Standards in the Digital Single Market: setting priorities and ensuring delivery

Fields marked with * are mandatory.

General information on respondents

* Do you wish your contribution to be published?

Please indicate clearly if you do not wish your contribution to be published.

- ◉ YES
- ◯ NO

Submissions that are sent anonymously will neither be published nor taken into account.

The Commission may contact you in case a clarification regarding your submission is needed. If you do not wish to be contacted, please state this clearly in your reply.

I wish to be contacted:

- ◉ YES
- ◯ NO

* I'm responding as:

- ◉ An individual in my personal capacity
- ◯ The representative of an organisation/company/institution

* What is your nationality?

Netherlands	▼

* What is your place of residence?

Netherlands	▼

* What is your name?

```
Dolf
```

* What is your surname?

```
van der Haven
```

* Please enter your email address:

dvdhaven@gmail.com

Please enter your telephone number:

Questions

II.1 Questions on general framework and problem statement

It is of particular interest to understand if the standards currently under development effectively match interoperability and successfully creating a Digital Single Market. In addition, it is especially interesting to identify those actions in standards development that could act as a solution for wider industry and public needs, not limited to the specific technologies that have been standardized.

Please indicate whether you agree to the following statements and explain your answer briefly.

Q1.1 - Do you share the Commission's analysis in Part 2 of this document?

- ○ YES
- ○ PARTLY
- ● NO
- ○ NO OPINION

* Please explain:

```
There is no part 2 in the attached document.
```

Q1.2 - ICT is assuming a greater role in sectors of the economy which were not previously significant users of ICT. How do you see *the role of ICT standards* for the economy, in particular beyond the ICT sector?

○ Very Important
● Important
○ Modest importance
○ Not important
○ No opinion

* Your comment, indicating a specific sector:

> IT Service Management and IT Governance

Q1.3 - Do you agree that setting priorities for ICT standards at EU level, accompanied by clear time-tables, could help standard-setting organisations in better organising their work and support the Digital Single Market?

● YES
○ PARTLY
○ NO
○ NO OPINION

* Please explain why:

> Stimulates standardization bodies to focus on the most relevant things.

Q1.4. - What other steps should be considered to ensure that any such prioritisation would enjoy broad support of key stakeholders?

> Involvement of the end-users in deciding what is important.

Q1.5 - What would be the most effective instrument at EU level to ensure that any such prioritisation is taken up by relevant standard-setting organisations? (please select and rank up to 3 instruments)

	1	2	3
A Commission Communication	●	○	○
A Commission Recommendation	○	○	●
Standardization requests issued to EU standard-setting organisations and included in the Annual Union Work Programme for European standardisation	○	●	○
Regulation	○	○	○
Priorities stated in the Rolling Plan for ICT Standardisation	○	○	○
No opinion	○	○	○
None of them	○	○	○

Your comment:

Q1.6 - What would be the impact of a priority ICT standards plan defined at the level of the EU on Europe's effort *to pursue leadership in global standard-setting*?

● POSITIVE
○ NEUTRAL
○ NEGATIVE
○ NO OPINION

* Please explain:

    Shows strong political support for standardization efforts.

Q1.7 - What would be the impact of a priority ICT standards plan defined at the level of the EU on the ability of European companies *to capture new global market opportunities*?

○ POSITIVE
● NEUTRAL
○ NEGATIVE
○ NO OPINION

* Please explain:

    Market opportunities are commercial; these are not related to
    standardization efforts.

Q1.8 - Besides establishing a priority ICT standards plan, what other measures could the Commission (or other EU institutions) take to ensure that standardisation plays its role in achieving a Digital Single Market?

```
As above: involve the end users.
```

Q1.9 - How should standard-setting organisations best respond to the increasing speed of technological development and the integration of technologies in business processes across all industrial sectors?

A - Regarding the *adaptation of existing standards to new developments:*

```
Speed up development of standards
```

B - Regarding the *introduction of new standards for new technologies/products*:

```
Speed up development of standards
```

Q1.10 - How do you see the involvement of European ICT Standardization experts in international standardisation organisations (ITU, ISO, IEC) and global standard setting organizations (i.e. IEEE, IETF, OASIS, W3C, ECMA international)?

A - The *SCOPE (or LEVEL?) of involvement*:

- ○ Is appropriate
- ● Should be increased
- ○ Should be decreased
- ○ No opinion

Please explain:

```
Too little involvement in standardisation committees.
```

B - The *QUALITY of involvement*:

- ○ Is appropriate
- ○ Should be improved
- ● No opinion

II.2 Questions on priority domains for standardisation in the Digital Single Market

In this section, the Commission invites survey participants to express opinions and ideas on setting priorities for ICT standardisation.

