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STATISTICAL SERVICE
1444 NICOSIA

STRICTLY CONFIDENTIAL

SURVEY ON ICT USAGE AND E-COMMERCE IN ENTERPRISES 2014

	FOR OFFICIAL USE ONLY	
	S/N	
	Legal Status	
	Enterprise Size	
	NACE	

GENERAL INFORMATION:

1. The aim of the survey is to collect data about the use of information and communication technologies by the enterprises, the use of Internet, the e-commerce, the use of cloud computing services, the automatic share of information within and outside the enterprise, the sharing of supply chain management information electronically, the electronic invoicing and the use of radio frequency identification technologies. These data are necessary for the implementation of policy programmes of both the Goverment and the Private Sector.

2. All requested information must be supplied by the **IT manager of the enterprise**. Regarding the enterprise's background information (Module X), these should be provided by the General Manager or by the Accountant or by any other person responsible.

3. An authorised employee of the Statistical Service will contact the IT manager of the enterprise by phone in order to arrange a visit for the completion of the questionnaire.

4. Definitions of the terms used in the questionnaire can be found in the glossary attached.

5. The reference period for the data is the survey period (2014), unless the question refers to other specific period.

6. The collection of data is carried out in accordance with the Statistics Law 15(I)/2000. The Statistical Service is bound by the Statistics Law to treat all information obtained as **STRICTLY CONFIDENTIAL.** Your responses will be used solely for statistical purposes.

G. Chr. Georgiou
Director
Statistical Service

January, 2014

MODULE A: Use of Computers

A1. Does your enterprise use computers?

Computers include Personal Computers, portable computers (e.g. laptops, notebooks, netbooks), tablets, other portable devices like Smartphones.

Yes	No
☐	☐ → Go to X1

A2. Please answer (a) or (b):

a) How many persons employed use computers for business purposes?

or

b) Indicate an estimate of the percentage of the total number of persons employed who use computers for business purposes.

☐☐☐☐	
☐☐☐	%

MODULE B: ICT specialists and skills

(Scope: enterprises with computers)

B1. Does your enterprise employ ICT specialists?

ICT specialists are employees for whom ICT is the main job. For example, to develop, operate or maintain ICT systems or applications.

Yes	No
☐	☐

B2. Did your enterprise provide any type of training to develop ICT related skills of the persons employed, during 2013?

	Yes	No
a) Training for ICT specialists Tick No if your enterprise didn't employ ICT specialists during 2013	☐	☐
b) Training for other persons employed	☐	☐

B3. Did your enterprise recruit or try to recruit ICT specialists, during 2013?

Yes	No
☐	☐ → Go to C1

B4. During 2013, did your enterprise have vacancies for ICT specialists that were difficult to fill?

Yes	No
☐	☐

MODULE C: Access and use of the Internet

(Scope: enterprises with computers)

		Yes	No
C1.	**Does your enterprise have access to the Internet[(1)]?**	☐	☐ → Go to E1

C2. **Please answer (a) or (b):**

a) **How many persons employed use computers with access to the Internet for business purposes?**

or

b) **Indicate an estimate of the percentage of the total number of persons employed who use computers with access to the Internet for business purposes.**

Computers include Personal Computers, portable computers (e.g. laptops, notebooks, netbooks), tablets, other portable devices like Smartphones.

☐☐☐☐

☐☐☐ %

Use of a fixed broadband connection to the Internet for business purposes

		Yes	No
C3.	**Does your enterprise use DSL[(2)] or any other type of fixed broadband connection to the Internet?** (e.g. ADSL, SDSL, VDSL, fiber optics technology (FTTH), cable technology (CableNet), satellite (Nova) etc.)	☐	☐ → Go to C5

C4. **What is the maximum contracted download speed of the fastest fixed Internet connection of your enterprise?**

a) Less than 2 Mbit/s	☐
b) At least 2 Mbit/s but less than 10 Mbit/s	☐
c) At least 10 Mbit/s but less than 30 Mbit/s	☐
d) At least 30 Mbit/s but less than 100 Mbit/s	☐
e) At least 100 Mbit/s	☐

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.

