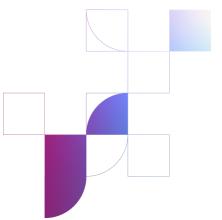


Intra-EU communications BEREC Benchmark Report April 2022 – March 2023



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1. Structure of the Report

The Intra-EU communications BEREC Benchmark Report (the "Report") on Intra-EU communications contains five parts. Chapter two is an Intra-EU to the Body of European Regulators for Electronic Communications (BEREC) Report and describes BEREC's work on intra-EU communications carried out under Regulation (EU) 2015/2120, of the European Parliament and of the Council, of 25 November 2015, as amended by Regulation 2018/1971, of the European Parliament and of the Council, of 11 December 2018. The third Chapter "Regulatory evolution" outlines the background information behind the Intra-EU regulation. The key findings of this Report are included in the fourth Chapter, "Main findings". The fifth Chapter "Charts" presents the latest available data on Intra-EU mobile and fixed markets. "Annex I: Methodology for the data collection" provides a detailed description of the methodology for the current data collection. "Annex II: List of respondents" includes the list of operators that provided data for this Report. The Report is accompanied by a spreadsheet file enabling an easy and open access to the data included in the Report (published together with the Report) for the user.

2. Introduction

The Report presents the results of the 4th data collection on Intra-EU communications by BEREC that took place after the implementation of the Regulation. BEREC has also collected data for a six-month period (1 October 2018 – 31 March 2019) before the implementation of the Regulation. For comparability reasons, some figures in this Report include also data from operators during period 1 October 2018 – 31 March 2019.

The Report covers the period 1 April 2022 – 31 March 2023, split by two periods: 1 April 2022 to 30 September 2022 and 1 October 2022 to 31 March 2023 (corresponding to the 2nd, 3rd and 4th quarters of 2022 and the 1st quarter of 2023). The figures presented in this report are based on data collected from national regulatory authorities (NRAs) on Intra-EU communications. The figures contained in this Report present information on traffic, revenues, consumption, etc. regarding Intra-EU services. Similarly to the periodic International Roaming Benchmark Report, all of the data collected through the data collection is included in the accompanying .xls file and published on the BEREC website.

This data collection on intra-EU communications is based on Regulation (EU) of the European Parliament and of the Council, of 25 November 2015, as amended by Regulation 2018/1971, of the European Parliament and of the Council, of 11 December 2018, which includes new requirements for monitoring the price developments of regulated intra-EU communication services. The Regulation tasks BEREC with regularly collecting data from NRAs on the development of retail charges for regulated Intra-EU communication services in order to assess the competitive developments in the Union-wide Intra-EU communications markets.

BEREC coordinates this process of data collection by pursuing the following objectives:

¹ Regulation (EU) 2018/1971 of the European Parliament and of the Council of 11 December 2018 https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32018R1971&from=EN.

- simplifying the process not only for NRAs, as BEREC acts as a central point for the data collection, but also for the European Commission (EC), as the data is received from a single source and follows a uniform data processing;
- coordinating the procedures of individual NRAs, as a single and commonly agreed upon, data collection model is used for the process, and it is synchronised and based on the same collection periods. BEREC consults the market players and EC before finalising the data collection templates;
- providing, as far as possible, a common response to the different questions posed during the collection process by operators and NRAs, as BEREC serves as the forum where these questions are commonly debated and addressed.

The questionnaire on Intra-EU communications was sent to the NRAs on 15 March 2023. It included separate sheets for mobile and fixed networks and had to be completed by both mobile and fixed operators. For the purpose of the data collection, only mobile and fixed operators meeting the reporting threshold of at least 0.5% market share were invited to provide their data.

3. Regulatory evolution

Intra-EU communication caps apply from 15 May 2019. This means any retail price charged to consumers for regulated intra-EU communications² shall not exceed €0,19 (+ VAT) per minute for calls and €0,06 (+ VAT) per SMS message.

The EU has made efforts to reduce the prices of electronic communications between EU countries. One of the main achievements for the Digital Single Market was the end of roaming charges in 2017 and subsequently in 2019 the imposition of price caps on intra-EU communication services.

The regulation introducing intra-EU caps aims to ensure that these rules will not distort competition, innovation and investment. This means that NRAs may, in exceptional circumstances, grant a derogation from the price regulation of intra-EU communications. The derogation is intended for exceptional circumstances, where the application of the price-caps would significantly impact a provider's capacity to sustain its existing prices for domestic communications.

The price caps apply to mobile and fixed calls and SMS originated in the domestic country to another EU Member States plus Iceland, Liechtenstein and Norway. For calls and SMS originating in Norway, Iceland and Liechtenstein the rules are applicable from the date they are incorporated in the EEA agreement.

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² Regulated Intra-EU communications means any number-based interpersonal communications service originating in the Member State of the consumer's domestic provider and terminating at any fixed or mobile number of the national numbering plan of another Member State, and which is charged wholly or partly based on actual consumption.

4. Main findings

Over 190 providers of international communications provided information for this Report. This number includes virtually³ all of the mobile and fixed network operators in the EEA countries, as well as a significant number of mobile virtual network operators (MVNOs) that provide EEA international communications services.

Consumption patterns of Intra-EU communication services

According to the data collected, the introduction of Intra-EU communications regulation has not changed the international communication market substantially. The average international communication subscriber spent 28.67 minutes per month from fixed phone in Q2 and Q3 2022, while 26.14 minutes per month were spent in Q4 2022 and Q1 2023 (Figure 31). The average number of mobile calls originated in Q2 and Q3 2022 amounted to 8.75 minutes per month, while in Q4 2022 and Q1 2023 reached 8.42 minutes per month (Figure 33). On average 0.66 SMS were sent per month per Intra-EU subscriber in throughout the period considered in this Report (Figure 35).

Intra-EU communication services: regulated and alternative tariffs

BEREC examined the percentage of subscribers using Intra-EU communication services with regulated prices (price caps) and alternative tariffs. The results show that around 5.02 % of fixed networks subscribers in Q2 and Q3 2022 used international communication services with regulated price and 4.60 % in Q4 2022 and Q1 2023 (Figure 1). Fixed alternative tariff plans including regulated international communication were not so popular – only 0.36 % of total fixed subscribers used alternative tariffs in Q2 and Q3 2022 and 0.36 % in Q4 2022 and Q1 2023 (Figure 5).

In the case of mobile networks, subscribers were more active using regulated tariffs. In Q2 and Q3 2022 15.67 % and in Q4 2022 and Q1 2023 14.30 % of mobile subscribers in the EEA benefited from the conditions of regulated international communications tariffs (Figure 3). On the other hand, only 0.40 % of mobile subscribers in the EEA used alternative pricing provided by mobile network operators in Q2 and Q3 2022, compared to 0.36 % of subscribers in Q4 2022 and Q1 2023 (Figure 7).

Intra-EU communication revenues per unit

With regard to revenues from international communications services with regulated price (Figure 21), the average revenues from fixed networks were approximately 0.05 EUR/min (excluding VAT) in Q2 and Q3 2022 and 0.04 EUR/min in Q4 2022 and Q1 2023. In addition, average revenues from fixed international communications services with alternative tariffs were 0.06 EUR/min for the whole period under analysis (Figure 25), however it must be noted that only few of the EU operators offer such alternative plans for fixed network regulated international communications.

Regarding revenues per minute from mobile Intra-EU communication services, revenues from regulated tariffs amounted to 0.06 EUR/min throughout the period covered in this Report

³ This number includes all mobile and fixed operators in the EEA countries (including MVNOs) that provide EEA international communications services and had at least 0.5% market share.

(Figure 23). Revenues from alternative tariffs averaged at 0.10 EUR/min in Q2 and Q3 2022 and 0.11 EUR/min in Q4 2022 and Q1 2023 (Figure 27).

Finally, average revenues for price regulated SMS (Figure 29) reached 0.04 EUR/SMS in Q2 and Q3 2022 and 0.03 EUR/SMS in Q4 2022 and Q1 2023, whereas alternative tariffs generated 0.26 EUR/SMS in Q2 and Q3 2022 and 0.31 EUR/SMS in Q4 2022 and Q1 2023 (Figure 30).



5. Charts

5.1. Analysis of fixed and mobile subscribers

Figure 1: Percentage of fixed subscribers that used intra-EU communications with regulated price from total number of active subscribers, as of 30 September 2022 and as of 31 March 2023.

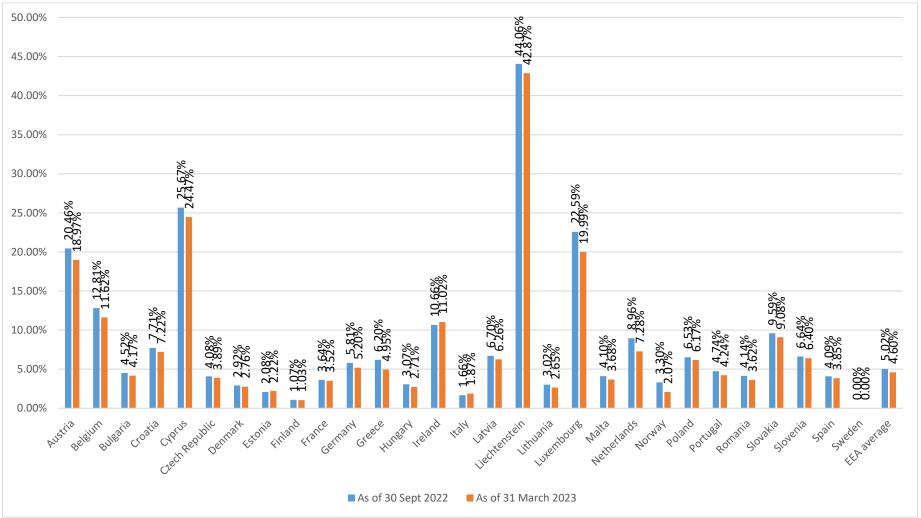
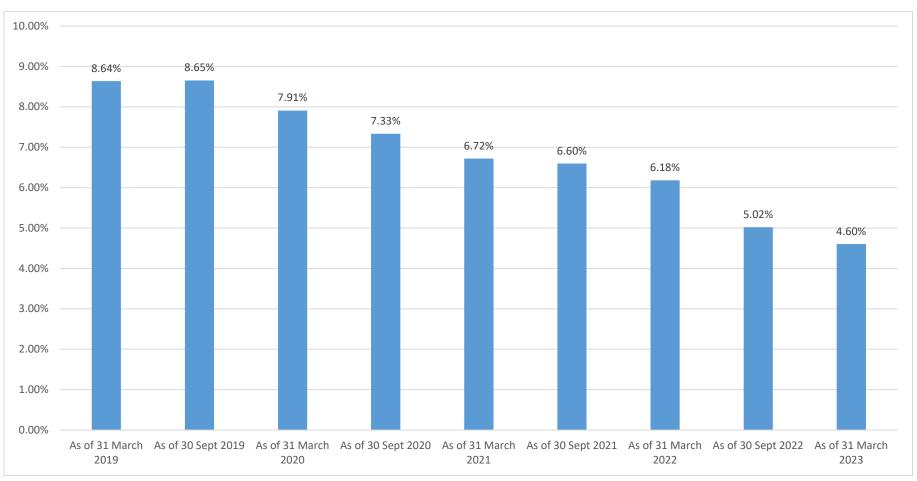


Figure 2: EEA average: percentage of fixed subscribers that used intra-EU communications with regulated price from total number of active subscribers, as of 31 March 2019 and as of 31 March 2023.



