

EU-ARMENIA TWINNING PROJECT

Activity 5.5

Preparation of regular surveys of innovation statistics

Innovation Statistics

Yerevan, 27 February – 2 March 2017





Mandatory result

Mandatory result MR6 related to this activity

Innovation statistics introduced

Benchmarked by

- Questionnaire for gathering innovation statistics drafted (February 2016)
- Pilot survey conducted and test results analyzed (January 2017)
- Methodology on innovation statistics introduced (April 2017)
- Plan for regular production and publication developed (April 2017)



Purpose and expected output of 5.5

Purpose

- Amended methods for a regular surveys based on the experiences from the pilot survey
- Proposals of imputation methods that will be used for regular compilation
- Discussion on revision policy
- Preparation of final questionnaires for a regular production
- Plan for a regular survey
- Plan for publication including user needs
- Development of methodology
- Further discussion on the use of administrative sources
- To involve relevant stakeholders in the discussions



Purpose and expected output of 5.5

Expected output

Mission report covering the following:

- Plan for regular survey and publication developed
- Imputation methods proposed
- Revision policy discussed
- Questionnaire finalized
- Methodology developed
- A lining up of work programme for the next and last activity:
 - 5.6: Follow-up on achievements and recommendations for the future (25-28 April 2017)



General conclusions

- Pilot data finalized (with very good quality) and weights produced as agreed during the previous mission
- First tabulations provided according to the rules provided by MS experts
- The draft version of "Methodological notes for Innovation Statistics" will be provided by MS experts shortly
- The main questions (core questions) for the regular survey are discussed and decided



Visualization of pilot data (1)

First results!

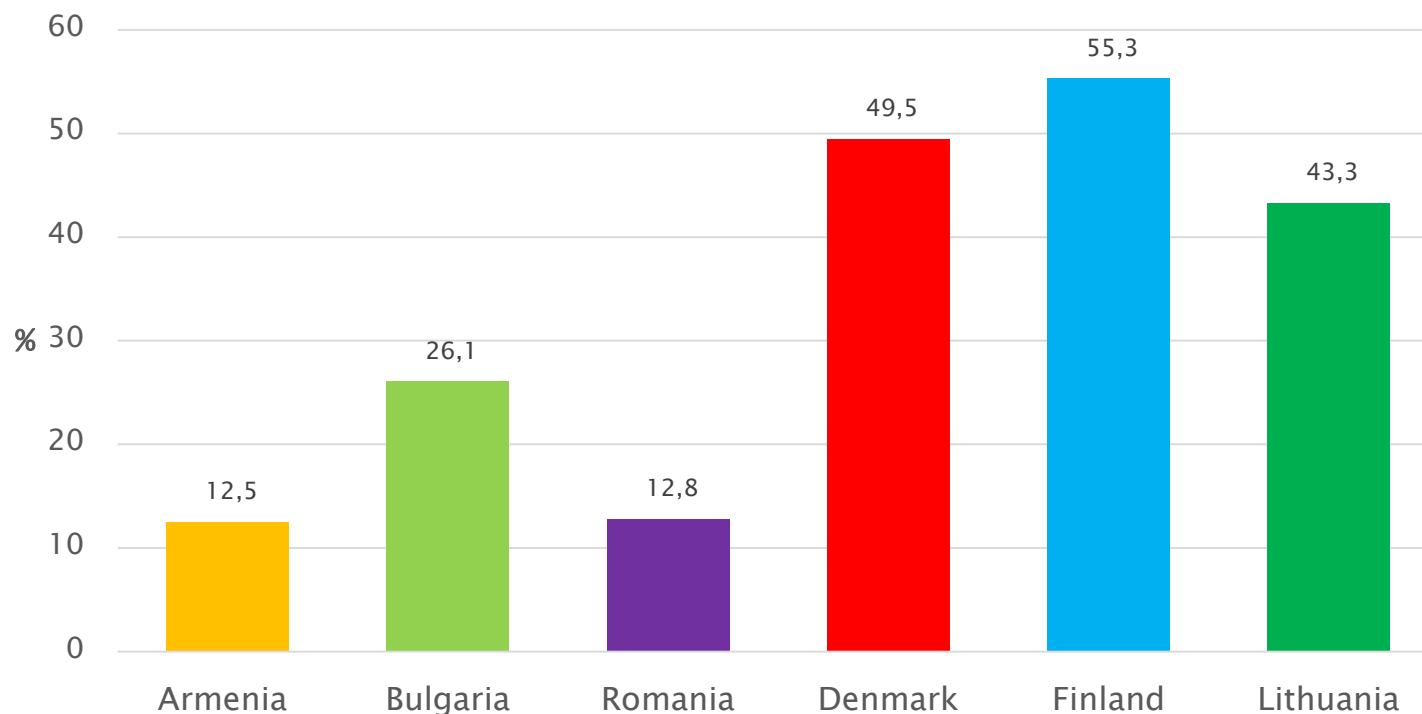
Product innovations	Process innovations	Innovation activity relating to products and or processes	Organisational innovations	Marketing innovations	Innovation activity
% of all enterprises	% of all enterprises	% of all enterprises	% of all enterprises	% of all enterprises	% of all enterprises
Արտադրանքի ինովացիա ընդամենը	Գործընթացային ինով Շնդամենը	Արտադրանք + գործընթացային ինով ընդամենը	Կազմակերպչական ինով Շնդամենը	Մարկետինգային ինով Շնդամենը	Շնդամենը ինով
4,3%	2,8%	6,0%	3,5%	5,1%	9,4%

Source: Armstat



Visualization of pilot data (2)

