

CENTRE FOR PROMOTION OF CLEAN AND EFFICIENT ENERGY IN ROMANIA

**Views and opinions of operating inspectors
on energy efficiency of buildings**

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Sub-activity 3.1.4 – on line questionnaire

Survey period: Nov 2013 - Feb 2014

- 760 potential respondents
- 81 answers (aprox. 11% - survey response rate)

Majority – independent experts registered to specific list of experts

Sub-activity 3.1.4 – on line questionnaire

- A. General informations**
- B. Implementation problems and difficulties,**
- C. Enablers and strenghts of inspection procedures**
- D. Respondent informations**

Sub-activity 3.1.4 – on line questionnaire

A. General informations

referred mainly to legislative issues regarding the inspection of heating and /or air-conditioning systems of buildings and the implementation of formal inspection procedures in the SEE area. It was comprised of 22 mostly close ended questions.

B. Implementation problems and difficulties

referred to the evaluation of various factors regarding the implementation of inspections.

C. Enablers and strenghts of inspection procedures

examined the factors that enable the successful implementation of the inspection procedures of heating and air – conditioning systems, their assessment and their existence in the countries of SEE consortium

D. Respondent informations

includes questions about the professional and personal status of the respondents.

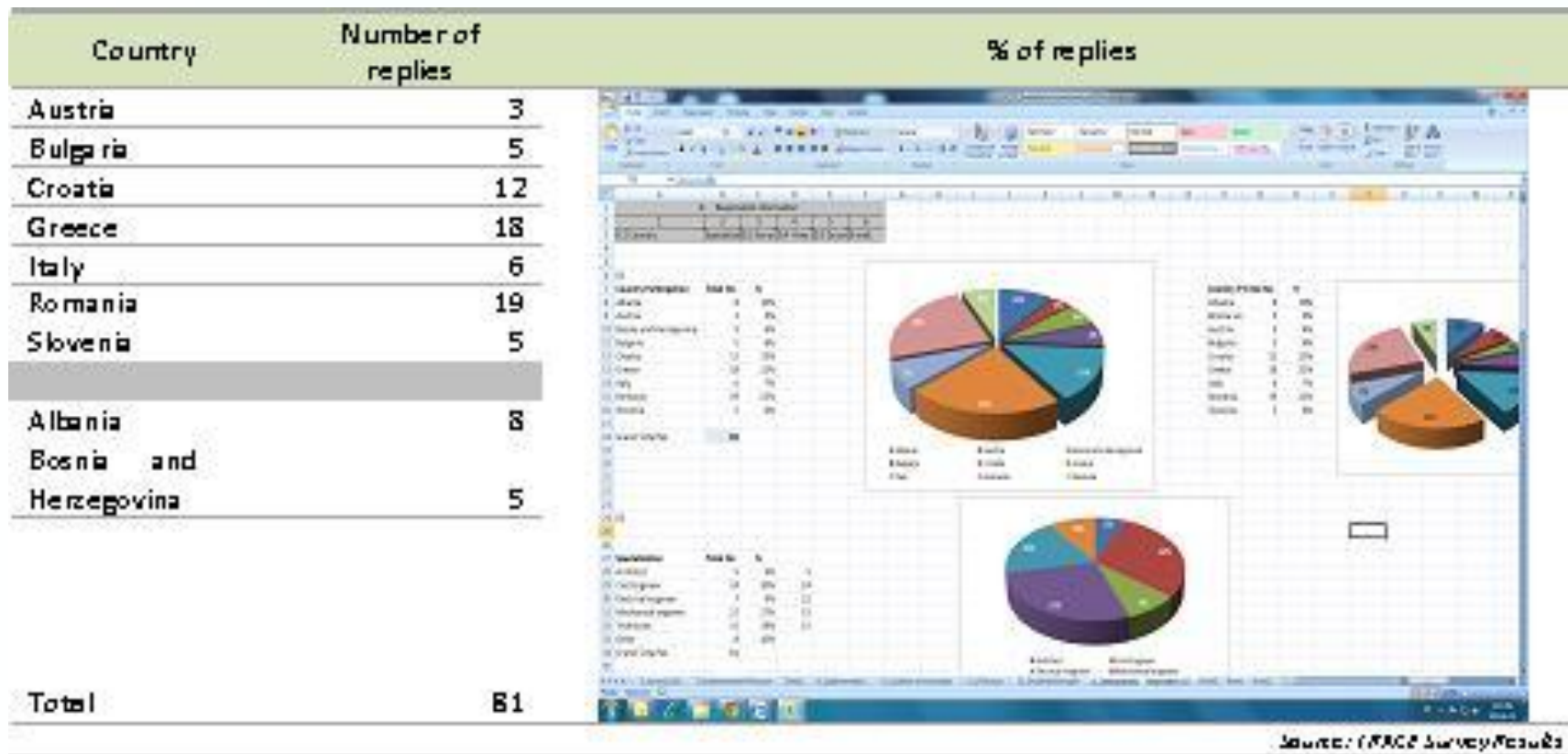
Sub-activity 3.1.4 – on line questionnaire

Particularly, the purpose of the study can be divided into individual targets, including:

- To assess the knowledge of buildings energy inspectors regarding the existing relevant legislation
- To review the opinions of field energy experts as far as the existing and programmed formal procedures of inspections are concerned,
- To evaluate the problems and difficulties occurring in the implementation of the inspection procedures
- To estimate the enabling factors and the strengths of the inspection procedures.