C5. **Does your enterprise use any of the following types of <u>mobile connection</u> (via mobile telephone networks) to the Internet?**

	Yes	No
a) **Mobile broadband connection[(3)]** via a portable device using mobile telephone networks (so called 3G or 4G)[(4)] e.g. via portable computers or other portable devices like Smartphones	☐	☐
a1) via **portable computer** (e.g. notebook, netbook, laptop, tablet, etc.)	☐	☐
a2) via **other portable devices** (e.g. Smartphones)	☐	☐
b) Other **mobile** connection using e.g. GSM[(5)], GPRS[(6)], EDGE[(7)]	☐	☐

C6. Please answer (a) or (b):

a) 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. portable computers, tablets or other portable devices like Smartphones)

or

b) Indicate an estimate of the percentage of the total number of persons employed who use a portable device provided by the enterprise, that allows Internet connection via mobile telephone networks, for business purposes?

	%

Use of a Website

C7. Does your enterprise have a Website[8]?

Yes	No
☐	☐ → Go to C9

If yes, give the address of your website:

……

C8. Does the Website of your enterprise have any of the following?

	Yes	No
a) Description of goods or services, price lists	☐	☐
b) Online ordering or reservation or booking (e.g. shopping cart)	☐	☐
c) Possibility for visitors to customise or design online goods or services	☐	☐
d) Tracking or status of orders placed	☐	☐
e) Personalised content in the website for regular / repeated visitors	☐	☐
f) Links or references to the enterprise's social media[9] profiles	☐	☐
g) A privacy policy statement, a privacy seal or a website safety certificate	☐	☐
h) Advertisement of open job positions or online job application	☐	☐
i) Electronic submission of complaints (i.e. via e-mail[10], web form[11], etc.)	☐	☐

Use of Social Media[9]

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

C9. Does your enterprise use any of the following social media? (not solely used for paid adverts)

	Yes	No
a) Social networks (e.g. Facebook, Linkedin, Xing, Viadeo, Yammer, etc.)	☐	☐
b) Enterprise's blog or microblogs (e.g. Twitter, Present.ly, etc.)	☐	☐
c) Multimedia content sharing websites (e.g. Youtube, Flickr, Picasa, SlideShare, etc.)	☐	☐
d) Wiki based knowledge sharing tools	☐	☐

Other use of the Internet

C10. Do any persons employed have remote access to the enterprise's e-mail[10] system, documents or applications?

Yes	No
☐	☐

C11. Does your enterprise pay to advertise on the Internet?
(e.g. adverts on search engines, on social media, on other websites, etc.)

Yes	No
☐	☐

MODULE D: Use of cloud computing services

(Scope: enterprises with access to the Internet)

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)

		Yes	No
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)	☐	☐ → Go to D6

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 (e.g. Email Enterprise, Microsoft Exchange Online / Office 365, etc.) (as a cloud computing service)	☐	☐
	b) Office software[12] (e.g. word processors, spreadsheets (e.g. Microsoft Office Cloud), etc.)) (as a cloud computing service)	☐	☐
	c) Hosting the enterprise's database(s) (e.g. Enterpise DB, LongJump, Elustra, etc.) (as a cloud computing service)	☐	☐
	d) Storage of files (e.g. Dropbox, Amazon S3, EMC Mozy, Acronis Online, Diino, etc.) (as a cloud computing service)	☐	☐
	e) Finance or accounting software applications (e.g. StepStone, Hubwoo, SAP Business By Design, etc.) (as a cloud computing service)	☐	☐
	f) Customer Relationship Management (CRM[13], software application for managing information about customers (e.g. Salesforce.com, Oracle CRM on Demand, etc.)) (as a cloud computing service)	☐	☐
	g) Computing power to run the enterprise's own software (e.g. Amazon EC2, Flexiscale, Joyent, etc.) (as a cloud computing service)	☐	☐

D3.	**Does your enterprise buy any cloud computing services delivered from:** (Please refer to the definition of cloud computing above, exclude free of charge services)	**Yes**	**No**
	a) **Shared servers** of service providers	☐	☐
	b) **Servers** of service providers **exclusively reserved for your enterprise**	☐	☐

