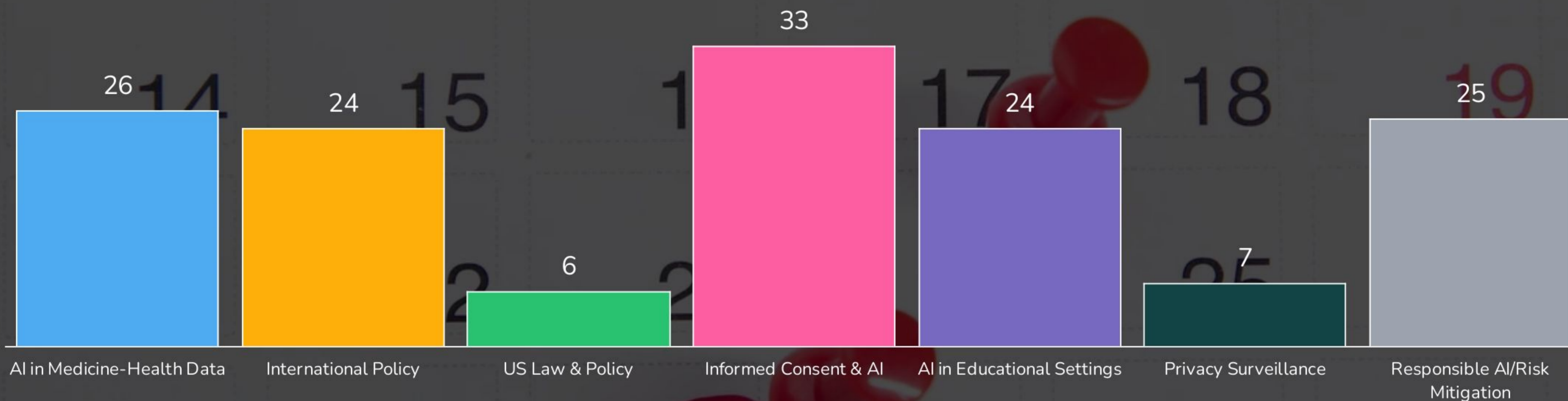


The Role of Artificial Intelligence in Building Responsible Open Science Infrastructures
Participant Input to Interactive online prompts
9/27/2023

An RDA AIDV Webinar

(Please turn to next page)

Which Aspects of AI Policy do you need to know more about in next 6-12 months?



What Responsible AI strategies best allow for innovation?

Transparency

Getting like minded people who believe in AI working for them. Secondly prioritize learning leads and challenges.

The one that takes into account FAT; Fairness, Accountability and Transparency are key. Building something in consultation with conscience of the users in mind.

Responsible AI is AI that is developed and used in a way that is ethical, fair, transparent, and accountable. It is AI that is aligned with human values and that benefits society as a whole. Innovation in AI is essential for progress in many fields, including science, medicine, and industry. However, it is important to ensure that AI innovation is done in a responsible way. Here are some Responsible AI strategies that best allow for innovation:
Transparency:

Open training data: AI systems are trained on data. This data can be collected from a variety of sources, including public datasets, private datasets, and synthetic data. Open training data is data that is freely available to anyone. Using open training data can help to promote transparency and innovation in AI. By releasing AI systems with open training data, researchers and developers can collaborate on improving them and making them more accessible to a wider audience.

Learning opportunity, open source, open training with transparency.

Focus on transparency, privacy, security, fairness

Transparency and Open Science where a good level of "trust" is being developed.

Involve community of practice

Be consultative in your approach

I wonder how the processes in open science can be shared and used by AI.

Hiring AI agents to review politics, do research and try to find patterns

Encourage and enhance the development of 'defence mechanism' against misuse and abuse of AI technology as much if not more than the advancement of the AI in the open science platforms. This may avoid or minimise damages by wrong use of the technology.

Transparency: AI systems should be transparent and understandable to humans. This means that we should be able to understand how they work, what data they are trained on, and what decisions they are making. Transparency helps to build trust in AI systems and allows people to identify and address potential problems.

In addition to these strategies, it is also important to develop responsible AI governance frameworks. These frameworks should define the principles and practices that guide the development and use of AI. They should also provide mechanisms for accountability and oversight.

- Promote the use of open source software and open training data for AI development. This will help to ensure that AI systems are transparent and accessible to a wider audience.
- Support research and development in responsible AI. This includes research on AI ethics, AI governance, and AI safety.

Open Science and data

Bye training in management and leadership

Create a unified and standard pipeline for de-identification of clinical notes and medical imaging

Responsible AI is essential for innovation in EOSC and other Open Science infrastructures. Transparency, open source, and open training data can help to promote responsible AI and innovation. We should also develop responsible AI governance frameworks that define ethical principles, establish transparent and accountable processes, promote open-source software and open training data, and support research and development in responsible AI.

Open source: Open source software is software that is freely available and can be modified and redistributed by anyone. Open-source software can help to promote transparency and innovation in AI. By releasing AI systems as open-source software, researchers and developers can collaborate on improving them and making them more accessible to a wider audience.

