

## Community survey on ICT usage and e-commerce in enterprises 2021

**Company name:**.....

**Bulstat ID:**

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**Contact details of the person, who fills in the questionnaire:**

**Name, surname:**.....

**Email:**.....

**Phone:**.....

### Module A: Access and use of the internet

**A1.** How many persons employed have access to the internet for business purposes?

*E.g. via personal computers, portable computers, tablets, other portable devices such as smartphones.*

**(Number)**

**If your enterprise does not have internet access fill '0' and the survey ends.**

### Use of a fixed line connection to the internet for business purposes

**A2.** Does your enterprise use any type of fixed line connection to the internet?

*E.g. ADSL, SDSL, VDSL, fiber optics technology (FTTP), cable technology, etc.*

Yes

No  ↓

**Go to A4**


**A3.** What is the maximum contracted download speed of the fastest fixed line internet connection of your enterprise?

*Tick only one.*

a) less than 30 Mbps	<input type="checkbox"/>
b) at least 30 but less than 99 Mbps	<input type="checkbox"/>
c) at least 100 but less than 499 Mbps	<input type="checkbox"/>
d) at least 500 Mbps but less than 999 Mbps	<input type="checkbox"/>
e) at least 1000 Mbps	<input type="checkbox"/>

### Use of a mobile connection to the internet for business purposes

A mobile connection to the internet means the usage of portable devices connecting to the internet through mobile telephone networks for business purposes. Enterprises provide portable devices and pay for all or at least up to a limit, the subscription and the use costs.

**A4.** Does your enterprise provide portable devices that allow a mobile connection to the internet using mobile telephone networks, for business purposes? Yes  No    
*E.g. via laptop, tablet or other portable devices such as smartphones.* **Go to A6**

**A5.** How many persons employed use a portable device provided by the enterprise, that allows internet connection via mobile telephone networks, for business purposes?  
*E.g. via laptop, tablet or other portable devices such as smartphones.*   
**(Number)**

### Use of a website

**A6.** Does your enterprise have a website? Yes  No    
**Go to A8**

<b>A7.</b> Does the website have any of the following:	<b>Yes</b>	<b>No</b>
a) Description of goods or services, price information	<input type="checkbox"/>	<input type="checkbox"/>
b) Online ordering or reservation or booking, e.g. shopping cart	<input type="checkbox"/>	<input type="checkbox"/>
c) Possibility for visitors to customise or design online goods or services	<input type="checkbox"/>	<input type="checkbox"/>
d) Tracking or status of orders placed	<input type="checkbox"/>	<input type="checkbox"/>
e) Personalised content on the website for regular/recurrent visitors	<input type="checkbox"/>	<input type="checkbox"/>
f) Links or references to the enterprise's social media profiles	<input type="checkbox"/>	<input type="checkbox"/>

### Use of social media

Enterprises using social media are considered those that have a user profile, an account or a user licence depending on the requirements and the type of the social media.

<b>A8.</b> Does your enterprise use any of the following social media:	<b>Yes</b>	<b>No</b>
a) Social networks ( <i>e.g. Facebook, LinkedIn, Xing, Yammer, etc.</i> )	<input type="checkbox"/>	<input type="checkbox"/>
b) Enterprise's blog or microblogs ( <i>e.g. Twitter, etc.</i> )	<input type="checkbox"/>	<input type="checkbox"/>
c) Multimedia content sharing websites or apps ( <i>e.g. YouTube, Instagram, Flickr, SlideShare, Pinterest, Snapchat, etc.</i> )	<input type="checkbox"/>	<input type="checkbox"/>
d) Wiki based knowledge sharing tools	<input type="checkbox"/>	<input type="checkbox"/>

## Module B: e-commerce sales

In e-commerce sales of goods or services, the order is placed via web sites, apps or EDI-type messages by methods specifically designed for the purpose of receiving orders.

The payment may be done online or offline.

e-Commerce does not include orders written in e-mail.