D4.	Do any of the following factors limit your enterprise from using cloud computing services? (Please refer to the definition of cloud computing above, exclude free of charge services)	Yes	No
	a) Risk of a security breach	☐	☐
	b) Problems accessing data[14] or software	☐	☐
	c) Difficulties in unsubscribing or changing service provider (including concerns with data portability)	☐	☐
	d) Uncertainty about the location of the data	☐	☐
	e) Uncertainty about applicable law, jurisdiction, dispute resolution mechanism	☐	☐
	f) High cost of buying cloud computing services	☐	☐
	g) Insufficient knowledge of cloud computing	☐	☐

D5.	To what degree were any of the following benefits realised from using cloud computing services? (Please refer to the definition of cloud computing above, exclude free of charge services)	To a high degree	To some degree	To a limited degree	Not at all
	a) Reduction of ICT related costs	☐	☐	☐	☐
	b) Flexibility due to scaling cloud computing services up or down	☐	☐	☐	☐
	c) Easy and quick deployment of solutions based on cloud computing	☐	☐	☐	☐

Go to ----> E1

D6.	Do any of the following factors prevent your enterprise from using cloud computing services? (Please refer to the definition of cloud computing above, exclude free of charge services) *(To be answered only if D1 is "No")*	Yes	No
	a) Risk of a security breach	☐	☐
	b) Uncertainty about the location of the data	☐	☐
	c) Uncertainty about applicable law, jurisdiction, dispute resolution mechanism	☐	☐
	d) High cost of buying cloud computing services	☐	☐
	e) Insufficient knowledge of cloud computing	☐	☐

MODULE E: Sharing of information electronically within the enterprise

(Scope: enterprises with Computers)

An ERP[15] (Enterprise Resource Planning) is a software package used to manage resources by sharing information among different functional areas (e.g. accounting, planning, production, marketing, etc.)

E1.	Does your enterprise use an ERP software package?	Yes	No
		☐	☐

CRM[13] (Customer Relationship Management) refers to any software application for managing information about customers

E2.	Does your enterprise use CRM software to manage:	Yes	No
	a) The collection, storing and making available information about customers to various business functions	☐	☐
	b) The analysis of information about customers for marketing purposes (e.g. setting prices, sales promotion, choosing distribution channels, etc.)	☐	☐

MODULE F: Use of EDI-type messages suitable for automated processing

(Scope: enterprises with Computers)

Electronic transmission of data suitable for automated processing - often called **Electronic Data Interchange (EDI)** - means:
- **sending and/or receiving of messages** (e.g. payment transactions, tax declarations, orders, etc.)
- in an **agreed or standard format** suitable for **automated processing**,
e.g. EDI[16], EDIFACT, ODETTE[17], TRADACOMS, XML[18], xCBL[19], cXML, ebXML
- **without the individual message[20] being typed manually**

F1. Does your enterprise send or receive EDI-type messages suitable for automated processing, for:	Yes	No
a) Payment instructions to financial institutions	☐	☐
b) Data to/from public authorities (e.g. tax returns, statistical data, import or export declarations)	☐	☐

MODULE G: Sharing Supply Chain Management Information electronically

(Scope: enterprises with Computers)

Sharing information electronically on Supply Chain Management means exchanging all types of information[21] with suppliers and/or customers about the availability, production, development and distribution of goods or services.
This information may be exchanged via websites, networks or other means of electronic data transfer, but it excludes manually typed e-mail messages.

G1. Does your enterprise share supply chain management information electronically with its suppliers or customers? (e.g. information on inventory levels, production plans, planning or progress in the provision of services, demand forecasts or progress of deliveries, etc.)	Yes	No
	☐	☐ → Go to H1

G2. How does your enterprise share supply chain management information electronically?	Yes	No
a) Via websites (yours, those of your business partners) or web portals	☐	☐
b) Via electronic transmission suitable for automated processing (e.g. EDI-type systems, XML, EDIFACT, etc.)	☐	☐

MODULE H: Use of Radio Frequency Identification (RFID) technologies

(Scope: enterprises with Computers)

Radio Frequency identification technologies[22] (RFID) means:
- an automated identification method to store and remotely retrieve data using RFID tags or transponders.
An RFID tag is a device that can be applied to or incorporated into a product or an object and transmits data via radiowaves.