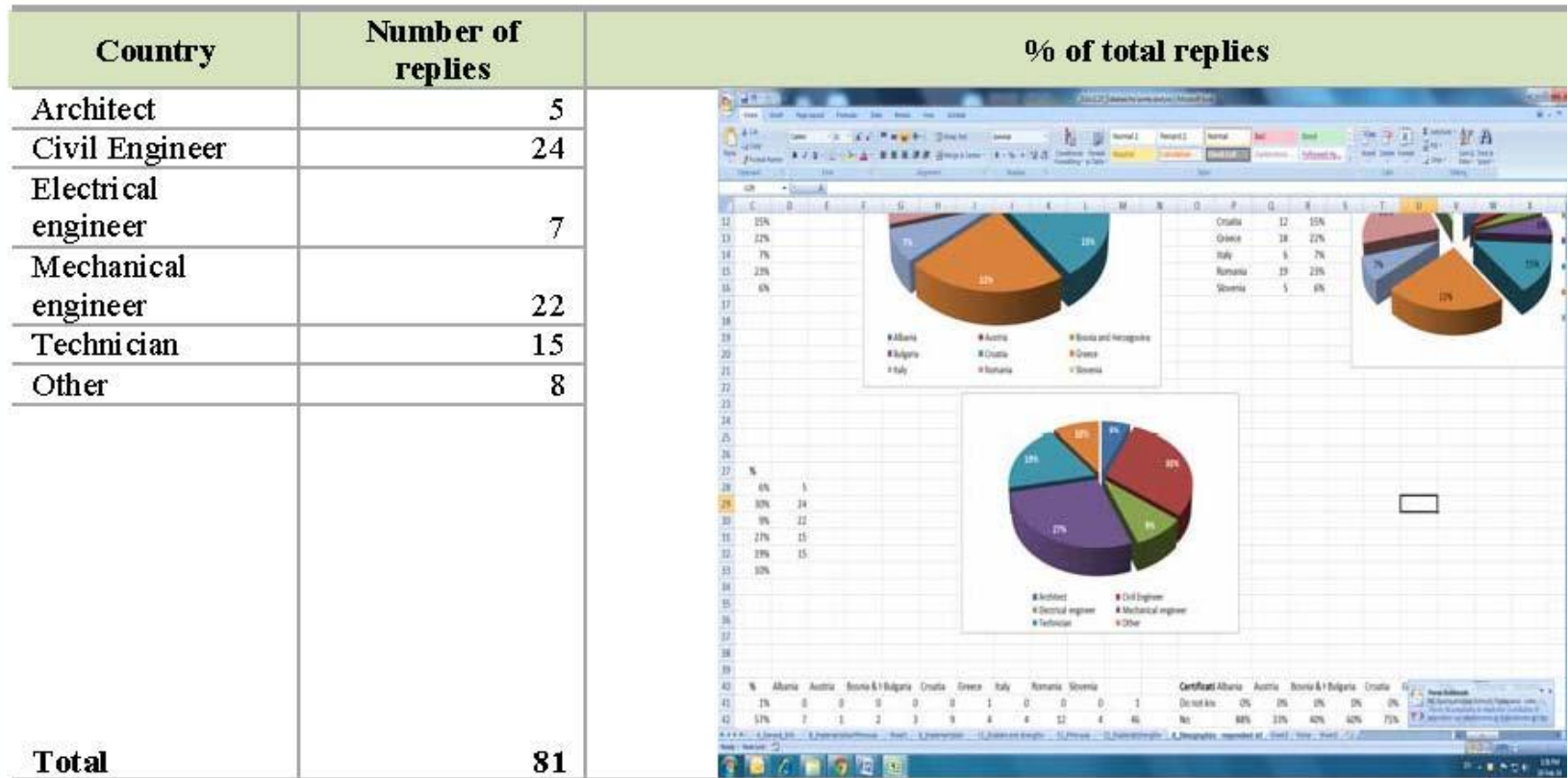
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Figure 1: Sample distribution (replies) per country



Sub-activity 3.1.4 – on line questionnaire

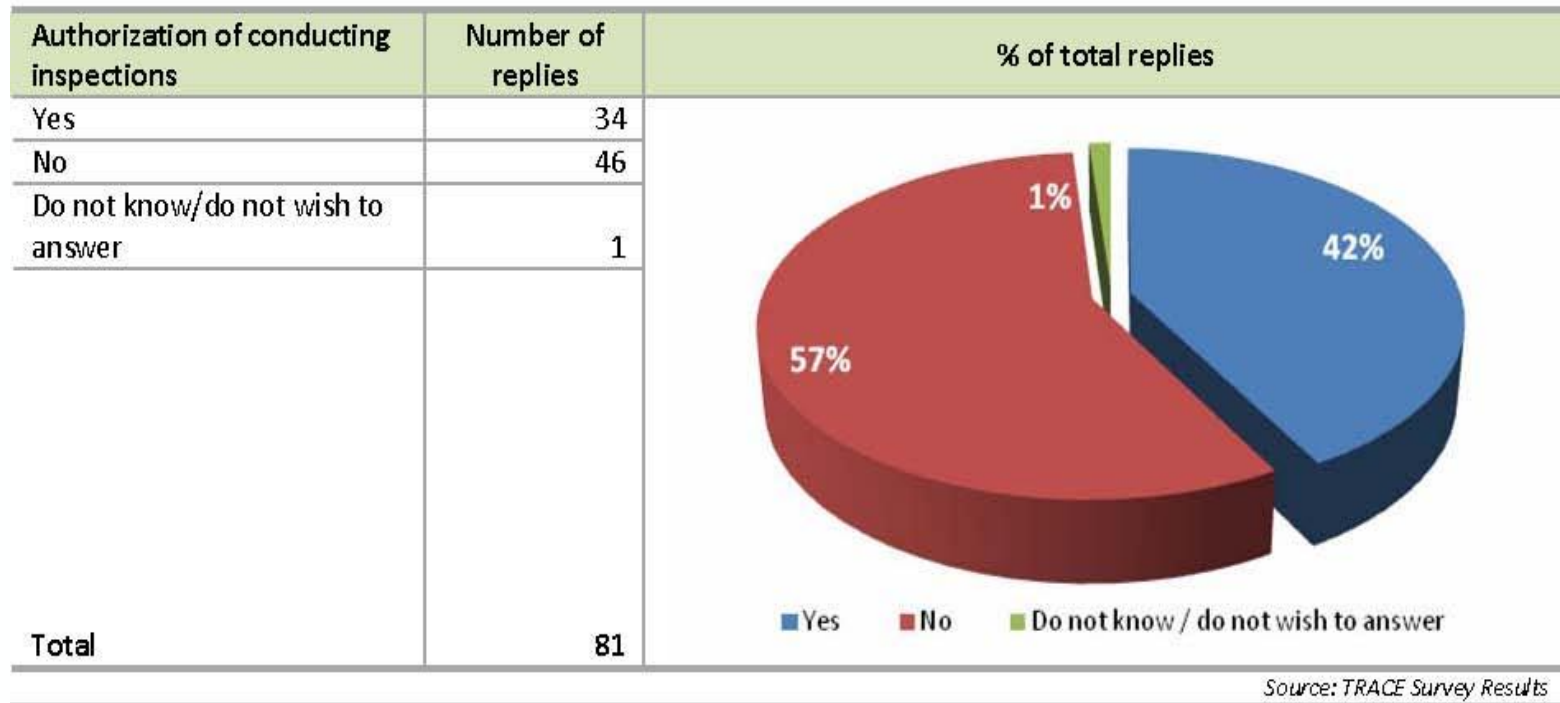
Figure 2: Sample distribution (replies) per job specialization



