

Public consultation on EMA Regulatory Science to 2025

Fields marked with * are mandatory.

* Name

* Email



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Introduction

The purpose of this public consultation is to seek views from EMA's stakeholders, partners and the general public on EMA's proposed strategy on Regulatory Science to 2025 and whether it meets stakeholders' needs. By highlighting where stakeholders see the need as greatest, you have the opportunity to jointly shape a vision for regulatory science that will in turn feed into the wider EU network strategy in the period 2020-25.

The views being sought on the proposed strategy refer both to the extent and nature of the broader strategic goals and core recommendations. We also seek your views on whether the specific underlying actions proposed are the most appropriate to achieve these goals.

The questionnaire will remain open until June 30, 2019. In case of any queries, please contact: RegulatoryScience2025@ema.europa.eu.

Completing the questionnaire

This questionnaire should be completed once you have read the draft strategy document. The survey is divided into two areas: proposals for human regulatory science and proposals for veterinary regulatory science. You are invited to complete the section which is most relevant to your area of interest or both areas as you prefer.

We thank you for taking the time to provide your input; your responses will help to shape and prioritise our future actions in the field of regulatory science.

Data Protection

By participating in this survey, your submission will be assessed by EMA. EMA collects and stores your personal data for the purpose of this survey and, in the interest of transparency, your submission will be made publicly available.

For more information about the processing of personal data by EMA, please read the [privacy statement](#).

Questionnaire

Question 1: What stakeholder, partner or group do you represent:

- ☐ Individual member of the public
- ☐ Patient or Consumer Organisation
- ☒ Healthcare professional organisation
- ☐ Learned society
- ☐ Farming and animal owner organisation
- ☐ Academic researcher
- ☐ Healthcare professional
- ☐ Veterinarian
- ☐ European research infrastructure
- ☐ Research funder
- ☐ Other scientific organisation
- ☐ EU Regulatory partner / EU Institution
- ☐ Health technology assessment body
- ☐ Payer
- ☐ Pharmaceutical industry
- ☐ Non-EU regulator / Non-EU regulatory body
- ☐ Other

Name of organisation (if applicable):

Question 2: Which part of the proposed strategy document are you commenting upon:

- ☒ Human
- ☐ Veterinary
- ☐ Both

Question 3 (human): What are your overall views about the strategy proposed in EMA's Regulatory Science to 2025?

Please note you will be asked to comment on the core recommendations and underlying actions in the subsequent questions.

Pharmacists in Industry, Education and Regulatory (PIER) welcome the opportunity to comment on the Draft EMA Regulatory Science to 2025 Strategic reflection.

PIER is a member of the European Industry Pharmacist Group (EIPG), which represents the national, professional organizations of pharmacists employed in the pharmaceutical or allied industries across Europe. PIER is a voluntary organisation and focuses their representation on pharmacists in the life sciences industry (i.e. pharmaceutical industries, academia, regulatory bodies) in Ireland.

PIER supports the EMA Regulatory Science to 2025 Strategic reflection and considers the goals outlined appropriate towards the advancement of regulatory science and innovation. The core recommendations and proposed underlying actions to achieve the overarching goals are fitting in order to enhance European public health. PIER believes that through successful collaboration with patients, healthcare professionals, international partners etc., that future optimal healthcare decisions can be achieved and would be willing to engage with EMA on this in the future.

Question 4 (human): Do you consider the strategic goals appropriate?

Strategic goal 1: Catalysing the integration of science and technology in medicines development (h)

- ☐ Yes
- ☐ No

Strategic goal 2: Driving collaborative evidence generation – improving the scientific quality of evaluations (h)

- ☐ Yes
- ☐ No

Strategic goal 3: Advancing patient-centred access to medicines in partnership with healthcare systems (h)

- ☐ Yes
- ☐ No

Strategic goal 4: Addressing emerging health threats and availability/therapeutic challenges (h)

- ☐ Yes
- ☐ No

Strategic goal 5: Enabling and leveraging research and innovation in regulatory science (h)

- ☐ Yes
- ☐ No

Question 5 (human): Please identify the top three core recommendations (in order of importance) that you believe will deliver the most significant change in the regulatory system over the next five years and why.