H1. Does your enterprise make use of Radio Frequency Identification instruments for the following purposes?	Yes	No
a) Person identification or access control	☐	☐
b) As part of the production and service delivery process (e.g. monitoring and control of industrial production, supply chain and inventory tracking; service, maintenance or asset management, etc.)	☐	☐
c) For product identification after the production process (e.g. theft control, counterfeiting[23], allergen information, etc.)	☐	☐

MODULE I: Electronic invoicing

(Scope: enterprises with Computers)

There are invoices in **paper form** and **electronic form**. Invoices in **electronic form** are of two types:

- **eInvoices**[(24)] in a standard structure **suitable for automated processing**.
(e.g. EDI, UBL[(25)], XML). They are exchanged either directly or via service operators or via an electronic banking system.
- **Invoices** in electronic form **not suitable for automated processing**.
(e.g. e-mails, e-mail attachment as pdf, images in TIF, JPEG or other format)

I1.	**Did your enterprise <u>send</u> invoices to other enterprises or public authorities during 2013?**	**Yes** ☐	**No** ☐ → Go to I3

I2. Of all invoices the enterprise <u>sent</u> to other enterprises or public authorities during 2013, what percentage <u>was sent</u> as:

a)	eInvoices in a standard structure suitable for automated processing (e.g. EDI, UBL, XML)	___ %
b)	Invoices in electronic form not suitable for automated processing (e.g. emails, e-mail attachment as pdf, images in TIF, JPEG or other format)	___ %
c)	Invoices only in paper form	___ %
	TOTAL	1 0 0 %

I3. Of all invoices the enterprise <u>received</u> during 2013, what percentage <u>was received</u> as:

a)	eInvoices in a standard structure suitable for automated processing (e.g. EDI, UBL, XML)	___ %
b)	Invoices in paper form or in electronic form not suitable for automated processing (e.g. emails, e-mail attachment as pdf, images in TIF, JPEG or other format)	___ %
	TOTAL	1 0 0 %

Module J: e-Commerce

(Scope: enterprises with Computers)

e-Commerce[26] is the sale or purchase of goods or services conducted over computer networks by methods specifically designed for the purpose of receiving or placing of orders. The payment and the delivery of the goods or services do not have to be conducted online.

e-Commerce transactions **exclude** orders made by manually typed e-mail messages.

e-Commerce Sales

Web sales[27]

Web sales are sales made via an online store (web shop) or via web forms [11] on a website or extranet[28].

J1.	**During 2013, did your enterprise <u>receive</u> orders for goods or services placed via a website?** (excluding manually typed e-mails)	**Yes** ☐	**No** ☐ → Go to J5
J2.	**Please state for 2013 (answer (a) or (b)):**		
	a) The value of the turnover resulting from orders <u>received</u> that were placed via a website (in monetary terms, excluding VAT)	€	
	If you can't provide this value,		
	b) Indicate an estimate of the percentage of the total turnover resulting from orders <u>received</u> that were placed via a website	%	

J3. Please provide a percentage breakdown of the turnover from orders <u>received</u> that were placed via a website in 2013 by type of customer (in monetary terms, excluding VAT)

a) **B2C** (Sales to private consumers)	%
b) **B2B** (Sales to other enterprises) **and B2G** (Sales to public authorities)	%
c) **TOTAL**	100 %

J4. Which of the following means of payment are accepted for sales via a website?

	Yes	**No**
a) Online payment[29], i.e. payment integrated in the ordering transaction (e.g. credit, debit card, direct debit authorisation, via 3rd party accounts (e.g. JCC))	☐	☐
b) Offline payment, i.e. payment process is not included in the ordering transaction (e.g. cash on delivery, bank transfer, cheque payment, other not online payment)	☐	☐

EDI-type sales

EDI-type sales[(30)] are sales made via EDI-type messages (EDI: Electronic Data interchange) meaning:
- in an agreed or standard format suitable for automated processing (e.g. EDIFACT, UBL, XML)
- without the individual messages being typed manually

