









## **EU Twinning Project**

## Forwarding Armenian Statistics through Twinning

AM09/ENP-PCA/TP/04

## **MISSION REPORT**

on

## **ICT SOCIETY STATISTICS**

Activity F4.1: Analysis and data processing

Mission carried out by Martin Lundø, Statistics Denmark

Armenia 7-11 May 2012

#### Final version

EN. TA	STATISTICS DENMARK
National Statistical Service Republic of Armenia	Statistics Denmark

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## **List of Abbreviations**

BC**Beneficiary Country** 

Member State MS

Member State Experts **MSE** 

National Statistical Services of the Republic of Armenia Resident Twinning Advisor NSSRA

RTA

ToR Terms of Reference

#### 1. Executive Summary

NSSRA has performed a pilot survey of ICT usage in a randomly stratified sample of 100 enterprises, and 17 Armenian Ministries (only Ministry of Defence did not take part). The surveys were conducted via self-administered questionnaires.

The enterprise questionnaire follows EU standards. The institutions' questionnaire was made as a subset of the enterprise questionnaire with some additions.

Response rate was 100% in both groups. Data was captured and tabulated in MS Access database. 15-20 enterprises were re-contacted, which provided feedback on the contents.

MSE have received comprehensive data material from NSSRA in the form of anonymized xls datasets, suggested output tables for public dissemination and detailed tables of all variables for the enterprise survey.

The enterprise results should only be used for methodological analysis, due to big random variance. The institution part of the survey, on the other hand, consists of a close to total count of ministries use of ICT and may be used for statistical purposes for a broader group of users than the project stakeholders.

During the mission the following was agreed upon:

- The Pilot Study Report and a draft strategy of an ICT usage survey should be the final result of the component F as input to a future strategy.
- A roadmap for the ICT statistics component.

Steps before next mission: NSSRA will produce a draft Pilot Study Report (before 20 July 2012) and a preliminary analysis of possibilities for regionally distributed statistics (before F4.2, September).

#### 2. General comments

This main part of the mission report was prepared by the MS Expert during the mission to NSSRA. The MS Experts would like to thank the individuals met during the mission much for providing valuable information about the current and future situation and for their kind support during the stay.

The overall purpose and mandatory result for component F, Information Society is firstly to roll out and publish results from a survey on ICT usage by enterprises and institutions before the Twinning project ends, and secondly to train NSSRA staff on issues related to statistics for the information society.

The planned activities and the expected output of the activity were achieved - cf. the ToR (Annex 1) and the programme (Annex 2).

The views and observations stated in this report are those of the MS Expert's and do not necessarily correspond to the views of Statistics Denmark.

#### 3. Assessment and results

#### 3.1 The enterprise survey

#### The questionnaire

The revised questionnaire follows EU standards. Necessary deviations in language and explanations are common in EU member states' national version of questionnaires in order to adjust for national conditions. Only minor deviations were necessary in the Armenian version. A change in the percentage categories of question b4 (download speed of the fastest internet connection) may have caused less comparability with EU results though.

The questionnaire is included in Annex 4.

#### **Sample**

100 enterprises were picked by a random, stratified sample in the business register. The strata used consisted of 4 industry groups (industry C D E, construction F, trade G, services H I J L N M 69-74 S 95.1) and 4 size classes (10-30, 31-50, 51-100 and 101 and more employees), all according to MSE recommendations.

#### **Data collection**

The data collection was performed via self-administered questionnaires (a change from the originally planned face-to-face interviews).

The questionnaire was handed out and collected by personal visit in February-March. Together with the questionnaire the respondents received glossary and contact information at NSSRA.

All 100 enterprises responded to the questionnaire, thus the response rate was 100%. No reminders were needed.

Only few enterprises – about 5 – contacted NSSRA for inquiries to the survey and questionnaire. About 15-20 enterprises were re-contacted due to item-non response or incoherent replies.

#### Data entry and tabulation

The questionnaires were typed directly into an Access database, which also were used for the data processing and tabulation. Microsoft Access is commonly used in NSSRA and can be scaled up for bigger surveys also.

Before the mission, the MS Expert received comprehensive and adequate results material in the form of

- Anonymized xls datasets
- Suggestions for output tables for public dissemination
- Detailed tables of all variables for the enterprise survey, broken down by industry, size-class and answer categories (incl. item non response).

#### 3.1 The institution survey

#### The questionnaire

The institutions' questionnaire was made as a subset of the enterprise questionnaire with specific questions added on e-government services, inspired by the Lithuanian e-government survey.

The questionnaire is included in Annex 5.

#### **Data collection**

The institutions survey was done in a similar way to the enterprise survey. Also the institutions responded by self-administered questionnaires incl. glossary and explanations, delivered and collected by visits. There was only limited need for re-contacting the institutions.

17 institutions participated which constitutes almost a 95% coverage of the ministerial departments of Armenia. The questionnaire was handed out and collected by visit in February-March.

#### Data entry and tabulation

Data was processed in a similar way to the enterprise pilot survey.

### 4. Conclusions and recommendations on the ICT usage survey

#### 4.1 Questionnaire

The enterprise questionnaire is in conformity with contents and structure of the EU model enterprise questionnaire (a subset of the 2011 version plus supplement from earlier versions of the model questionnaire).

For institutions a similar questionnaire has been applied with necessary changes and amendments with relevance to e-government (see survey questionnaires in Annex 5).

#### 4. 2 Data collection

The MS Expert assessment is that the originally planned face-to-face interviews might have provided more direct feedback from the respondents. However, the comprehensive re-contact with enterprises provided information about problematic questions seen from the enterprises' point of view. Also data collection by postal questionnaires is the most common way to collect data in the EU member states, thus providing an extra experience compared to the face-to-face interviews which are more common in Armenia.

#### 4.3 Pilot Study Report

The Pilot Study Report will be the final result of the component F together with a draft strategy of an ICT usage survey and should provide valuable input to a strategy for future ICT usage surveys.