The Commission has identified 10 domains set out below, as well as a set of sub-domains within each domain. Please note that domains and subdomains are interrelated and that overlaps are possible and desirable in particular with respect to synergies between different sectors. Some domains are horizontal and may benefit a large number of sectorial applications; some other domains are more sectorial and were identified as areas where ICT standardisation would bring important benefits.

First check whether the list of domains is complete and relevant. If the list is considered incomplete, please complement it with additional domains that you consider priority.

Q2.1 - Please identify and rank the domains (up to 5) and subsequently subdomains (up to 3 per domain) within each domain that you consider a priority. If specific domains or subdomains are missing please add them.

at most 5 answered row(s)

	1	2	3	4	5
Domain 1: 5G communications	○	●	○	○	○
Domain 2: Cloud computing	○	○	○	○	○
Domain 3: Cybersecurity	○	○	●	○	○
Domain 4: Data driven services and applications	○	○	○	○	○
Domain 5: Digitisation of European Industry	○	○	○	○	○
Domain 6: eHealth and aging	○	○	○	●	○
Domain 7: Intelligent Transport Systems (ITS)	○	○	○	○	●
Domain 8: Internet of Things	○	○	○	○	○
Domain 9: Smart Cities	○	○	○	○	○
Domain 10: Smart and Efficient Energy Use	●	○	○	○	○
Others	○	○	○	○	○

Subdomains of Domain 1: 5G communications

at most 3 answered row(s)

	1	2	3
Architecture definition	●	○	○
Channel model characterisation for innovative usages (e.g. V2V)	○	○	○
Converged control plane (fixed mobile)	○	●	○
Evolved Packet Core (EPC)	○	○	○
Multi domain SDN interoperability	○	○	●
Multi tenancy and multi technology C-RAN	○	○	○
Network slicing	○	○	○
New radio access technologies and waveforms, including backhaul/front haul integration	○	○	○
Resource identification	○	○	○
SDN Northbound interface	○	○	○
Others	○	○	○

Domain 3: Cybersecurity

at most 3 answered row(s)

	1	2	3
Cyber security design requirements	○	○	○
Process standard for incident reporting	○	○	○
Process standard for cyber risk management	●	○	○
Process standard for vulnerability disclosure	○	○	●
Technical standards for encryption	○	○	○
Technical standards for public key infrastructure	○	○	○
Technical standard for security and privacy by design	○	●	○
Others	○	○	○

Domain 6: eHealth and aging

at most 3 answered row(s)

	1	2	3
Drug identifiers for medical prescriptions	○	○	○
ICT infrastructure for the implementation and delivery of services for independent living in age-friendly buildings	●	○	○
Interoperability profiles for independent living (Interoperability profiles describe specific solutions to interoperability in a specific use case scenario. A profile documents how standards will be used in order to achieve interoperability. Profiles ensure implementers and users that they are talking about the same solution without having to restate all the technical details that establish actual interoperability.)	○	○	○
Interoperability profiles for mHealth apps	○	○	○
Quality criteria for health and wellness apps	○	○	●
Security and Safety of mHealth apps	○	○	○
Semantic interoperability of Electronic Health Records	○	●	○
Telemedicine	○	○	○
Others	○	○	○

Domain 7: Intelligent Transport Systems (ITS)

at most 3 answered row(s)

	1	2	3
Access to in-vehicle resources and data	●	○	○
Connected and/or automated driving (Connectivity, Data-Handling, Cybersecurity)	○	●	○
Connected vehicles applications (e.g. Emergency vehicle notification)	○	○	○
eFreight	○	○	○
Service Platforms (for mobility and in-vehicle services) Smart charging solutions for electric vehicles	○	○	●
Multimodal passenger transport systems	○	○	○
European Electronic Toll Service	○	○	○
Others	○	○	○

Domain 10: Smart and Efficient Energy Use

at most 3 answered row(s)

	1	2	3
BIM – Building Information Modelling	○	○	○
Building automation and smart appliances	○	○	○
Electrical vehicles integration with smart grid and home management systems	○	○	○
Energy efficiency indicators	○	○	●
Heating/Cooling networks including heat supply from waste	○	○	○
Interconnection of electricity, gas and heating networks	○	○	○
Interfaces to Storage systems	○	○	○
Lighting	○	●	○
Power electronics	○	○	○
Smart grids, smart metering	●	○	○
Others	○	○	○

Please answer to Q2.2 to Q2.6 <u>for each of the domains selected</u>. In your answer please specify if applicable the subdomains that you have selected.