J5.	**During 2013, did your enterprise <u>receive</u> orders for goods or services placed via EDI-type messages?**	**Yes** ☐	**No** ☐ → Go to J7
J6.	**Please state for 2013 (answer (a) or (b)):** **a) The value of the turnover resulting from orders <u>received</u> that were placed via EDI-type messages (in monetary terms, excluding VAT)** If you can't provide this value, **b) Indicate an estimate of the percentage of the total turnover resulting from orders <u>received</u> that were placed via EDI-type messages**	€ ☐☐☐☐☐☐☐☐ ☐☐☐ %	

e-Commerce purchases

e-Commerce purchases are purchases made via any of the following ways:

- via an online store (web shop) or via web forms on a website or an extranet of another enterprise,

or

- via EDI-type messages (EDI: Electronic Data Interchange) which means messages in an agreed or standard format suitable for automated processing (e.g. EDIFACT, UBL, XML etc.) without the individual messages being typed manually.

- Purchases of goods or services include the value of all goods and services purchased during the accounting period for resale or consumption in the production process, <u>excluding</u> capital goods the consumption of which is registered as consumption of fixed capital.

J7.	**During 2013, did your enterprise <u>place</u> orders for goods or services via a website or EDI-type messages?** (excluding manually typed e-mails)	**Yes** ☐	**No** ☐ → Go to X1
J8.	**During 2013, did your enterprise <u>place</u> orders for goods or services via a <u>website</u>?**	**Yes** ☐	**No** ☐
J9.	**During 2013, did your enterprise <u>place</u> orders for goods or services via <u>EDI-type messages</u>?**	**Yes** ☐	**No** ☐
J10.	**During 2013, was the value of the orders that your enterprise placed electronically <u>equal or more than 1%</u> of the total purchases' value? (in monetary terms, excluding VAT)**	**Yes** ☐	**No** ☐

	MODULE X: Background information	
X1.	Main economic activity of the enterprise, during 2013 (description)	………………………...…………… ………………………...…………… ………………………...…………… ………………………...……………
X2.	Average number of persons employed, during 2013	|___|___|___|___|
X3.	Total turnover (in value terms, excluding VAT), for 2013	€ |__|__|__|__|__|__|__|__|__|

	MODULE K: General Information
K1.	If you have any comments about the survey, please write down below:
	- -
K2.	Name of the person who answered the questionnaire:
	Position in the enterprise:
	Telephone:
	Fax:
	E-mail:
K3.	Name of the person who completed the questionnaire:
	Time needed to fill out this questionnaire:
	Signature:
	Date:

Submit by email

TO BE COMPLETED BY THE ENUMERATOR:

K4.	**Completion of the questionnaire:**
	a) The questionnaire is completed……………………………………………………..…… 1
	b) The enterprise has closed…………..…………....……………………..…………………… 2
	c) The enterprise can not be located………………………….…………………………… 3
	d) The enterprise refuses to cooperate……………………………...…………………... 4
	e) The enterprise was closed during the collection of the data…………………..…………… 5
	f) Merged with another enterprise……………………………………………..…...……… 6
	g) Other reasons for no completion ………………………………………………………… 7
	Please specify:
	_ _
	_ _
	_ _

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K5.	**Name of the person who checked the questionnaire:**