During data collection period October 2018 – March 2019, operators were asked to include metered (per unit) tariffs for consumers in the "Regulated tariffs" indicator section in order to have comparable data.

Figure 3: Percentage of mobile subscribers that used intra-EU communications with regulated price from (vs) total number of active subscribers, as of 30 September 2022 and as of 31 March 2023.

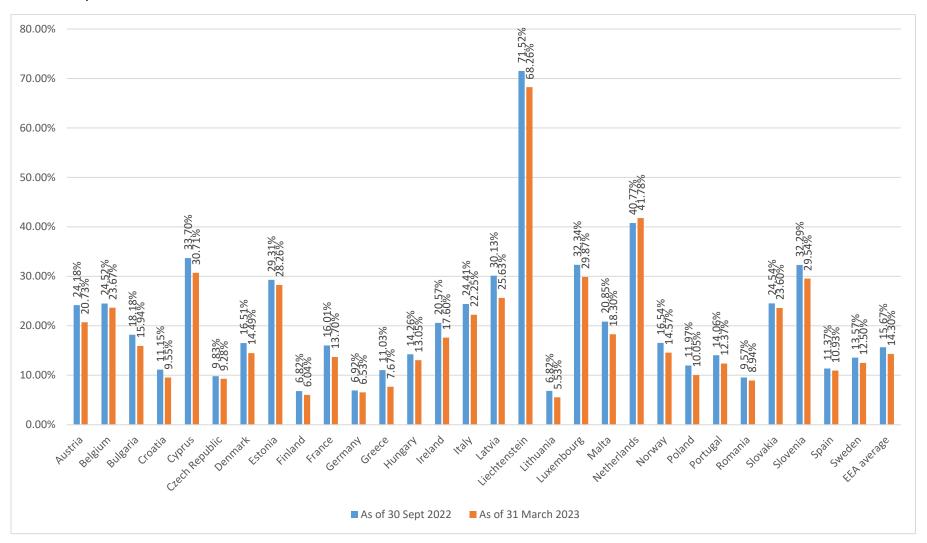
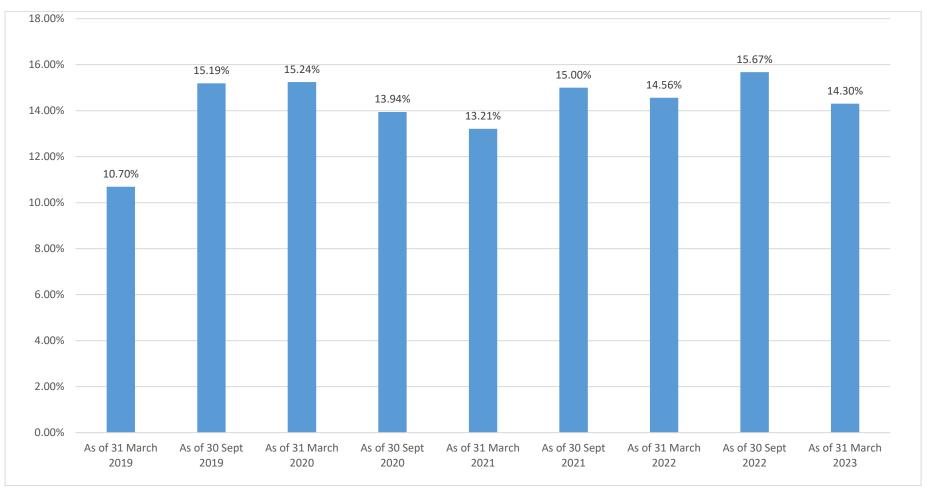


Figure 4: EEA average: percentage of mobile subscribers that used intra-EU communications with regulated price from (vs) total number of active subscribers, as of 31 March 2019 and as of 31 March 2023.



During data collection period October 2018 – March 2019, operators were asked to include metered (per unit) tariffs for consumers in the "Regulated tariffs" indicator section in order to have comparable data.

Figure 5: Percentage of fixed subscribers that used intra-EU communications with alternative tariffs from (vs) total number of active subscribers, as of September 2022 and as of March 2023.

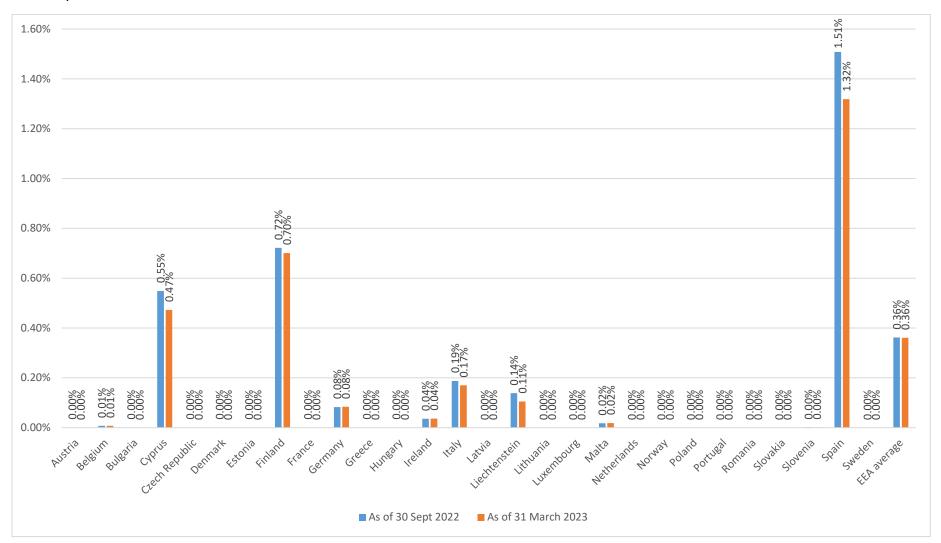


Figure 6: EEA average: percentage of fixed subscribers that used intra-EU communications with alternative tariffs from (vs) total number of active subscribers, as of 31 March 2019 – as of 31 March 2023

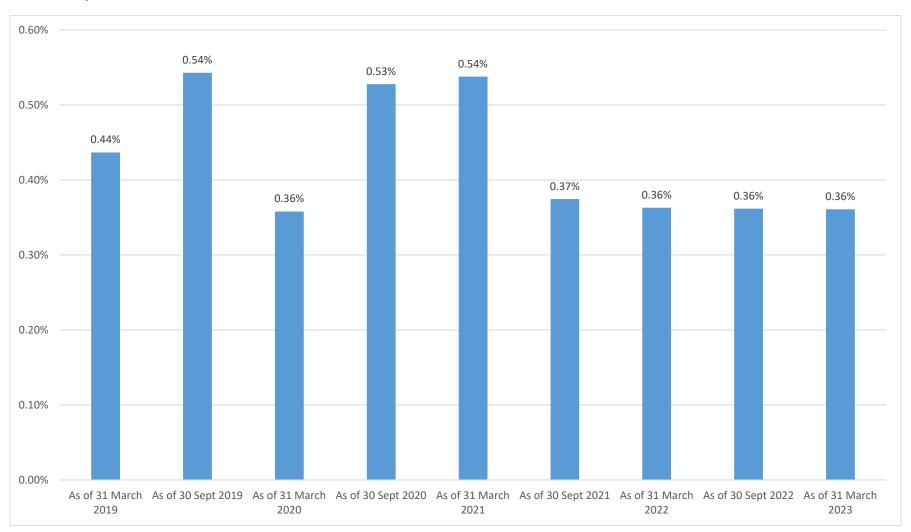
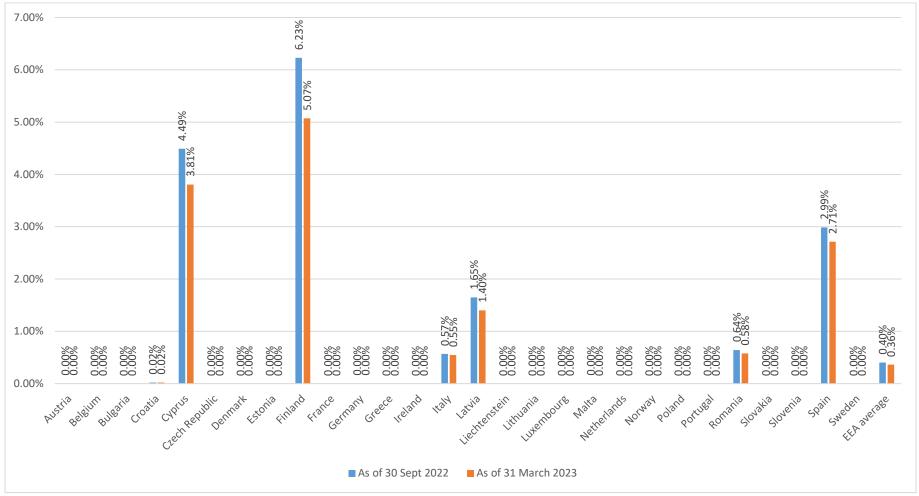
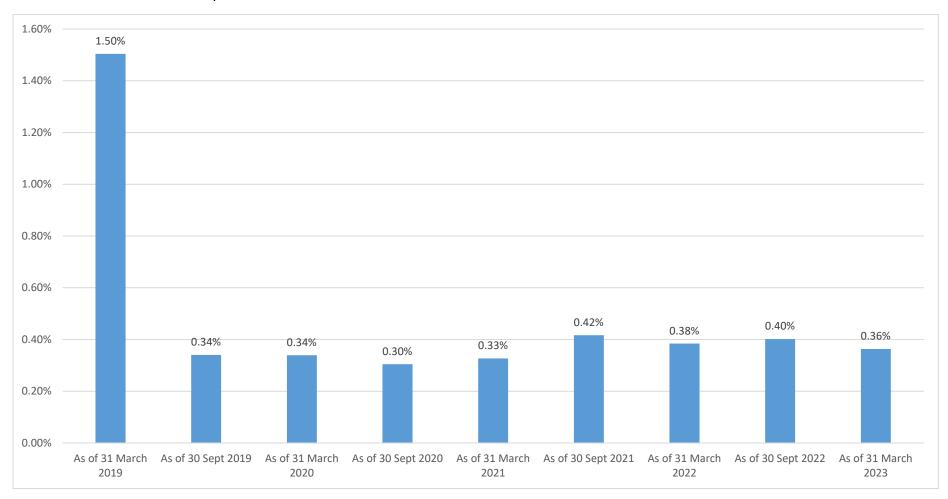


