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# Consultation on the White Paper on Artificial Intelligence - A European Approach

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#### Introduction

Artificial intelligence (AI) is a strategic technology that offers many benefits for citizens and the economy. It will change our lives by improving healthcare (e.g. making diagnosis more precise, enabling better prevention of diseases), increasing the efficiency of farming, contributing to climate change mitigation and adaptation, improving the efficiency of production systems through predictive maintenance, increasing the security of Europeans and the protection of workers, and in many other ways that we can only begin to imagine.

At the same time, AI entails a number of potential risks, such as risks to safety, gender-based or other kinds of discrimination, opaque decision-making, or intrusion in our private lives.

The <u>European approach for AI</u> aims to promote Europe's innovation capacity in the area of AI while supporting the development and uptake of ethical and trustworthy AI across the EU. According to this approach, AI should work for people and be a force for good in society.

For Europe to seize fully the opportunities that AI offers, it must develop and reinforce the necessary industrial and technological capacities. As set out in the accompanying European strategy for data, this also requires measures that will enable the EU to become a global hub for data.

The current public consultation comes along with the White Paper on Artificial Intelligence - A European Approach aimed to foster a European ecosystem of excellence and trust in Al and a Report on the safety and liability aspects of Al. The White Paper proposes:

- Measures that will streamline research, foster collaboration between Member States and increase investment into AI development and deployment;
- Policy options for a future EU regulatory framework that would determine the types of legal requirements that would apply to relevant actors, with a particular focus on high-risk applications.

This consultation enables all European citizens, Member States and relevant stakeholders (including civil society, industry and academics) to provide their opinion on the White Paper and contribute to a European approach for AI. To this end, the following questionnaire is divided in three sections:

- Section 1 refers to the specific actions, proposed in the White Paper's Chapter 4 for the building of an ecosystem of excellence that can support the development and uptake of AI across the EU economy and public administration;
- Section 2 refers to a series of options for a regulatory framework for AI, set up in the White Paper's Chapter 5:
- Section 3 refers to the Report on the safety and liability aspects of Al.

Respondents can provide their opinion by choosing the most appropriate answer among the ones suggested for each question or suggesting their own ideas in dedicated text boxes.

Feedback can be provided in one of the following languages:

BG | CS | DE | DA | EL | EN | ES | ET | FI | FR | HR | HU | IT | LT | LV | MT | NL | PL | PT | RO | SK | SL | SV

Written feedback provided in other document formats, can be uploaded through the button made available at the end of the questionnaire.

The survey will remain open until 14 June 2020.

### About you

- \*Language of my contribution
  - Bulgarian
  - Croatian
  - Czech
  - Danish
  - Dutch
  - English
  - Estonian
  - Finnish
  - French
  - Gaelic
  - German
  - Greek
  - Hungarian
  - Italian
  - Latvian
  - Lithuanian
  - Maltese
  - Polish
  - Portuguese
  - Romanian
  - Slovak
  - Slovenian
  - Spanish
  - Swedish

*I am giving my contribution as
<ul> <li>Academic/research institution</li> </ul>
Business association
Company/business organisation
<ul><li>Consumer organisation</li><li>EU citizen</li></ul>
<ul><li>Environmental organisation</li><li>Non-EU citizen</li></ul>
Non-governmental organisation (NGO)
Public authority
<ul> <li>Trade union</li> </ul>
Other
* First name
Aneta
*Surname
TYSZKIEWICZ
*Email (this won't be published)
aneta.tyszkiewicz@cedentists.eu
Organization name
* Organisation name
255 character(s) maximum
Council of European Dentists
*Organisation size
Micro (1 to 9 employees)
Small (10 to 49 employees)
Medium (50 to 249 employees)
Large (250 or more)
Transparency register number
255 character(s) maximum
Check if your organisation is on the transparency register. It's a voluntary database for organisations seeking to influence EU decision-
making.
4885579968-84
* Country of origin  Please add your country of origin, or that of your organisation.
<ul> <li>Afghanistan</li> <li>Djibouti</li> <li>Libya</li> <li>Saint Martin</li> </ul>
<ul> <li>Åland Islands</li> <li>Dominica</li> <li>Liechtenstein</li> </ul>

