



Supplement to the ILEAnet Report

Law Enforcement Agencies priorities as regards domains requiring more standardization

ILEAnet Report from the study:

Law Enforcement Agencies Requirements for Strengthening Security Research and Innovation – Standards Proposals for RDI projects

About ILEAnet

ILEAnet is a sustainable organizational Law Enforcement Agency (LEA) practitioners network focused on research & innovation addressing LEA challenges, together with a community of individuals interested to exchange and collaborate in this area. By encouraging such discussion between practitioners and experts from academia and industry, the ILEAnet stimulate LEAs' capabilities to influence, develop and take up research, development and innovation (RDI) that is useful and usable for LEAs and thus help them to tackle the major challenges they face. ILEAnet consortium consists of 20 partner organizations from 17 European countries, most of them are LEA practitioners. ILEAnet is financed by Horizon 2020 Secure Societies programme, within the topic: SEC-21 GM 2016-2017 "Pan European Networks of practitioners and other actors in the field of security" – Practitioners (end-users) in the same discipline and from across Europe.

Executive Summary

- One of the requirements in the call “Pan European Networks of practitioners and other actors in the field of security” was that “Practitioners (end-users) in the same discipline and from across Europe can get together (...) to express common requirements as regards innovations that could fill in capability and other gaps and improve their performance in the future”.
- ILEAnet has therefore decided to perform a study aimed at defining common requirements as regards the Research, Development, and Innovation (RDI) projects, based on the ideas, recommendations and suggestions collected from the representatives of LEAs – members of the ILEAnet network and community.
- To avoid duplication of efforts and excessive questioning of respondents, the decision was made to take advantage of the undergoing ILEAnet study *Law Enforcement Agencies priorities as regards domains requiring more standardization* by extending collecting proposals for standards also for the Research, Development and Innovation projects.
- Data collection was based on the question to LEAs: “What standards (or results of standardization) for carrying out Research, Development and Innovation projects in the Security domain would you propose to make their realisation easier and more effective?”
- Respondents were asked to indicate the standards according to their type: Terminology – Material – Product – Technology – Process – Procedure – Service – System. The purpose of standardization was divided into two aspects: enhancement of Performance and Interoperability.
- 34 various proposals for standards were received and then, during data processing, assigned to the following fields and areas.

Fields	Areas
General Standards for Security RDI Domain	Administration and support
Standards for Security RDI Project Management	Project management
Standards for Security RDI Project Intake Process	Project initiation
Standards for Security RDI Project Realisation	Project execution
Standards for Security RDI Project Uptake Process	Dissemination
	Exploitation
	Commercialisation

- The requirements identified by ILEAnet enabling better LEAs involvement in Research, Development and Innovation projects should be integrated into the future Content Programming of the Horizon Europe as well as its Executive Regulations.

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Background

In Horizon 2020 Work Programme 2016 – 2017, Secure societies – Protecting freedom and security of Europe and its citizens, in the call Pan European Networks of practitioners and other actors in the field of security “practitioners (end-users) in the same discipline and from across Europe were invited to get together to:

- monitor research and innovation projects, with a view to recommending the uptake of the industrialisation of results,
- express common requirements as regards innovations that could fill in capability and other gaps and improve their performance in the future,
- indicate priorities as regards domains requiring more standardization¹”.

In this report, ILEAnet presents the common requirements as regards innovations that could help the Law Enforcement Agencies (LEAs) to improve their performance in the future.

The document constitutes a supplement to the previously issued ILEAnet Report: *Law Enforcement Agencies priorities as regards domains requiring more standardization*.

¹ https://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-security_en.pdf (access: 29th of March 2022).

Methodology

ILEAnet Approach

In the Report from the Study: *Law Enforcement Agencies priorities as regards domains requiring more standardization* (later in the text referred to as “ILEAnet Standardization Study”), ILEAnet presented its findings on the future standards proposals indicated by LEAs in four operational fields: Migration, Cybercrime, Serious & Organised Crime, Terrorism. The report was prepared in realisation of the task “to indicate priorities as regards domains requiring more standardization”, as mentioned in the Horizon 2020 Call for Proposals. Considering the task “to express common requirements as regards innovations that could fill in capability and other gaps and improve LEAs performance in the future”, the decision was made to take advantage of the undergoing ILEAnet Standardization Study and to extend collecting proposals for standards also for the study on *Law Enforcement Agencies Requirements for Strengthening Security Research and Innovation – Standards Proposals for RDI projects* (later in the text referred to as “ILEAnet RDI Study”). In line with the ILEAnet approach, the implementation of this task was possible with the following assumptions:

- although the standards are voluntary, they are based on requirements,
- a requirement is defined as a necessity or prerequisite; something required or obligatory,
- the term “standard” stands for a set of requirements that are widely agreed upon.

The advantage of this approach was, on the one hand, avoiding duplication of efforts when conducting separate surveys, and, on the other hand, avoiding excessive questioning of respondents (here representatives of LEAs).