Enterprises with innovation activity

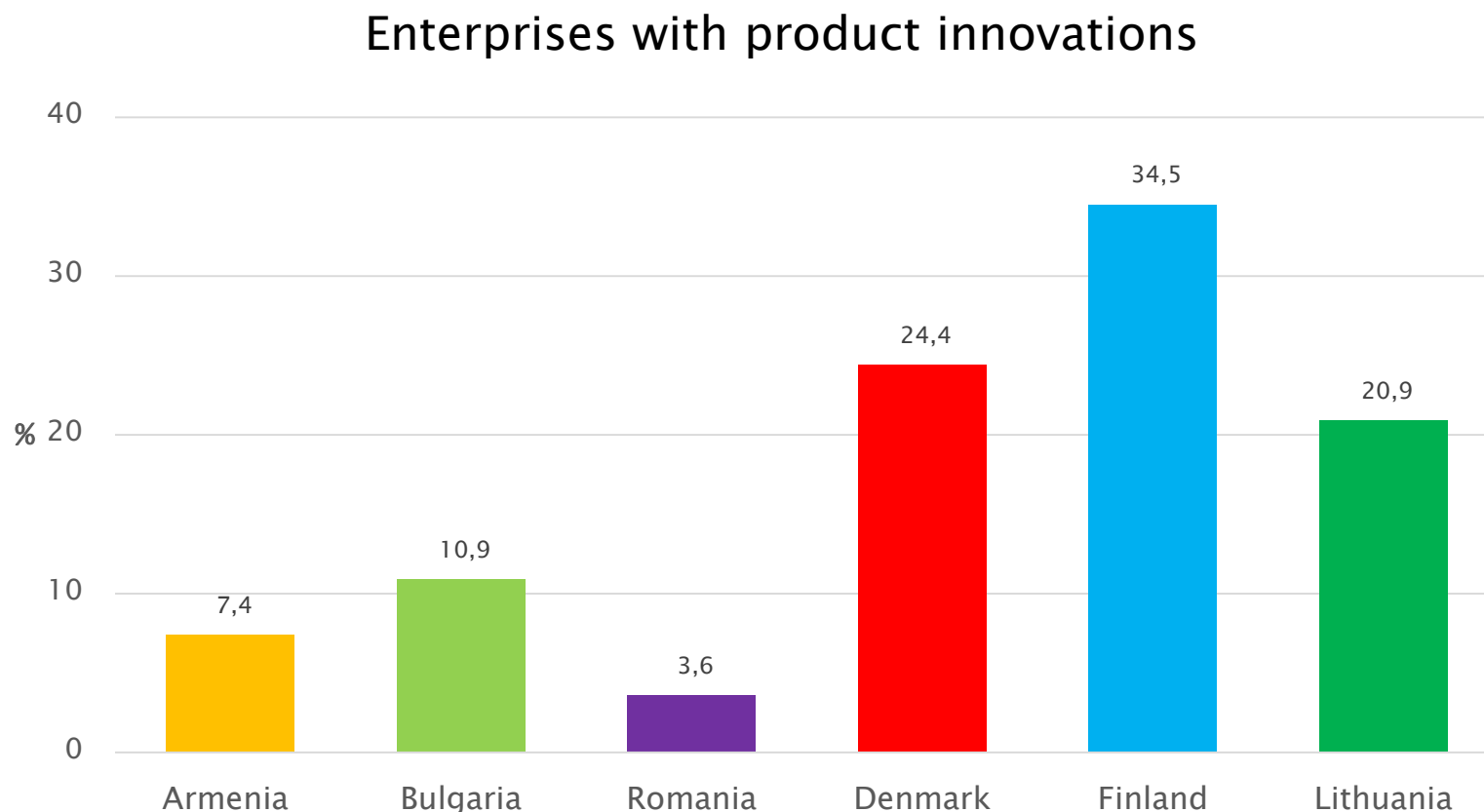


in EU CIS core industries as a share of all enterprises, 2013–2015 for Armenia & 2012–2014 for other counties

Sources: Armenian pilot data, Eurostat



Visualization of pilot data (3)



in EU CIS core industries as a share of all enterprises, 2013–2015 for Armenia & 2012–2014 for other counties

Sources: Armenian pilot data, Eurostat



Recommendations *Questionnaire*

- Consider how to coordinate data collection for CIS and Customs Union (only 1 of 3 parts are the same)
- Innovation is a changing and developing phenomenon
 - new topics and questions needed from time to time:
 - changes at EU level, CIS2018 under preparation at the moment
 - User needs! Close cooperation with users is important
 - Oslo manual, the main guidance for innovation statistics, is under a revision process -> might imply changes(?)
- Good in-house cooperation in Armstat between different units is very important



Recommendations *Dissemination*

- Making tabulations from the pilot data (data visible to the users) gives good starting point for further surveys
- Further tabulations (like EU tables) will be covered during the last mission in April
- Consider carefully the data and level of publication of pilot data (data for the first time and possibility for measurement of errors by respondents)
- Consider how to get specialised statistical software (like a free of charge *R Project*) for statistical divisions for more flexible production of output – and training



Recommendations

Methodological notes

- Draft of Methodological Notes will cover main elements and special features of compiling innovations statistics:
 - Explanations and instructions for questionnaire
 - Examples of innovations
 - Recommended methods for imputations etc.
 - Additional questions used in the context of EU CIS surveys
 - Etc.
- Recommendation: Staff of Armstat should give feedback to the Notes, and the Notes should be adopted as national practice in order to be able to produce Innovation Statistics as useful as possible for the future work in Armenia



Homework

- MS experts finalise the next version of the Methodological Notes soon after the mission and send the new version to Armstat
- Homework for Armstat is to go the Notes through, and give feedback before the next mission on what is still needed in the Methodological Notes
- To make core tables and tabulations based on the rules given by the MS experts
- Planning regular survey needs (what is needed?, how to get the best results?, etc.)