Please report web and EDI-type sales separately. They are defined by the method of placing the order:

- WEB sales: the customer places the order on a website or through an app;
- EDI type sales: an EDI-type order message is created from the business system of the customer.

### Web sales of goods or services

Web sales cover orders, bookings and reservations placed by your customers via:

- your enterprise's websites or apps:
  - ✓ online store (webshop);
  - ✓ web forms;
  - ✓ extranet (webshop or web forms);
  - ✓ booking/reservation applications for services;
  - ✓ apps for mobile devices or computers.
- e-commerce marketplace websites or apps (used by several enterprises for trading goods or services) (e.g. eBay, Amazon, Booking.com, Alibaba, eMag, etc.).

Orders written in e-mail are not counted as web sales.

<b>B1.</b> During 2020, did your enterprise have web sales of goods or services via:			
	<b>Yes</b>	<b>No</b>	
a) your enterprise's websites or apps (including extranets)	<input type="checkbox"/>	<input type="checkbox"/>	
b) e-commerce marketplace websites or apps used by several enterprises for trading goods or services (e.g. Booking.com, eBay, Amazon, Alibaba, eMAG, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	
<b>If both B1 a) and B1 b) = 'No' then go to B10.</b>			
<b>B2.</b> What was the value of your web sales in 2020:			
a) value of your web sales (in thousands leva, excluding VAT) (If the value is less than one thousand leva, please enter "1").	<div style="border: 1px solid black; width: 150px; height: 20px; margin: 0 auto;"></div> <b>(Thousands leva)</b>		
<b>OR</b>			
b) percentage of the total turnover* generated by web sales <small>* Turnover includes gross sales revenue, incl. revenue tax, excluding VAT and revenue from sales of raw materials (code 15500 + code 15420 of the Annual Activity Report)</small>	_ _ _ %		
<b>If B1a) = 'Yes', go to B6.</b>			
<b>If B1b) = 'Yes', go to B4.</b>			
<b>If both B1a) and B1b) = 'Yes' then go to B3.</b>			
<b>B3.</b> What was the percentage breakdown of the value of web sales in 2020 for the following:			
a) via your enterprise's websites or apps (including extranets)	_ _ _ %		
b) via e-commerce marketplace websites or apps used by several enterprises for trading goods or services (e.g. Booking.com, eBay, Amazon, Alibaba, eMAG, etc.)	_ _ _ %		
<b>Total:</b>	<b>1 0 0%</b>		
<b>B4.</b> Via how many e-commerce marketplaces did you have web sales during 2020?	Via one <input type="checkbox"/>	Via two <input type="checkbox"/>	Via more than two <input type="checkbox"/>
<b>If B4 = 'one' then go to B6.</b>			
<b>B5.</b> Did more than half of your turnover from e-commerce marketplaces in 2020 come from only one e-commerce marketplace?	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>	

<b>B6.</b>	What was the percentage breakdown of the value of web sales in 2020 by type of customer:	
	a) Sales to private consumers	__ __ __ %
	b) Sales to other enterprises and sales to public sector	__ __ __ %
	<b>Total:</b>	<b>1 0 0%</b>

<b>B7.</b>	During 2020, did your enterprise have web sales to customers located in the following geographic areas:	<b>Yes</b>	<b>No</b>
	a) Bulgaria	<input type="checkbox"/>	<input type="checkbox"/>
	b) Other EU countries*	<input type="checkbox"/>	<input type="checkbox"/>
	c) Rest of the world	<input type="checkbox"/>	<input type="checkbox"/>

**If only one answered 'Yes' in B7 go to the instruction before B9.**

<b>B8.</b>	What was the percentage breakdown of the value of web sales in 2020 to customers located in the following geographic areas:	
	a) Bulgaria	__ __ __ %
	b) Other EU countries*	__ __ __ %
	c) Rest of the world	__ __ __ %
	<b>Total:</b>	<b>1 0 0%</b>