The report should present the results from the pilot surveys including methodological experiences and considerations for a future survey.

The target group of the publication is supposed to be the stakeholders of the EU Twinning project.

The suggested structure of the Pilot Study Report (see Annex 10) was presented and accepted by NSSRA during the mission.

#### Use of results

It should be made explicitly clear in the publication that the enterprise results are only for methodological analysis because the small sample has too big random variance to be used as statistical results.

However, the institution part of the survey consists of a close to total count of ministries use of ICT. It can thus be investigated whether these results could have interest for a broader group of users than the project stakeholders.

During the mission an introduction was given to Statistics Denmark's publication on ICT usage in enterprises (structure, design, specific tables and charts).

#### **Suggested structure**

The MS Expert presented a suggestion for contents of the Pilot Study Report. The questions that report should aim to answer are suggested in the following (see also Annex 10 for complete structure of the report).

1. Background (1-2 pages?)

What is the background and purpose of the survey?

2. Methodology (3-4 pages?)

What was measured and how was the survey conducted?

3. Experiences from pilot studies (3-6 pages?)

What was the general experience and impressions from the pilots? What problems were encountered seen from the perspective of NSSRA as well from the respondents? Were the questions well understood by respondents? Which indicators were problematic to understand? Which data were difficult to procure and report for respondents?

4. Analysis of ICT usage in Armenia (4-8 pages?)

What conclusions could be made from the results? How can the pilot results be presented as inspiration for a full-scale survey? Could institutions' results be used directly as they are?

5. From pilot studies to regular surveys (1-2 pages?)

What elements need to be presented for stakeholders before deciding a strategy for future measurement? What steps need to be taken to perform a full-scale survey of enterprises or institutions? Who would be the main users? What could be the contents? How could data be disseminated?

#### 6. Annexes

*Necessary documentation of the pilots.* 

#### 4. 2 Strategy for future ICT usage surveys

The MS Expert recommends that the final result of component F will be a strategy for future ICT usage surveys. Possible elements will be presented for stakeholders in the Pilot Study Report. The stakeholders will have the possibility to comment on a joint workshop during the last mission F6, which will provide input for the strategy.

#### 5. Action before next activities

#### 5.1 Roadmap

The MS Expert presented a suggestion for an updated roadmap for the ICT Statistics component which were discussed during the mission and agreed by NSSRA.

The plan focuses on the two last missions and the actions that need to be taken by NSSRA before and between them:

F4.2 Optimization of sampling

F6. Review mission

The Pilot Study Report will be work in progress, and will be finalized before the review mission. The report should provide input for the discussion of a 3 years strategy for the development of the ICT surveys in Armenia.

An extra study visit in August 2012, under the Twinning project's component A will use the ICT usage survey as case on small area estimations. Activity F4.2 on the sampling will thus be able to benefit from the conclusions at the study visit.

#### 5.2 Overview of actions to be taken

- Until mid-July 2012: Focus on pilot study report
  - o in particular chapters on experiences from the pilot studies and the analysis.
- Incorporate possible comments from MS Experts in draft pilot study report (before F4.2, September)
- NSSRA preliminary analysis of possibilities for regionally distributed statistics (before F4.2, September)
  - Involve Methodological Division and Business Register Division and the experience from the extra study visit
  - Outline possible alternative sampling models
- Finish the Pilot Study Report in order to send out to stakeholders before 23 October
- Invitation to stakeholders for final workshop during F6 in November 2012.

#### 6. Annexes

### **Annex 1: Terms of Reference (F4.1); 7 – 11 May 2012**

Component A Quality Management

Component B Business Register, Structural Business Survey, and Respondent Burden

Component C Improvement of the Exhaustiveness of GDP

Component D Agricultural Census

Component E Harmonized Consumer Price Index

Component F ICT Society

#### **Mandatory results of the component:**

The mandatory results of component F is: "Enterprise and institution ICT pilot studies rolled out and fully executed; data published" ("pilot studies" replacing "surveys" from the contract text).

#### Activity F4.1 Analysis and data processing

#### 1. Purpose of activity

The purpose of the activity is to discuss best practices in terms of analysis, data processing and dissemination of ICT statistics, and thereby to prepare for the upcoming presentation and dissemination of the results from the pilot studies on ICT usage in Armenian enterprises and institutions.

#### 2. Expected output of the activity

The expected outputs of the activity are:

- Evaluation of the quality of the collected data material;
- o Evaluation of the database and the analytical and table-generating tools;
- Preliminary evaluation of the ICT usage questionnaires and interviewer instructions in a future full-scale survey perspective;
- O Discussion of dissemination strategy: how, what, and when to publish the results from the pilot studies, and of the external stakeholders role in this process;
- O Decision on what indicators to present in the first publication.

#### 3. Project Participants

Mr. Gagik Anayan, Member of State Council on Statistics (BC Component Leader;)

Ms. Anahit Harutyunyan, Head of Trade and Other Services Statistics Division;

Ms. Inga Baroyan, Main Specialist of Trade and Other Services Statistics Division;

Mr. Martin Lundø, Chief Adviser, Business Development Division, Statistics Denmark (MS Component Leader);