Aim and Objective of the Study

The aim of the ILEAnet RDI Study was to express common requirements as regards the RDI projects, based on the ideas, recommendations and suggestions collected from the representatives of LEAs – members of the ILEAnet network and community. The objective was to find out what the factors that may enable the LEAs to participate in the RDI projects more effectively are and thus to improve their performance in the future. To this end, the LEAs representatives participating in the ILEAnet RDI Study were expected to indicate their suggestions with a view to the various areas of RDI projects operation, as well as diverse types of standards and purposes of standardization.

Areas of RDI Projects Operation

In the ILEAnet RDI Study, the following areas (stages) of Research, Development and Innovation projects were considered:

- Project management – processes of planning, control, and coordination of all aspects of a project to achieve the agreed objectives,
- Project initiation – identification of the problem, definition of a solution to be built and delivered by the project, formation of the project team,
- Project execution – actual work towards the outputs and deliverables of a project,
- Dissemination – methods and ways of presenting and sharing the project results,
- Exploitation – evaluation of the project results for operational purposes or in public policymaking,
- Commercialisation – process of making project results available to the market,
- Administration and support – all range of activities that support the RDI project management, initiation, execution, dissemination, exploitation and commercialisation.

Types of Standards

Like in the ILEAnet Standardization Study, the LEAs representatives were asked to indicate their suggestions with a view to the following types of standards:

- Terminology – the technical or specific terms used in a business or area,
- Material – an element, constituent, or substance of which something is composed or can be made,
- Product – something that is made or grown to be sold or used,
- Technology – a machine, piece of equipment, method, etc., that is created by practical application of knowledge in a particular area,
- Process – a series of actions that produce something or that lead to a particular result,
- Procedure – an established or accepted way of doing something in a series of steps followed in regular definite order,
- Service – useful labour that does not produce a tangible commodity,
- System – a regularly interacting or interdependent group of items forming a unified whole.

Purpose of Standardization

The purpose of standardization was also defined similarly to the ILEAnet Standardization Study:

Performance

- Safety – less risk of damages of lives, health, goods, etc.,
- Quality – higher degree of excellence of the LEAs services,
- Transparency – more trustful, fair and honest way of LEAs operations,

- Efficiency – reduced amount of LEAs time, money and effort.

Interoperability

- Semantic – common understanding of operations/data to exchange,
- Syntax – unified context of operations/format for data to exchange,
- Transmission – compatible technical tools for cooperation/exchange of data,
- Protocol – single set of rules of cooperation/exchange of data.

Activities and Timelines

The activities and timelines in the ILEAnet RDI Study are presented in the order: **Action** – (Who) – Purpose – *Date*.

- **Initial open session** – (ILEAnet Community) – Open discussion on standardization within the ILEAnet Community – *14th of December 2020*,
- **Experts panel** – (ILEAnet Steering Committee) – General presentation on standardization followed by a discussion of the first findings – *17th of December 2020*,
- **Summary and data aggregation** – (WP4) – Preparation of the Questionnaire for Steering Committee (SC) Members to get their ideas – *January 2021*,
- **The first round of information gathering** – (ILEAnet Steering Committee) – The first list of future areas for standardization proposed by SC Members – *February-March 2021*,
- **Summary and data aggregation** – (WP4) – Preparation of the Questionnaire for ILEAnet National Contacts (INCs) to get their ideas – *March 2021*,
- **The second round of information gathering** – (ILEAnet National Contacts) – Request to INCs to comment and complement the first list of the proposals for future standards – *April 2021*,
- **Open panel session** – (ILEAnet National Contacts) – Final discussion with INCs on the list of the proposals for future standards – *6th of May 2021*,
- **Summary and data aggregation** – (WP4) – Preparation of the presentation for Public Workshop 4 – *May-June 2021*,
- **Plenary session** – (ILEAnet Public Workshop 4 participants) – Presentation of the LEAs standards proposals for RDI projects – *11th of June 2021*,
- **Indicating LEAs standards proposals for RDI projects** – (WP4) – Fine-tuning of the results obtained during the above items – *January-April 2021*.

Relation Between Methodologies in the ILEAnet Standardization and RDI Studies

The methodology implemented for the ILEAnet Standardization Study consisted of 5 steps:

- Preparatory stage – analysis of the standardization goals in Horizon 2020 Secure Societies,
- Data collection – gathering of proposal for standards,
- Data processing – defining domains based on the similarity of the proposals,
- Prioritisation – positioning of the domains in terms of importance and urgency,
- Comparative analyses – comparisons of the identified domains against the existing EU Standards and the Calls in Horizon 2020 Secure Societies Work Programmes.

Considering the needs of ILEAnet RDI Study, only two steps from the original ILEAnet methodology could be conducted in parallel:

- Data collection – gathering of proposal for standards,
- Data processing – defining domains based on the similarity of the proposals.

The graph below shows the relations between methodologies for the ILEAnet Standardization Study and the ILEAnet RDI Study (the latter is highlighted in green).