* Q2.2 - For the ***Domain 1: 5G communications*** and the subdomains which you have selected, please explain briefly how the criteria indicated in Box I apply to them. We copy the criteria for your convenience.

- Link to DSM objectives and other EU policies

- Competitiveness of the European industry

- Clear and achievable targets

- Evidence of market relevance and stakeholders needs

- Domains where standard setting has direct benefits for consumers

```
It is necessary to standardize this domain in order to ensure
Europe-wide interoperability and the same end-user experience.
```

Q2.3 - The Priority ICT standards plan should lead to the production of technical specifications, standards or architectures where there is a need/gap, but could also propose any other type of standardisation action such as landscape analysis, gap finding, roadmaps or, ecosystem building that could contribute to ensure that standardisation plays its role in achieving a Digital Single Market. Please explain if a standardisation need/gap exists in the *Domain 1: 5G communications* and sub-domains which you have selected. Please also indicate within which time-frame such need could be addressed. Please limit to a maximum of five needs/gaps per domain or sub-domain:

Q2.4 - Among those below, which action could be a priority in the *Domain 1: 5G communications* and sub-domains which you have selected.? Please rank the list below and explain your choice.

	1	2	3	4	5	6	7	8	9
• Mandating European Standardisation Organisations (ESOs) for fast delivery of standards/technical specifications.	○	○	○	○	○	○	○	○	○
• Foster cooperation among standards development organisations for ICT priorities	○	○	○	○	○	○	○	○	○
• Support Research & Innovation projects to contribute to standardisation	○	○	○	○	○	○	○	○	○
• Community Building	○	○	○	○	○	○	○	○	○
• Support creation of public-private partnerships - PPP	○	○	○	○	○	○	○	○	○
• Increase strategic coordination of ICT standardisation at EU level.	○	○	○	○	○	○	○	○	○
• Ensure consistent application of existing standards	○	○	○	○	○	○	○	○	○
• Accelerate the identification of ICT technical specifications most commonly used for their reference in public procurement	○	○	○	○	○	○	○	○	○
• Other	○	○	○	○	○	○	○	○	○
• No opinion	○	○	○	○	○	○	○	○	○

Q2.5 - Please indicate any other standardisation initiatives which would help achieving the Digital Single Market in the **Domain 1: 5G communications** and sub-domains which you have selected., and who in the standardisation landscape would be best placed to lead on these initiatives:

Q2.6 - Would your organisation be prepared to invest resources in standard-setting to achieve the priority standards within the proposed time-frames?

Please answer this question only if you are responding as the representative of an organisation/company/institution.

- ○ YES
- ○ YES, provided some conditions are met
- ○ NO
- ○ No opinion

* Q2.2 - For the **Domain 3: Cybersecurity** and the subdomains which you have selected, please explain briefly how the criteria indicated in Box I apply to them.
We copy the criteria for your convenience:

- Link to DSM objectives and other EU policies

- Competitiveness of the European industry

- Clear and achievable targets

- Evidence of market relevance and stakeholders needs

- Domains where standard setting has direct benefits for consumers

```
It is necessary to standardize this domain in order to ensure
Europe-wide interoperability and the same end-user experience.
```

Q2.3 - The Priority ICT standards plan should lead to the production of technical specifications, standards or architectures where there is a need/gap, but could also propose any other type of standardisation action such as landscape analysis, gap finding, roadmaps or, ecosystem building that could contribute to ensure that standardisation plays its role in achieving a Digital Single Market. Please explain if a standardisation need/gap exists in the **Domain 3: Cybersecurity** and the subdomains which you have selected. Please also indicate within which time-frame such need could be addressed. Please limit to a maximum of five needs/gaps per domain or sub-domain:

Q2.4 - Among those below, which action could be a priority in the **Domain 3: Cybersecurity** and the subdomains which you have selected? Please rank the list below and explain your choice.

	1	2	3	4	5	6	7	8	9
• Mandating European Standardisation Organisations (ESOs) for fast delivery of standards/technical specifications.	○	○	○	○	○	○	○	○	○
• Foster cooperation among standards development organisations for ICT priorities	○	○	○	○	○	○	○	○	○
• Support Research & Innovation projects to contribute to standardisation	○	○	○	○	○	○	○	○	○
• Community Building	○	○	○	○	○	○	○	○	○
• Support creation of public-private partnerships - PPP	○	○	○	○	○	○	○	○	○
• Increase strategic coordination of ICT standardisation at EU level.	○	○	○	○	○	○	○	○	○
• Ensure consistent application of existing standards	○	○	○	○	○	○	○	○	○
• Accelerate the identification of ICT technical specifications most commonly used for their reference in public procurement	○	○	○	○	○	○	○	○	○
• Other	○	○	○	○	○	○	○	○	○
• No opinion	○	○	○	○	○	○	○	○	○

Q2.5 - Please indicate any other standardisation initiatives which would help achieving the Digital Single Market in the **Domain 3: Cybersecurity** and the subdomains which you have selected, and who in the standardisation landscape would be best placed to lead on these initiatives:

Q2.6 - Would your organisation be prepared to invest resources in standard-setting to achieve the priority standards within the proposed time-frames?

