and year)	% population	% area	Date for this data (month and year)





**NOTE**  
 Please provide data relative to the number of mobile sites of your network  
 For the avoidance of doubt :  
 - a "site" refers to a physical site (tower or rooftop) where antenna and active equipment are installed - one physical site can hold a 2G BTS and a 3G NodeB, for example  
 - a "base station" refers to a BTS or NodeB or eNodeB depending on the technology  
 At national level, please provide us some details regarding the frequencies used on your sites and the number of multi-technology sites  
 At regional and municipal level, less detail is necessary but it would be useful to know the number of sites and base stations

## Number of mobile sites - national level

Total number of sites	Date for this data (month and year)											
National number of mobile sites	Note - this refers to a physical site (tower or rooftop) - one physical site can hold a 2G BTS and a 3G NodeB, for example											
Total sites - 2G only	2G sites - 900MHz only	2G sites - 1800MHz only	2G sites - 900MHz and 1800MHz	Total sites - 3G only	3G 900MHz only	3G 2100MHz only	3G 900MHz and 3G 2100MHz	Total sites - 4G only	4G 800MHz only	4G 1800MHz only	4G 800MHz and 1800MHz	Date for this data (month and year)
National number of sites with only one technology per site												
Total sites - 2G and 3G	2G and 3G 900MHz only	2G and 3G 2100MHz only	2G and 3G 900MHz & 2100MHz	Total sites - 2G and 4G	2G and 4G 800MHz only	2G and 4G 1800MHz only	2G and 4G 1800MHz and 800MHz	Total sites - 3G and 4G	3G and 4G 800MHz only	3G and 4G 1800MHz only	3G and 4G 1800MHz and 800MHz	Date for this data (month and year)
National number of sites with two technologies on the same site												
Total sites - 2G, 3G and 4G	2G + 3G and 4G 800MHz only	2G + 3G and 4G 1800MHz only	2G + 3G and 4G 800MHz & 1800MHz	Date for this data (month and year)								
National number of sites with three technologies on the same site												

## Number of base stations - national level

2G (BTS)	3G (NodeB)	4G (eNodeB)	Date for this data (month and year)
National number of base stations (BTS or Node B or eNodeB)			

## Number of sectors - national level

2G sectors	3G sectors	4G sectors	Date for this data (month and year)
Total number of sectors			
Average number of sector per base station			

## Number of mobile sites - regional level

Mobile sites by region  
 Istočen (East)  
 Jugoistočen (South East)  
 Jugozapaden (South West)  
 Pelagoniski (Pelagonia)  
 Pološki (Polog)  
 Severoistočen (North East)  
 Skopski (Skopje)  
 Vardarski (Vardar)

Total number of sites	Total sites - 2G only	Total sites - 3G only	Total sites - 4G only	Total sites - 2G and 3G	Total sites - 2G and 4G	Total sites - 3G and 4G	Total sites - 2G, 3G and 4G	Date for this data (month and year)

## Number of base stations - regional level

Mobile sites by region  
 Istočen (East)  
 Jugoistočen (South East)  
 Jugozapaden (South West)  
 Pelagoniski (Pelagonia)  
 Pološki (Polog)  
 Severoistočen (North East)  
 Skopski (Skopje)  
 Vardarski (Vardar)

2G (BTS)	3G (NodeB)	4G (eNodeB)	Date for this data (month and year)