Source: TRACE Sur

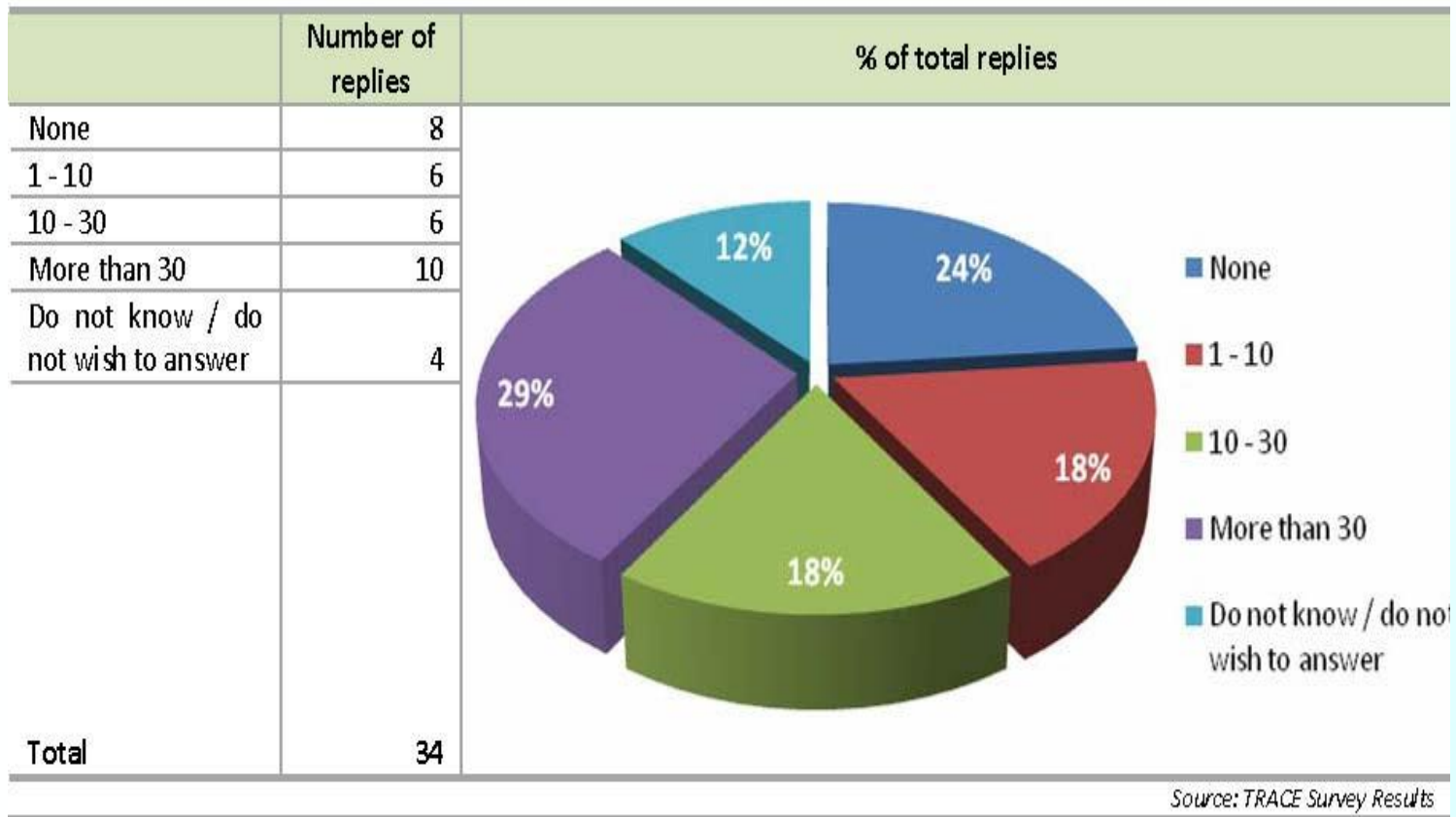
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Figure 3: Are you certified to make inspections of heating and air-conditioning systems of buildings (do you belong in a national and / or regional register)?