**Annex 2: Programme for the mission** 

Time	Place	Event	Purpose / detail
Monday, 7 May Morning	Congress Hotel	Meeting with RTA	To discuss the programme of the week
Afternoon	NSSRA	Meeting with BC Component Leader	Current status. BC Component Leader on developments and internal follow up since F3 (November 2011).
	NSSRA	Meeting with Trade and Other Services division	<ul> <li>Overview: data, database, analytical and table generating</li> <li>Interviewers reactions and feedback from enterprises</li> </ul>
Tuesday, 8 May Morning	NSSRA	Meeting with Trade and Other Services division	<ul> <li>Analysis of data and its processing</li> <li>Discussion of what indicators to publish</li> <li>Preliminary discussion of consequences for the data processing when changing for full scale survey (to be continued in F4.2)</li> </ul>
Afternoon	NSSRA	Meeting with Trade and Other Services division	Continuation of morning programme
	NSSRA	Meeting with BC Component Leader	Discussion of best practices related to dissemination of ICT statistics based on MS Expert's experience
Wednesday, 9 May	NSSRA	Meeting with RTA	<ul> <li>Analysis of data</li> <li>Preliminary recommendations regarding the questionnaire's use for future surveys</li> <li>Preparation of draft tables and supplementary text for publication</li> </ul>
Thursday, 10 May Morning	NSSRA	Meeting with Trade and Other Services division	Discussion based on MS Expert's preliminary recommendations regarding data processing and publishing
Afternoon	NSSRA	Meeting with BC Component Leader	<ul> <li>Presentation of results so far</li> <li>Discussion of publishing strategy and involvement of external stakeholders</li> </ul>
Friday, 11 May Morning	NSSRA	Ad-hoc meetings	Work on the mission report, and preparations for debriefing.
Afternoon	NSSRA	Debriefing with BC Project Leader	Conclusions and recommendations. Consequences for the next mission and implied work programme for BC Experts

#### **Annex 3: Persons met**

List of all the people met during the mission.

#### To be updated

Gagik Ananyan
Anahit Safyan, Division Head
Hasmik Egiazaryan, Leading specialist
Ruzanna Shaboyan, 1st category specialist
Anahit Harutyunyan, Division Head
Inga Baroyan, Main specialist
Arevik Saghumyan, Leading specialist
Gayane Vardanyan, 1st category specialist
Anahit Araqelyan,1st category specialist
Anna Antonyan, 1st category specialist
Heghine Babayan, Main specialist
Heghine Shaboyan, Main Specialist
Garik Khachatryan, Main specialist
Laert Harutyunyan, Division Head

Member of State Council on Statistics
International statistical cooperation division
International statistical cooperation division
International statistical cooperation division
Irrade and Other services division
Trade and Other services division
Methodology Division
Business Register Division
Business Register Division

## **Annex 4 Enterprise questionnaire**

Final version of the questionnaire includes the changes suggested hearing of from Incubator and other national experts.

### **State Statistical Reporting Form**

Adopted by State Statistical Counsel on 27/01/2012, Resolution 02



Reporting Form 1-ICT (annual) National Statistical Service

### ICT and E-Commerce use un enterprises in 2012

statistics causes to responsibility according to the law

Module A

Presented according to the Law on "State St	atistics " dated 04/04/200 N48
Submission date `before 15th of March	
Submitted	
by	
	prise name and type)
Address	
III	
	activity implementation address) (zip code)
Region	
<del></del>	
11	T 1 C11 11 NGC DA)
	To be filled by NSS RA)
Community / Administrative region	
I <u>       I                            </u>	To be filled by NSS RA)
De Facto main activity type	•
De l'acto mam activity type	
III	
	(to be flled by NSS RA)
	(to be modely 1,000 mill)
State register registration number	
	IIII
Identification number	
Tax payer registration number	<u> </u>
Telephone number	
e-mail	
The confidentiality of data is gauranted by	
Violation of state statistics law by the data	providers as well as by official bodies who compile the

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	Use of computers and computer networks in January 2012		_
		Yes	NO
A1.	Did your enterprise use computers?		$\rightarrow$ Go to X1
	Computers include Personal Computers, portable computers (e.g. laptops, notebooks, nettops), personal digital assistants (PDA)		
A2.	Number of employees using computer Computers include Personal Computers, portable computers (e.g. laptops, notebooks, nettops), personal digital assistants (PDA)	or	number %
A3.	Did your enterprise have internal computer network? (e.g.` LAN)		
A4.	Does your enterprise have internal Intranet?		
A5.	Do the persons employed have access to personal human resources services electronically? e.g. working time recording system, request annual leave, view or download payslips, or other services		
	Module B . Access to Internet in January 2012		
	Section 1. Access to Internet in January 2012		
		Yes	No
		1 65	110
B1.	Does your enterprise have access to Internet?		$\Box$ $\rightarrow \text{Go to C1}$
B1. B2.	Does your enterprise have access to Internet?  Number of employees who have access to Internet		
			$ \begin{array}{c} \square\\ \rightarrow \text{Go to C1}\\ \\ \underline{\qquad} number \end{array} $
B2.	Number of employees who have access to Internet  Does your enterprise have the following types of external		$ \begin{array}{c} \square\\ \rightarrow \text{Go to C1}\\ \\ \underline{\qquad} number \end{array} $
B2.	Number of employees who have access to Internet  Does your enterprise have the following types of external connection to the Internet?  1) Traditional Modem (dial-up access over normal telephone	or	$ \begin{array}{c} \square\\ \rightarrow \text{Go to C1}\\ \\ \underline{\qquad} number\\ \\ \end{array} $
B2.	Number of employees who have access to Internet  Does your enterprise have the following types of external connection to the Internet?  1) Traditional Modem (dial-up access over normal telephone line)  2) ISDN connection  3) DSL (xDSL, ADSL, SDSL, VDSL etc) connection	or	□ → Go to C1 number %
B2.	Number of employees who have access to Internet  Does your enterprise have the following types of external connection to the Internet?  1) Traditional Modem (dial-up access over normal telephone line)  2) ISDN connection  3) DSL (xDSL, ADSL, SDSL, VDSL etc) connection  4) Other fixed Internet connection, e.g. cable, leased line (e.g. E1 or E3 at level 1 and ATM at level 2), Frame Relay, Metro-Ethernet, PLC - Powerline communication, etc,	or	□ → Go to C1 number %
B2.	Number of employees who have access to Internet  Does your enterprise have the following types of external connection to the Internet?  1) Traditional Modem (dial-up access over normal telephone line)  2) ISDN connection  3) DSL (xDSL, ADSL, SDSL, VDSL etc) connection  4) Other fixed Internet connection, e.g. cable, leased line (e.g. E1 or E3 at level 1 and ATM at level 2), Frame Relay, Metro-Ethernet, PLC - Powerline communication, etc, fixed wireless connections  5) Mobile broadband connection (via at least 3G modem or handset) using e.g. WiMAX, UMTS, CDMA2000 1xEVDO, HSDPA	or	□ → Go to C1 number %
B2.	Number of employees who have access to Internet  Does your enterprise have the following types of external connection to the Internet?  1) Traditional Modem (dial-up access over normal telephone line)  2) ISDN connection  3) DSL (xDSL, ADSL, SDSL, VDSL etc) connection  4) Other fixed Internet connection, e.g. cable, leased line (e.g. E1 or E3 at level 1 and ATM at level 2), Frame Relay, Metro-Ethernet, PLC - Powerline communication, etc, fixed wireless connections  5) Mobile broadband connection (via at least 3G modem or handset) using e.g. WiMAX, UMTS, CDMA2000 1xEVDO,	or	□ → Go to C1  number  %