Figure 7: Percentage of mobile subscribers that used intra-EU communications with alternative tariffs from (vs) total number of active subscribers, as of September 2022 and as of March 2023.



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Figure 8: EEA average: percentage of mobile subscribers that used intra-EU communications with alternative tariffs from (vs) total number of active subscribers, as of 31 September 2019 - as of 31 March 2023.



5.2. Volumes of Intra-EU communications services

5.2.1. Volumes of fixed and mobile voices

Figure 9: Fixed intra-EU minutes originated by consumers compared to total intra-EU minutes originated by consumers and businesses, in percent, 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.

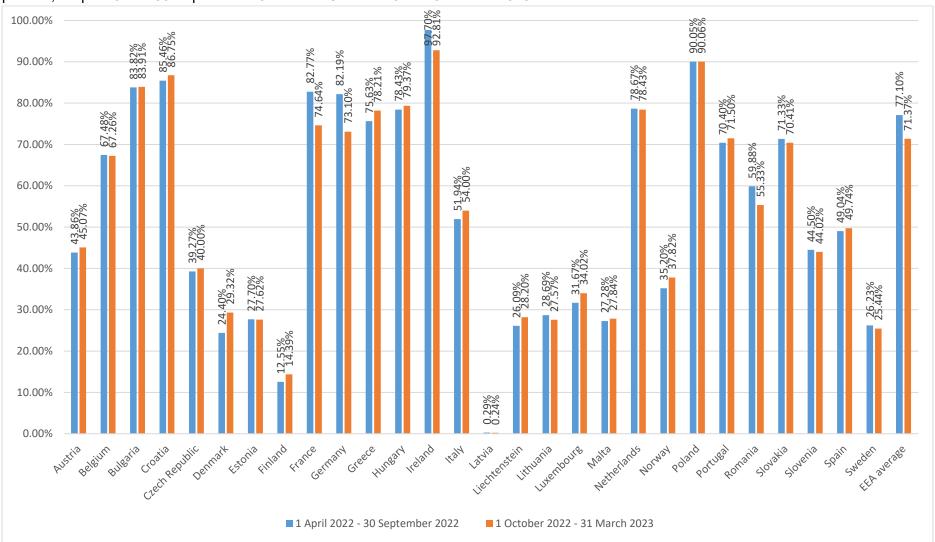


Figure 10: EEA average: fixed intra-EU minutes originated by consumers compared to total intra-EU minutes originated by consumers and businesses, in percent, 1 October 2018 – 31 March 2023

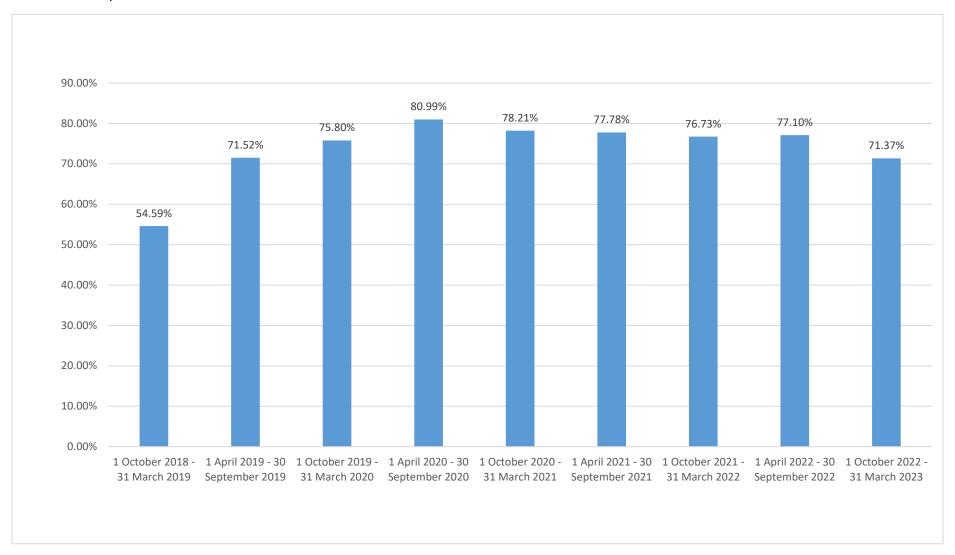


Figure 11: Mobile intra-EU minutes originated by consumers compared to total intra-EU minutes originated by consumers and businesses, in percent, 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.

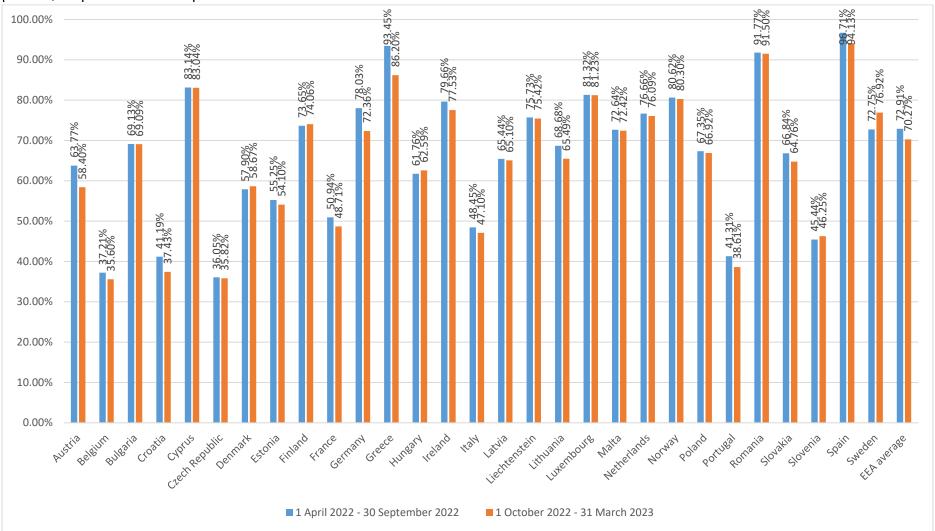


Figure 12: EEA average: mobile intra-EU minutes originated by consumers compared to total intra-EU minutes originated by consumers and businesses, in percent, 1 October 2018 – 31 March 2023.

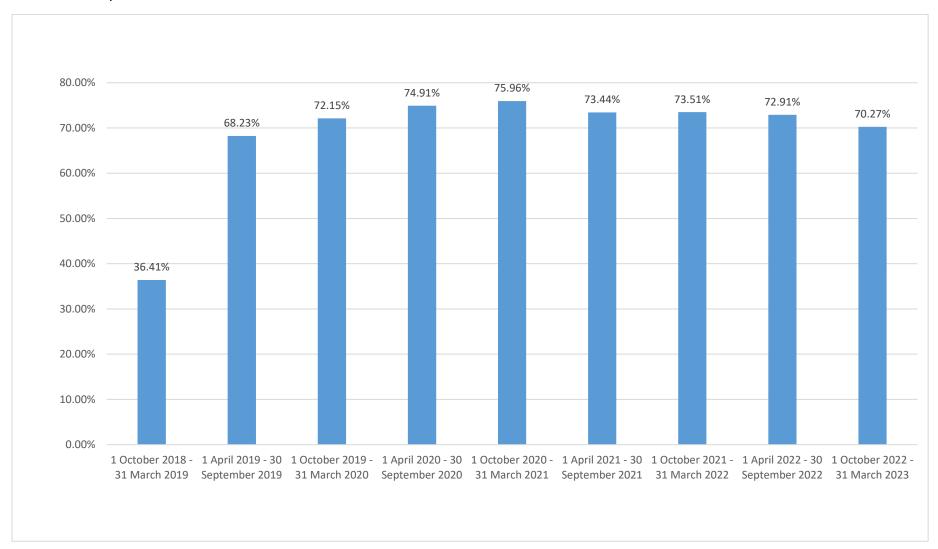


Figure 13: Percentage of fixed price regulated intra-EU minutes (vs) total intra-EU minutes (for consumers only), 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.