**If B7b) answered with 'Yes', go to B9, otherwise go to B10.**

<b>B9.</b>	Regarding web sales to other EU countries*: did your enterprise experience any of the following difficulties during 2020:	<b>Да</b>	<b>Не</b>
	a) High costs of delivering or returning products when selling to other EU countries*	<input type="checkbox"/>	<input type="checkbox"/>
	b) Difficulties related to resolving complaints and disputes when selling to other EU countries*	<input type="checkbox"/>	<input type="checkbox"/>
	c) Adapting product labelling for sales to other EU countries *	<input type="checkbox"/>	<input type="checkbox"/>
	d) Lack of knowledge of foreign languages for communicating with customers in other EU countries *	<input type="checkbox"/>	<input type="checkbox"/>
	e) Restrictions from your business partners to sell to certain EU countries*	<input type="checkbox"/>	<input type="checkbox"/>
	f) Difficulties related to the VAT system in EU countries* (e.g. uncertainty regarding VAT treatment in different countries)	<input type="checkbox"/>	<input type="checkbox"/>

\* EU countries: Austria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Ireland, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovenia, Slovakia, Spain and Sweden.

**EDI-type sales**  
 EDI-type sales cover orders placed by your customers via EDI-type messages (EDI: Electronic Data interchange) in an agreed or standard format suitable for automated processing meaning:  
 - EDI-type order message created from the business system of the customer;  
 - including orders transmitted via EDI-service provider;  
 - including automatic system generated demand driven orders;  
 - including orders received directly into your ERP system.  
 Examples of EDI - EDIFACT, EANCOM, UBL, XML, eXite, ECOD.

<b>B10.</b>	During 2020, did your enterprise have EDI-type sales of goods or services?	<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>
			<b>Go to C1</b>

**B11.** What was the value of your EDI-type sales in 2020:

a) value of your EDI-type sales of goods or services (in thousands leva, excluding VAT)  
(If the value is less than one thousand leva, please enter "1").

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(Thousands leva)

**OR**

b) percentage of the total turnover\* generated by EDI-type sales of goods or services

\* Turnover includes gross sales revenue, incl. revenue tax, excluding VAT and revenue from sales of raw materials (code 15500 + code 15420 of the Annual Activity Report)

— — — %

**B12.** During 2020, did your enterprise sell via EDI-type messages to customers located in the following geographic areas:

	Yes	No
a) Bulgaria	<input type="checkbox"/>	<input type="checkbox"/>
b) Other EU countries*	<input type="checkbox"/>	<input type="checkbox"/>
c) Rest of the world	<input type="checkbox"/>	<input type="checkbox"/>

\* EU countries: Austria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Ireland, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovenia, Slovakia, Spain and Sweden.

### Module C: Sharing of information electronically within the enterprise

**C1.** Does your enterprise use ERP software (Enterprise Resource Planning)?

An ERP (Enterprise Resource Planning) is a software used to manage resources by sharing information among different functional areas (e.g. accounting, planning, production, marketing, etc.). ERP software can be off-the-shelf software, customised to the needs of the enterprise or self-created software. Examples are SAP, bgERP, Microsoft Dynamics 365, Tonegan ERP, EnterpriseOne, NetSuite ERP, Atlantis ERP, Soft1 ERP, etc.

Yes  No

**C2.** Does your enterprise use CRM software (Customer Relationship Management) to manage:

- |   | Yes                      | No                       |
|---|--------------------------|--------------------------|
| a) the collection, storing and making available information on customers to various business functions  | <input type="checkbox"/> | <input type="checkbox"/> |
| b) the analysis of information on customers for marketing purposes (e.g. setting prices, sales promotion, choosing distribution channels, etc.) | <input type="checkbox"/> | <input type="checkbox"/> |

### Module D: Use of cloud computing services

Cloud computing refers to ICT services that are used over the internet to access software, computing power, storage capacity etc.; where the services have all of the following characteristics:

- are delivered from servers of service providers;
- can be easily scaled up or down (e.g. number of users or change of storage capacity);
- can be used on-demand by the user, at least after the initial set up (without human interaction with the service provider);
- are paid for, either per user, by capacity used, or they are pre-paid.