	fastest Internet connection of your enterprise?		
	(tick only one )		
	1) Less than 2.0 Mbit/s		
	2) From 2.1 Mbit/s up to 10.0Mbit/s		
	3) From 10.1 Mbit/s—up to 30.0 Mbit/s		
	4) From 30.1 Mbit/s- up to 100.0 Mbit/s		
D.5	5) 100.1 Mbit/s and more		7
B5.	How many persons employed were provided with a portable device with at least 3G technology for accessing the Internet?		number
	e.g. via portable computer with modem or via handset, with at least	or	
	3G technology	OI	
	using e.g. UMTS, CDMA2000 1xEVDO, HSDPA,		%
	while excluding GPRS		/*
	0	Yes	NO
			NO
<b>B6.</b>	Does your enterprise have a Website?		
			→ Go to B8
B7.	Did your Website have any of the following facilities in		
<b>D</b> 7.	January 2012		
	, ,		
	1) Online ordering or reservation or booking, e.g. shopping cart		
	2) A privacy policy statement, a privacy seal or certification		
	related to website safety		
	3) Product catalogues or price lists		
	4) Possibility for visitors to customise or design the products		
	5) Advertisement of open job positions or online job application		
	6) Other online facility		
	-		
	Section 2. Use of the Internet in contact with public authorities		
	in 2011	T	T
		Yes	No
B8.	did your enterprise use the Internet to contact with public		
	authorities		→ Go to B9
	1) obtain information from public authorities' websites or		
	home pages?		
	2) obtain reporting forms from public authorities' websites		
	or home pages? e.g. tax declaration, statistical reporting form, etc		
	3) return filled in reporting forms electronically,		П
	5) return fined in Teporting forms electronicarry,		
	4) other purpose( please indicate)		
	, r r r · · · · · · · · · · · · · · · ·		
	-		
B9.	Do you consider any of the following reasons as limiting your		
	electronic interaction with public authorities?		
	Concerns related to data confidentiality and security		
	2) Electronic procedures are too complicated and/or too time		
	consuming		

			_
	3) No information about of electronic procedures		
	4) Other reason (please indicate)		
Section	on 3. Internet usage for interaction with public authorities for el-p	rocurement in 201	1.
	Public electronic Procurement refers to the use of the Internet by e public authorities at national level or in other EU countries. The ePronumber of stages from the notification process (online availability of specifications) through <b>tendering</b> , awarding, to payment.  eTendering is the stage of an eProcurement process dealing with the tenders or proposals online; this includes bids submitted through ope as well as Framework Agreements and Dynamic Purchasing Systems Submission of bids by e-mail is excluded.	e preparation and sub-	based on a s and tender omission of
		YES	No
B10	Did your enterprise use the Internet for accessing tender documents and specifications in electronic procurement systems of public authorities?		
B11	During 2011, did your enterprise use the Internet for offering goods or services in public authorities' electronic procurement systems (eTendering)?		
	1) RA		
	2) In other countries		
•	does your enterprise use electronic signature in any message sent? (, i.e. using encryption methods that assure the authenticity and integrity of the message (uniquely linked to and capable of identifying the signatory and where any subsequent change to the message is detectable)		
	,		
	Module C Sending/receiving of messages suitable for automatic processing enterprise in January 2012  Electronic transmission of data suitable for automatic processing measurement of the sending and/or receiving of messages (e.g. orders, invoices descriptions, transport documents, tax declarations)  — in an agreed or standard format which allows their autom e.g. EDI, EDIFACT, ODETTE, TRADACOMS, XML, xCBL, cXM	nns: , payment transaction atic processing, IL, ebXML	
	<ul> <li>to or from other enterprises, public authorities or financial ins</li> <li>without the individual message being typed manually</li> <li>via any computer network</li> </ul>	Yes	No
		103	110
	did your enterprise send or receive electronically such information in a format that allowed its automatic processing?		☐ →Go to D1

C2.	Did your enterprise send or receive electronically such information for the following purposes?		
	Sending payment instructions to financial institutions		
	Sending or receiving product information (e.g. catalogues, price lists)		
	3) Sending or receiving transport documents (e.g. consignment notes)		
	<ol> <li>Sending or receiving data to/from public authorities         <ul> <li>(e.g. tax returns, statistical data, import or export declarations)</li> </ul> </li> </ol>		
	5) other (please indicate)		
	Module D Submission of documents (invoices) electronically in January 20		
D1		Yes	No
D1.	Did your enterprise send electronic documents (invoices)		$\rightarrow$ Go to D2
	e-invoices in a standard structure suitable for automatic processing?     e.g. EDI, UBL, XML, etc		
	2) Electronic invoices <b>not</b> suitable for automatic processing e.g. emails, email attachment in PDF format		
D2.	Ձեր կազմակերպությունը ստացել է արդյո՞ք էլեկտրոնային հաշիվներ ստանդարտ կառուցվածքով` հարմար ավտոմատ մշակման համար օրինակ` EDI, UBL, XML և այլն		
	Module E Automatic share of information within the enterprise in January	y 2012	
		Yes	No
E1.	Did your enterprise receive sales order or if other information was the relevant information about it shared electronically and automatically with the software used for the following functions?		
	1) Your management of inventory levels		
	2) Your accounting		
	3) Your production or services management		
	4) Your distribution management		