Number of mobile sites and base stations - municipality level

Municipality	Region	Mobile sites							Base stations			Date for this data (month and year)	
		Total number of sites	Total sites - 2G only	Total sites - 3G only	Total sites - 4G only	Total sites - 2G and 3G	Total sites - 2G and 4G	Total sites - 3G and 4G	Total sites - 2G, 3G and 4G	2G (BTS)	3G (NodeB)		4G (eNodeB)
Berovo	East												
Cheshinovo - Obleshevo	East												
Delchevo	East												
Karbintsi	East												
Kochani	East												
Makedonska Kamenitsa	East												
Pehchevo	East												
Probishtip	East												
Ship	East												
Vinitsa	East												
Zrnovtsi	East												
Kratovo	Northeast												
Kriva Palanka	Northeast												
Kumanovo	Northeast												
Lipkovo	Northeast												
Rankovtse	Northeast												
Staro Nagorichane	Northeast												
Bitola	Pelagonia												
Demir Hisar	Pelagonia												
Dolneni	Pelagonia												
Krivogashtani	Pelagonia												
Krushevo	Pelagonia												
Mogila	Pelagonia												
Novatsi	Pelagonia												
Prilep	Pelagonia												
Resen	Pelagonia												
Bogovinje	Polog												
Brevenisa	Polog												
Gostivar	Polog												
Jegunovtse	Polog												
Mavrovo i Rostusha	Polog												
Teartse	Polog												
Tetovo	Polog												
Vrapchishte	Polog												
Zhelino	Polog												
Aerodrom	Skopje												
Arachinovo	Skopje												
Butel	Skopje												
Centar	Skopje												
Chair	Skopje												
Chucher - Sandevo	Skopje												
Gazi Baba	Skopje												
Gjorche Petrov	Skopje												
Ilinden	Skopje												
Karposh	Skopje												
Kisela Voda	Skopje												
Petrovets	Skopje												
Saraj	Skopje												
Shuto Orizari	Skopje												
Sopishte	Skopje												
Studenichani	Skopje												
Zelenikovo	Skopje												
Bogdantsi	Southeast												
Bosilovo	Southeast												
Dojran	Southeast												
Gevgelija	Southeast												
Konche	Southeast												
Novo Selo	Southeast												
Radovish	Southeast												
Strumitsa	Southeast												
Valandovo	Southeast												
Vasilevo	Southeast												
Centar Zhupa	Southwest												
Debar	Southwest												
Debartsa	Southwest												
Drugovo	Southwest												
Kichevo	Southwest												
Makedonski Brod	Southwest												
Ohrid	Southwest												
Oslomej	Southwest												
Plasnitsa	Southwest												
Struga	Southwest												
Vevchani	Southwest												
Vraneshtitsa	Southwest												
Zajas	Southwest												
Chashka	Vardar												
Demir Kapija	Vardar												
Gradsko	Vardar												
Kavadartsi	Vardar												
Lozovo	Vardar												
Negotino	Vardar												
Rosoman	Vardar												
Sveti Nikole	Vardar												
Veles	Vardar												

**NOTE**  
 This information is useful to model mobile networks rollout more accurately  
 We would be interested in actual data based on your current operations  
 For the avoidance of doubt, "capex" refers to the one-off buying cost and "opex" refers to the annual cost for maintenance and operation of an asset  
 Cost trend is the expected yearly evolution of capex (i.e. how much will the cost of an asset evolve in percentage every year)  
 If some data is not available, please provide us with an estimate

## Mobile network parameters

### Average base station loading (%)

2G  
3G  
4G

Note - this is the ratio between the capacity actually used on a base station and its theoretical maximum capacity


### Maximum bandwidth per sector

3G (mbit/s per sector)  
4G (mbit/s per sector)

Note - this is the maximal capacity that could be reached in ideal conditions


### Average coverage radius of a mobile site (km)

800MHz  
900MHz  
1800MHz  
2.1GHz

At national level	In urban areas	In suburban areas	In rural areas

Note - Please provide the definition you use for urban, suburban and rural areas

### Type of backhaul used for mobile sites

Average at national level  
 Average for 2G only sites  
 Average for 3G and 2G+3G sites  
 Average for sites having 4G

% of sites with fibre backhaul	% of sites with microwave backhaul	% of sites with leased line backhaul

### Busy hour parameters

#### Voice traffic

Busy hour days per month  
 Busy hour traffic as % of busy day traffic

#### Data traffic

Busy hour days per month  
 Busy hour traffic as % of busy day traffic


### Spectral efficiency (bit/s per Hz per cell)

3G

--

4G

--

### Distribution of mobile sites

Share of sites on rooftops (%)  
Share of sites on towers (%)