Cloud computing may include connections via Virtual Private Networks (VPN).

**D1.** Does your enterprise buy any cloud computing services used over the internet?

Please refer to the definition of cloud computing above, exclude free of charge services.

Yes  No    
**Go to E1**

**D2.** Does your enterprise buy any of the following cloud computing services used over the internet:

Please refer to the definition of cloud computing above, exclude free of charge services.

	Yes	No
a) E-mail (as a cloud computing service)	<input type="checkbox"/>	<input type="checkbox"/>
b) Office software (e.g. word processors, spreadsheets etc.) (as a cloud computing service)	<input type="checkbox"/>	<input type="checkbox"/>

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	Yes	No
c) Finance or accounting software applications <i>(as a cloud computing service)</i>	<input type="checkbox"/>	<input type="checkbox"/>
d) Enterprise Resource Planning (ERP) software applications <i>(as a cloud computing service)</i>	<input type="checkbox"/>	<input type="checkbox"/>
e) Customer Relationship Management (CRM) software applications <i>(as a cloud computing service)</i>	<input type="checkbox"/>	<input type="checkbox"/>
f) Security software applications <i>(e.g. antivirus program, network access control) (as a cloud computing service)</i>	<input type="checkbox"/>	<input type="checkbox"/>
g) Hosting the enterprise's database(s) <i>(as a cloud computing service)</i>	<input type="checkbox"/>	<input type="checkbox"/>
h) Storage of files <i>(as a cloud computing service)</i>	<input type="checkbox"/>	<input type="checkbox"/>
i) Computing power to run the enterprise's own software <i>(as a cloud computing service)</i>	<input type="checkbox"/>	<input type="checkbox"/>
j) Computing platform providing a hosted environment for application development, testing or deployment <i>(e.g. reusable software modules, application programming interfaces (APIs) (as a cloud computing service)</i>	<input type="checkbox"/>	<input type="checkbox"/>

### Module E: Internet of things

The Internet of Things (IoT) refers to interconnected devices or systems, often called "smart" devices or systems. They collect and exchange data and can be monitored or remotely controlled via the internet.

Examples are:

- "smart"-meters, -thermostats, -lamps (lights), -alarm systems, -smoke detectors, -door locks, -cameras;
- sensors, RFID tags connected to a base station that allows them to be managed via the internet.

Please exclude plain detection and sensors (e.g. motion, sound, temperature, smoke, etc.) and RFID tags that cannot be monitored or remotely controlled via the internet).

Internet of Things may include various types of network connections via WAN, WiFi, LAN, Bluetooth, ZigBee, Virtual Private Networks (VPN) etc.

<b>E1.</b> Does your enterprise use interconnected devices or systems that can be monitored or remotely controlled via the internet (internet of things)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
		↓ <b>Go to F1</b>
<b>E2.</b> Does your enterprise use interconnected devices or systems that can be monitored or remotely controlled via the internet (internet of things) for any of the following:	Yes	No
a) for energy consumption management <i>(e.g. "smart"-meters, -thermostats, -lamps (lights))</i>	<input type="checkbox"/>	<input type="checkbox"/>
b) for premises' security <i>(e.g. "smart" -alarm systems, -smoke detectors, -door locks, -security cameras)</i>	<input type="checkbox"/>	<input type="checkbox"/>
c) ) for production processes <i>(e.g. sensors or RFID tags that are monitored/controlled via the internet and used to monitor or automate the process)</i>	<input type="checkbox"/>	<input type="checkbox"/>
d) for logistics management <i>(e.g. sensors monitored/controlled via the internet for tracking products or vehicles in warehouse management)</i>	<input type="checkbox"/>	<input type="checkbox"/>
e) for condition-based maintenance <i>(e.g. sensors monitored/controlled via the internet to monitor maintenance needs of machines or vehicles)</i>	<input type="checkbox"/>	<input type="checkbox"/>
f) for customer service <i>(e.g. "smart" cameras or sensors monitored/controlled via the internet to monitor customers' activities or offer them a personalised shopping experience)</i>	<input type="checkbox"/>	<input type="checkbox"/>
g) for other purposes	<input type="checkbox"/>	<input type="checkbox"/>