E2.	Did your enterprise send a purchase order (either electronically or not), was the relevant information about it shared electronically and automatically with the software used for the following functions?		
	1) Your management of inventory levels		
	2) Your accounting		
	Module F Ecommerce transactions ( sales and purchase)in 2011		
	An <b>e-commerce transaction</b> is the sale or purchase of goods or servine networks by methods specifically designed for the purpose of receive services are ordered by those methods, but the payment and the ultimed on not have to be conducted online.  e-commerce transactions <b>exclude</b> orders made by manually typed e- <b>Section 1. WEB sales</b>	ing or placing of orde nate delivery of the go	rs. The goods or
		Yes	No
F1.	During 2011, did your enterprise receive orders for products or		
	services placed via a website?		→ Go to F4
F2.	did your enterprise <i>receive</i> orders placed via a website by customers located in the following geographic areas		
	1) RA		
	2) CIS countries		
	3) Other countries		
F3.	Please state the value of the turnover resulting from orders received that were placed via a website (in monetary terms, excluding VAT	thousand drams  or	
	Section 2 EDI-type sales		
	<b>EDI-type sales</b> are sales made via EDI-type messages. EDI (electron generic term for sending or receiving business information in an agre processing (e.g. EDIFACT, UBL, XML,).		
		Yes	No
F4.	Did your enterprise <i>receive</i> orders for products or services placed via EDI-type messages?		□ → Go to F7
F5.	Did your enterprise <i>receive</i> orders placed via EDI-type messages by customers located in the following geographic areas		

	1) RA			
	2) CIS countries			
	3) Other countries			
F6.	Place state the value of the t	urnover resulting from orders		thousand
10.		EDI-type messages (in monetary	drams	mousuna
	<b>.</b>		or	
			·	%
	Section 3. E-commerce Purc	hases		
			Yes	No
F7.		ers for products or services via		
	<b>computer networks?</b> (via a website or EDI-type syst e-mails)	ems, and excluding manually typed		→ Go to G1
F8.		ders via a website or EDI-type in the following geographic areas		
	1) RA			
	2) CIS countries			
	3) other countries			
F9. placed	Please state the value of the pd delectronically (in monetary t	ourchases resulted from orders erms, excluding VAT		%
	Module G Main indicators of enterprise	e activity in 2011		
G1.	Average monthly number of estalaries	mployees used for calculation of	empl	loyees
G2.	Total turnover (without VA	·	nd drams	thousa
7.	<u> </u>	9.	1 11.	
8. <b>L</b>	Director			
12.		13. (Name, Surname)	1. 15. (Signature	e)
16. F	filled by (chief accountant or	18.	1! 20.	- /
	uthorized person)	22 (Name Comme	2, 24 (8,	- \
21. 25.		<ul><li>22. (Name Surname)</li><li>26.</li></ul>	2′ 24. (Signatur 2′ 28. << > 20	>

Thank you!

Trade and Other Services Division \$\infty\$ 58-76-23, e-mail: <a href="mailto:info@armstat.am">info@armstat.am</a>

### **Annex 5 Institution questionnaire**

Final version of the questionnaire includes the changes suggested hearing of from Incubator and other national experts.

Adopted by State Statistical Counsel on 27/01/2012, Resolution 02



Reporting Form 2-ICT (annual)

**National Statistical Service of Armenia** 

**State Statistical Reporting Form** 

**ICT Usage in Institutions in 2012** 

Presented according to the Law on "State Statistics" dated 04/04/200 N48	
Submission date `before 15th of March	
Submitted by	
(institution name and type )	
Address	
IIII (activity implementation adress)	(zip
Region	
II To be filled by	NSS
RA) Community / Administrative Region	
RA) De Facto main Activity type	<u> </u>
I I I I  RA)  (To be filled by	
State register registration number  I I I I I I I I I I I I I I I I I I I	
Identification number I I I I I I I I I I I I I I I I I I I	
Tax payer registration number  IIIII  Telephone Number	
The confidentiality of data is gauranted by the law	
Violation of state statistics law by the data providers as well as by official bodies who compile the causes to responsibility according to the law	statistics

	Module A		
	Use of computers and computer networks in January 2012		
		YES	NO
A1.	Did your institution use computers?		
	Computers include Personal Computers, portable computers (e.g.		$\rightarrow$ Go to X1
	laptops, notebooks, nettops), personal digital assistants (PDA) or smartphones		
A2.	Number of employees using computers Computers include		
112.	Personal Computers, portable computers (e.g. laptops, notebooks,		_ employees
	nettops), personal digital assistants (PDA) or smartphones	or	_ 1 ,
			_ %
			1
A3.	Did you have internal computer network (ex: Local Area		
	Network)		
U.4	Does your institution have internal home page (Intranet)?		
A5.	Did the persons employed have access to personal human		
AJ.	resources services electronically?		
	e.g. working time recording system, request annual leave, view or		
	download payslips, or other services		
	Module B:	•	•
	Access and use of the Internet		
	Section 1. Access to Internet in January 2012		
		Yes	No
<b>B1.</b>	Did your institution have access to Internet?		
B2.	Number of employees with eacest to the Internet		$\rightarrow$ Go to B5
D2.	Number of employees with access to the Internet		employees
		or	_ employees
			_ %
В3.	Did your institution have the following types of external		
	connection to the Internet?		
	1) Traditional Modem (dial-up access over normal telephone		
	line) or ISDN connection		
	2)ISDN connection		
	3)DSL (xDSL, ADSL, SDSL, VDSL, etc) connection		
	4) Other fixed Internet connection,		
	e.g. cable, fibre optic, leased line (e.g. E1 or E3 at level 1 and ATM at level 2),		
	Frame Relay, Metro-Ethernet, PLC - Powerline		
	communication, etc,		
	fixed wireless connections		
	5) <b>Mobile broadband</b> connection (via at least 3G modem or		
	handset)		
	using e.g. UMTS, CDMA2000 1xEVDO, HSDPA		
	6) Other mobile connection		
	using e.g. analogue mobile phone, GSM, GPRS, EDGE		
	1	1	1
<b>B4.</b>			