Total sites	Urban sites	Suburban sites	Rural sites

### Reuse of mobile sites

Share of sites that can be reused to install 4G

Total sites	Urban sites	Suburban sites	Rural sites

## Mobile network costs

Note - Costs can be provided in any currency (e.g. EUR or USD) but this should be highlighted

### Construction of a new mobile site

Cost of a tower (civil work)  
Cost of a rooftop (civil work)  
Cost of an antenna per sector  
2G antenna  
3G antenna  
4G antenna  
Cost of the active equipment per mobile site  
2G BTS  
3G NodeB  
4G eNodeB  
Cost of new fibre backhaul link  
Fibre link - average  
Fibre link - urban areas  
Fibre link - suburban areas  
Fibre link - rural areas  
Cost of new microwave backhaul link  
Microwave link - average  
Microwave link - urban areas  
Microwave link - suburban areas  
Microwave link - rural areas

Capex (MKD)	Opex (% of capex per year)	Capex cost trend (% change per year)

Average rental cost per site per year  
average rental in urban areas  
average rental in suburban areas  
average rental in rural areas  
Operation and Maintenance cost per site per year

Opex (MKD)	Opex cost trend (% change per year)

**Cost of adding 4G to an existing 2G mobile site**

	Capex (MKD)	Opex (% of capex per year)	Capex cost trend (% change per year)
Cost of antenna upgrade			
Cost of civil work upgrade (tower)			
Cost of civil work upgrade (rooftop)			
Cost of backhaul upgrade			
Cost of active equipment upgrade			

**Cost of adding 4G to an existing 3G mobile site**

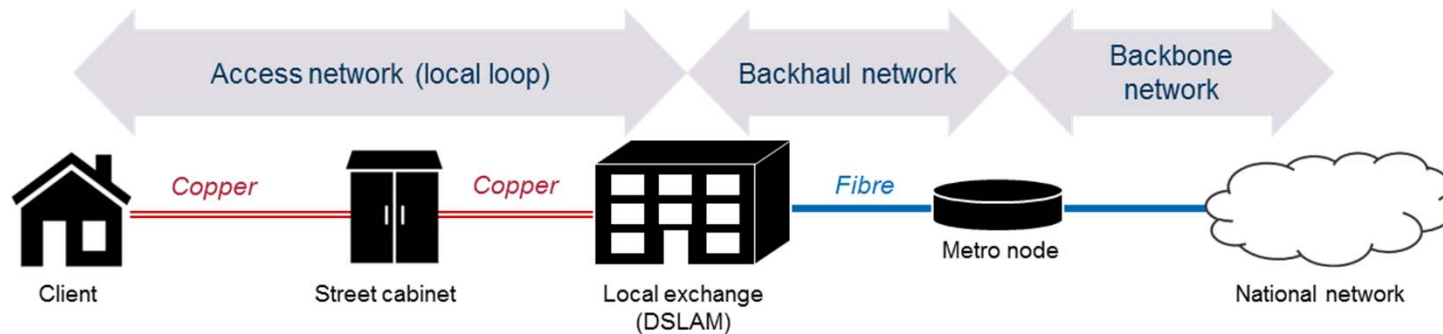
	Capex (MKD)	Opex (% of capex per year)	Capex cost trend (% change per year)
Cost of antenna upgrade			
Cost of civil work upgrade (tower)			
Cost of civil work upgrade (rooftop)			
Cost of backhaul upgrade			
Cost of active equipment upgrade			



**NOTE**

This information is useful to model DSL rollout more accurately  
 We would be interested in actual data based on your current operations  
 For the avoidance of doubt, "capex" refers to the one-off buying cost and "opex" refers to the annual cost for maintenance and operation of an asset  
 Cost trend is the expected yearly evolution of capex (i.e. how much will the cost of an asset evolve in percentage every year)  
 If some data is not available, please provide us with an estimate