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Albania	<ul><li>Dominican</li><li>Republic</li></ul>	Lithuania	<ul><li>Saint Vincent and the Grenadines</li></ul>
Algeria	Ecuador	Luxembourg	Samoa
<ul><li>American</li><li>Samoa</li></ul>	Egypt	Macau	San Marino
Andorra	El Salvador	Madagascar	<ul><li>São Tomé and Príncipe</li></ul>
Angola	<ul><li>Equatorial Guinea</li></ul>	Malawi	Saudi Arabia
Anguilla	Eritrea	Malaysia	Senegal
Antarctica	Estonia	Maldives	Serbia
<ul><li>Antigua and Barbuda</li></ul>	Eswatini	Mali	Seychelles
Argentina	Ethiopia	Malta	Sierra Leone
Armenia	Falkland Islands	<ul><li>Marshall Islands</li></ul>	Singapore
Aruba	Faroe Islands	Martinique	Sint Maarten
Australia	© Fiji	Mauritania	Slovakia
Austria	Finland	Mauritius	Slovenia
Azerbaijan	France	Mayotte	<ul><li>Solomon Islands</li></ul>
Bahamas	French Guiana	Mexico	Somalia
Bahrain	<ul><li>French</li><li>Polynesia</li></ul>	Micronesia	South Africa
Bangladesh	French	Moldova	South Georgia
	Southern and Antarctic Lands		and the South Sandwich
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Barbados	Gabon	Monaco	<ul><li>South Korea</li></ul>
<ul><li>Belarus</li></ul>	Georgia	<ul><li>Mongolia</li></ul>	<ul><li>South Sudan</li></ul>
<ul><li>Belgium</li></ul>	Germany	<ul><li>Montenegro</li></ul>	<ul><li>Spain</li></ul>
Belize	<ul><li>Ghana</li></ul>	<ul><li>Montserrat</li></ul>	Sri Lanka
<ul><li>Benin</li></ul>	Gibraltar	<ul><li>Morocco</li></ul>	<ul><li>Sudan</li></ul>
<ul><li>Bermuda</li></ul>	Greece	<ul><li>Mozambique</li></ul>	Suriname
<ul><li>Bornada</li><li>Bhutan</li></ul>	<ul><li>Greenland</li></ul>	<ul><li>Myanmar</li></ul>	<ul><li>Svalbard and</li></ul>
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Bolivia	Grenada	<ul><li>Namibia</li></ul>	Sweden
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<ul><li>Bosnia and Herzegovina</li></ul>	Guam	Nepal	Syria
Botswana	Guatemala	Netherlands	Taiwan
Bouvet Island	Guernsey	New Caledonia	Tajikistan
Brazil	Guinea	New Zealand	Tanzania

<ul><li>British Indian</li><li>Ocean Territory</li></ul>	Guinea-Bissau	Nicaragua	Thailand
<ul><li>British Virgin</li><li>Islands</li></ul>	Guyana	Niger	The Gambia
Brunei	Haiti	<ul><li>Nigeria</li></ul>	Timor-Leste
<ul><li>Bulgaria</li></ul>	<ul><li>Heard Island and McDonald Islands</li></ul>	Niue	Togo
Burkina Faso	Honduras	Norfolk Island	Tokelau
Burundi	Hong Kong	Northern	Tonga
		Mariana Islands	- T : : : : : :
Cambodia	Hungary	North Korea	<ul><li>Trinidad and</li><li>Tobago</li></ul>
Cameroon	Iceland	North	Tobago © Tunisia
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Canada	India	Norway	Turkey
Cape Verde	Indonesia	Oman	Turkmenistan
Cayman Islands	Iran	Pakistan	Turks and
			Caicos Islands
<ul><li>Central African</li><li>Republic</li></ul>	Iraq	Palau	Tuvalu
Chad	Ireland	Palestine	Uganda
Chile	Isle of Man	Panama	Ukraine
China	Israel	Papua New Guinea	<ul><li>United Arab</li><li>Emirates</li></ul>
<ul><li>Christmas Island</li></ul>	Italy	<ul><li>Paraguay</li></ul>	<ul><li>United</li><li>Kingdom</li></ul>
Clipperton	Jamaica	Peru	United States
Cocos (Keeling)	Japan	Philippines	United States
Islands			Minor Outlying
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Congo	Kazakhstan	Portugal	<ul><li>Uzbekistan</li></ul>
Cook Islands	Kenya	Puerto Rico	Vanuatu
Costa Rica	Kiribati	Qatar	Vatican City
Côte d'Ivoire	Kosovo	Réunion	Venezuela
Croatia	Kuwait	Romania	Vietnam
Cuba	Kyrgyzstan	Russia	Wallis and
			Futuna
Curação	Laos	Rwanda	Western
© Cyprus	Latvia	Saint	Sahara © Yemen
Cyprus	Laivia	Barthélemy	- I CITICII
Czechia	Lebanon		Zambia