Please answer this question only if you are responding as the representative of an organisation/company/institution.

- ○ YES
- ○ YES, provided some conditions are met
- ○ NO
- ○ No opinion

*Q2.2 - For the **Domain 6: eHealth and aging** and the subdomains which you have selected, please explain briefly how the criteria indicated in Box I apply to them.
We copy the criteria for your convenience:

- Link to DSM objectives and other EU policies

- Competitiveness of the European industry

- Clear and achievable targets

- Evidence of market relevance and stakeholders needs

- Domains where standard setting has direct benefits for consumers

```
It is necessary to standardize this domain in order to ensure
Europe-wide interoperability and the same end-user experience.
```

Q2.3 - The Priority ICT standards plan should lead to the production of technical specifications, standards or architectures where there is a need/gap, but could also propose any other type of standardisation action such as landscape analysis, gap finding, roadmaps or, ecosystem building that could contribute to ensure that standardisation plays its role in achieving a Digital Single Market. Please explain if a standardisation need/gap exists in the **Domain 6: eHealth and aging** and the subdomains which you have selected. Please also indicate within which time-frame such need could be addressed. Please limit to a maximum of five needs/gaps per domain or sub-domain:

Q2.4 - Among those below, which action could be a priority in the *Domain 6: eHealth and aging* and the subdomains which you have selected? Please rank the list below and explain your choice.

	1	2	3	4	5	6	7	8	9
• Mandating European Standardisation Organisations (ESOs) for fast delivery of standards/technical specifications.	○	○	○	○	○	○	○	○	○
• Foster cooperation among standards development organisations for ICT priorities	○	○	○	○	○	○	○	○	○
• Support Research & Innovation projects to contribute to standardisation	○	○	○	○	○	○	○	○	○
• Community Building	○	○	○	○	○	○	○	○	○
• Support creation of public-private partnerships - PPP	○	○	○	○	○	○	○	○	○
• Increase strategic coordination of ICT standardisation at EU level.	○	○	○	○	○	○	○	○	○
• Ensure consistent application of existing standards	○	○	○	○	○	○	○	○	○
• Accelerate the identification of ICT technical specifications most commonly used for their reference in public procurement	○	○	○	○	○	○	○	○	○
• Other	○	○	○	○	○	○	○	○	○
• No opinion	○	○	○	○	○	○	○	○	○

Q2.5 - Please indicate any other standardisation initiatives which would help achieving the Digital Single Market in the *Domain 6: eHealth and aging* and the subdomains which you have selected, and who in the standardisation landscape would be best placed to lead on these initiatives:

Q2.6 - Would your organisation be prepared to invest resources in standard-setting to achieve the priority standards within the proposed time-frames?

Please answer this question only if you are responding as the representative of an organisation/company/institution.

- ⊙ YES
- ⊙ YES, provided some conditions are met
- ⊙ NO
- ⊙ No opinion

* Q2.2 - For the ***Domain 7: Intelligent Transport Systems (ITS)*** and the subdomains which you have selected, please explain briefly how the criteria indicated in Box I apply to them. *We copy the criteria for your convenience*:

- Link to DSM objectives and other EU policies

- Competitiveness of the European industry

- Clear and achievable targets

- Evidence of market relevance and stakeholders needs

- Domains where standard setting has direct benefits for consumers

```
It is necessary to standardize this domain in order to ensure
Europe-wide interoperability and the same end-user experience.
```

Q2.3 - The Priority ICT standards plan should lead to the production of technical specifications, standards or architectures where there is a need/gap, but could also propose any other type of standardisation action such as landscape analysis, gap finding, roadmaps or, ecosystem building that could contribute to ensure that standardisation plays its role in achieving a Digital Single Market. Please explain if a standardisation need/gap exists in the ***Domain 7: Intelligent Transport Systems (ITS)*** and the subdomains which you have selected. Please also indicate within which time-frame such need could be addressed. Please limit to a maximum of five needs/gaps per domain or sub-domain:

Q2.4 - Among those below, which action could be a priority in the **Domain 7: Intelligent Transport Systems (ITS)** and the subdomains which you have selected? Please rank the list below and explain your choice.