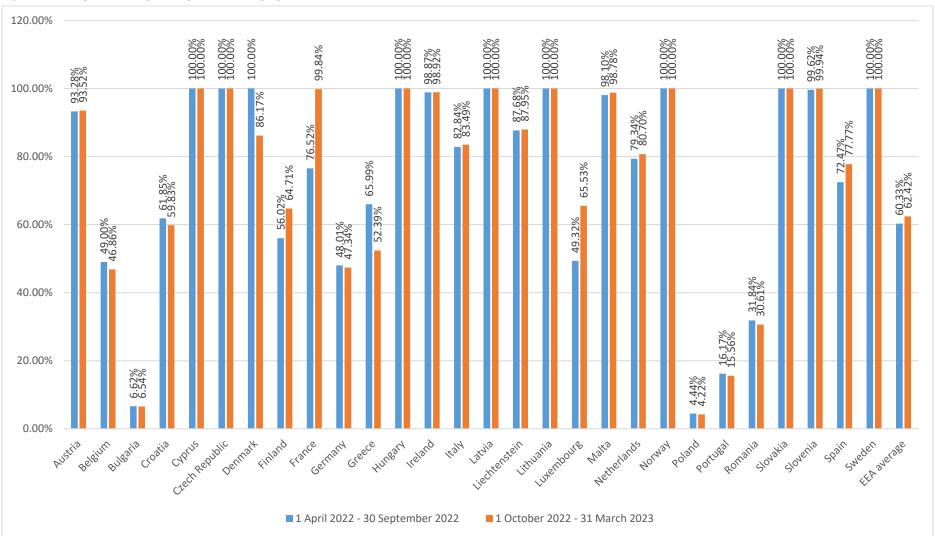


Figure 14: EEA average: percentage of fixed price regulated intra-EU minutes (vs) total intra-EU minutes (for consumers only), 1 October 2018 – 31 March 2023.

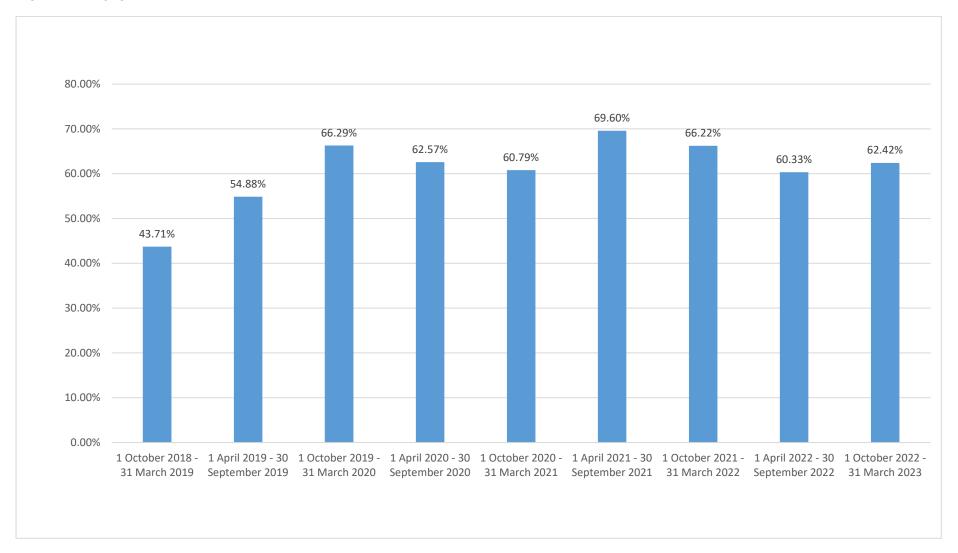
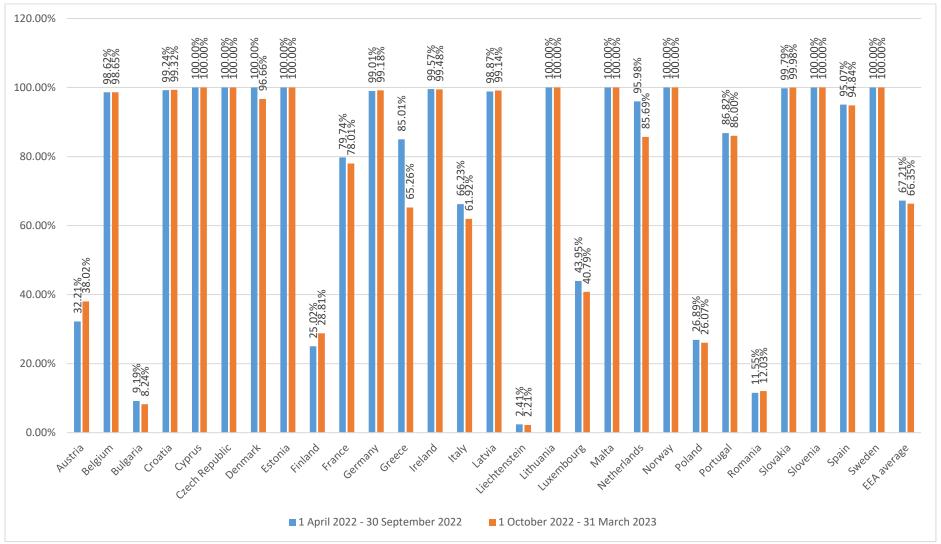
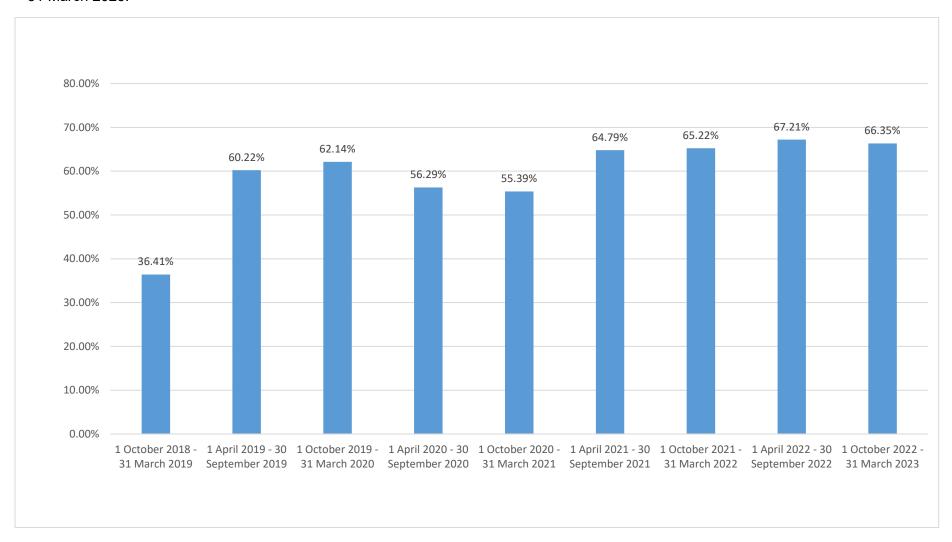


Figure 15: Percentage of mobile price regulated intra-EU minutes (vs) total intra-EU minutes (for consumers only), 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.



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Figure 16: EEA average: percentage of mobile price regulated intra-EU minutes (vs) total intra-EU minutes (for consumers only), 1 October 2018 – 31 March 2023.



5.2.2. Volumes of SMS

Figure 17: Percentage of SMS sent by consumers from (vs) total originated intra-EU SMS (consumers + business), 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.

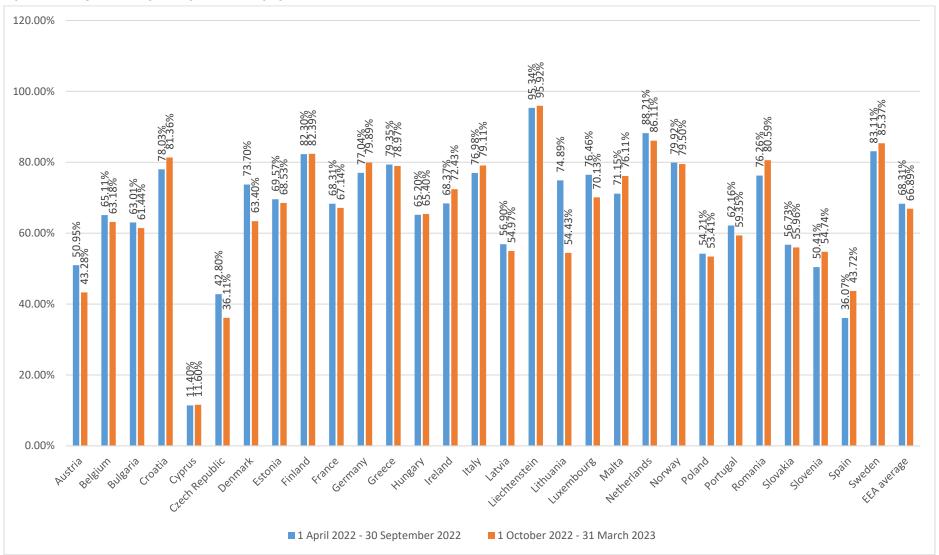


Figure 18: EEA average: percentage of SMS sent by consumers from (vs) total originated intra-EU SMS (consumers + business), 1 October 2018 – 31 March 2023.