Saint Helena Ascension and Tristan da Cunha

Saint Lucia

DemocraticRepublic of the Congo

Saint Kitts andZimbabwe Nevis

#### Publication privacy settings

The Commission will publish the responses to this public consultation. You can choose whether you would like your details to be made public or to remain anonymous.

### Anonymous

Denmark

Only your type of respondent, country of origin and contribution will be published. All other personal details (name, organisation name and size, transparency register number) will not be published.

#### Public

Your personal details (name, organisation name and size, transparency register number, country of origin) will be published with your contribution.

I agree with the personal data protection provisions

Liberia

### Section 1 - An ecosystem of excellence

To build an ecosystem of excellence that can support the development and uptake of Al across the EU economy, the White Paper proposes a series of actions.

# In your opinion, how important are the six actions proposed in section 4 of the White Paper on AI (1-5: 1 is not important at all, 5 is very important)?

	1 - Not important at all	2 - Not important	3 - Neutral	4 - Important	5 - Very important	No opinion
Working with Member states	0	0	0	©	•	0
Focussing the efforts of the research and innovation community	0	0	0	•	0	0
Skills	0	0	0	0	•	0
Focus on SMEs	0	0	0	•	0	0
Partnership with the private sector	0	0	0	•	0	0
Promoting the adoption of AI by the public sector	0	0	0	•	0	0

#### Are there other actions that should be considered?

500 character(s) maximum

For the digital revolution to succeed in the healthcare system, a well-trained workforce is paramount. Therefore, priority should be given to the implementation of digital skills education into the dental studies curriculum. Once qualified, dentists should be able to learn and update their skills through appropriate continuing professional development (CPD) provision.

#### **Revising the Coordinated Plan on AI (Action 1)**

The Commission, taking into account the results of the public consultation on the White Paper, will propose to Member States a revision of the Coordinated Plan to be adopted by end 2020.

# In your opinion, how important is it in each of these areas to align policies and strengthen coordination as described in section 4.A of the White Paper (1-5: 1 is not important at all, 5 is very important)?

	1 - Not important at all	2 - Not important	3 - Neutral	4 - Important	5 - Very important	No opinion
Strengthen excellence in research	0	0	0	•	0	0
Establish world-reference testing facilities for Al	0	0	0	0	•	0
Promote the uptake of AI by business and the public sector	0	0	0	•	0	0
Increase the financing for start-ups innovating in Al	0	0	0	•	0	0
Develop skills for AI and adapt existing training programmes	0	0	0	0	•	0
Build up the European data space	0	0	0	0	•	0

#### Are there other areas that that should be considered?

500 character(s) maximum

Each professional should have the opportunity to undertake training about the functioning of algorithms, as well as training in AI tools management, which should be supported by appropriate technological structures in the practicing environment. Understanding AI processes and application would be the first step in reinforcing confidence in AI technologies among dentists which is a precondition for their wider use.

#### A united and strengthened research and innovation community striving for excellence

Joining forces at all levels, from basic research to deployment, will be key to overcome fragmentation and create synergies between the existing networks of excellence.

# In your opinion how important are the three actions proposed in sections 4.B, 4.C and 4.E of the White Paper on AI (1-5: 1 is not important at all, 5 is very important)?