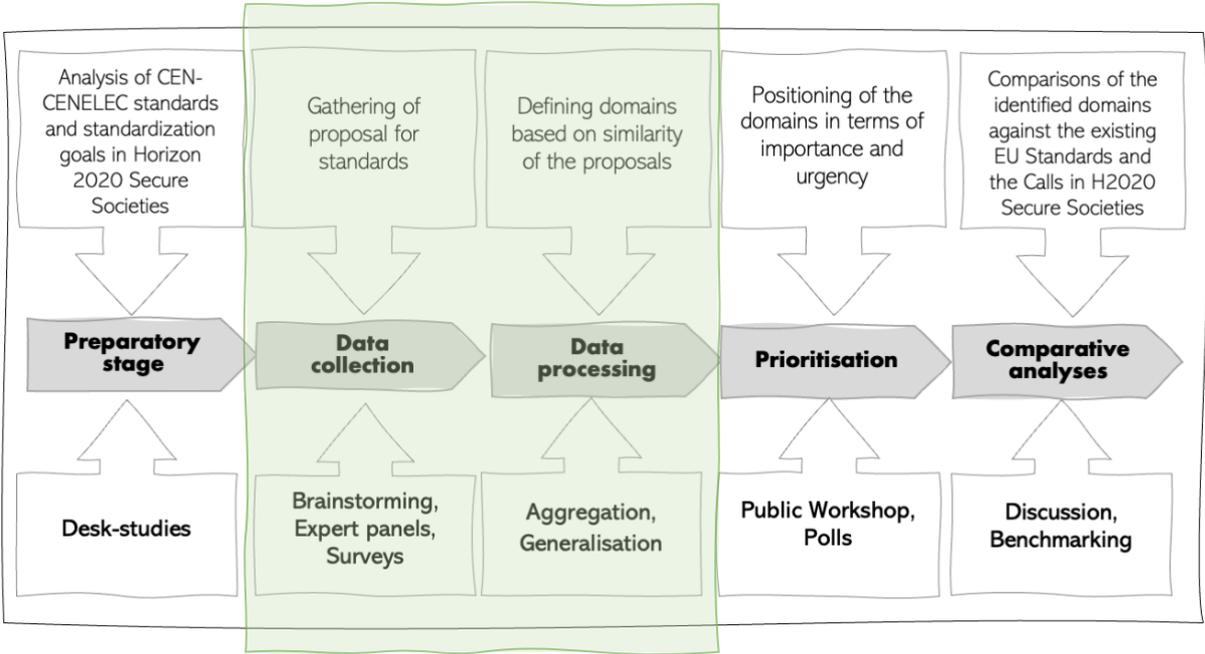


Fig. 1. Relation Between Methodologies in the ILEAnet Standardization Study and the RDI Study (marked in green)

Data Collection and Processing

Taking all the methodological assumptions mentioned above into account, the ILEAnet way of identifying common innovation requirements that could fill the capacity and other gaps and improve LEA performance in the future was based on the following question to LEAs representatives:

What standards (or results of standardization) for carrying out Research, Development and Innovation projects in the Security domain would you propose to make their realisation easier and more effective?

In the ILEAnet RDI Study, the request for the proposals for standards for the Security RDI projects was addressed to the same groups as in the ILEAnet Standardization Study. They were the ILEAnet Steering Committee, ILEAnet National Contacts, and the LEAs' representatives – members of the ILEAnet Community. As a result, 34 responses from several Member States (AUT, FRA, GER, IRL, ISR, LAT, ITA, ROM, SVK) were received. The collected data were then linguistically unified and the proposals for standards that were similar in genre and scope were grouped into the areas. Finally, in the process of generalisation the areas with the proposals for standards were assigned to more general fields, such as:

- General Standards for Security RDI Domain,
- Standards for Security RDI Project Management,
- Standards for Security RDI Project Intake Process,
- Standards for Security RDI Project Realisation,
- Standards for Security RDI Project Uptake Process.