GLOSSARY

(1) **Internet**	The Internet is a global system of interconnected computer networks that use the standard Internet Protocol Suite (TCP/IP) to serve billions of users worldwide. It is a network of networks that consists of millions of private, public, academic, business, and government networks of local to global scope that are linked by a broad array of electronic and optical networking technologies. The Internet carries a vast array of information resources and services, most notably the inter-linked hypertext documents of the World Wide Web (WWW) and the infrastructure to support electronic mail. Source: http://en.wikipedia.org/wiki/Internet Relates to Internet Protocol based networks: www, Extranet over the Internet, EDI over the Internet, Internet-enabled mobile phones.
(2) **DSL**	Digital Subscriber Line (DSL) is a family of technologies that provides digital data transmission over the wires of a local telephone network. DSL is widely understood to mean Asymmetric Digital Subscriber Line (ADSL), the most commonly installed technical varieties of DSL. DSL service is delivered simultaneously with regular telephone on the same telephone line as it uses a higher frequency band that is separated by filtering. Source: http://en.wikipedia.org/wiki/DSL
xDSL	Digital Subscriber Line. DSL technologies are designed to increase bandwidth available over standard copper telephone wires. Includes IDSL, HDSL, SDSL, ADSL, RADSL, VDSL, DSL-Lite.
(3) **Mobile Broadband**	Mobile broadband (Mobile connection to the Internet over telephone networks) is the name used to describe various types of wireless high-speed Internet access through a portable modem, telephone or other device. (viz. 3G) Source: http://en.wikipedia.org/wiki/Mobile_broadband
(4) **3G, 3rd Generation** **4G, 4th Generation**	3G or 3rd Generation, is a family of standards for mobile telecommunications (W-CDMA, CDMA2000, etc) defined by the International Telecommunication Union (ITU). 3G devices allow simultaneous use of speech and data services and higher data transmission rates. Cellular mobile services were initially offered using analogue radio technologies and these were considered as the first generation systems (1G). 2G technology replaced analogue radio networks with digital ones (2G networks) in the 1990's. 4G is the fourth generation of cellular wireless standards. It is a successor of the 3G and 2G families of standards. The ITU-R organization specified the International Mobile Telecommunications Advanced requirements for 4G standards, setting peak speed requirements for 4G service at 100 Mbit/s for high mobility communication (such as from trains and cars) and 1 Gbit/s for low mobility communication (such as pedestrians and stationary users). Source: http://en.wikipedia.org/wiki/; http://www.itu.int
(5) **GSM**	Global System for Mobile Communications. GSM is a digital cellular technology used for transmitting mobile voice and data services. It is the most popular standard for mobile telephone systems in the world. GSM differs from its predecessor technologies in that both signalling and speech channels are digital, and thus GSM is considered a second generation (2G) mobile phone system. Source: http://en.wikipedia.org/wiki/GSM

(6) GPRS

General Packet Radio Service is a very widely deployed wireless data service, available with most GSM networks. GPRS offers throughput rates of up to 40 kbit/s, so that users have a similar access speed to a dial-up modem, but with the convenience of being able to connect from almost anywhere.
Source: http://www.gsmworld.com/technology/gprs.htm

(7) EDGE

Enhanced Data rates for GSM technology represent further enhancements to GSM networks providing up to three times the data capacity of GPRS. EDGE networks rely on Time Division Multiple Access transmission (TDMA) and General Packet Radio Service (GPRS).
Source: http://gsmworld.com/technology/edge.htm

(8) Website

Location on the World Wide Web identified by a Web address. Collection of Web files on a particular subject that includes a beginning file called a home page. Information is encoded with specific languages (Hypertext mark-up language (HTML), XML, Java) readable with a Web browser, like Netscape's Navigator or Microsoft's Internet Explorer.

(9) Social Media

In the context of the ICT usage survey, the central point of the social media is to establish and maintain social relationships within and around the enterprise. From that aspect we refer to the use of social media (as applications based on Internet technology or communication platforms) and the use of Web 2.0 technologies and tools for connecting, conversing and creating content online, with customers, suppliers, or other partners, or within the enterprise. It is not simply the use of Web 2.0 platform (although it is the enabling technology) but the use of social media implies the development of new forms of collaboration and information management within the enterprises as well as helping employees, customers and suppliers to collaborate, to innovate, to share, and to organize knowledge and experiences.

The following are the main social media communication platforms and tools for enterprises:

Social networks or websites are applications based on Internet technologies that enable users to connect by creating personal information profiles, share interest and/or activities, share ideas, invite others to have access to their profile and create communities of people with common interests.

Blogs: A blog is a website or a part of a website, that is updated frequently, either owned by individuals, interest groups of individuals or corporate (in the current context it is the blog of the enterprise and not other blogs to which employees contribute). An update (called an entry or a post) is usually quite short and readers can respond, share, comment or link to the entry online. Blogs can be used either within an enterprise (corporate blog) or for communicating with customers, business partners or other organisations.

Content communities offer the possibility of sharing media content between users. Photo and video services / Podcasting: A podcast (or non-streamed webcast) is a series of digital media files (either audio or video in various file format e.g. .aiff, .wav, .midi etc for the former and .mov, .avi etc for the latter) that are released episodically. The mode of delivery differentiates podcasting from other means of accessing media files over the Internet, such as direct download, or streamed webcasting. Presentation sharing websites offer the possibility to share presentations, documents and professional videos over the Internet (share publicly or privately among colleagues, clients, intranets, networks etc). These websites offer the possibility to upload, update and access presentations and/or documents. Very often, presentation sharing websites are linked to blogs and other social networking services or websites.