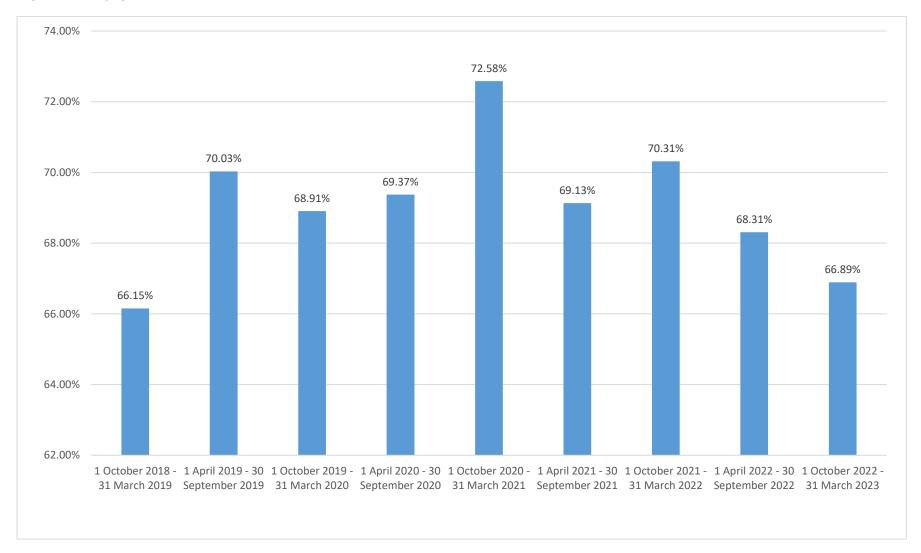
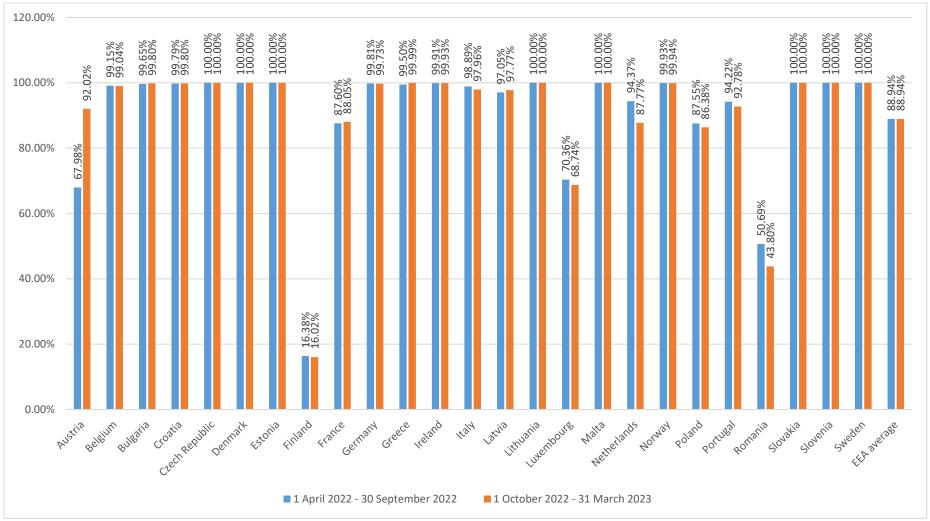
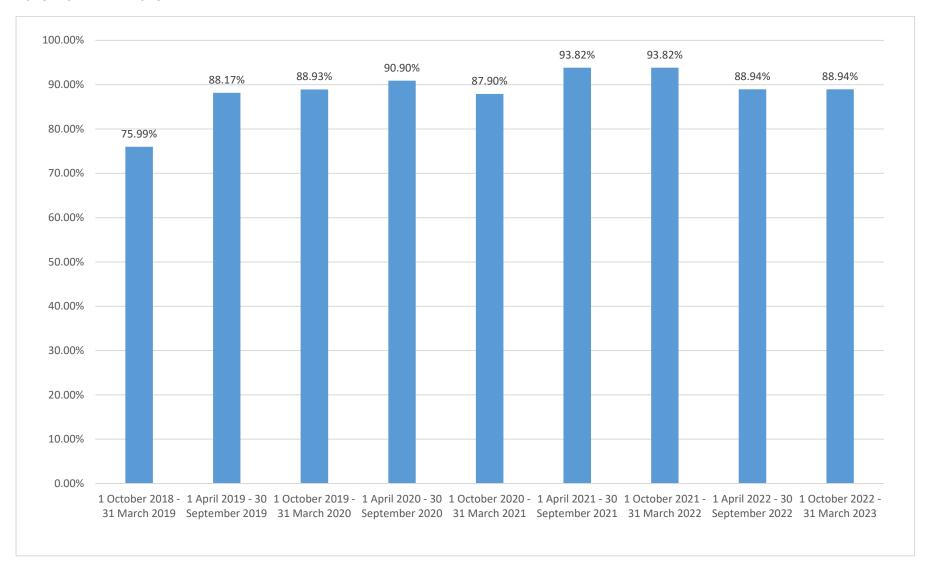


Figure 19: Percentage of price regulated intra-EU communications (vs) total originated intra-EU SMS (consumers only), 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.



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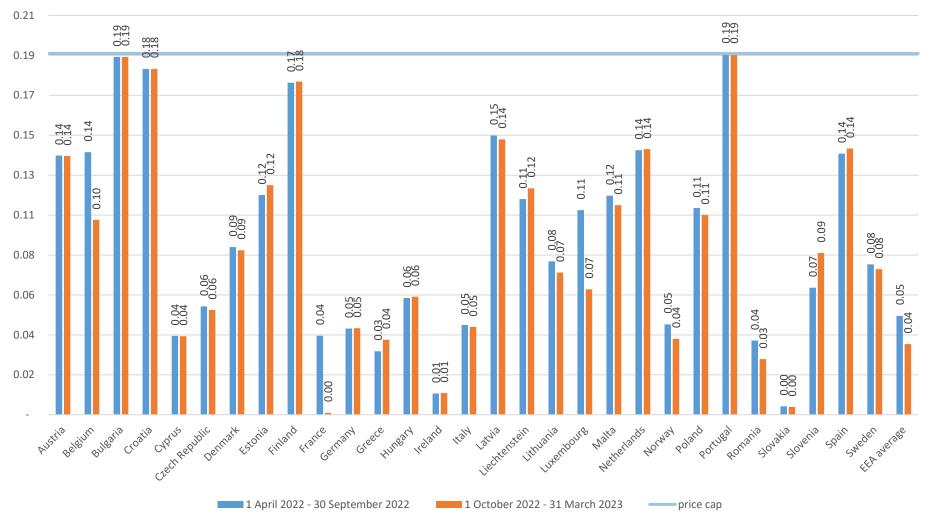
Figure 20: EEA average: percentage of price regulated intra-EU communications (vs) total originated intra-EU SMS (consumers only), 1 October 2018 – 31 March 2023.



5.3. Revenues per unit of Intra-EU communication services

5.3.1. Revenues of fixed and mobile voice services

Figure 21: Revenues (in EUR) per fixed minute for price regulated intra-EU calls, 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.



Regulated Intra-EU communications only refer to communications which are wholly or partly based on actual consumption. Price cap discrepancies happens due to different volumes of actual and billed minutes.

Figure 22: Evolution of EEA average revenues (in EUR) per fixed minute for price regulated intra-EU calls, 1 October 2018 - 31 March 2023.

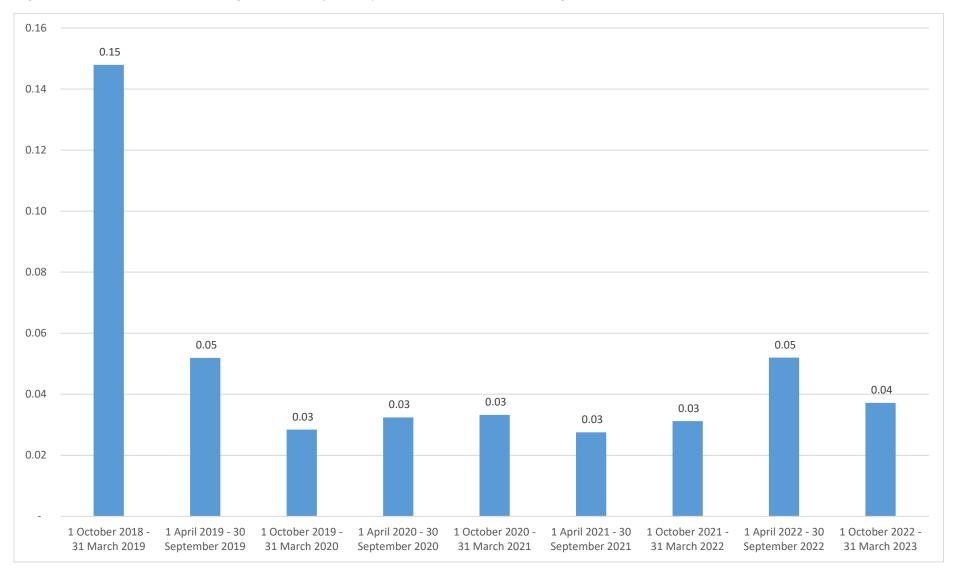
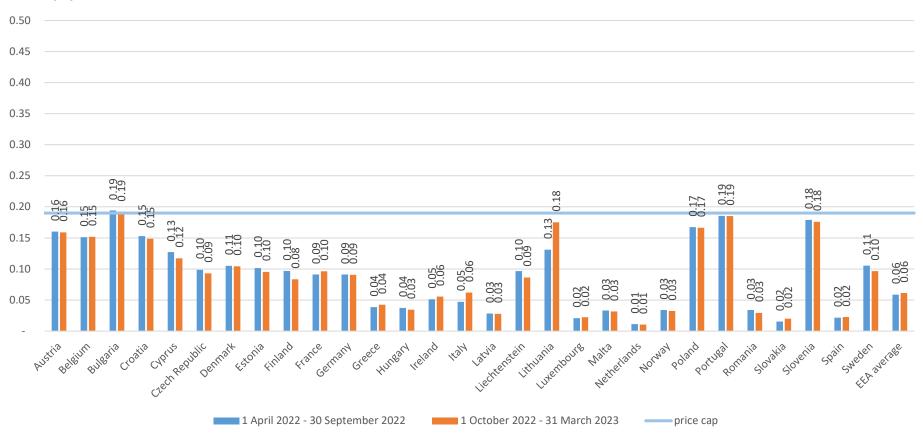


Figure 23: Revenues (in EUR) per mobile minute for price regulated intra-EU calls, 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.



Regulated Intra-EU communications only refer to communications which are wholly or partly based on actual consumption.

Price cap discrepancies happens due to different volumes of actual and billed minutes.

Bulgaria: the calculated average prices are above the price cap because of the different volumes of actual and billed minutes. The questionnaire asks operators to provide actual minutes while the revenues are naturally formed from the billed minutes. As the first charging interval is more than 1 second (the most applied is 60 s. interval), the billed minutes are more than the actual minutes. This is the reason why the calculated average price is above the price cap (operators apply the maximum retail price for Intra EEA calls made – 0.19 EUR per min).