**Network parameters**



**Access**

- Number of existing copper lines in the country
- Number of existing copper lines eligible to DSL
- Average length of the DSL line (Local exchange to home) - km
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km


Note - Please provide the definition you use for urban, suburban

**From access to street cabinet**

- Number of existing street cabinets in the country
- Average number of lines per street cabinet
- Typical capacity of a street cabinet (# lines)
- % of lines between premises and street cabinet that are in ducts
- % of lines between premises and street cabinet that are on poles (aerial)
- % of ducts between premises and street cabinet that are reusable to rollout fibre
- Average distance between street cabinet and premise - km
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km


# Data on DSL

## From street cabinet to local exchange

- Number of existing local exchanges in the country
- Average number of lines per local exchanges
- Typical capacity of a DSLAM (# lines)
- % of links between street cabinet and local exchanges that are in ducts
- % of links between street cabinet and local exchanges that are on poles (aerial)
- % of ducts between local exchanges and street cabinets that are reusable to rollout fibre


## Network costs

Note - Costs can be provided in any currency (e.g. EUR or USD) but this should be highlighted

- Cost to set up a local exchange (civil work)
- Cost to set up a street cabinet (civil work)
- Cost of a DSLAM
- Cost to activate a new line
- Cost of a CPE (Customer Premise Equipment)

Capex (MKD)	Opex (% of capex per year)

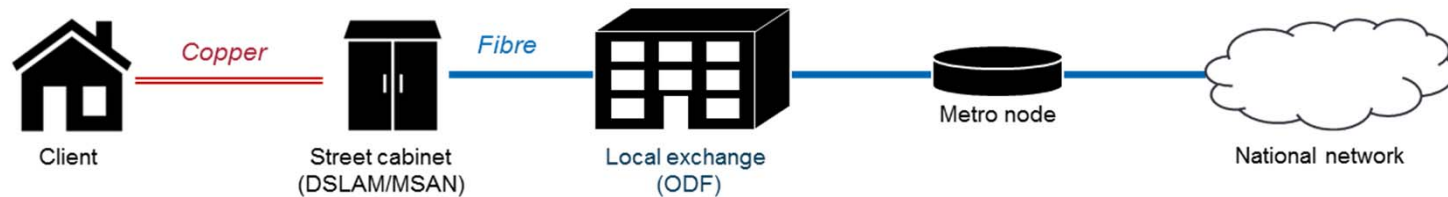
Capex cost trend (% change per year)



**NOTE**

This information is useful to model FTTC/VDSL rollout more accurately  
 We would be interested in actual data based on your current operations  
 For the avoidance of doubt, "capex" refers to the one-off buying cost and "opex" refers to the annual cost for maintenance and operation of an asset  
 Cost trend is the expected yearly evolution of capex (i.e. how much will the cost of an asset evolve in percentage every year)  
 If some data is not available, please provide us with an estimate

**Network parameters**



- Number of existing local exchanges serving FTTC lines in the country
- Number of existing FTTC street cabinet in the country
- Number of FTTC lines in the country
- Typical capacity of a DSLAM/MSAN (# lines)
- Typical capacity of a local exchange/ ODF (# lines)
- Average number of FTTC lines per street cabinet


- Average length of the FTTC/VDSL line (Local exchange to home) - km
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km


Note - Please provide the definition you use for urban, suburban

- Average distance between street cabinet and premise - km
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km


# Data on FTTC/VDSL

## Network costs

Note - Costs can be provided in any currency (e.g. EUR or USD) but this should be highlighted

	Capex (MKD)	Opex (% of capex per year)	Capex cost trend (% change per year)
Cost of an ODF			
Cost to set up a street cabinet (civil work)			
Cost of a DSLAM/MSAN			
Dig cost per metre (to install new ducts) between local exchange and street cabinet			
Fibre cable cost per metre			
Fibre install cost per metre			
Cost of a CPE (Customer Premise Equipment)			
Connection cost per line at client premises			