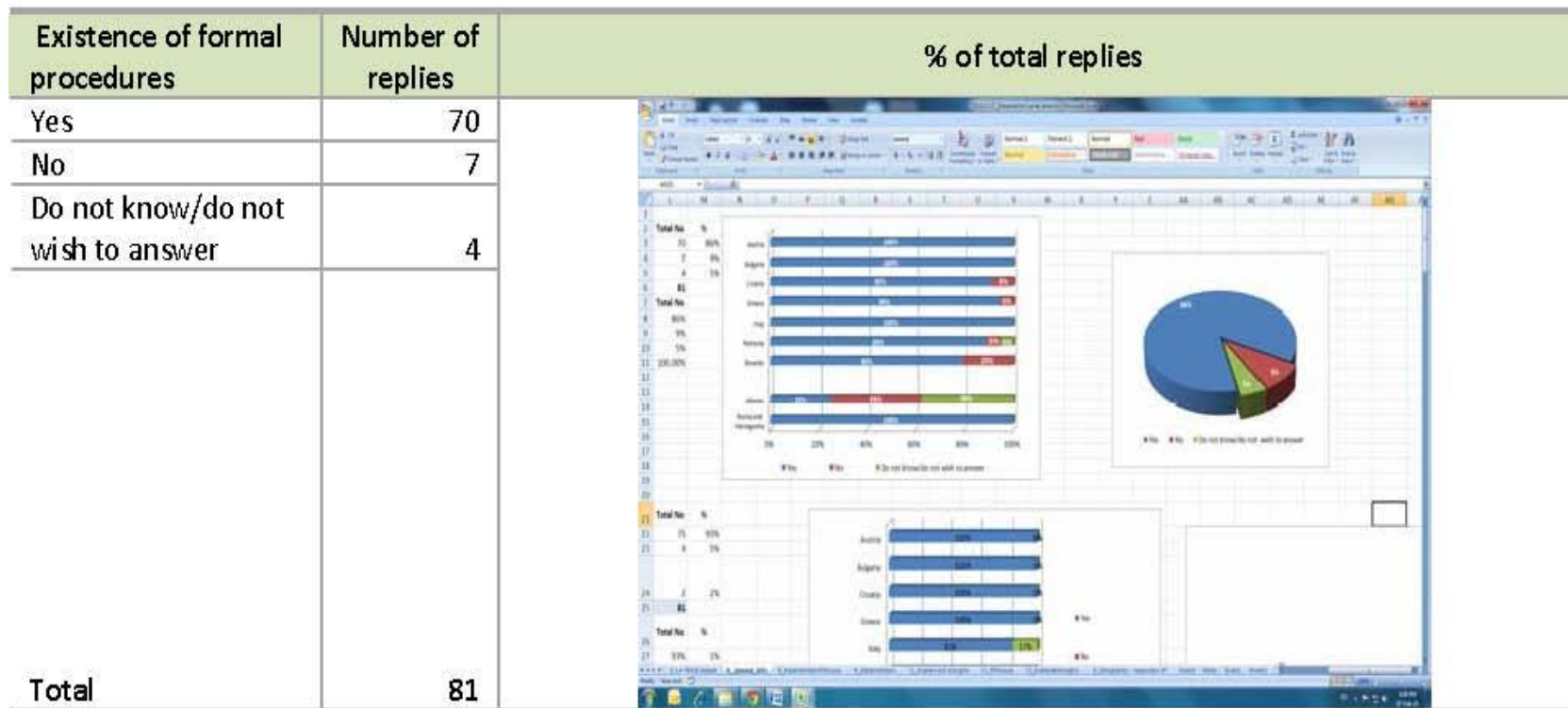
Sub-activity 3.1.4 – on line questionnaire

Figure 4: How many inspections have you personally already carried out?



Sub-activity 3.1.4 – on line questionnaire

Figure 5: Are there any formal procedures (active or not) in your country regarding the inspection of heating and/or air-conditioning systems of buildings?



Source: TRACE Survey Results

Sub-activity 3.1.4 – on line questionnaire

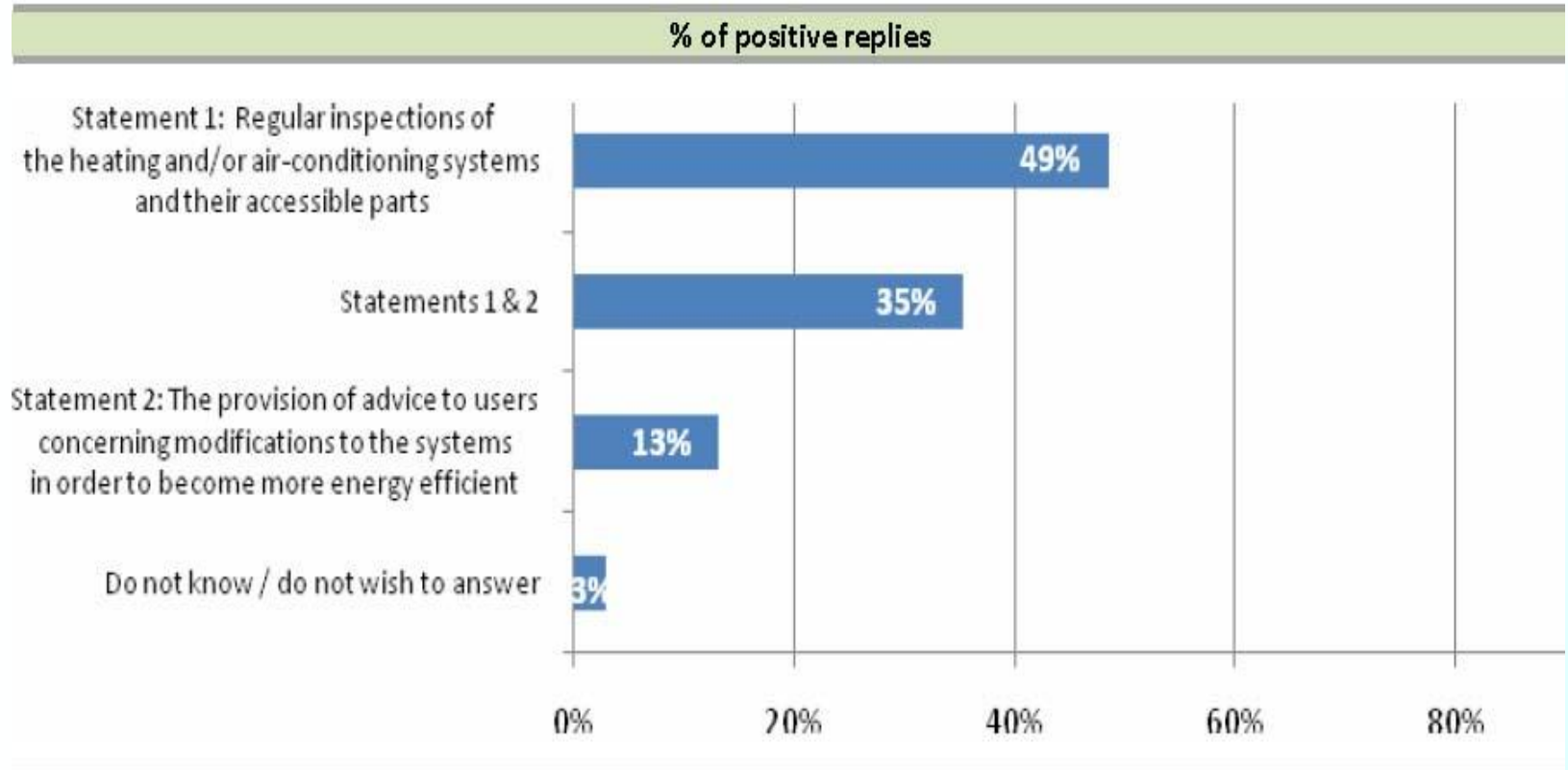
Figure 6: Are you aware of the Energy Performance of Buildings Directive 2010 (EPBD recast) of the European Union (EU) that foresees procedures regarding the inspection of heating and air-conditioning systems?