Figure 24: Evolution of EEA average revenues (in EUR) per mobile minute for price regulated intra-EU calls, 1 October 2018 - 31 March 2023.

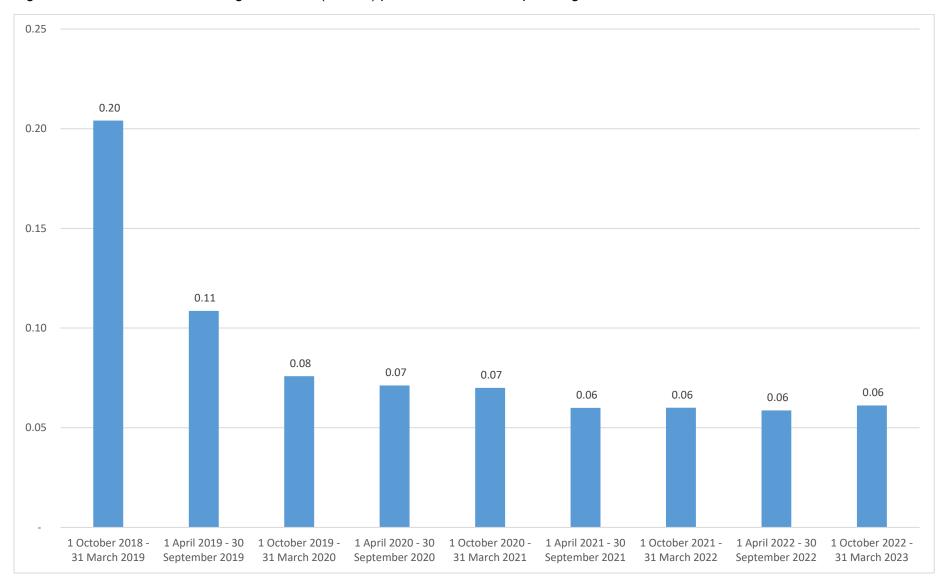
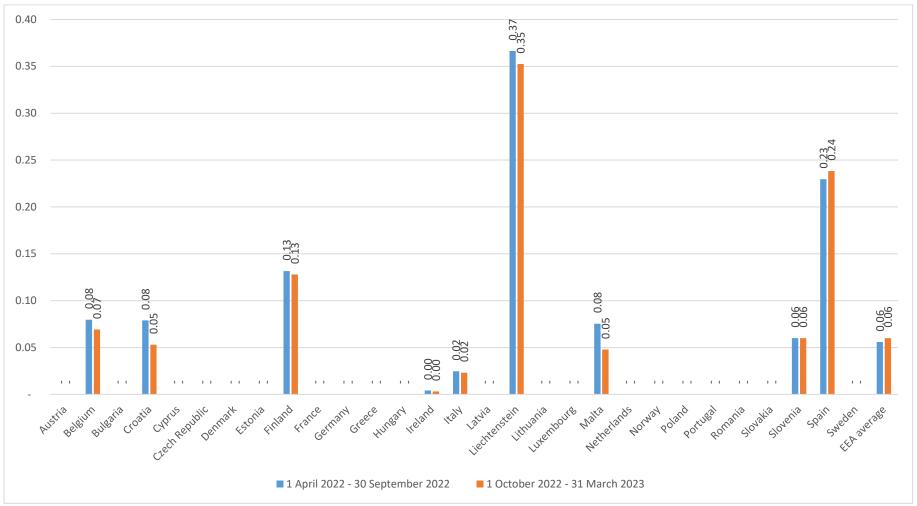


Figure 25: Revenues (in EUR) per fixed minute for intra-EU calls from alternative tariffs, 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.



Only few of the EU operators are offering alternative plans for fixed network regulated international communications.

Figure 26: Evolution of EEA average revenues (in EUR) per fixed minute for intra-EU calls from alternative tariffs, 1 October 2018 - 31 March 2023:

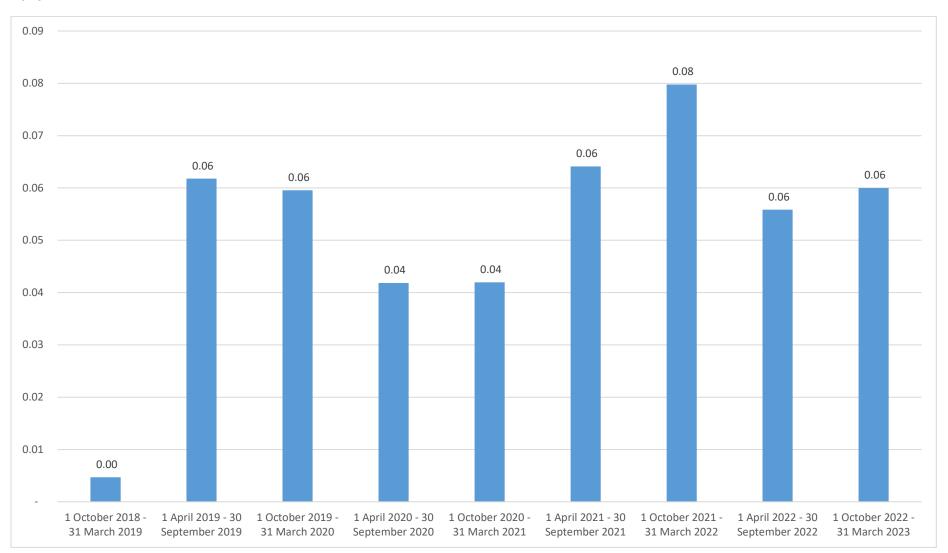
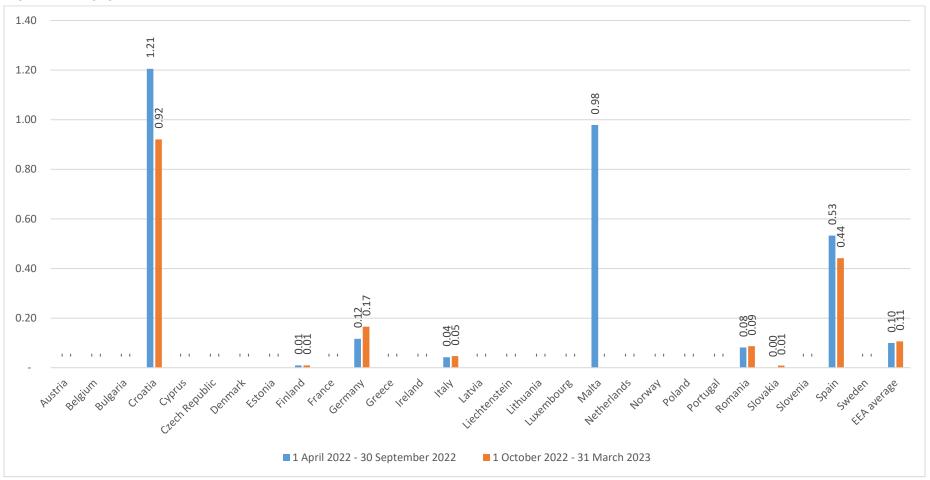


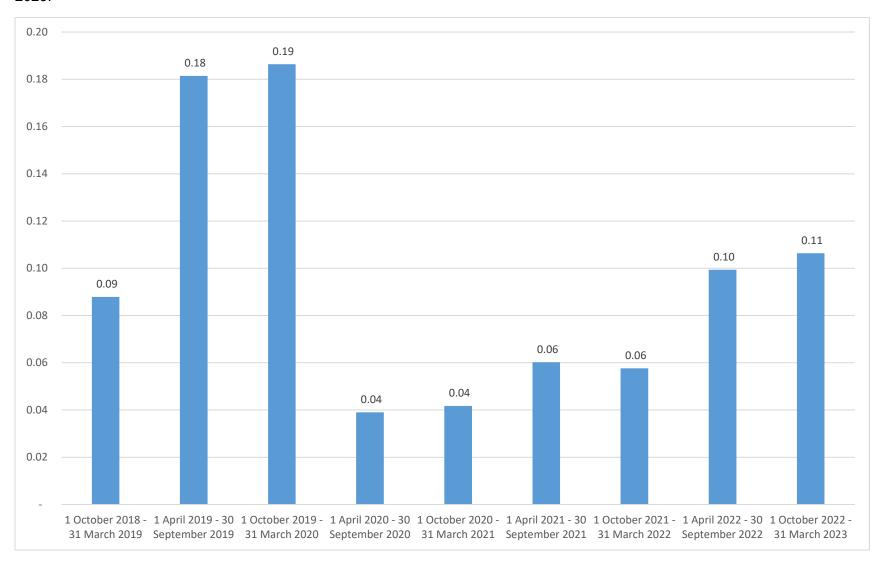
Figure 27: Revenues (in EUR) per mobile minute for intra-EU calls from alternative tariffs, 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.



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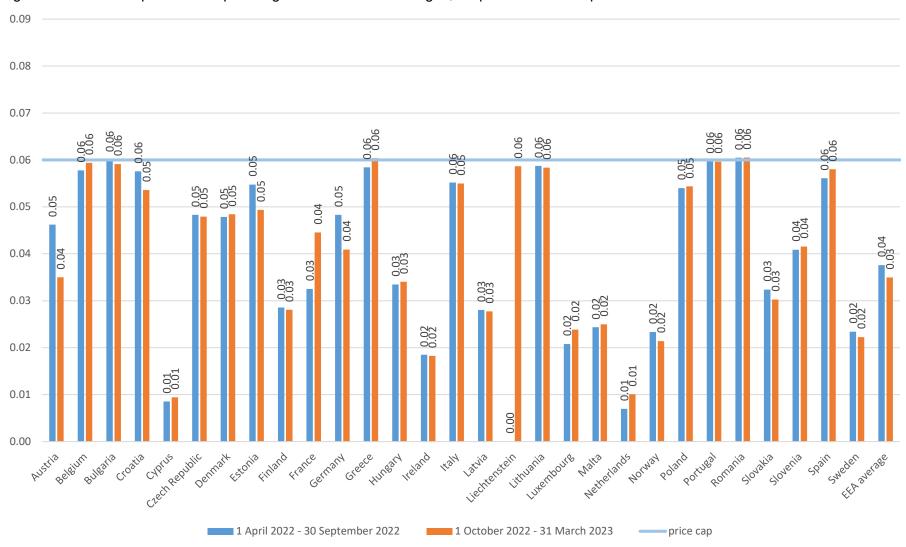
Only few of the EU operators are offering alternative plans for mobile network regulated international communications.