Microblogging refers to the posting of very short updates about oneself. It is in contrast to long-form blogging, where there are usually at least a few hundred words. Microblog posts usually involve a few hundred characters or less. For example, in the context of microblogging services Tweets (Twitter) are text-based posts of up to 140 characters displayed on the user's profile page.
Wiki: A wiki is a website that allows the creation and editing of any number of interlinked web pages via a web browser using a simplified markup language or a WYSIWYG text editor. Wikis are typically powered by wiki software and are often used collaboratively by multiple users. Examples include community websites, corporate intranets, and knowledge management systems.

(10) **E-mail**	Electronic transmission of messages, including text and attachments, from one computer to another located within or outside of the organisation. This includes electronic mail by Internet or other computer networks.
(11) **Web form**	A webform on a web page allows a user to enter data that is sent to a server for processing. Webforms resemble paper forms because Internet users fill out the forms using checkboxes, radio buttons, or text fields. For example, webforms can be used to enter shipping or credit card data to order a product or can be used to retrieve data. Source: http://en.wikipedia.org/wiki/Webform
(12) **Office (automation) software**	Office (automation) software is a generic type of software comprising (grouped together) usually a word processing package, a spreadsheet, presentations' software etc.
(13) **CRM**	Customer Relationship Management (CRM) is a management methodology which places the customer at the centre of the business activity, based in an intensive use of information technologies to collect, integrate, process and analyse information related to the customers. One can distinguish between: 1. Operational CRM – Integration of the front office business processes that are in contact with the customer. 2. Analytical CRM – Analysis, through data mining, of the information available in the enterprise on its customers. This aims to gather in depth knowledge of the customer and how to answer to its needs.
(14) **Data**	Representation of facts, concepts, or instructions in a formalized manner suitable for communication, interpretation, or processing by humans or by automated means. Any representations such as characters or analogue quantities to which meaning is or might be assigned. Source: http://www.its.bldrdoc.gov/projects/devglossary/_data.html
(15) **ERP**	Enterprise Resource Planning (ERP) consists of one or of a set of software applications that integrate information and processes across the several business functions of the enterprise. Typically ERP integrates planning, procurement, sales, marketing, customer relationship, finance and human resources. ERP software can be customised or package software. These latter are single-vendor, enterprise wide, software packages, but they are built in a modular way allowing enterprises to customise the system to their specific activity implementing only some of

ERP systems typically have the following characteristics:

1. are designed for client server environment (traditional or web-based);
2. integrate the majority of a business's processes;
3. process a large majority of an organization's transactions;
4. use enterprise-wide database that stores each piece of data only once;
5. allow access to the data in real time.

(16) EDI, EDI-type

Electronic Data Interchange (EDI) refers to the structured transmission of data or documents between organizations or enterprises by electronic means. It also refers specifically to a family of standards (EDI-type) and EDI-type messages suitable for automated processing.
Source: http://en.wikipedia.org/wiki/Electronic_Data_Interchange

(17) ODETTE

Odette International is an organisation, formed by the automotive industry for the automotive industry. It sets the standards for e-business communications, engineering data exchange and logistics management, which link the 4000 plus businesses in the European motor industry and their global trading partners.
Source: http://www.odette.org/html/home.htm

(18) XML

The Extensible Markup Language is a markup language for documents containing structured information. Structured information contains both content (words, pictures, etc.) and some indication of what role that content plays (for example, content in a section heading has a different meaning from content in a footnote, which means something different than content in a figure caption or content in a database table, etc.). Almost all documents have some structure. A markup language is a mechanism to identify structures in a document. The XML specification defines a standard way to add markup to documents.
Source: http://www.xml.com/

(19) xCBL

XML Common Business Library (xCBL) is the pre-eminent XML component library for business-to-business e-Commerce.
Source: http://www.xcbl.org/

(20) Message

Any thought or idea expressed briefly in a plain or secret language, prepared in a form suitable for transmission by any means of communication.
Source: http://www.its.bldrdoc.gov/projects/devglossary/_message.html

(21) Information

1) Facts, data, or instructions in any medium or form.