First choice(h)

- ☐ 1. Support developments in precision medicine, biomarkers and 'omics'
- ☐ 2. Support translation of Advanced Therapy Medicinal Products cell, genes and tissue-based products into patient treatments
- ☐ 3. Promote and invest in the Priority Medicines scheme (PRIME)
- ☐ 4. Facilitate the implementation of novel manufacturing technologies
- ☐ 5. Create an integrated evaluation pathway for the assessment of medical devices, in vitro diagnostics and borderline products
- ☐ 6. Develop understanding of and regulatory response to nanotechnology and new materials' utilisation in pharmaceuticals
- ☐ 7. Diversify and integrate the provision of regulatory advice along the development continuum
- ☐ 8. Leverage novel non-clinical models and 3Rs
- ☐ 9. Foster innovation in clinical trials
- ☐ 10. Develop the regulatory framework for emerging digital clinical data generation
- ☐ 11. Expand benefit-risk assessment and communication
- ☐ 12. Invest in special populations initiatives
- ☐ 13. Optimise capabilities in modelling and simulation and extrapolation
- ☐ 14. Exploit digital technology and artificial intelligence in decision-making
- ☐ 15. Contribute to HTAs' preparedness and downstream decision-making for innovative medicines
- ☐ 16. Bridge from evaluation to access through collaboration with Payers
- ☐ 17. Reinforce patient relevance in evidence generation
- ☐ 18. Promote use of high-quality real world data (RWD) in decision-making
- ☐ 19. Develop network competence and specialist collaborations to engage with big data
- ☐ 20. Deliver real-time electronic Product Information (ePI)
- ☐ 21. Promote the availability and uptake of biosimilars in healthcare systems
- ☐ 22. Further develop external communications to promote trust and confidence in the EU regulatory system
- ☐ 23. Implement EMA's health threats plan, ring-fence resources and refine preparedness approaches
- ☐ 24. Continue to support development of new antimicrobials and their alternatives
- ☐ 25. Promote global cooperation to anticipate and address supply challenges
- ☐ 26. Support innovative approaches to the development and post-authorisation monitoring of vaccines
- ☐ 27. Support the development and implementation of a repurposing framework
- ☐ 28. Develop network-led partnerships with academia to undertake fundamental research in strategic areas of regulatory science
- ☐

- 29. Leverage collaborations between academia and network scientists to address rapidly emerging regulatory science research questions
- ☐ 30. Identify and enable access to the best expertise across Europe and internationally
- ☐ 31. Disseminate and share knowledge, expertise and innovation across the regulatory network and to its stakeholders

1st choice (h): please comment on your choice, the underlying actions proposed and identify any additional actions you think might be needed to effect these changes.

Second choice (h)

- ☐ 1. Support developments in precision medicine, biomarkers and 'omics'
- ☐ 2. Support translation of Advanced Therapy Medicinal Products cell, genes and tissue-based products into patient treatments
- ☐ 3. Promote and invest in the Priority Medicines scheme (PRIME)
- ☐ 4. Facilitate the implementation of novel manufacturing technologies
- ☐ 5. Create an integrated evaluation pathway for the assessment of medical devices, in vitro diagnostics and borderline products
- ☐ 6. Develop understanding of and regulatory response to nanotechnology and new materials' utilisation in pharmaceuticals
- ☐ 7. Diversify and integrate the provision of regulatory advice along the development continuum
- ☐ 8. Leverage novel non-clinical models and 3Rs
- ☐ 9. Foster innovation in clinical trials
- ☐ 10. Develop the regulatory framework for emerging digital clinical data generation
- ☐ 11. Expand benefit-risk assessment and communication
- ☐ 12. Invest in special populations initiatives
- ☐ 13. Optimise capabilities in modelling and simulation and extrapolation
- ☐ 14. Exploit digital technology and artificial intelligence in decision-making
- ☐ 15. Contribute to HTAs' preparedness and downstream decision-making for innovative medicines
- ☐ 16. Bridge from evaluation to access through collaboration with Payers
- ☐ 17. Reinforce patient relevance in evidence generation
- ☐ 18. Promote use of high-quality real world data (RWD) in decision-making
- ☐ 19. Develop network competence and specialist collaborations to engage with big data
- ☐ 20. Deliver real-time electronic Product Information (ePI)
- ☐ 21. Promote the availability and uptake of biosimilars in healthcare systems
- ☐ 22. Further develop external communications to promote trust and confidence in the EU regulatory system
- ☐ 23. Implement EMA's health threats plan, ring-fence resources and refine preparedness approaches
- ☐ 24. Continue to support development of new antimicrobials and their alternatives
- ☐ 25. Promote global cooperation to anticipate and address supply challenges
- ☐ 26. Support innovative approaches to the development and post-authorisation monitoring of vaccines
- ☐ 27. Support the development and implementation of a repurposing framework
- ☐