	1	2	3	4	5	6	7	8	9
• Mandating European Standardisation Organisations (ESOs) for fast delivery of standards/technical specifications.	○	○	○	○	○	○	○	○	○
• Foster cooperation among standards development organisations for ICT priorities	○	○	○	○	○	○	○	○	○
• Support Research & Innovation projects to contribute to standardisation	○	○	○	○	○	○	○	○	○
• Community Building	○	○	○	○	○	○	○	○	○
• Support creation of public-private partnerships - PPP	○	○	○	○	○	○	○	○	○
• Increase strategic coordination of ICT standardisation at EU level.	○	○	○	○	○	○	○	○	○
• Ensure consistent application of existing standards	○	○	○	○	○	○	○	○	○
• Accelerate the identification of ICT technical specifications most commonly used for their reference in public procurement	○	○	○	○	○	○	○	○	○
• Other	○	○	○	○	○	○	○	○	○
• No opinion	○	○	○	○	○	○	○	○	○

Q2.5 - Please indicate any other standardisation initiatives which would help achieving the Digital Single Market in the **Domain 7: Intelligent Transport Systems (ITS)** and the subdomains which you have selected, and who in the standardisation landscape would be best placed to lead on these initiatives:

Q2.6 - Would your organisation be prepared to invest resources in standard-setting to achieve the priority standards within the proposed time-frames?

Please answer this question only if you are responding as the representative of an organisation/company/institution.

○ YES
○ YES, provided some conditions are met
○ NO
○ No opinion

* Q2.2 - For the ***Domain 10: Smart and Efficient Energy Use*** and the subdomains which you have selected, please explain briefly how the criteria indicated in Box I apply to them.
We copy the criteria for your convenience:

- Link to DSM objectives and other EU policies

- Competitiveness of the European industry

- Clear and achievable targets

- Evidence of market relevance and stakeholders needs

- Domains where standard setting has direct benefits for consumers

```
It is necessary to standardize this domain in order to ensure
Europe-wide interoperability and the same end-user experience.
```

Q2.3 - The Priority ICT standards plan should lead to the production of technical specifications, standards or architectures where there is a need/gap, but could also propose any other type of standardisation action such as landscape analysis, gap finding, roadmaps or, ecosystem building that could contribute to ensure that standardisation plays its role in achieving a Digital Single Market. Please explain if a standardisation need/gap exists in the ***Domain 10: Smart and Efficient Energy Use*** and the subdomains which you have selected. Please also indicate within which time-frame such need could be addressed. Please limit to a maximum of five needs/gaps per domain or sub-domain:

Q2.4 - Among those below, which action could be a priority in the *Domain 10: Smart and Efficient Energy Use* and the subdomains which you have selected? Please rank the list below and explain your choice.

	1	2	3	4	5	6	7	8	9
• Mandating European Standardisation Organisations (ESOs) for fast delivery of standards/technical specifications.	○	○	○	○	○	○	○	○	○
• Foster cooperation among standards development organisations for ICT priorities	○	○	○	○	○	○	○	○	○
• Support Research & Innovation projects to contribute to standardisation	○	○	○	○	○	○	○	○	○
• Community Building	○	○	○	○	○	○	○	○	○
• Support creation of public-private partnerships - PPP	○	○	○	○	○	○	○	○	○
• Increase strategic coordination of ICT standardisation at EU level.	○	○	○	○	○	○	○	○	○
• Ensure consistent application of existing standards	○	○	○	○	○	○	○	○	○
• Accelerate the identification of ICT technical specifications most commonly used for their reference in public procurement	○	○	○	○	○	○	○	○	○
• Other	○	○	○	○	○	○	○	○	○
• No opinion	○	○	○	○	○	○	○	○	○

Q2.5 - Please indicate any other standardisation initiatives which would help achieving the Digital Single Market in the *Domain 10: Smart and Efficient Energy Use* and the subdomains which you have selected, and who in the standardisation landscape would be best placed to lead on these initiatives:

Q2.6 - Would your organisation be prepared to invest resources in standard-setting to achieve the priority standards within the proposed time-frames?

Please answer this question only if you are responding as the representative of an organisation/company/institution.

○ YES

○ YES, provided some conditions are met

○ NO

○ No opinion

II.3 Other Comments

Other comments:

Background Documents

analysis.pdf (/eusurvey/files/f2d6718c-7e07-4955-9505-c94113bbbe0f)

Contact

✉ ec-ict-std-platform@ec.europa.eu