Awareness of the Energy Performance of Buildings Directive 2010	Number of replies	% of total replies
Yes	75	
No	4	
Do not know/do not wish to answer	2	
Total	81	

Source: TRACE Survey Results

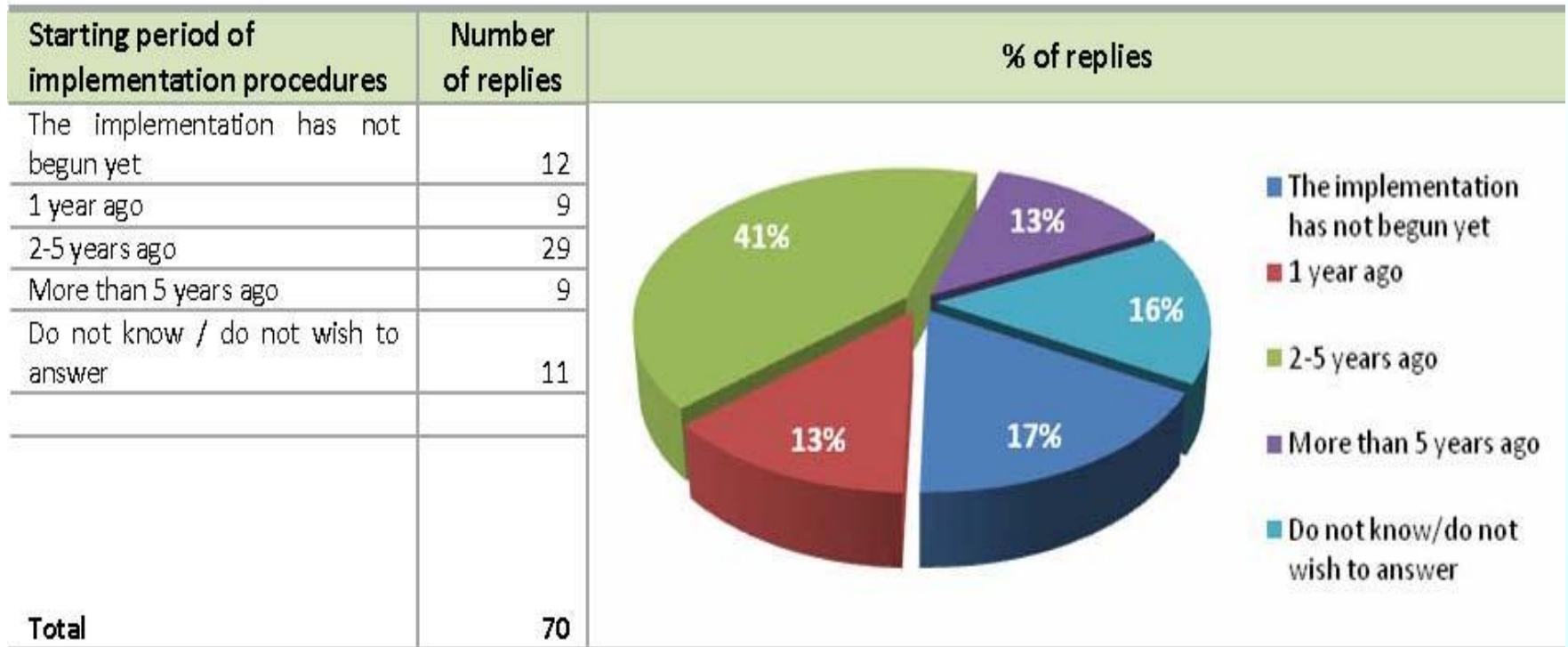
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Figure 7: What do the inspection procedures in your country generally involve?



Sub-activity 3.1.4 – on line questionnaire

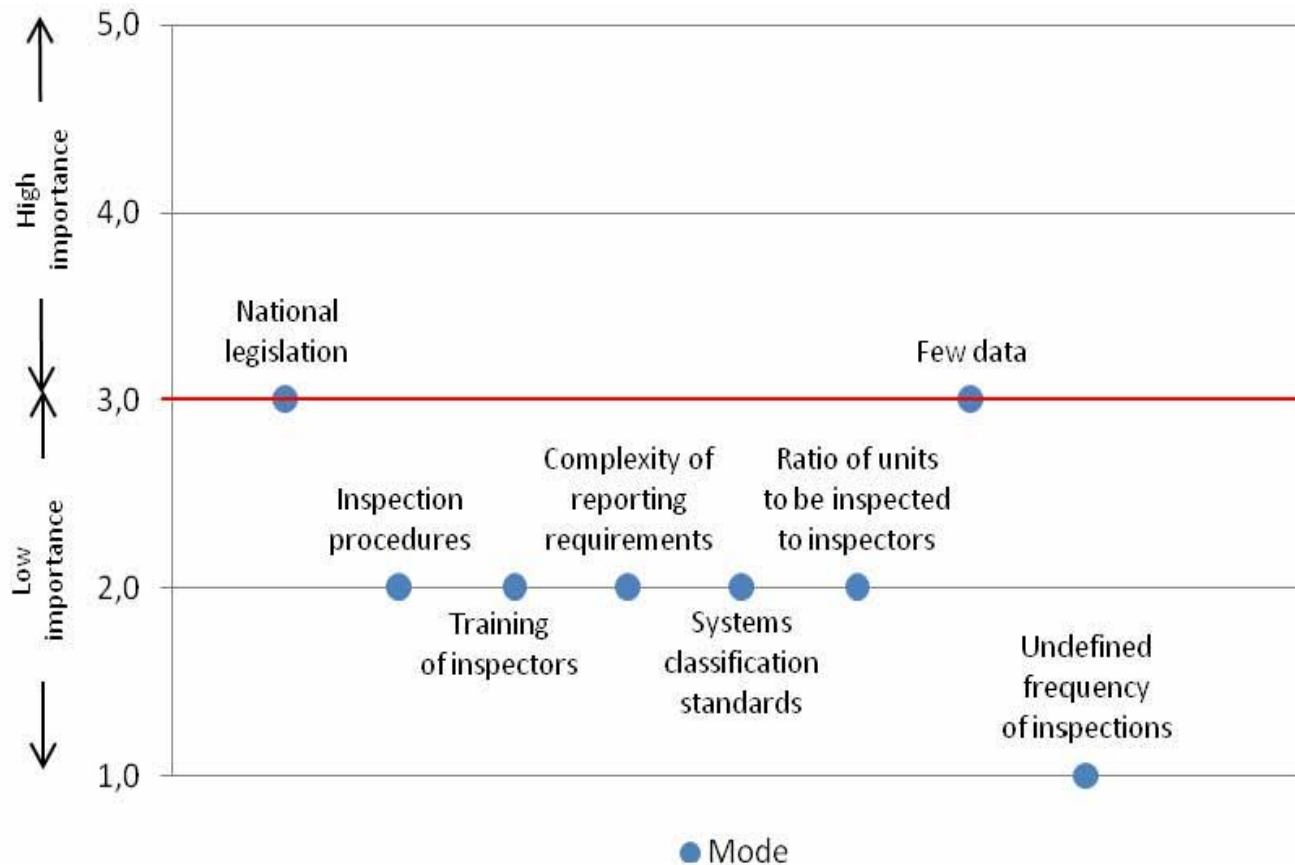
Figure 9: When did implementation of the inspection procedures begin in your country?



Source: TRACE Survey Results

Sub-activity 3.1.4 – on line questionnaire

Figure 10: Evaluation of problems in the inspection procedures of heating and air-conditioning systems – Mode (most often appeared value)

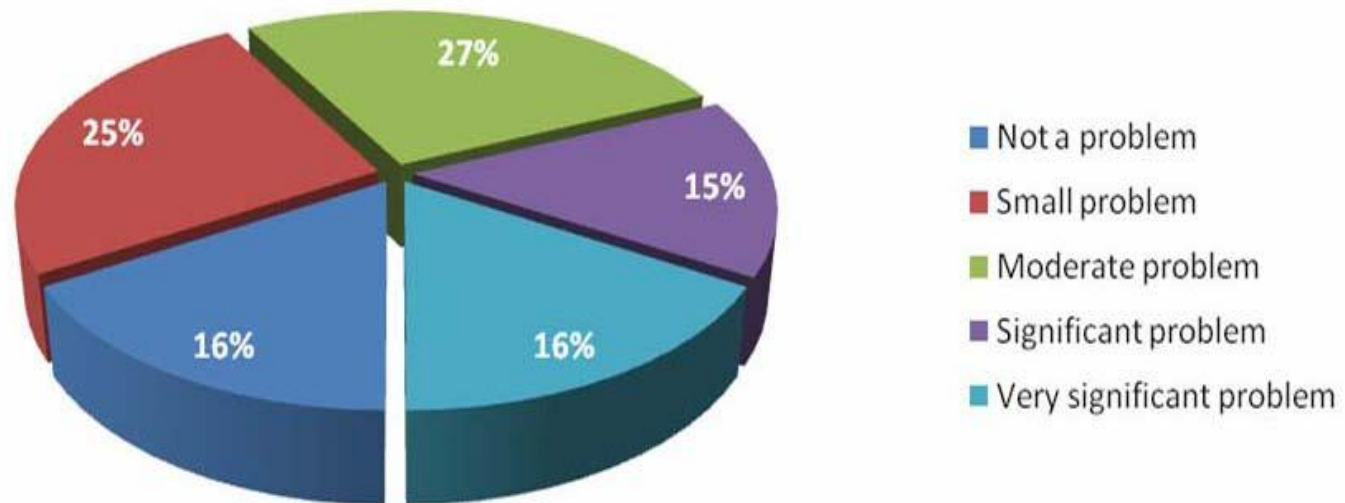


Sub-activity 3.1.4 – on line questionnaire

Figure 12: In your opinion, to what extent are the following factors problems in the implementation of the inspection regarding heating and air-conditioning systems in your country?

(The question refers both to past as well as potential future inspections)

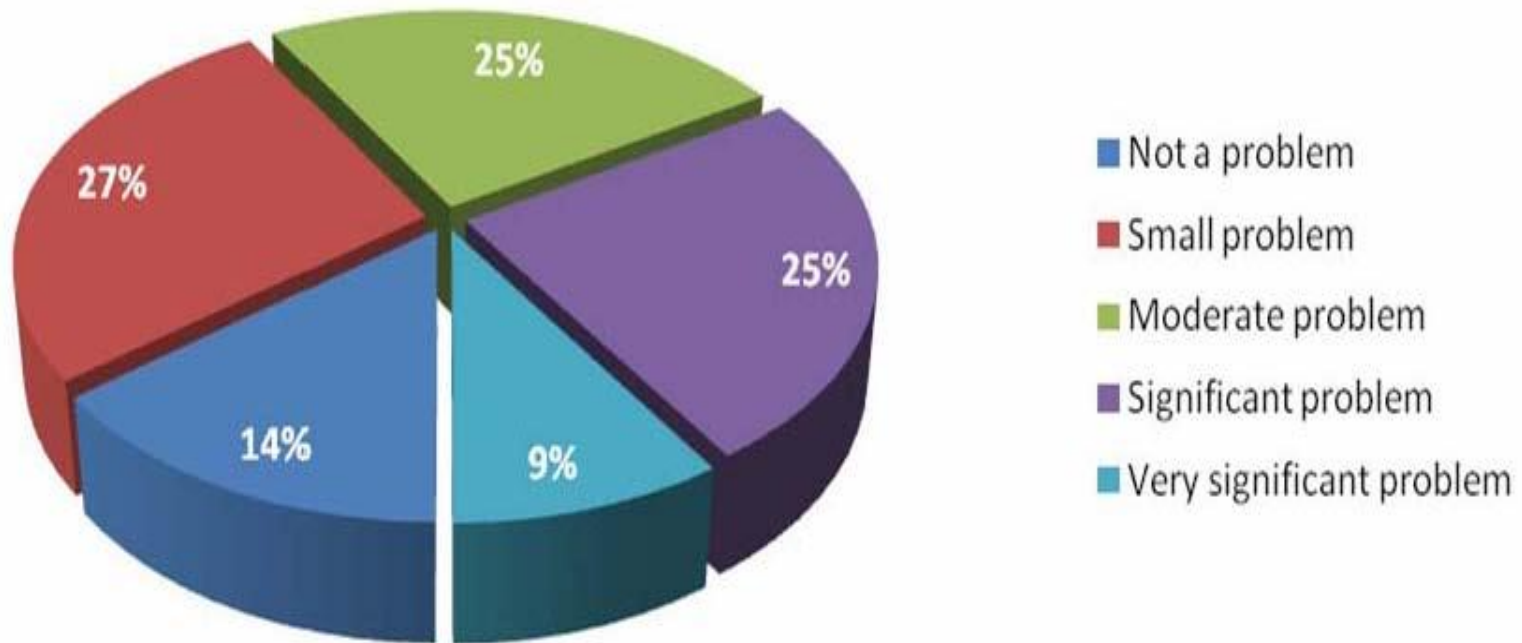
Figure 12.1: Uncertainty and confusion regarding national legislation (% of answers)
(n=79)



Source: TRACE Survey Results

Sub-activity 3.1.4 – on line questionnaire

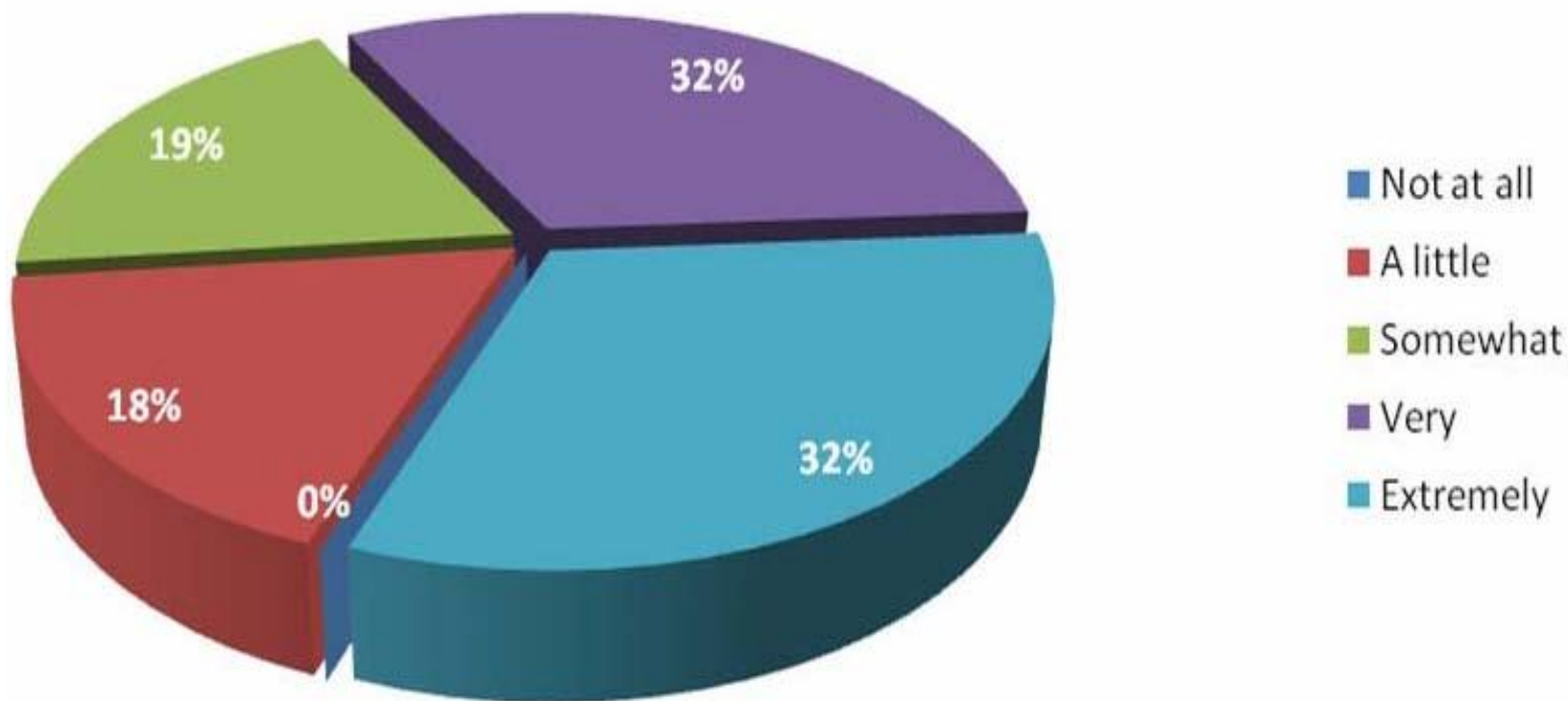
Figure 12.3: Not enough training of the certified inspectors (% of answers)
(n=77)



Source: TRACE Survey Results

Sub-activity 3.1.4 – on line questionnaire

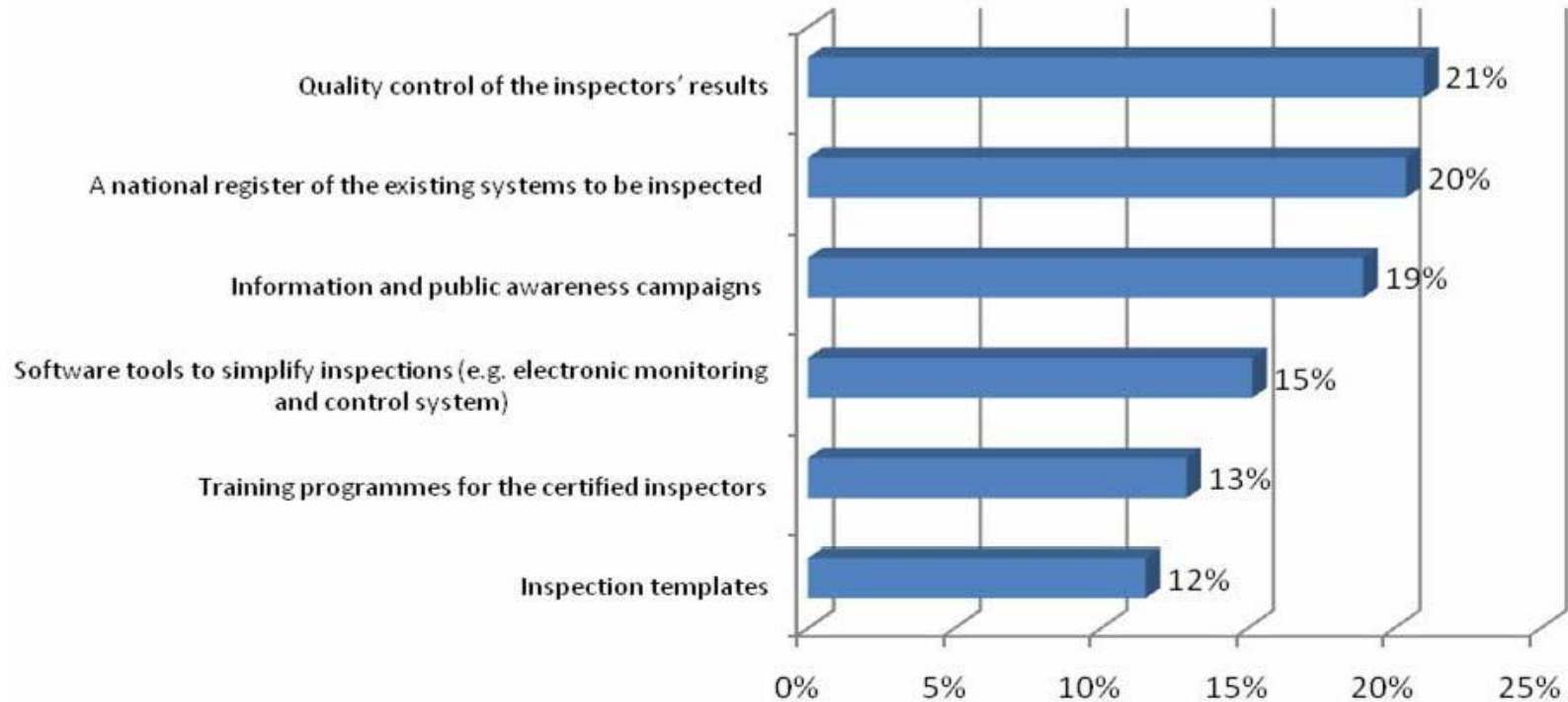
Figure 16.2: Quality control of the inspectors' results (% of answers)
(n=79)



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Figure 17: Ranking of factors that enable the implementation of the inspection of heating and air-conditioning systems based on degree of importance

(% of respondents who found the specific factors more important than the others)
(n= 81)



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Key findings:

- The majority of the respondents are aware of the EU and national legislation in the field.
- **2 problems to be solved**
 - **deficient data about installed equipment and**
 - **uncertainty and confusion regarding national legislation**

Thank you !

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