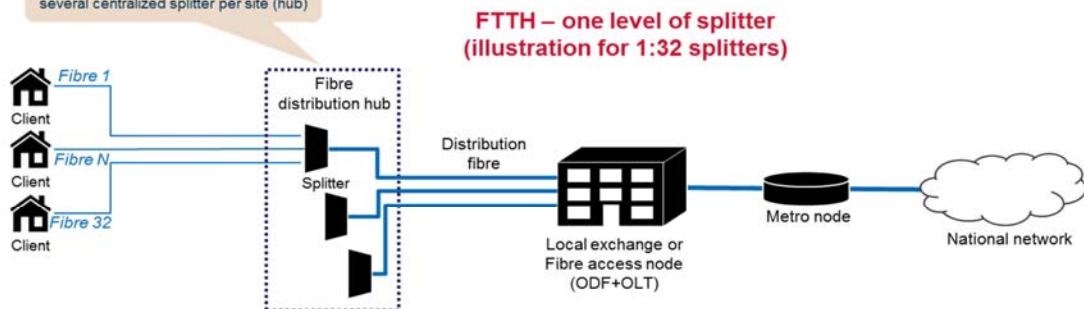
# Data on FTTH / FTTB (GPON)

**NOTE**

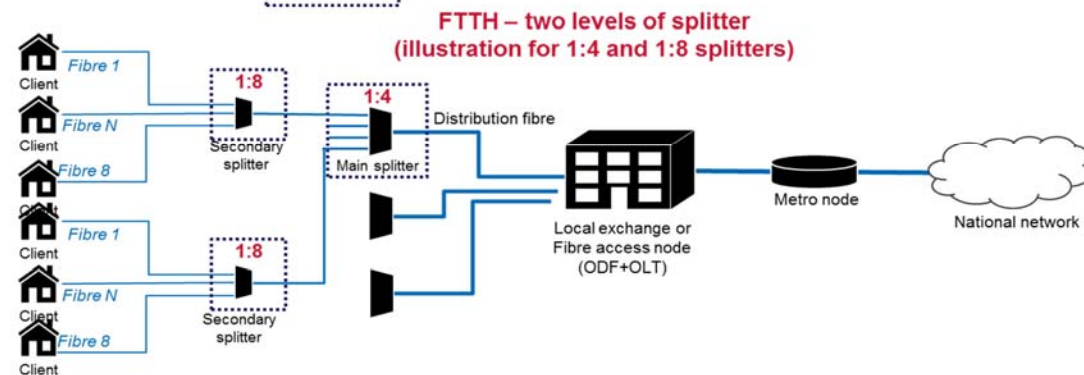
This information is useful to model FTTH / FTTB (GPON) rollout more accurately  
 We would be interested in actual data based on your current operations  
 For the avoidance of doubt, "capex" refers to the one-off buying cost and "opex" refers to the annual cost for maintenance and operation of an asset  
 Cost trend is the expected yearly evolution of capex (i.e. how much will the cost of an asset evolve in percentage every year)  
 If some data is not available, please provide us with an estimate

**Network parameters**

There can be either one splitter per site or several centralized splitter per site (hub)



**FTTH – one level of splitter  
(illustration for 1:32 splitters)**



**FTTH – two levels of splitter  
(illustration for 1:4 and 1:8 splitters)**

- Number of local exchanges serving FTTH/FTTB lines in the country
- Number of ODF serving FTTH/FTTB lines in the country
- Number of lines connected to FTTH/FTTB in the country
- Typical capacity of an ODF (# fibres)
- Typical capacity of an OLT (# ports)


**If you use one level of splitters**

- Typical capacity of the splitters (# fibres/premises)
- Average distance between the local exchange and the splitters
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km
- Average distance between splitters and premises
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km
- Typical number of splitters centralized in a fibre distribution hub


Note - Please provide the definition you use for urban, suburban and rural areas

Note: if you do not centralize your splitter in shared street cabinets/manholes, use " 1 " here