## Module F: Artificial intelligence

Artificial intelligence refers to systems that use technologies such as: text mining, computer vision, speech recognition, natural language generation, machine learning, deep learning to gather and/or use data to predict, recommend or decide, with varying levels of autonomy, the best action to achieve specific goals.

Artificial intelligence systems can be purely software based, e.g.:


- chatbots and business virtual assistants based on natural language processing;
- face recognition systems based on computer vision or speech recognition systems;
- machine translation software;
- data analysis based on machine learning, etc.;

or embedded in devices, e.g.:

- autonomous robots for warehouse automation or production assembly works;
- autonomous drones for production surveillance or parcel handling, etc.

F1.	Does your enterprise use any of the following Artificial intelligence technologies:	Yes	No
	a) Technologies performing analysis of written language ( <i>text mining</i> )	<input type="checkbox"/>	<input type="checkbox"/>
	b) Technologies converting spoken language into machine-readable format ( <i>speech recognition</i> )	<input type="checkbox"/>	<input type="checkbox"/>
	c) Technologies generating written or spoken language ( <i>natural language generation</i> )	<input type="checkbox"/>	<input type="checkbox"/>
	d) Technologies identifying objects or persons based on images ( <i>image recognition, image processing</i> )	<input type="checkbox"/>	<input type="checkbox"/>
	e) Machine learning ( <i>e.g. deep learning</i> ) for data analysis	<input type="checkbox"/>	<input type="checkbox"/>
	f) Technologies automating different workflows or assisting in decision making ( <i>Artificial Intelligence based software robotic process automation</i> )	<input type="checkbox"/>	<input type="checkbox"/>
	g) Technologies enabling physical movement of machines via autonomous decisions based on observation of surroundings ( <i>autonomous robots, self-driving vehicles, autonomous drones</i> )	<input type="checkbox"/>	<input type="checkbox"/>
<b>If F1 a) to g) = 'No' then go to F4.</b>			
F2.	Does your enterprise use Artificial Intelligence software or systems for any of the following purposes:	Yes	No
	a) for marketing or sales <i>e.g.</i> - chatbots based on natural language processing for customer support; - customer profiling, price optimisation, personalised marketing offers, market analysis based on machine learning, etc.	<input type="checkbox"/>	<input type="checkbox"/>
	b) for production processes <i>e.g.</i> - predictive maintenance based on machine learning; - tools to classify products or find defects in products based on computer vision; - autonomous drones for production surveillance, security or inspection; - assembly works performed by autonomous robots, etc.	<input type="checkbox"/>	<input type="checkbox"/>
	c) for organisation of business administration processes <i>e.g.</i> - business virtual assistants based on machine learning and/or natural language processing; - voice to text conversion based on speech recognition for document drafting; - automated planning or scheduling based on machine learning; - machine translation, etc.	<input type="checkbox"/>	<input type="checkbox"/>
	d) for management of enterprises <i>e.g.</i> - machine learning to analyse data and help make investment or other; - sales or business forecasting based on machine learning; - risk assessment based on machine learning, etc.	<input type="checkbox"/>	<input type="checkbox"/>
	e) for logistics <i>e.g.</i> - autonomous robots for pick-and-pack solutions in warehouses; - route optimization based on machine learning; - autonomous robots for parcel shipping, tracing, distribution and sorting; - autonomous drones for parcel delivery, etc.	<input type="checkbox"/>	<input type="checkbox"/>