fastest Internet connection of your institution? ((ick only one)   1) up to 2.0 Mbit/s   2) 2.1 Mbit/s - 10.0 Mbit/s   3)10.1 Mbit/s - 30.0 Mbit/s   3)10.1 Mbit/s - 30.0 Mbit/s   5)100.1 Mbit/s - 100.0 Mbit/s   5)100.1 Mbit/s - 30.0 Mbit/s - 30.		What was the maximum contracted download speed of the						
1) up to 2.0 Mbit/s   2) 2.1 Mbit/s - 10.0 Mbit/s   3)10.1 Mbit/s - 30.0 Mbit/s   3)10.1 Mbit/s - 30.0 Mbit/s   3)10.1 Mbit/s - 30.0 Mbit/s   5)100.1 Mbit/s - 30.0 Mbit/								
2) 2.1 Mbit/s - 10.0 Mbit/s 3)10.1 Mbit/s - 30.0 Mbit/s 5)100.1 Mbit/s and more  Section 2. E-services in January 2012   B5. How your institution provides public services  Direct communication (on visit) By traditional post Through a call centre By phone By mobile phone By Internet telephony (e.g. Skype) By e-mail Via a website  Via Internet social networks (e.g. Facebook)   B7. What information is available on your institution's Web site a) Structure and contacts of institution b) Information about the institution's activity c) Relevant news related to the institution's activity d) Information about services e) Consulting services via website  B8. Which e-services provided your institution on website 1. Offer a possibility to return filled out forms 2. Offer a possibility to perform administrative procedures electronically, without additional paperwork 4. Offer a possibility to perform administrative procedures electronically, without additional paperwork 4. Offer a possibility to emply procedure using previous registration of the user (without repeated data entry, automatically using the information already available)  B9 did your institution nethods that assure the authenticity and				П				
3)10.1 Mbit/s-30.0 Mbit/s 4)30.1 Mbit/s-100.0 Mbit/s 5)100.1 Mbit/s and more  Section 2. E-services in January 2012    Feet   F		· ·						
4)30.1 Mbit/s and more   Green   Gr		,						
Section 2. E-services in January 2012    Section 2. E-services in January 2012    Section 3. E-services in January 2012    Section 3. E-services in January 2012    Section 4. How your institution provides public services    Direct communication (on visit)   By traditional post   Through a call centre   By phone   By mobile phone   By Internet telephony (e.g. Skype)   By e-mail   Via a website   Via Internet social networks (e.g. Facebook)    B7. What information is available on your institution's Web site   a) Structure and contacts of institution   b) Information about the institution's activity   c) Relevant news related to the institution's activity   d) Information about services   e) Consulting services via website   Consulting services via website   Consulting services provided your institution on website   Consulting services via website   Consulting services provided your institution on website   Consulting services required to the institution on website   Consulting services via website   Consulting v		,						
Section 2. E-services in January 2012    Feet								
B5. How your institution provides public services  Direct communication (on visit) By traditional post Through a call centre By phone By mobile phone By Internet telephony (e.g. Skype) By e-mail Via a website Via Internet social networks (e.g. Facebook)  B7. What information is available on your institution's Web site a) Structure and contacts of institution b) Information about the institution's activity c) Relevant news related to the institution's activity d) Information about services e) Consulting services via website  B8. Which e-services provided your institution on website 1. Offer a possibility to download forms 2. Offer a possibility to return filled out forms 3. Offer a possibility to comply procedure using previous registration of the user (without repeated data entry, automatically using the information already available)  B9 did your institution use electronic signature in any message sent? (i.e. using encryption methods that assure the authenticity and								
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(i.e. using encryption methods that assure the authenticity and $\ \Box$		<ul> <li>a) Structure and contacts of institution</li> <li>b) Information about the institution's activity</li> <li>c) Relevant news related to the institution's activity</li> <li>d) Information about services</li> <li>e) Consulting services via website</li> <li>Which e-services provided your institution on website</li> <li>1. Offer a possibility to download forms</li> <li>2. Offer a possibility to return filled out forms</li> <li>3. Offer a possibility to perform administrative procedures electronically, without additional paperwork</li> <li>4. Offer a possibility to comply procedure using previous registration of the user (without repeated data entry,</li> </ul>						
(i.e. using encryption methods that assure the authenticity and $\ \Box$		<ul> <li>a) Structure and contacts of institution</li> <li>b) Information about the institution's activity</li> <li>c) Relevant news related to the institution's activity</li> <li>d) Information about services</li> <li>e) Consulting services via website</li> <li>Which e-services provided your institution on website</li> <li>1. Offer a possibility to download forms</li> <li>2. Offer a possibility to return filled out forms</li> <li>3. Offer a possibility to perform administrative procedures electronically, without additional paperwork</li> <li>4. Offer a possibility to comply procedure using previous registration of the user (without repeated data entry,</li> </ul>						
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	identifying the signatory and message is detectable)	where any subsequent change to the	
	Module X		
	<b>Background information</b>		
X1.	Average number of persons	employed, during 2011	employees
29.		31.	3′. 33.
30. <b>L</b>	Director		
34.		35. (Name, Surname)	3 (Signature)
38. F	illed by (chief accountant or	40.	4 42.
39. a	uthorized person)		
43.	_ ,	44. (Name Surname)	4. 46. (Signature)
47.		48.	4' 50. <<>>

## Thank you!

Trade and Other Services Division \$\infty\$ 58-76-23, e-mail: <a href="mailto:info@armstat.am">info@armstat.am</a>

# **Annex 6: Other respondent material** Glossary and methodological explanations for enterprises

## Glossary and methodological explanations for institutions

# **Annex 7: Sample and population of enterprises Population, Yerevan**

(distribution by Industry group and size class)