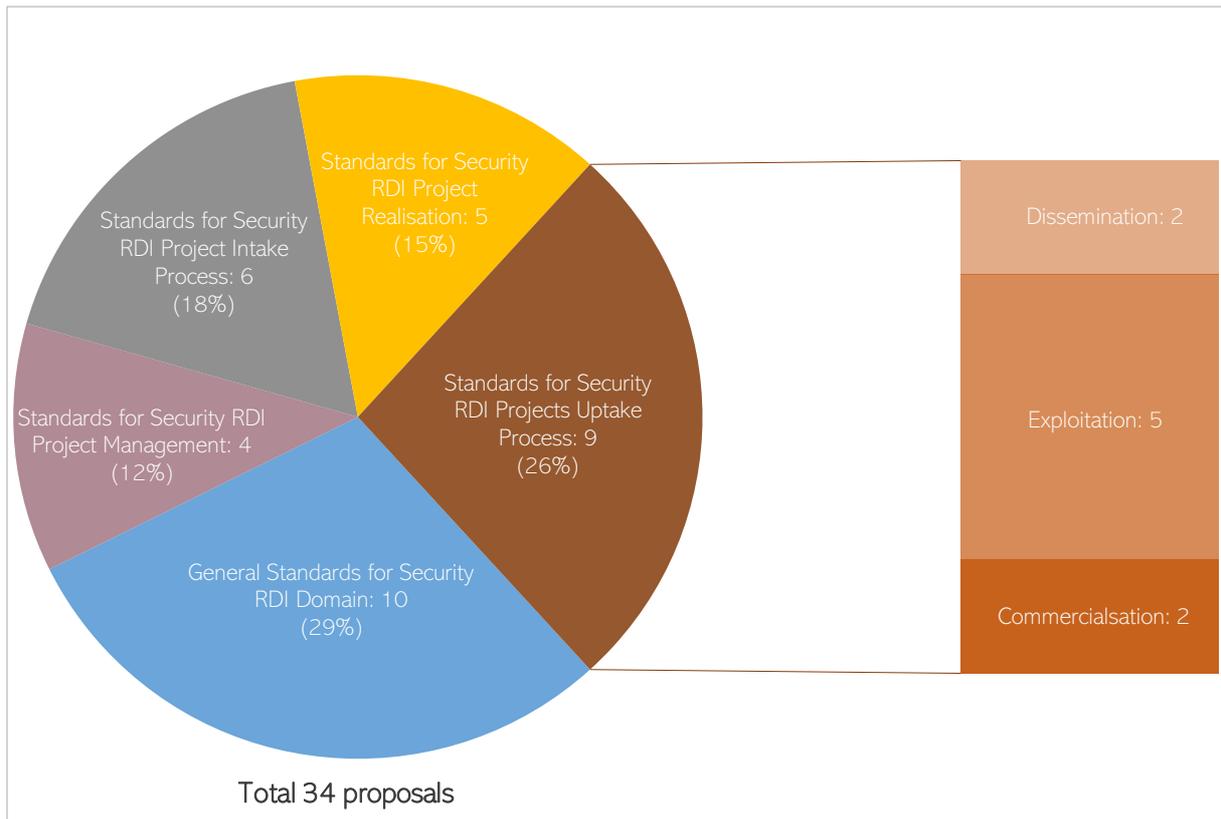
Results

Quantitative Data

Below, the statistical data from the ILEAnet RDI Study is presented in the form of diagrams followed by tables, in the following order:

- Fields, Areas and Proposals,
- Areas vs. Types of Standards,
- Areas vs. Purpose of standards/Performance,
- Areas vs. Purpose of standards/Interoperability.