2) The meaning that a human assigns to data by means of the known conventions used in their representation.
(Source: http://www.its.bldrdoc.gov/projects/devglossary/_information.html)

(22) RFID

Radio-frequency identification (RFID) is an automated identification method, relying on storing and remotely retrieving data using devices called RFID tags or transponders.
An RFID tag is an object that can be applied to or incorporated into a product for the purpose of identification using radiowaves. Some tags can be read from several meters away and beyond the line of sight of the reader.

[23]	**Counterfeiting**	A counterfeit is an imitation, usually one that is made with the intent of fraudulently passing it off as genuine. Counterfeit products are often produced with the intent to take advantage of the established worth of the imitated product. The word counterfeit frequently describes both the forgeries of currency and documents, as well as the imitations of products or goods (e.g. clothing, software, pharmaceuticals, jeans, watches, electronics, etc.). Source: http://en.wikipedia.org/wiki/Counterfeiting
[24]	**e-Invoice**	E-invoicing, comprises payment information exchanged between the parties – enterprises, public authorities - involved in commercial transactions, transmitted via the Internet or other electronic means. A structured e-invoice is an invoice where all data are in digital format and that can be processed automatically. A distinctive feature of a structured e-invoice is automation: a structured e-invoice will be transferred automatically in inter-company invoicing from the invoice issuer's or service provider's system directly into the recipient's financial or other application. The e-invoice data could be structured according to the XML, EDI or other similar format.
[25]	**UBL**	Universal Business Language (UBL) is a library of standard electronic XML business documents such as purchase orders and invoices. UBL was developed by an OASIS Technical Committee with participation from a variety of industry data standards organizations. UBL is designed to plug directly into existing business, legal, auditing, and records management practices. It is designed to eliminate the re-keying of data in existing fax- and paper-based business correspondence and provide an entry point into electronic commerce for small and medium-sized businesses. Source: http://en.wikipedia.org/wiki/Universal_Business_Language
[26]	**Electronic commerce (e-Commerce)**	An e-Commerce transaction is the sale or purchase of goods or services, conducted over computer networks by methods specifically designed for the purpose of receiving or placing of orders. The goods or services are ordered by those methods, but the payment and the ultimate delivery of the goods or services do not have to be conducted online. An e-Commerce transaction can be between enterprises, households, individuals, governments, and other public or private organisations. E-Commerce comprises orders made in Web pages, extranet or EDI and excludes orders made by telephone calls, facsimile, or manually typed e-mail. The type is defined by the method of making the order. Source: OECD, DSTI/ICCP/IIS(2009)5/FINAL
[27]	**Sales via website (web sales)**	A part of the e-Commerce activities, sales via website (web application) are orders made in an online store or filled in and sent by an electronic form on the www or extranet. Web sales are distinguished from EDI sales. In particular, the type of e-Commerce transaction is defined by the method of making the order. This approach should mitigate the interpretation problems where both types, EDI and Web, are used in the process. An example is a situation where an order is made by the customer through a web application but the information is transmitted to the seller as an EDI-message. Here the type of selling application is however web; EDI is only a business application to transmit information about the sale. Web sales can be done by mobile phones using an Internet-browser. Source: OECD, DSTI/ICCP/IIS(2009)5/FINAL

[28] **Extranet**	A closed network that uses Internet protocols to securely share enterprise's information with suppliers, vendors, customers or other businesses partners. It can take the form of a secure extension of an Intranet that allows external users to access some parts of the enterprise's Intranet. It can also be a private part of the enterprise's website, where business partners can navigate after being authenticated in a login page.
[*] **Intranet**	An internal company communications network using Internet protocol allowing communications within an organisation.
[29] **Online payment**	An online payment is an integrated ordering-payment transaction
[30] **EDI e-Commerce**	Orders initiated with EDI. EDI (electronic data interchange) is an e-business tool for exchanging different kinds of business messages. EDI is here used as a generic term for sending or receiving business information in an agreed format suitable for automated processing (e.g. EDIFACT, XML, etc.) and without the individual message being manually typed. "EDI e-Commerce" is limited to EDI messages placing an order. Source: OECD, DSTI/ICCP/IIS(2009)5/FINAL