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		Yes	No
	f) for ICT security <i>e.g.</i> - face recognition based on computer vision for authentication of ICT users; - detection and prevention of cyber-attacks based on machine learning, etc.	<input type="checkbox"/>	<input type="checkbox"/>
	g) for human resources management or recruiting <i>e.g.</i> - candidates pre-selection screening, automation of recruiting based on machine learning; - employee profiling or performance analysis based on machine learning; - chatbots based on natural language processing for recruiting or supporting human resources management, etc.	<input type="checkbox"/>	<input type="checkbox"/>
<b>F3.</b>	How did your enterprise acquire the Artificial Intelligence software or systems that it uses?	<b>Yes</b>	<b>No</b>
	a) They were developed by own employees (including those employed in parent or affiliate enterprise)	<input type="checkbox"/>	<input type="checkbox"/>
	b) Commercial software or systems were modified by own employees (including those employed in parent or affiliate enterprise)	<input type="checkbox"/>	<input type="checkbox"/>
	c) Open-source software or systems were modified by own employees (including those employed in parent or affiliate enterprise)	<input type="checkbox"/>	<input type="checkbox"/>
	d) Commercial software or systems ready to use were purchased (including examples where it was already incorporated in a purchased item or system)	<input type="checkbox"/>	<input type="checkbox"/>
	e) External providers were contracted to develop or modify them	<input type="checkbox"/>	<input type="checkbox"/>
<b>Go to X1.</b>			
<b>F4.</b>	Has your enterprise ever considered using any of the Artificial Intelligence technologies listed in question F1?	Yes <input type="checkbox"/>	No <input type="checkbox"/>  <b>Go to X1</b>
<b>F5.</b>	What are the reasons for your enterprise not to use any of the Artificial Intelligence technologies listed in question F1?	<b>Yes</b>	<b>No</b>
	a) The costs seem too high	<input type="checkbox"/>	<input type="checkbox"/>
	b) There is a lack of relevant expertise in the enterprise	<input type="checkbox"/>	<input type="checkbox"/>
	c) Incompatibility with existing equipment, software or systems	<input type="checkbox"/>	<input type="checkbox"/>
	d) Difficulties with availability or quality of the necessary data	<input type="checkbox"/>	<input type="checkbox"/>
	e) Concerns regarding violation of data protection and privacy	<input type="checkbox"/>	<input type="checkbox"/>
	f) Lack of clarity about the legal consequences (e.g. liability in case of damage caused by the use of Artificial Intelligence)	<input type="checkbox"/>	<input type="checkbox"/>
	g) Ethical considerations	<input type="checkbox"/>	<input type="checkbox"/>
	h) Artificial Intelligence technologies are not useful for the enterprise	<input type="checkbox"/>	<input type="checkbox"/>

**Module X: COVID-19 impact**

<b>X1.</b>	During 2020, did your enterprise:	Yes	No	Not applicable
	a) increase the percentage of persons employed having remote access to the e-mail system of the enterprise?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b) increase the percentage of persons employed having remote access the ICT systems of the enterprise other than e-mail?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c) increase the number of remote meetings conducted by the enterprise (e.g. via Skype, Zoom, MS Teams, Meet, etc.)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



<b>X2.</b>	To what degree were these changes due to the COVID-19 pandemic?	<b>Fully</b>	<b>Partly</b>	<b>Not at all</b>
	<i>If X1a) = 'Yes':</i> a) in the remote access to the e-mail system of the enterprise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>If X1b) = 'Yes':</i> b) in the remote access the ICT systems of the enterprise other than e-mail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>If X1c) = 'Yes':</i> c) in the number of remote meetings conducted by the enterprise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>X3.</b>	During 2020, due to the Covid-19 pandemic did your enterprise start or increased efforts to sell goods or services via internet ( <i>via website or apps, marketplaces or EDI-type messages</i> )		<b>Yes</b> <input type="checkbox"/>	<b>No</b> <input type="checkbox"/>

**Thank you for your cooperation!**