# Data on FTTH / FTTB (GPON)

**If you use two levels of splitters**

- Number of main splitters in the country
- Number of secondary splitters in the country
- Typical capacity of the main splitters (# fibres)
- Typical capacity of the secondary splitters (# premises)
- Average distance between the local exchange and the primary splitters
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km
- Average distance between the primary splitters and secondary splitters
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km
- Average distance between secondary splitters and premises
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km


**Network costs**

Note - Costs can be provided in any currency (e.g. EUR or USD) but this should be highlighted

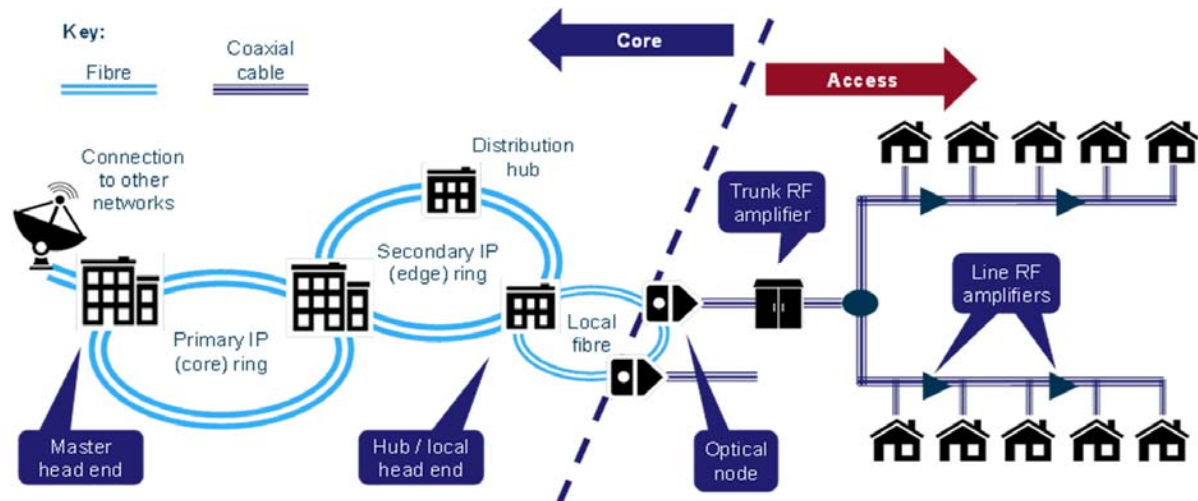
	Capex (MKD)	Opex (% of capex per year)	Capex cost trend (% change per year)
Cost of an ODF			
Cost of an OLT			
Cost of a splitter (1:4)			
Cost of a splitter (1:8)			
Cost of a splitter (1:32)			
Cost of a splitter (1:64)			
Dig cost per metre (to install new ducts) between local exchange and splitter site			
Dig cost per metre (to install new ducts) between splitter site and premises			
Fibre cable cost per metre			
Fibre install cost per metre			
Cost of CPE (Customer premise equipment)			
Connection cost per line at client premises			
Cost to set up a main splitter site (civil work)			
Cost to set up a secondary splitter site (civil work)			

# Data on cable

**NOTE**  
This information is useful to model cable rollout more accurately  
We would be interested in actual data based on your current operations  
For the avoidance of doubt, "capex" refers to the one-off buying cost and "opex" refers to the annual cost for maintenance and operation of an asset  
Cost trend is the expected yearly evolution of capex (i.e. how much will the cost of an asset evolve in percentage every year)  
If some data is not available, please provide us with an estimate

## Network parameters

### DOCSIS 3.0



- Number of DOCSIS 3.0 lines in the country
- Number of local headends serving DOCSIS 3.0 lines in the country
- Number of optical nodes serving DOCSIS 3.0 lines in the country
- Number of Trunk RF amplifiers serving DOCSIS 3.0 lines in the country
- Typical number of Line RF amplifiers per optical node
- Typical capacity of a CMTS (at local headend)
- Typical number of premises per optical nodes
- Average length of the Primary IP (core) ring (km)
- Average length of the Secondary IP (edge) ring (km)
- Average length of the local fibre (km)
- Average length of the access ring (km)
  - average length in urban areas - km
  - average length in suburban areas - km
  - average length in rural areas - km