	1 - Not important at all	2 - Not important	3 - Neutral	4 - Important	5 - Very important	No opinion
Support the establishment of a lighthouse research centre that is world class and able to attract the best minds	•	•	0	•	•	0
Network of existing AI research excellence centres	0	0	0	0	•	0
Set up a public-private partnership for industrial research	0	0	0	•	0	0

# Are there any other actions to strengthen the research and innovation community that should be given a priority?

5	00 character(s) maximum

#### Focusing on Small and Medium Enterprises (SMEs)

The Commission will work with Member States to ensure that at least one digital innovation hub per Member State has a high degree of specialisation on AI.

# In your opinion, how important are each of these tasks of the specialised Digital Innovation Hubs mentioned in section 4.D of the White Paper in relation to SMEs (1-5: 1 is not important at all, 5 is very important)?

	1 - Not important at all	2 - Not important	3 - Neutral	4 - Important	5 - Very important	No opinion
Help to raise SME's awareness about potential benefits of AI	0	0	0	0	0	•
Provide access to testing and reference facilities	0	0	0	0	•	0
Promote knowledge transfer and support the development of AI expertise for SMEs	0	0	•	•	0	•
Support partnerships between SMEs, larger enterprises and academia around AI projects	©	0	•	•	0	•
Provide information about equity financing for Al startups	0	0	0	•	0	0

# Are there any other tasks that you consider important for specialised Digital Innovations Hubs?

5	00 character(s) maximum

### Section 2 - An ecosystem of trust

Chapter 5 of the White Paper sets out options for a regulatory framework for AI.

# In your opinion, how important are the following concerns about AI (1-5: 1 is not important at all, 5 is very important)?

	1 - Not important at all	2 - Not important	3 - Neutral	4 - Important	5 - Very important	No opinion
Al may endanger safety	0	0	0	0	•	0
Al may breach fundamental rights (such as human						

dignity, privacy, data protection, freedom of expression, workers' rights etc.)	0	©	©	©	•	0
The use of AI may lead to discriminatory outcomes	0	0	0	0	•	0
Al may take actions for which the rationale cannot be explained	0	•	0	•	•	0
Al may make it more difficult for persons having suffered harm to obtain compensation	0	0	0	0	•	•
Al is not always accurate	0	0	0	0	•	0

## Do you have any other concerns about AI that are not mentioned above? Please specify:

500 character(s) maximum

To encourage confidence in AI systems among the profession there needs to be clarity about liability in case of AI failure or misdiagnosis. The dentist's liability when using AI has to be clearly defined. When health related decision is made relaying on AI technologies, the assessment if the dentist complied with the standard of care become more complex.

Do you think that the concerns expressed above can be addressed by applicable EU legislation? If not, do you think that there should be specific new rules for AI systems?

- Current legislation is fully sufficient
- Current legislation may have some gaps
- There is a need for a new legislation
- Other
- No opinion

If you think that new rules are necessary for AI system, do you agree that the introduction of new compulsory requirements should be limited to high-risk applications (where the possible harm caused by the AI system is particularly high)?

- Yes
- O No
- Other
- No opinion

Do you agree with the approach to determine "high-risk" Al applications proposed in Section 5.B of the White Paper?

- Yes
- O No
- Other

No opinion

## If you wish, please indicate the Al application or use that is most concerning ("high-risk") from your perspective:

500 character(s) maximum

Healthcare is the sector where AI could present ethical challenges that need to be addressed. Databases and algorithms may introduce bias into the diagnostic process, and AI may not perform as intended, posing a potential for patient harm. As health and social wellbeing are at stake, healthcare should be treated as the most sensitive sector and appropriate safeguards should be applied.

# In your opinion, how important are the following mandatory requirements of a possible future regulatory framework for AI (as section 5.D of the White Paper) (1-5: 1 is not important at all, 5 is very important)?

	1 - Not important at all	2 - Not important	3 - Neutral	4 - Important	5 - Very important	No opinion
The quality of training data sets	0	0	0	0	•	0
The keeping of records and data	0	0	0	0	•	0
Information on the purpose and the nature of AI systems	0	0	0	0	•	0
Robustness and accuracy of AI systems	0	0	0	0	•	0
Human oversight	0	0	0	0	•	0
Clear liability and safety rules	0	0	0	0	•	0

In addition to the existing EU legislation, in particular the data protection framework, including the General Data Protection Regulation and the Law Enforcement Directive, or, where relevant, the new possibly mandatory requirements foreseen above (see question above), do you think that the use of remote biometric identification systems (e.g. face recognition) and other technologies which may be used in public spaces need to be subject to further EU-level guidelines or regulation:

- No further guidelines or regulations are needed
- Biometric identification systems should be allowed in publicly accessible spaces only in certain cases or if certain conditions are fulfilled (please specify)
- Other special requirements in addition to those mentioned in the question above should be imposed (please specify)

0

Use of Biometric identification systems in publicly accessible spaces, by way of exception to the current general prohibition, should not take place until a specific guideline or legislation at EU level is in place.