- 28. Develop network-led partnerships with academia to undertake fundamental research in strategic areas of regulatory science
- ☐ 29. Leverage collaborations between academia and network scientists to address rapidly emerging regulatory science research questions
- ☐ 30. Identify and enable access to the best expertise across Europe and internationally
- ☐ 31. Disseminate and share knowledge, expertise and innovation across the regulatory network and to its stakeholders

2nd choice (h): please comment on your choice, the underlying actions proposed and identify any additional actions you think might be needed to effect these changes.

Third choice (h)

- ☐ 1. Support developments in precision medicine, biomarkers and 'omics'
- ☐ 2. Support translation of Advanced Therapy Medicinal Products cell, genes and tissue-based products into patient treatments
- ☐ 3. Promote and invest in the Priority Medicines scheme (PRIME)
- ☐ 4. Facilitate the implementation of novel manufacturing technologies
- ☐ 5. Create an integrated evaluation pathway for the assessment of medical devices, in vitro diagnostics and borderline products
- ☐ 6. Develop understanding of and regulatory response to nanotechnology and new materials' utilisation in pharmaceuticals
- ☐ 7. Diversify and integrate the provision of regulatory advice along the development continuum
- ☐ 8. Leverage novel non-clinical models and 3Rs
- ☐ 9. Foster innovation in clinical trials
- ☐ 10. Develop the regulatory framework for emerging digital clinical data generation
- ☐ 11. Expand benefit-risk assessment and communication
- ☐ 12. Invest in special populations initiatives
- ☐ 13. Optimise capabilities in modelling and simulation and extrapolation
- ☐ 14. Exploit digital technology and artificial intelligence in decision-making
- ☐ 15. Contribute to HTAs' preparedness and downstream decision-making for innovative medicines
- ☐ 16. Bridge from evaluation to access through collaboration with Payers
- ☐ 17. Reinforce patient relevance in evidence generation
- ☐ 18. Promote use of high-quality real world data (RWD) in decision-making
- ☐ 19. Develop network competence and specialist collaborations to engage with big data
- ☐ 20. Deliver real-time electronic Product Information (ePI)
- ☐ 21. Promote the availability and uptake of biosimilars in healthcare systems
- ☐ 22. Further develop external communications to promote trust and confidence in the EU regulatory system
- ☐ 23. Implement EMA's health threats plan, ring-fence resources and refine preparedness approaches
- ☐ 24. Continue to support development of new antimicrobials and their alternatives
- ☐ 25. Promote global cooperation to anticipate and address supply challenges
- ☐ 26. Support innovative approaches to the development and post-authorisation monitoring of vaccines

- ☐ 27. Support the development and implementation of a repurposing framework
- ☐ 28. Develop network-led partnerships with academia to undertake fundamental research in strategic areas of regulatory science
- ☐ 29. Leverage collaborations between academia and network scientists to address rapidly emerging regulatory science research questions
- ☐ 30. Identify and enable access to the best expertise across Europe and internationally
- ☐ 31. Disseminate and share knowledge, expertise and innovation across the regulatory network and to its stakeholders

3rd choice (h): please comment on your choice, the underlying actions proposed and identify any additional actions you think might be needed to effect these changes.