Note - Please provide the definition you use for urban, suburban

# Data on cable

## DOCSIS 1.0 or 2.0

Number of DOCSIS 1.0 or 2.0 lines in the country	
Number of local headends serving DOCSIS 1.0 or 2.0 lines in the country	
Number of optical nodes serving DOCSIS 1.0 or 2.0 lines in the country	
Number of Trunk RF amplifiers serving DOCSIS 1.0 or 2.0 lines in the country	
Typical number of Line RF amplifiers per optical node	
Typical capacity of a CMTS (at local headend)	
Typical number of premises per optical nodes	
Average length of the Primary IP (core) ring (km)	
Average length of the Secondary IP (edge) ring (km)	
Average length of the local fibre (km)	
Average length of the access ring (km)	
average length in urban areas - km	
average length in suburban areas - km	
average length in rural areas - km	

## Analogue cable

Number of analogue cable lines in the country	
Number of local headends serving analogue cable lines in the country	

## Network costs

Note - Costs can be provided in any currency (e.g. EUR or USD) but this should be highlighted

### Cost of upgrading an analogue cable network to DOCSIS 3.0

	Capex (MKD)	Opex (% of capex per year)	Capex cost trend (% change per year)
Cost to upgrade the national core network			
Cost of a CMTS			
Cost of a digital multiplexer (at local headend)			
Cost of a digital edge-QAM (at local headend)			
Cost of an optical node			
Cost of a Trunk RF amplifier			
Cost of a Line RF amplifier			
Cost of a network tap			
Fibre cable cost per metre			
Fibre install cost per metre			
Cost of a CPE (Customer Premise Equipment)			
Connection cost per line at client premises			

### Cost of upgrading a cable network from DOCSIS 1.0 or 2.0 to DOCSIS 3.0

	Capex (MKD)	Opex (% of capex per year)	Capex cost trend (% change per year)
Cost to upgrade the national core network			
Cost of a CMTS			
Cost of an optical node			
Cost of a Trunk RF amplifier			
Cost of a Line RF amplifier			
Cost of a network tap			
Cost of a CPE (Customer Premise Equipment)			
Connection cost per line at client premises			

# Financial data

[BACK TO SUMMARY](#)

Note - Financials can be provided in any currency (e.g. EUR or USD) but this should be highlighted

	HISTORICAL VALUES					FORECASTS						
	2010	2011	2012	2013	Latest historical figure	2014	2015	2016	2017	2018	2019	2020
<b>Revenue (MKD)</b>						Note - Please provide the date for the latest historical figure (for example June 2014 or September 2014)						
Retail revenue												
Wholesale revenue												
Other revenue (please specify)												
<b>Opex (MKD)</b>												
Interconnection costs												
Other wholesale costs												
Fixed network opex												
Mobile network opex												
IT opex												
Sales and marketing												
Personnel costs												
General and administration												
Other costs (please specify)												
<b>EBITDA (MKD)</b>												
EBITDA margin (%)												
<b>Capex (MKD)</b>												
Fixed network capex												
Fixed access network capex												
of which civil work/buildings for access												
of which network equipment for access												
Fixed core network capex												
Other fixed capex (please specify)												
Mobile network capex												
Mobile access network capex												
of which civil work/buildings for access												
of which network equipment for access												
Mobile core network capex												
Other mobile capex (please specify)												
Non-network capex												
of which buildings												
of which IT												
of which others												



**Typical lifetime of assets (for depreciation - in years)**

- Fixed access network capex
  - Civil work
  - Network equipment
- Fixed core network capex
- Fixed other capex (please specify)
- Mobile access network capex
  - Civil work
  - Network equipment
- Mobile core network capex
- Mobile other capex (please specify)
- Non-network capex
  - Buildings
  - IT
  - Others

## Financial data


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