Here are some ideas for how to develop responsible AI governance that allows for innovation in EOSC and other Open Science infrastructures:

- Establish clear ethical principles for AI. These principles should be based on human values and should reflect the needs of the EOSC and Open Science communities.
- Develop transparent and accountable processes for AI governance. These processes should involve all stakeholders, including researchers, developers, users, and the public.

How can we develop responsible AI governance that encourages increased trust? Share your ideas!

Use blockchain technology to hardware trust in systems

Inclusiveness: AI governance should be inclusive of all stakeholders, including researchers, developers, users, and the public. This means that everyone should have a voice in how AI is developed and used. Inclusiveness helps to ensure that AI systems are fair and just and that they meet the needs of all users.

Ethics: AI governance should be guided by ethical principles, such as fairness, transparency, and accountability. These principles should be reflected in the design, development, and use of AI systems. Ethical governance helps to ensure that AI systems are used for good and that they do not harm individuals or society. Here are some specific ideas for how to implement these principles in EOSC and other AI infrastructures:

Having experts in the governance board, IRB and guides on the validation of AI algorithms and tools. Include public perspectives in the assessment (Lysaght T, Lim HY, Xafis V, Ngiam KY. AI-Assisted Decision-making in Healthcare: The Application of an Ethics Framework for Big Data in Health and Research. Asian Bioeth Rev. 2019 Sep 12;11(3):299-314. doi: 10.1007/s41649-019-00096-0).

Bye encouraging thé benchmarking

Accountability: There should be clear mechanisms for accountability for the development and use of AI systems. This means that we should be able to hold people and organizations accountable for the harm caused by AI systems. Accountability helps to build trust in AI systems and ensures that they are used in a responsible way.

Establish a clear and transparent AI governance framework. This framework should define the roles and responsibilities of different stakeholders, as well as the processes for developing, deploying, and monitoring AI systems. Create an AI ethics review board. This board would be responsible for reviewing AI systems before they are deployed to ensure that they meet ethical standards. Require AI developers and deployers to disclose information about their systems.

To develop responsible AI governance in EOSC and other AI infrastructures that encourage increased trust, we need to focus on the following areas:
Transparency: AI systems should be transparent and understandable to humans. This means that we should be able to understand how they work, what data they are trained on, and what decisions they are making. Transparency helps to build trust in AI systems and allows people to identify and address potential problems.

This information should include the purpose of the system, the data it is trained on, and how it makes decisions. Provide users with control over their data and how it is used in AI systems. This includes giving users the right to opt out of having their data used in AI systems. Support research and development in responsible AI. This includes research on AI ethics, AI governance, and AI safety.

Developing transparency that the participants agree and making it open source.

How can we develop responsible AI governance for ethical decision-making related to systems deployed on EOSC and other Open Science infrastructures?

Bye training health research actors in ethics in research

Accountability: There should be clear mechanisms for accountability for the development and use of AI systems. This means that we should be able to hold people and organizations accountable for the harm caused by AI systems. Accountability helps to ensure that AI systems are used in a responsible way.

Ethics review: All AI systems deployed on EOSC and other Open Science infrastructures should be subject to an ethics review.

Establish a clear and transparent AI governance framework. This framework should define the roles and responsibilities of different stakeholders, as well as the processes for developing, deploying, and monitoring AI systems. Create an AI ethics review board. This board would be responsible for reviewing AI systems before they are deployed to ensure that they meet ethical standards.

In addition to the above, here are some specific ideas for how to address the specific issues you mentioned:

Human in the loop: Having humans in the loop of AI decision-making can help to ensure that decisions are made in an ethical and responsible way. For example, humans can be involved in reviewing the outputs of AI systems and making final decisions based on those outputs.

Ethics Review.

effective governance frameworks, ethical principles

To develop responsible AI governance for ethical decision-making related to systems deployed on EOSC and other Open Science infrastructures, we need to focus on the following areas:

Transparency: AI systems should be transparent and understandable to humans. This means that we should be able to understand how they work, what data they are trained on, and what decisions they are making.

This review should be conducted by a panel of experts who can assess the ethical implications of the system and make recommendations for how to mitigate any potential risks.

Bias mitigation: AI systems should be designed and trained in a way that minimizes bias. This includes using diverse training data and developing techniques to detect and correct bias in AI systems.

Require AI developers and deployers to disclose information about their systems. This information should include the purpose of the system, the data it is trained on, and how it makes decisions. Provide users with control over their data and how it is used in AI systems. This includes giving users the right to opt out of having their data used in AI systems.

Bias mitigation: There are a number of techniques that can be used to mitigate bias in AI systems. For example, developers can use diverse training data and develop techniques to detect and correct bias in AI systems. **Monitoring:** AI systems should be monitored regularly to identify and address any potential problems. This monitoring can be done using a variety of techniques, such as human oversight, automated monitoring tools, and feedback from users.