Question 6 (human): Are there any significant elements missing in this strategy. Please elaborate which ones (h)

Question 7 (human): The following is to allow more detailed feedback on prioritisation, which will also help shape the future application of resources. Your further input is therefore highly appreciated. Please choose for each row the option which most closely reflects your opinion. For areas outside your interest or experience, please leave blank.

Should you wish to comment on any of the core recommendations (and their underlying actions) there is an option to do so.

Strategic goal 1: Catalysing the integration of science and technology in medicines development (h)

	Very important	Important	Moderately important	Less important	Not important

1. Support developments in precision medicine, biomarkers and 'omics'					
2. Support translation of Advanced Therapy Medicinal Products cell, genes and tissue-based products into patient treatments					
3. Promote and invest in the Priority Medicines scheme (PRIME)					
4. Facilitate the implementation of novel manufacturing technologies					
5. Create an integrated evaluation pathway for the assessment of medical devices, in vitro diagnostics and borderline products					
6. Develop understanding of and regulatory response to nanotechnology and new materials' utilisation in pharmaceuticals					
7. Diversify and integrate the provision of regulatory advice along the development continuum					

Please feel free to comment on any of the above core recommendations or their underlying actions. **Kindly indicate the number of the recommendation** you are commenting on:

Strategic goal 2: Driving collaborative evidence generation – improving the scientific quality of evaluations (h)

	Very important	Important	Moderately important	Less important	Not important
8. Leverage novel non-clinical models and 3Rs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. Foster innovation in clinical trials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Develop the regulatory framework for emerging digital clinical data generation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Expand benefit-risk assessment and communication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Invest in special populations initiatives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Optimise capabilities in modelling and simulation and extrapolation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Exploit digital technology and artificial					

intelligence in decision-making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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Please feel free to comment on any of the above core recommendations or their underlying actions. **Kindly indicate the number of the recommendation you are commenting on:**

Strategic goal 3: Advancing patient-centred access to medicines in partnership with healthcare systems (h)

	Very important	Important	Moderately important	Less important	Not important
15. Contribute to HTAs' preparedness and downstream decision-making for innovative medicines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16. Bridge from evaluation to access through collaboration with Payers					
17. Reinforce patient relevance in evidence generation					
18. Promote use of high-quality real world data (RWD) in decision-making					
19. Develop network competence and specialist collaborations to engage with big data					
20. Deliver real-time electronic Product Information (ePI)					
21. Promote the availability and uptake of biosimilars in healthcare systems					
22. Further develop external communications to promote trust and confidence in the EU regulatory system					

Please feel free to comment on any of the above core recommendations or their underlying actions. **Kindly indicate the number of the recommendation you are commenting on:**











Strategic goal 4: Addressing emerging health threats and availability/therapeutic challenges (h)

	Very important	Important	Moderately important	Less important	Not important
23. Implement EMA’s health threats plan, ring-fence resources and refine preparedness approaches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
24. Continue to support development of new antimicrobials and their alternatives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. Promote global cooperation to anticipate and address supply challenges	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26. Support innovative approaches to the development and post-authorisation monitoring of vaccines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27. Support the development and implementation of a repurposing framework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please feel free to comment on any of the above core recommendations or their underlying actions. **Kindly indicate the number of the recommendation you are commenting on:**

Strategic goal 5: Enabling and leveraging research and innovation in regulatory science (h)

	Very important	Important	Moderately important	Less important	Not important
28. Develop network-led partnerships with academia to undertake fundamental research in strategic areas of regulatory science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29. Leverage collaborations between academia and network scientists to address rapidly emerging regulatory science research questions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

30. Identify and enable access to the best expertise across Europe and internationally					
31. Disseminate and share knowledge, expertise and innovation across the regulatory network and to its stakeholders					

Please feel free to comment on any of the above core recommendations or their underlying actions. **Kindly indicate the number of the recommendation you are commenting on:**

Thank you very much for completing the survey. We value your opinion and encourage you to inform others who you know would be interested.

Useful links

EMA website: Public consultation page (<https://www.ema.europa.eu/en/regulatory-science-strategy-2025>)

Background Documents

EMA Regulatory Science to 2025.pdf

Contact

RegulatoryScience2025@ema.europa.eu