Figure 28: Evolution of EEA average revenues (in EUR) per mobile minute for intra-EU calls from alternative tariffs, 1 October 2018 - 31 March 2023.



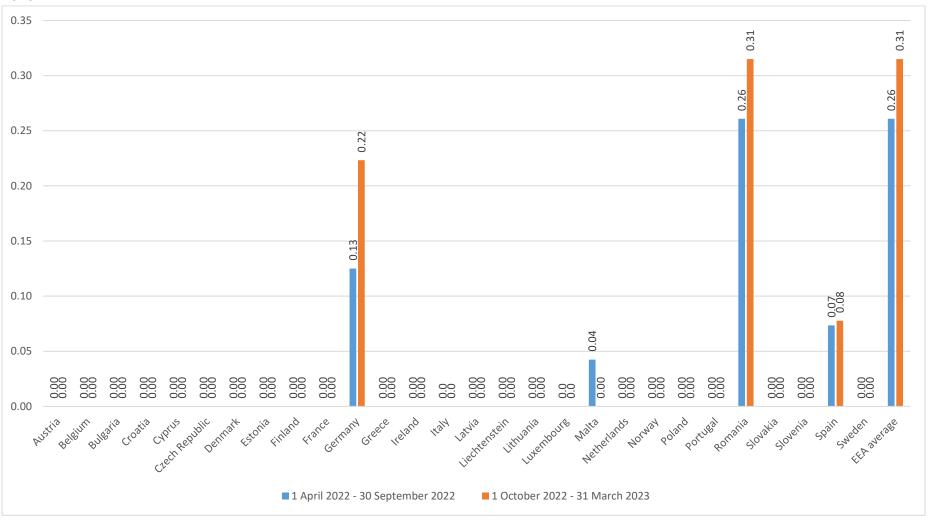
5.3.2. SMS revenues

Figure 29: Revenues per SMS for price regulated intra-EU messages, 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.



Price cap discrepancies happens due to operators' technical reasons (core networks' migration, etc.) to provide revenues/volumes of SMS.

Figure 30: Revenues per SMS for intra-EU messages from alternative tariffs, 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.



Only few of the EU operators are offering alternative plans for mobile network regulated international communications. Hungary confidential.

5.4. Consumption patterns (fixed, mobile voice and SMS)

Figure 31: Average number of fixed Intra-EU minutes per month per subscriber (subscribers that used Intra-EU communications services), 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.

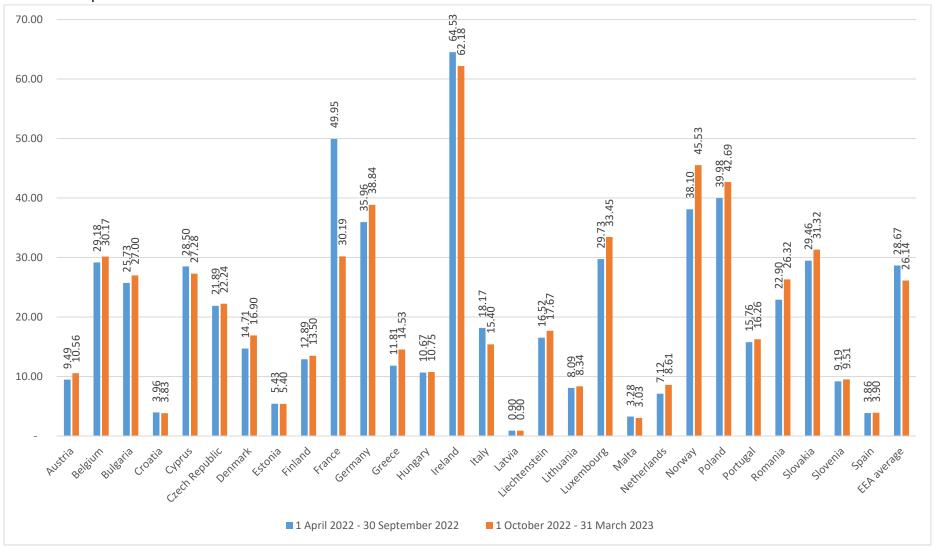


Figure 32: EEA average number of fixed Intra-EU minutes per month per subscriber (subscribers that used Intra-EU communications services), 1 October 2018 - 31 March 2023.

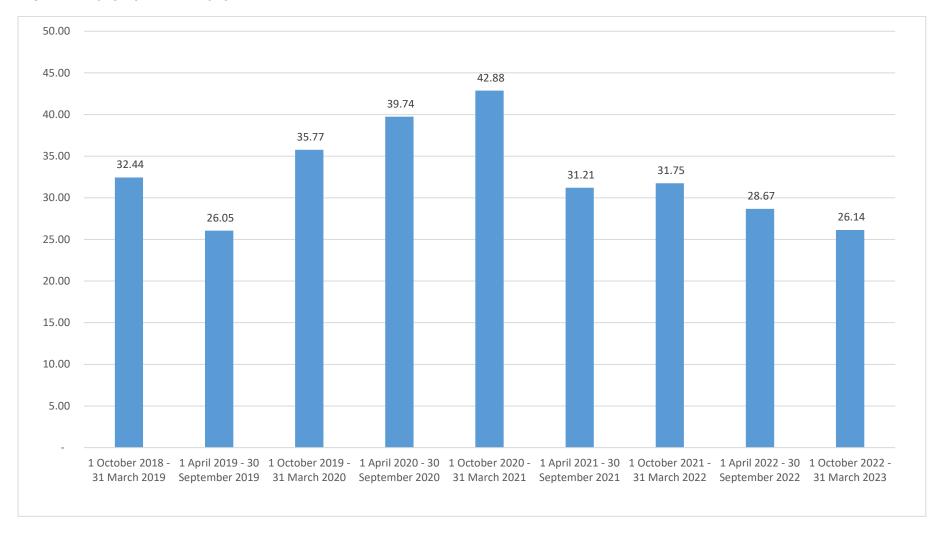


Figure 33: Average number of mobile Intra-EU minutes per month per subscriber (subscribers that used Intra-EU communications services), 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.

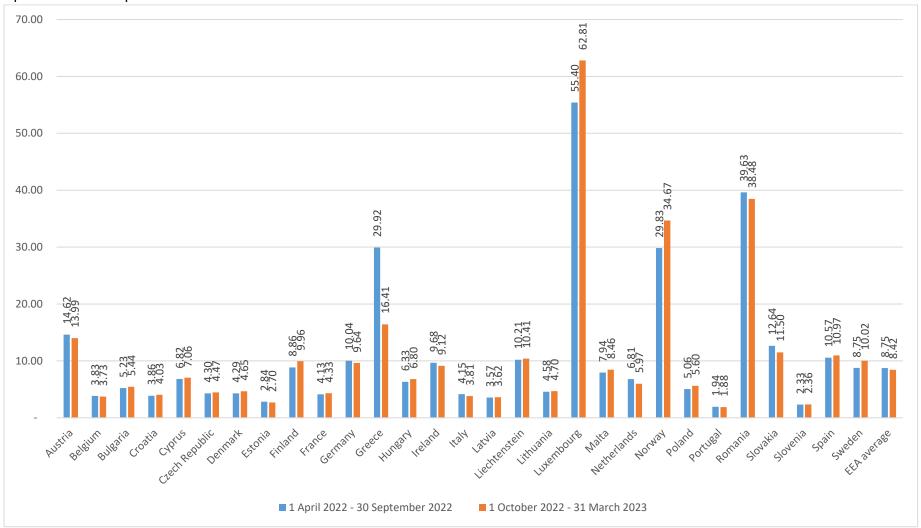


Figure 34: EEA average number of mobile Intra-EU minutes per month per subscriber (subscribers that used Intra-EU communications services), 1 October 2018 - 31 March 2023.

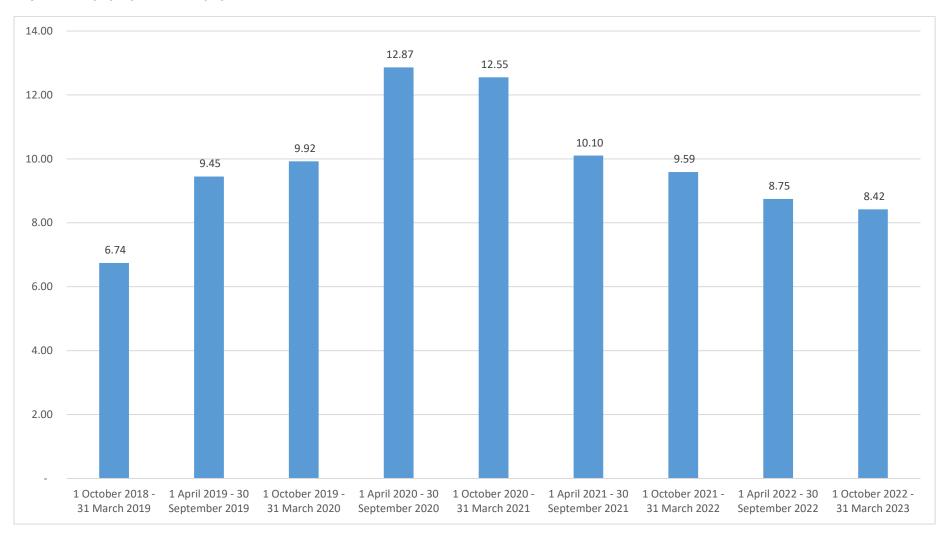


Figure 35: Average number of mobile Intra-EU SMS per month per subscriber (subscribers that used Intra-EU communications services), 1 April 2022 – 30 September 2022 and 1 October 2022 – 31 March 2023.