Fields, Areas and Proposals

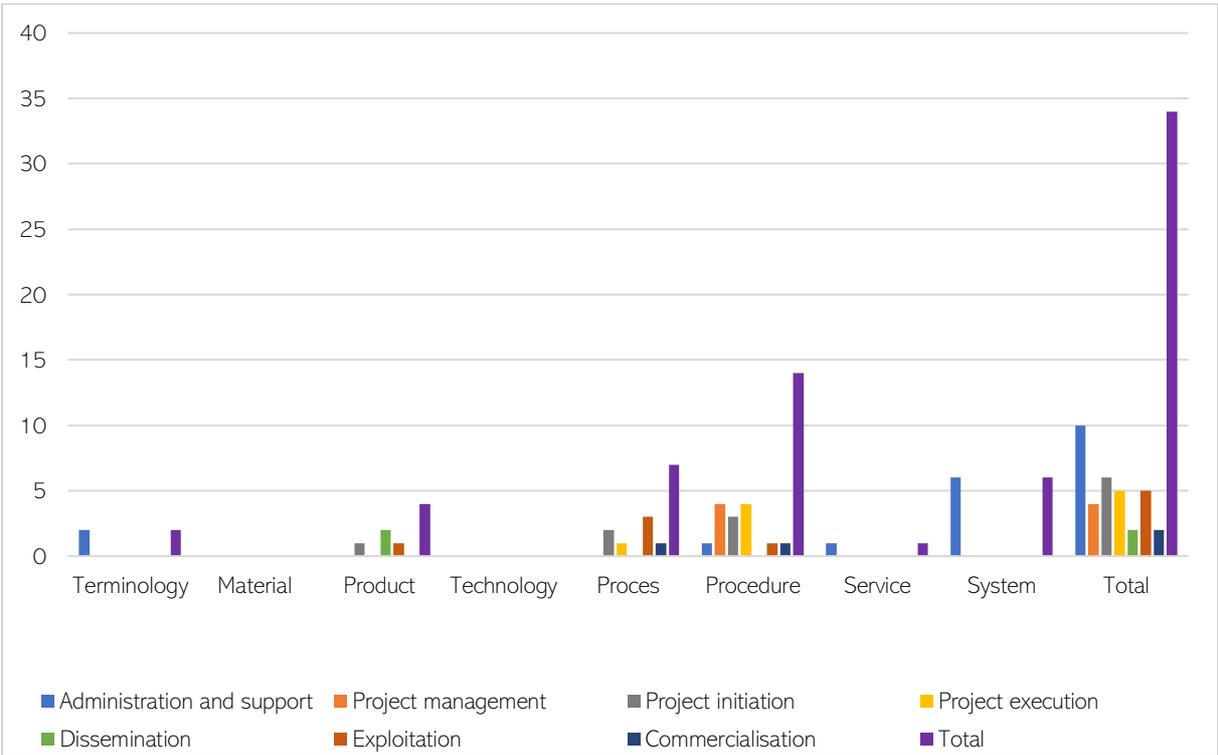


Fields	Areas	Proposals
General Standards for Security RDI Domain	Administration and support	10
Standards for Security RDI Project Management	Project management	4
Standards for Security RDI Project Intake Process	Project initiation	6
Standards for Security RDI Project Realisation	Project execution	5
Standards for Security RDI Project Uptake Process	Dissemination	2
	Exploitation	5
	Commercialisation	2
Total		34

Fig. 2. 3. Fields, Areas and Proposals

The largest number of proposals for standards dealt with the area of *Administration and support* in the field *General Standards for Security RDI Domain* (29%). The second choice was the field *Standards for Security RDI Projects Uptake Process* (26%), which consisted of five proposals in *Exploitation*, and two items in both areas of *Dissemination* and *Commercialisation*. The rest of the proposals were distributed as follows: *Standards for Security RDI Project Intake Process* (18%), *Standards for Security RDI Project Realisation* (15%) and *Standards for Security RDI Project Management* (12%).

Areas vs. Types of Standards

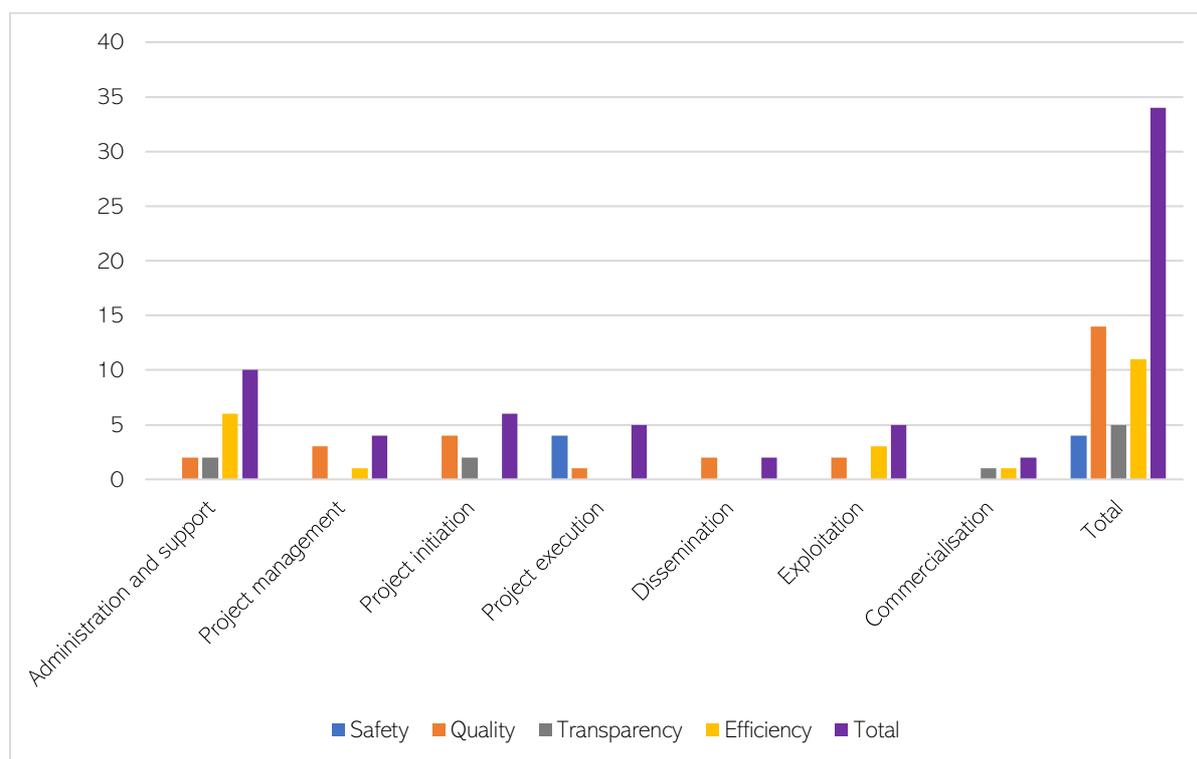


Area \ Type	Administration and support	Project management	Project initiation	Project execution	Dissemination	Exploitation	Commercialisation	Total
Terminology	2	0	0	0	0	0	0	2
Material	0	0	0	0	0	0	0	0
Product	0	0	1	0	2	1	0	4
Technology	0	0	0	0	0	0	0	0
Process	0	0	2	1	0	3	1	7
Procedure	1	4	3	4	0	1	1	14
Service	1	0	0	0	0	0	0	1
System	6	0	0	0	0	0	0	6
Total	10	4	6	5	2	5	2	34

Fig. 4. 5. Areas vs. Types of Standards

The largest number of proposals for type of standards concerned the *Procedure* type, which was almost evenly distributed over the areas. The second choice of the type of standard was the *Process*, but the number of proposals was only half of the first choice. On a comparable level to the latter one the respondents submitted proposals for the *Systems*, and it might be noteworthy that all of them were in the area of *Administration and support*. The *Products*, *Terminologies* and *Services* scored the lowest numbers, and the respondents didn't send any proposal for *Material* and *Technology* types of standards.