		îĐî ÷áñÓÝ³Ï³Ý Ñ»ï³½áïáõÃÛ³Ý Ñ³Ù³ñ ù³Õ³ù ºñ¨³ÝÇ ϳ½Ù³Ï»ñåáõÃÛáõÝÝ»ñÇ ù³Ý³ÏÁ						
		4 ËÙμ»ñ	Nace rev. 2	10-30	31-50	51-100	101 և ավելի	Ընդամենը
Մշակող արդյունաբերություն Էլեկտրականության, գազի, գոլորշու և լավորակ օդի մատակարարում Ջրամատակարարում,			С	250	47	45	41	383
ատար Մավորո	ակ օդի կարարում		D	8	1	0	4	13
կառան	ստակարարում, ի, թափոնների վարում և շակում	ı	E	2	2	2	10	16
ักามาม <i>ป</i> สว		II	F	107	23	25	24	179
ՄԵԾԱԾԱԽ ԵՎ ԱՌԵՎՏ ԱՎՏՈՄԵՔԵՆ ՄՈՏՈՑԻԿԼՆԵՐԻ	III	G	349	58	28	32	467	
ՓՈԽԱԴՐՈՒ ՊԱՀԵՍՏԱՅԻՆ ՏՆ		Н	148	27	26	19	220	
	ԿԱՑՈՒԹՑԱՆ ԵՎ ՀԱՆՐԱՑԻՆ ՄՆՆԴԻ ԿԱԶՄԱԿԵՐՊՈՒՄ			139	27	13	4	183
ՏԵՂԵԿԱՏՎՈՒԹՅ			J	72	25	19	11	127
1ԳՑՎՈՔ ԵՂՍԾՄՍ 1ԺՄՎՈԾՂՈՔ			L	47	9	6	1	63
ՐԱՂԱՐՂԱՄԻ ՆՆԱՆՕ ՆԵՆՎՈԾՂՈՔ	ìUЧ		N	54	15	8	12	89
ՄԱՄՆԱԳԻՏԱԿՄ ԵՎ ՏԵԽՆԻ ԳՈՐԾՈՒՆԵՈ	ԿԱԿԱՆ		M,69-74, μ³ό³éáõÃÛ³Ùμ 75	106	18	24	20	168
ՄՊԱՄԱՐԿԼ ԾԱՌԱՅՈՒԹՅՈՒՆ համակարգիչն	ՄԱՆ ԱՑԼ ՆԵՐԻՑ ÙdzÛÝ							
սարքավորանք		IV	S 95.1 Ընդամենը	1 1283	0 <b>252</b>	0 <b>196</b>	0 <b>178</b>	1 1909

## îĐî ÷áñÓݳϳÝ Ñ»ï³½áïáõÃÛ³Ý Ñ³Ù³ñ ù³Õ³ù ºñ¨³ÝÇ ÁÝïñ³ÝùáõÙ Áݹ₊ñlí³Í lੱ³½Ù³Ï»ñåáõÃÛáõÝÝ»ñÇ ù³Ý³ÏÁ

	4 ËÙμ»ñ	Nace rev. 2	10-30	31-50	51-100	101 և ավելի	Ընդամենը
Մշակող							
🤦 արդյունաբերություն		С	3	2	2	2	9
Էլեկտրականության,							
ို့ գազի, գոլորշու և							
ေ լավորակ օդի						_	_
Երեկտրականության, գազի, գոլորշու և լավորակ օդի մատակարարում Ջրամատակարարում, փայուղի, թափոնների		D	3	1	0	1	5
Ջրամատակարարում, կայուղի, թափոնների							
ի կառավարում և							
վերամշակում	1	E	1	1	1	1	4
	II						_
ՇԻՆԱՐԱՐՈՒԹՅՈՒՆ	II	F	3	3	3	3	12
ՄԵԾԱԾԱԽ ԵՎ ՄԱՆՐԱԾԱԽ ԱՌԵՎՏՈՒՐ,							
ԱՎՏՈՄԵՔԵՆԱՆԵՐԻ ԵՎ							
ՄՈՏՈՑԻԿԼՆԵՐԻ ՆՈՐՈԳՈՒՄ	III	G	4	3	3	3	13
ՓՈԽԱԴՐՈՒՄՆԵՐ ԵՎ							
ՊԱՀԵՍՏԱՅԻՆ ՏՆՏԵՍՈՒԹՅՈՒՆ		н	3	3	3	2	11
ԿԱՑՈՒԹՅԱՆ ԵՎ ՀԱՆՐԱՅԻՆ							
ՄՆՆԴԻ ԿԱԶՄԱԿԵՐՊՈՒՄ		ı	3	3	3	1	10
ՏԵՂԵԿԱՏՎՈՒԹՅՈՒՆ ԵՎ ԿԱՊ		J	3	3	3	2	11
<b>ԱՆՇԱՐԺ ԳՈՒՅՔԻ ՀԵՏ ԿԱՊՎԱԾ</b>							
ԳՈՐԾՈՒՆԵՈՒԹՅՈՒՆ		L	3	1	1	1	6
ՎԱՐՉԱՐԱՐԱԿԱՆ ԵՎ							
ОԺԱՆԴԱԿ							
ԳՈՐԾՈՒՆԵՈՒԹՅՈՒՆ		N	3	3	1	2	9
ՄԱՄՆԱԳԻՏԱԿԱՆ, ԳԻՏԱԿԱՆ		M,69-74,					
ԵՎ ՏԵԽՆԻԿԱԿԱՆ		μ³ό³éáõÃÛ³Ùμ					
ԳՈՐԾՈՒՆԵՈՒԹՅՈՒՆ		75	3	2	2	2	9
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OUUTEUP OUT OF SUPERIOR OF SUP							
համակարգիչների և կապի	IV	0.05.4		_		_	ا م
սարքավորանքի նորոգում	IV	S 95.1	1	0	0	0	1
		Ընդամենը	33	25	22	20	100

Sample, enterprises (distribution by Industry group and size class)

## Annex 8: List of 17 participating institutions in pilot study

Annex 9: Suggested layout of detailed tables by MSE

MSE suggested the following table layout for documentation of the results before the mission.