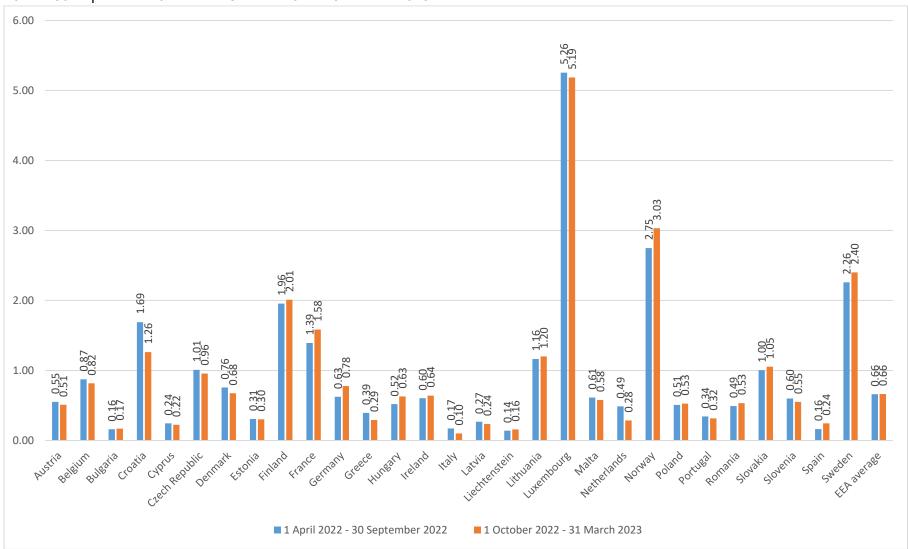
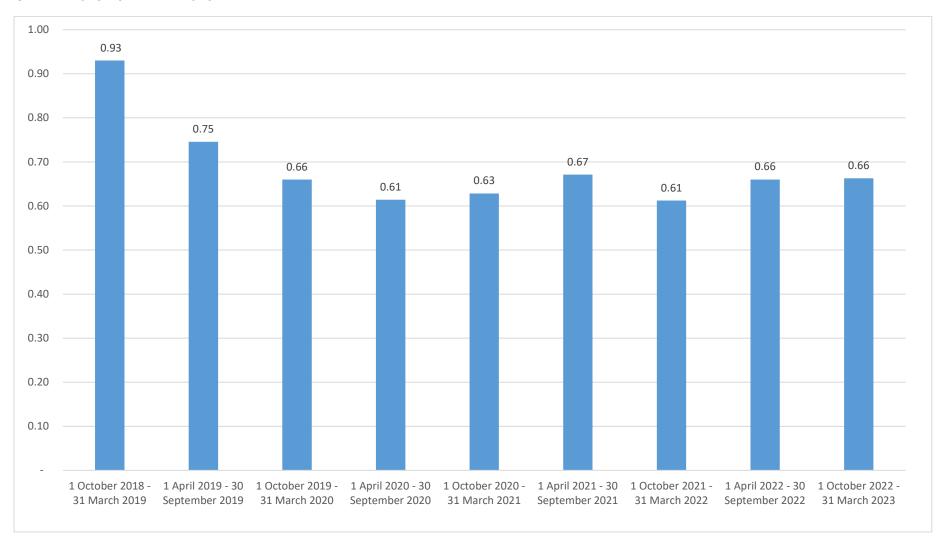


Figure 36: EEA average number of mobile Intra-EU SMS per month per subscriber (subscribers that used Intra-EU communications services), 1 October 2018 - 31 March 2023.



Annex I: Methodology for the data collection

A limited number of operators have opted for not supplying the data relative to indicators in questionnaire. This is not at all unusual for a comprehensive data collection of this type. In most cases, the NRA was able to work with each company to resolve or alleviate the problem. In other cases, where system upgrades are necessary to comply with the new format of the data collection, the operator was asked to provide the best possible estimate currently available and to complete upgrades in time to provide high quality data for the next data collection. Some NRAs expressed major data quality challenges at the national operators' level as well as the use of different reporting systems by operators.

For ease of comparison, the Euro is used throughout this Report. Within the EEA, currency fluctuations between the Euro and other national currencies are likely to have affected the average prices reported for EEA countries outside the Euro zone.

All retail prices included in the charts exclude VAT. They are an average of prices paid by postpaid and prepaid tariff plan customers.

The Intra-EU communications Regulation also applies to the EEA EFTA States Norway, Iceland and Liechtenstein. For calls and SMS originating in Norway, Iceland and Liechtenstein the rules are applicable from the date they are incorporated in the EEA agreement and this Report includes indicators from Norway and Liechtenstein.



Annex II: List of respondents

Operators that provided data for the period 1 April 2022 – 31 March 2023:

Austria

A1 Telekom Austria

Alfred Hochleithner Telekommunikation

Colt Technology Services Austria

Deutsche Telekom Global Business

Solutions Finarea

Garmin (Europe)

GTT Cloud Austria

HostProfis ISP Telekom

HoT Telekom

Hutchison 3G Austria

IKB Innsbrucker Kommunalbetriebe

ITNS

Kabelplus

LINZ STROM GAS WÄRME GmbH

LIWEST

LTKMass Response

MCom-Systems

Michael Hakala

MTEL

NTT Cloud Communications

OJA.at

Onoffapp OÜ

Orange

Porsche Sales & Marketplace

Redworks B.V.

Riepert Informationstechnologie

RMTS Telekom und Service

Russmedia

Salzburg AG

Smartspace

Telnyx Ireland

T-Mobile Austria

T-Systems Austria

Vectone Mobile Austria

Vodafone Enterprises Austria

Voxbone

Belgium

Proximus

Telenet Group

Orange Belgium

Voo

Mobile Vikings

Bulgaria

Vivacom Bulgarian

Yettel Bulgaria

A1 Bulgaria

Cooolbox

Croatia

Hrvatski Telekom

A1 Hrvatska

Tele2

Cyprus

Cablenet

Cyta

Epic

Primetel

Czech Republic

Ceteris

ČEZ Prodei

FAYN Telecommunications

Quantcom

MiniTEL

Nei.cz

Nordic Telecom

O2 Czech Republic

SAZKA

Tesco Mobile ČR

T-Mobile Czech Republic

Vodafone Czech Republic

Denmark

Hi3G Denmark

TDC

Telenor

TeliaDanmark

Estonia

AS EMT

Elisa Eesti

OÜ Top Connect

TELE 2 Eesti

Finland

Alands Telekommunikation

DNA

Elisa Corporation Telia Finland

European Mobile Operator (MOI)

France

Bouygues Telecom

BTBD

Coriolis Telecom Free Mobile

La Poste Telecom

Lycamobile Orange France

SFR

Germany

Telekom Deutschland GmbH

Telefónica Germany GmbH & Co. OHG

Vodafone GmbH

Greece

COSMOTE

Vodafone Panafon

Wind HellasTelecommunications

Forthnet

Hungary

Yettel Magyarország Zrt.

Magyar Telekom Nyrt.

Vodafone Magyarország Zrt.

Digi Kft.

Tarr Kft.

Invitel Zrt.

PR Telekom Zrt.

Vidanet Zrt.

Ireland

Eircom Limited

Hutchison 3G Ireland

Tesco Mobile Ireland

Vodafone Ireland

An Post

Virgin Media Ireland

Italy

Digi Italy

ERG Mobile

Fastweb

Tre

Lycamobile

Poste Mobile

Tim

Tiscali

Vodafone

Wind

Latvia

Baltcom

Bite Latvia

CSC Telecom

Latvijas MobilaisTelefons

Tele2

Tet

Liechtenstein

Hoi Internet

Li-life web+it

Salt (Liechtenstein)

Speedcom

Supranet

Swisscom (Schweiz)

Telecom Liechtenstein

TV-COM

Vestra ICT

Voxphone

Lithuania

Bite Lietuva

Eurocom

Telia Lietuva

Tele2

Teledema

Luxembourg

POST

Proximus Luxembourg

Orange Communications Luxembourg

Malta

Melita Ltd

GO plc

Epic Communications Ltd

Netherlands

KPN

Lebara

Lycamobile Distribution

Tele2 Netherlands

T-Mobile Netherlands

Vodafone Libertel

Norway

Chilimobil

Ice

Fjordkraft

Lycamobile

Telenor

Telia Norge

Poland

Lycamobile

Multimedia Polska

Netia

Orange Polska

P4

Polkomtel

T-Mobile Polska

Telego

Telestrada

Vectra

Virgin Mobile

UPC Polska

Portugal

NOS Comunicações, S.A

MEO – Serviços de Comunicações e

Multimédia,S.A.

Vodafone Portugal – Comunicações

Pessoais.S.A.

NOWO Communications, S.A

NOS Açores Comunicações, S.A.

NOS Madeira Comunicações, S.A.

Lycamobile Portugal, Lda

Romania

Nextgen Communications

Orange Romania

RCS&RDS

Vodafone Romania

Orange Romania Communications

Telekom Romania Mobile Communications

Slovak Republic

O2 Slovakia

Orange Slovensko

Slovak Telekom

SWAN Mobile

Slovenia

TELEKOM SLOVENIJE, D.D.

A1 Slovenija d.d.

TELEMACH D.O.O.

T-2 d.o.o.

IZI mobil, d.d.

HOT mobil, telekomunikacije in storitve

d.o.o.

Mega M d.o.o.

SoftNET d.o.o.

Spain

Digi Spain Telecom, S.L.

Euskaltel, S.A.

Orange Espagne, S.A. Unipersonal

Orange España Virtual, S.L.U.

Pepemobile, S.L.

R Cable y Telecable Telecomunicaciones,

S.A.U.

Telefónica de España, S.A.U.

Telefónica Móviles de España, S.A.

Unipersonal

Vodafone Enabler España, S.L.

Vodafone España, S.A. Unipersonal

Vodafone ONO, S.A.U.

Xfera Móviles, S.A. Unipersonal

Sweden

Hi3G Access

Telenor Sverige

Telia Company

Tele2 Sverige