Areas vs. Purpose/Performance

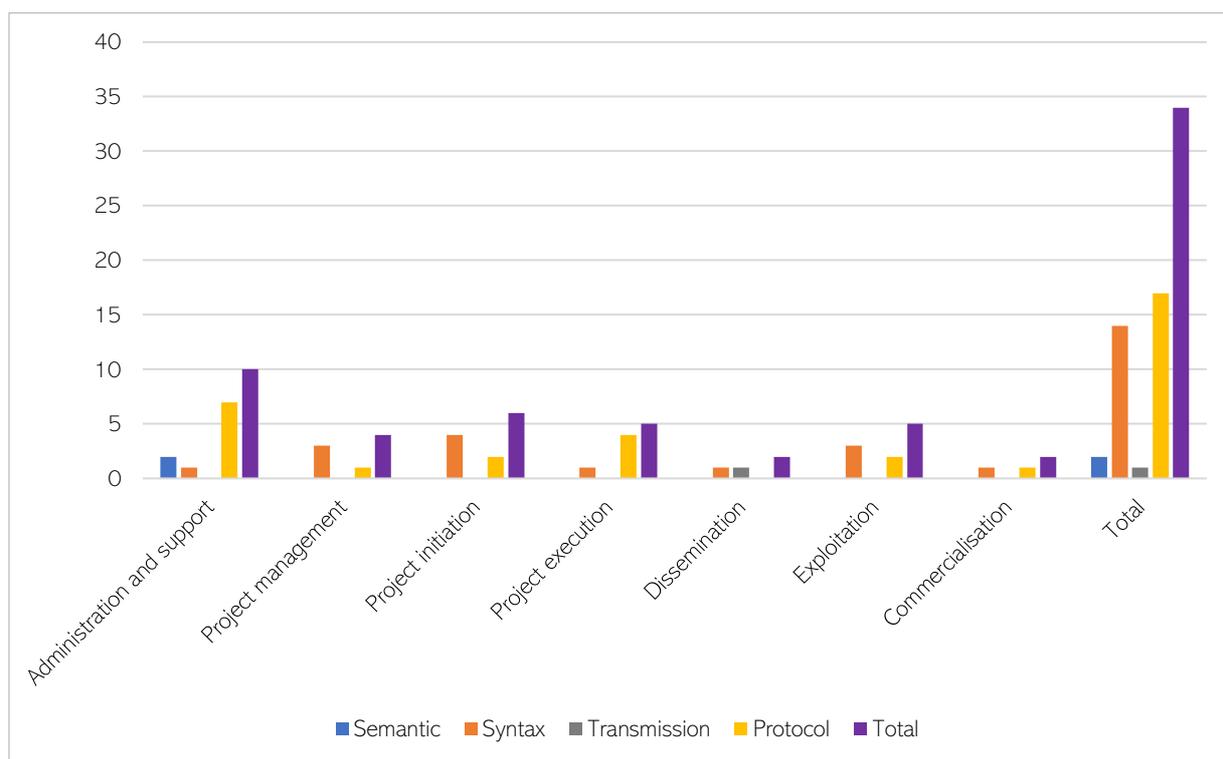


Area \ Performance	Administration and support	Project management	Project initiation	Project execution	Dissemination	Exploitation	Commercialisation	Total
Safety	0	0	0	4	0	0	0	4
Quality	2	3	4	1	2	2	0	14
Transparency	2	0	2	0	0	0	1	5
Efficiency	6	1	0	0	0	3	1	11
Total	10	4	6	5	2	5	2	34

Fig. 6. 7. Areas vs. Purpose/Performance

As far as the purpose of standardization is concerned, when it goes to Performance, the largest number of proposals were related to raising the *Quality* of RDI projects. The distribution of the proposals for the individual areas started from four in *Project initiation* and then it was almost uniform in the other areas, except *Commercialisation* which was not indicated by any respondent. The aspects of increasing *Efficiency* ranked a bit lower than *Quality*, but with a substantial number of proposals related to area of *Administration and support*. *Transparency* brought a number of proposals allowing for the third place. Only a few proposals were related to *Safety*, but it must be noted that all of them were related to the *Project execution* area.