Transparency helps to ensure that AI systems are used in an ethical way and that they can be held accountable for their decisions.

Human oversight: Humans should be involved in the development, deployment, and monitoring of AI systems. This ensures that AI systems are used in a way that aligns with human values and that they do not harm individuals or society.

Monitoring: AI systems should be monitored regularly to ensure that they are performing as expected and that they are not causing any harm. This monitoring should be conducted by a team of experts who can identify and address any potential problems.

Here are some specific ideas for how to implement these principles in EOSC and other AI infrastructures:

Support research and development in responsible AI. This includes research on AI ethics, AI governance, and AI safety. By taking these steps, we can develop responsible AI governance for ethical decision-making related to systems deployed on EOSC and other Open Science infrastructures. This will help to ensure that AI systems are used in a way that benefits society and that they do not harm individuals or groups.

Ethics review: An ethics review process can help to ensure that AI systems are developed and used in an ethical way. This process should be conducted by a panel of experts who can assess the ethical implications of the system and make recommendations for how to mitigate any potential risks.

The members of an ethics board monitoring and doing ethics review.

How can we develop responsible AI governance in EOSC and other Open Science infrastructures that ensures a positive societal impact ?

Bye developing partnership

To develop responsible AI governance in EOSC and other Open Science infrastructures that ensures a positive societal impact, we need to focus on the following areas: Transparency: AI systems should be transparent and understandable to humans. This means that we should be able to understand how they work, what data they are trained on, and what decisions they are making. Transparency helps to build trust in AI systems and allows people to identify and address potential problems.

- Ethics: AI governance should be guided by ethical principles, such as fairness, transparency, and accountability. These principles should be reflected in the design, development, and use of AI systems. Ethical governance helps to ensure that AI systems are used for good and that they do not harm individuals or society.

Here are some specific ideas for how to implement these principles in EOSC and other Open Science infrastructures:

. These goals could include things like reducing bias in AI systems, increasing transparency and accountability, and ensuring that AI systems are used for good.

- Monitoring plan: We need to develop a monitoring plan to track our progress towards our measurable goals. This monitoring plan should include things like collecting data on bias in AI systems, assessing the transparency and accountability of AI systems, and evaluating the impact of AI systems on society.

Here are some additional thoughts on how to ensure a positive societal impact:

- Focus on AI systems that are aligned with human values. This means developing AI systems that are fair, just, and beneficial to society.
- Involve all stakeholders in the development and use of AI systems. This includes researchers, developers, users, and the public. By involving all stakeholders, we can ensure that AI systems are developed and used in a way that meets the needs of everyone.

Monitoring plan.

Accountability: There should be clear mechanisms for accountability for the development and use of AI systems. This means that we should be able to hold people and organizations accountable for the harm caused by AI systems. Accountability helps to ensure that AI systems are used in a responsible way.

Inclusiveness: AI governance should be inclusive of all stakeholders, including researchers, developers, users, and the public. This means that everyone should have a voice in how AI is developed and used. Inclusiveness helps to ensure that AI systems are fair and just and that they meet the needs of all users.

Establish a clear and transparent AI governance framework. This framework should define the roles and responsibilities of different stakeholders, as well as the processes for developing, deploying, and monitoring AI systems.

Create an AI ethics review board. This board would be responsible for reviewing AI systems before they are deployed to ensure that they meet ethical standards.

Require AI developers and deployers to disclose information about their systems. This information should include the purpose of the system, the data it is trained on, and how it makes decisions.

Bias mitigation: We need to implement bias mitigation techniques in the development and use of AI systems. These techniques could include using diverse training data, developing algorithms that are resistant to bias, and conducting bias audits of AI systems. By taking these steps, we can develop responsible AI governance in EOSC and other Open Science infrastructures that ensure a positive societal impact.

I think this area will divide, but I want to see the development and strengthening of social commons rather than encouraging commercialization of anything.

Accountability: There should be clear mechanisms for accountability for the development and use of AI systems. This means that we should be able to hold people and organizations accountable for the harm caused by AI systems. Accountability helps to ensure that AI systems are used in a responsible way.

- Ethics: AI governance should be guided by ethical principles, such as fairness, transparency, and accountability. These principles should be reflected in the design, development, and use of AI systems. Ethical governance helps to ensure that AI systems are used for good and that they do not harm individuals or society.

Here are some specific ideas for how to implement these principles in EOSC and other Open Science infrastructures:

Provide users with control over their data and how it is used in AI systems. This includes giving users the right to opt out of having their data used in AI systems.

Support research and development in responsible AI. This includes research on AI ethics, AI governance, and AI safety.

In addition to the above, here are some specific ideas for how to address the issues you mentioned:

- Measurable goals: We need to develop measurable goals for responsible AI governance.

Monitor the impact of AI systems on society. This includes collecting data on the social and economic impacts of AI systems, as well as the ethical implications of AI systems. By monitoring the impact of AI systems, we can identify potential problems and take steps to address them.

Which Aspects of AI Policy are you most interested in Long Term ?