- Biometric identification systems should never be allowed in publicly accessible spaces
- No opinion

PΙ	Please specify your answer:						

Do you believe that a voluntary labelling system (Section 5.G of the White Paper) would be useful for AI systems that are not considered high-risk in addition to existing legislation?

- Very much
- Much
- Rather not
- Not at all
- No opinion

Do you have any	further suggestion	on a voluntary	labelling system?
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5	500 character(s) maximum						

# What is the best way to ensure that AI is trustworthy, secure and in respect of European values and rules?

- Compliance of high-risk applications with the identified requirements should be self-assessed ex-ante (prior to putting the system on the market)
- Compliance of high-risk applications should be assessed ex-ante by means of an external conformity assessment procedure
- Ex-post market surveillance after the AI-enabled high-risk product or service has been put on the market and, where needed, enforcement by relevant competent authorities
- A combination of ex-ante compliance and ex-post enforcement mechanisms
- Other enforcement system
- No opinion

### Do you have any further suggestion on the assessment of compliance?

500 character(s) maximum

In order to not reinforce the disparities in healthcare related to socioeconomic status or other biases. The data criteria selection must be developed and regularly verified. Transparent, clinically validated AI and systematic quality checks could foster the acceptance and trust in AI among the end-users. Dentists should be able to assess the reliability of the proposed AI decisions according to agreed-upon standards.

### Section 3 – Safety and liability implications of AI, IoT and robotics

The overall objective of the safety and liability legal frameworks is to ensure that all products and services, including those integrating emerging digital technologies, operate safely, reliably and consistently and that damage having occurred is remedied efficiently.

The current product safety legislation already supports an extended concept of safety protecting against all kind of risks arising from the product according to its use. However, which particular risks stemming from the use of artificial intelligence do you think should be further spelled out to provide more legal certainty?

- Cyber risks
- Personal security risks
- Risks related to the loss of connectivity
- Mental health risks

### In your opinion, are there any further risks to be expanded on to provide more legal certainty?

500 character(s) maximum

Understanding AI processes and application would be the first step in reinforcing confidence in AI technologies among dentists which is a precondition for their wider use. Proper explanation of AI methods to patients is important in terms of their right to information. Therefore, the role of AI should be limited to a supporting role which does not undermine the autonomy of the dentist in the decision-making process.

Do you think that the safety legislative framework should consider new risk assessment procedures for products subject to important changes during their lifetime?

- Yes
- No opinion

## Do you have any further considerations regarding risk assessment procedures?

5	500 character(s) maximum						

Do you think that the current EU legislative framework for liability (Product Liability Directive) should be amended to better cover the risks engendered by certain AI applications?

- Yes
- No opinion

### Do you have any further considerations regarding the question above?

500 character(s) maximum

Human interaction is particularly relevant for professionals such as dentists as their work is fundamentally dependent on patients' trust. The dentist should, as part of the consent process, inform the patient that AI

systems are being used to assist in diagnosis and treatment planning. In dentistry, any decision on treatment should take into consideration overall oral health of the patient and any physical and financial limitations.

Do you think that the current national liability rules should be adapted for the operation of AI to better ensure proper compensation for damage and a fair allocation of liability?

- Yes, for all Al applications
- Yes, for specific AI applications
- No
- No opinion

Do y	you have an	y further	considerations	regarding	the c	question	above?

50	500 character(s) maximum							

Thank you for your contribution to this questionnaire. In case you want to share further ideas on these topics, you can upload a document below.

### You can upload a document here:

The maximum file size is 1 MB

Only files of the type pdf,txt,doc,docx,odt,rtf are allowed

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#### Contact

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