Areas vs. Purpose/Interoperability



Area \ Performance	Administration and support	Project management	Project initiation	Project execution	Dissemination	Exploitation	Commercialisation	Total
Semantic	2	0	0	0	0	0	0	2
Syntax	1	3	4	1	1	3	1	14
Transmission	0	0	0	0	1	0	0	1
Protocol	7	1	2	4	0	2	1	17
Total	10	4	6	5	2	5	2	34

Fig. 8.9. Areas vs. Purpose/Interoperability

In the context of Interoperability, the largest number of proposals dealt with standardization of *Protocols*, whilst *Syntax* scored second place. As it goes to *Protocols* itself, it is worth mentioning the standout number of proposals for the *Administration and support* area. Also, all the *Semantic* proposals were for the area of *Administration and support*, but the total number of them was significantly lower. The last choice of respondents was *Transmission*, with only one proposal in the area of *Dissemination*.

Qualitative Data

Important note:

In the process of data collection and processing (aggregation and generalisation), the areas of RDI projects operation, types of standards, and the purpose of standardization as for performance and interoperability were determined as they seemed "the most likely" or "the most representative" for the proposals for standards, but this does not mean that they are limited to them only. In practice they may correspond with the other fields, areas, types, and purposes too.

LEAs Standards Proposals for RDI Projects

The table below summarizes all proposals obtained in the ILEAnet RDI Study.

Field	Proposals for Standards	Area	Type	Goal/ Performance	Goal/ Interoperability
I. General standards for Security RDI Domain	1. Standardized system for monitoring the Security RDI Domain and alerting LEAs when relevant RDI Projects start and are about to finish	Administration and support	System	Efficiency	Protocol
	2. Standardized system for coordination of the Security RDI Projects	Administration and support	System	Efficiency	Protocol
	3. Standardized definition and EU framework related to "collaborative platforms" to be used in Security RDI Projects	Administration and support	Terminology	Quality	Semantic
	4. Standard for establishment and operations of the Pan-European virtual laboratory for testing project results in the Security RDI Domain	Administration and support	System	Efficiency	Protocol
	5. Standardized Pan-European database of the scenarios for the field tests in the Security RDI Domain	Administration and support	System	Efficiency	Protocol
	6. Common database collecting use cases on several themes (terrorist attack, cyber-attack, etc.) to be used in the Security RDI Domain	Administration and support	System	Efficiency	Protocol

	7. Building common definitions in the Security RDI Domain by the relevant experts in research and from LEAs	Administration and support	Terminology	Quality	Semantic
	8.. Unified practice of translation of Security RDI Projects materials using machine/automated translation	Administration and support	Service	Efficiency	Syntax
	9.. Standardized joint procurement procedures enabling purchasing products for the Security RDI Projects realisation as well as buying the Projects results	Administration and support	Procedure	Transparency	Protocol
	10. Unified set of regulations regarding unitary payment, at a European level, of LEA personnel involved in Security RDI Projects	Administration and support	System	Transparency	Protocol
II. Standards for Security RDI Project management	1. Best practices guidelines for Security RDI Projects	Project management	Procedure	Quality	Syntax
	2. Project management guidelines for LEAs participating in Security RDI Projects	Project management	Procedure	Quality	Syntax
	3. Standardization of the work packages management procedures for Security RDI Projects	Project management	Procedure	Quality	Syntax
	4. Standardized channels and ways of communication between Consortium members in Security RDI Projects	Project management	Procedure	Efficiency	Protocol
III. Standards for Security RDI Projects' intake process	1. Unified methodology for LEAs to identify the need for Security RDI projects	Project initiation	Process	Transparency	Protocol
	2. Common guidelines for LEAs on progressing from the initial idea or need to the submission of a proposal for the Security RDI Projects	Project initiation	Procedure	Quality	Syntax
	3. Common guidelines for applicants on designing LEAs' participation in the Security RDI project proposal	Project initiation	Procedure	Quality	Syntax
	4. Unified templates for LEAs to decide in which Security RDI projects to participate	Project initiation	Product	Quality	Syntax

	5. Unified guidelines for LEAs joining Security RDI Projects' consortia	Project initiation	Procedure	Quality	Syntax
	6. Common methodology for involving LEAs and researchers in Security RDI Projects	Project initiation	Process	Transparency	Protocol
IV. Standards for Security RDI Projects' realisation	1. Security and confidentiality standards for collaborative platforms in Security RDI Projects	Project execution	Procedure	Safety	Protocol
	2. Standardized approach for the integration of new members in restricted areas of collaborative platforms in the Security RDI Domain	Project execution	Process	Safety	Protocol
	3. Common guidelines on how to design and carry out a proof of concept or use case scenario in Security RDI Projects with LEAs' involvement	Project execution	Procedure	Quality	Syntax
	4. Standardized procedure of making operational data usable for Security RDI projects (standard for data anonymisation)	Project execution	Procedure	Safety	Protocol
	5. Best practice guidelines for data sharing by LEAs with third parties (academia, industry) in Security RDI Projects	Project execution	Procedure	Safety	Protocol
V. Standards for Security RDI Projects' uptake process	1. Unified program for reporting, visibility and sharing Security RDI Projects results	Dissemination	Product	Quality	Transmission
	2. Standardized form of presentation of the results and outputs of different Security RDI Projects	Dissemination	Product	Quality	Syntax
	3. Unified set of indicators for uptake of the Security RDI Projects results by LEAs	Exploitation	Process	Efficiency	Syntax
	4. Common dataset for testing and validation of tools and methodologies supporting Security RDI Projects and training initiatives	Exploitation	Product	Efficiency	Syntax
	5. Procedures for evaluation of the tools & APIs (application programming interfaces) created in Security RDI Projects	Exploitation	Procedure	Quality	Syntax