NSSRA produced subsequently tables for all variables of the enterprise pilot survey.

Qualitat	ive ques	tions										
Quantut	ive ques	CIOIIS				T-4-1 - II						Takal all
						Total, all	l				400.	Total, all
		_		NACE 3					_	50-99	_	
Question 1	TOTAL	15	40	10	35	100	15	30			10	100
	Yes	7	20	4	21	52	8	19		_	7	52
	No	5	12	1	8	26	4	8	_	_	1	26
	Don't know	2	6	5	3	16	2	2	_	_	2	
	Missing	1	2	0	3	6	1	1			0	6
Question 2	TOTAL	15	40	10	35	100	15	30	25	_	10	100
	Yes	6	18	4	27	55	10	21		_	4	
	No	1	8	2	4	15	4	5	2	3	1	15
	Don't know	8	12	4	4	28	1	4	10	8	5	28
	Missing	0	2	0	0	2	0	0	_	_	0	2
Question 3	TOTAL	15	40	10	35	100	15	30	25	20	10	100
	Yes	10	28	7	24	69	9	23	17	14	6	69
	No	2	9	2	8	21	3	5	5	5	3	21
	Don't know	3	3	0	2	8	2	2	2	1	1	8
	Missing	0	0	1	1	2	1	0	1	0	0	2
 Question N		15	40	10	35	100	15	30	25	20	10	100
	Yes	7	24	4	22	57	10	21	13	8	5	57
	No	2	9	2	3	16	4	2			2	
	Don't know	4	6	2	10	22	1	5	6	_	2	22
	Missing	2	1	2	0	5	0	2	_	_	1	5
												_
Quantiv	ative que	estion	15									
Quantiti	utive qui	-	<u></u>			Total, all						Total, all
		NACE 1	NACE 2	NACE 3	NACE 4	1	l	20-29	30-49	50-99	100+	1
Question 1	TOTAL	15	40	10	35	100	15	30	_	_	100	100
Question 1	> average	2	20	7	31	60	4	19	_		10	60
	< average	9	14	2	31	28	8	9			0	28
	Don't know	2	3	1	0	6	1	1			0	6
		2	3	0	1	6	2	1	_	_	0	6
Overtion 2	Missing			_	_		_			_		
Question 2		15 6	40			100 55					10 4	
	> average											
	< average	1	12			15					1	
	Don't know		12			28		4				
	Missing	0	2			2		_	_			
Question 3		15	40			100			_			
	> average	10				69						
	< average	2	9				3				3	
	Don't know		3			8	2	2			1	8
	Missing	0	0	1	1	2	1	0	1	0	0	2
Question M		15	40			100		_	_		_	
	> average	2	20			60						
	< average	9	14								0	
	Don't know		3		0			1			0	
	Missing	2	3	0	1	6	2	1	2	1	0	6

#### **Annex 10: Suggested structure of Pilot Study Report**

#### (draft version 0.1)

- 1. Background (1-2 pages?)
  - a. General introduction
  - b. The Twinning project and EU regulations on ICT statistics
  - c. Purpose of pilot studies on ICT usage in Armenia
- 2. Methodology (3-4 pages?)
  - a. Population and sampling
  - b. Overall introduction of questionnaires (questionnaires in annexes)
  - c. Data collection method
- 3. Experiences from pilot studies (3-6 pages?)
  - a. General impressions
  - b. Problems related to non-response
  - c. Respondent feedback enterprises and institutions

Problem type 1 Problem type 2

. .

- 4. Analysis of ICT usage in Armenia (4-8 pages?)
  - a. Enterprises selected tables and charts
  - b. Institutions selected tables and charts
- 5. From pilot studies to regular surveys (1-2 pages?)

#### Annexes

- a. Questionnaire, enterprises
- b. Questionnaire, institutions
- c. Instructions and explanations
- d. Detailed tables of indicators

**Annex 11: Updated roadmap for the ICT Statistics component** 

Ti	me	Action
1	July 2012 (mid)	First draft of "Pilot Study Report on ICT usage in Armenian enterprises and institutions" (Armenian version of publication) prepared by BC Experts
2	July 2012 (end)	First draft of "Pilot Study Report on ICT usage in Armenian enterprises and institutions" (English version of publication) – to be sent <b>to MS Expert</b> for comments
3	27-31 August 2012	Enterprises' ICT usage survey <b>as case on</b> <i>small area estimations</i> for 2 BC Experts study visit to Statistics Denmark on methodological issues
4	7 September 2012	Written comments on draft "Pilot Study Report on ICT usage in Armenian enterprises and institutions" <b>from MS Experts</b>
5	14 September 2012	<b>BC Expert</b> 1-2 pages preliminary note to MS Experts on issues related to sampling and dissemination of a full-scale survey. The main focus should be on possible regionally distributed statistics on ICT usage. The translated note will be the starting point for the discussions, and possibly decisions, during the F4.2 mission.
6	21-28 Sept. 2012	MS Expert mission to NSSRA: F4.2 Optimization of sampling Final review of "Pilot Study Report" Full scale survey design.
7	23 October 2012	Dissemination of "Pilot Study Report" to stakeholders including invitation letter to workshop in November (during F.6), see point 8 below.
8	5-9 November 2012	<ol> <li>MS Expert mission to NSSRA: F.6 Review mission</li> <li>Workshop with stakeholders: NSSRA presentation of experiences from pilot studies and collection of users' feedback on the pilot studies and their input to future surveys and dissemination</li> <li>Discussion and drafting of a 3 year strategy for the development of the ICT usage surveys in Armenia</li> <li>Wrapping up the component</li> </ol>



The mountains of Ararat, Masis (5,165 meters aove sea level) and Sis (3,896 meters). (*Photo: Martin Lund* $\phi$ )