	6. Standard for testing and validation of the products offered to LEAs (as a result of Security RDI Projects)	Exploitation	Process	Efficiency	Protocol
	7. Unified methodology for the final evaluation of Security RDI Projects outputs	Exploitation	Process	Quality	Protocol
	8. Standardized approach for the development of a reference catalogue of devices and solutions delivered as the results of Security RDI projects	Commercialisation	Process	Transparency	Syntax
	9. Common database and management rules for working technologies and Security RDI Projects' outputs/demos	Commercialisation	Product	Efficiency	Protocol

Fig. 10. LEAs Standards Proposals for RDI Projects

Conclusions

The ILEAnet RDI Study was carried out among LEAs representatives in order to define and express their requirements as regards the Research, Development and Innovation projects in the Security Domain, to make their realisation easier and more effective. As a result, 34 proposals for standards were received, which represented seven various areas of the RDI project operations: Administration and support, Project management, Project initiation, Project execution, Dissemination, Exploitation and Commercialisation of the project results. During data processing the proposals were grouped according to the following fields: General Standards for Security RDI Domain, Standards for Security RDI Project Management, Standards for Security RDI Project Intake Process, Standards for Security RDI Project Realisation, Standards for Security RDI Project Uptake Process. To summarize, there is a wide diversity of proposals obtained in the Study, and all of them favour the involvement of LEAs in RDI projects.

In 2021, the European Commission introduced Horizon Europe, its new research programme. A part of Horizon Europe is Civil Security for Society Work Programme². It has been divided into six directions: Better Protect the EU and Its Citizens Against Crime and Terrorism, Effective Management of EU External Borders, Resilient Infrastructure, Increased Cybersecurity, Disaster-Resilient Society for Europe and Strengthened Security Research and Innovation. When it goes to the feasibility of implementing the results of the ILEAnet RDI Study, the latter one is particularly important. Therefore, the requirements identified by ILEAnet enabling better LEAs involvement in Research, Development and Innovation projects should be integrated into the process of the content programming of the Horizon Europe Civil Security for Society Work Programme as well as its Executive Regulations.

² https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-6-civil-security-for-society_horizon-2021-2022_en.pdf (access: 15th of April 2022).

ANNEX

ILEAnet Questionnaire for Data Collection

Standardization – ILEAnet Questionnaire

Background

Horizon 2020 SEC-21 GM 2016-2017 “Pan European Networks of practitioners and other actors in the field of security” calls for, among others, indicating priorities as regards domains requiring more standardization.

What is a standard?

Standard sets out requirements for a specific item, material, component, system or service, or describes in detail a particular method or procedure. It can include requirements and/or recommendations in relation to products, systems, processes or services. It can also be a way to describe a measurement or test method or to establish a common terminology within a specific sector. Standards bring benefits in terms of enhancing performance and/or interoperability by improving safety, quality and transparency, reducing costs, opening markets for business, etc.

What is the questionnaire for?

The goal of this questionnaire is to collect ideas for standards within the four priority areas identified in previous ILEAnet work: Migration, Cybercrime, Serious & Organised Crime, Terrorism, to which has been added about LEAs’ approach to Research, Development and Innovation (RDI). The methodology adopted in this study involves the circulation of the questionnaire to the ILEAnet Members (INCs) to collect their input. All the responses will be captured and structured in a deliverable, which lists standardization domains for security that is expected by the EU Commission.

What is your task?

Please read carefully the below initial examples in 5 different areas, i.e., I. Migration, II. Cybercrime, III. Serious & Organised Crime, IV. Terrorism and V. Involvement of LEA practitioners in RDI projects (on the next 5 pages). Then, please share up to 4 of your ideas in each section about the domains requiring more standardization.

Doing so, it would be also useful if you could specify:

- what type of standard do you have in mind: an item, material, product, technology, method, procedure, process, service, system or common terminology within the area?
- what is an objective of the standard you propose i.e., enhancing LEA’s performance and/or improving interoperability between LEAs and between the EU Member States by raising quality, raising safety, improving transparency, reducing costs, opening markets for businesses.

If necessary, please follow your proposals with short explanations/justifications in more details of what the standards you suggested are about.

Involvement of LEA practitioners in Research, Development and Innovation (RDI) projects

	Suggestions for standards	Type	Objective
Initial examples	Pan-European database of the scenarios of the field tests for end-users in R&D&I projects	Item, System	Performance/Interoperability: quality, opening market for business
Your proposals	1.		

Your explanations: