



EU White Paper Workshop

AI 4 Belgium

.AGORIA



AI4Belgium – EU Whitepaper Workshop

!!!MEETING RULES!!!

- You are muted as a standard
- During the presentation there will be no spoken questions
- Please ask your questions in the Chat
- In the Feedback session, if you want to talk
 - Indicate in the Chat that you want to talk!
 - State your name and organisation!
 - Ask your question or make your comment briefly

AI4Belgium – EU Whitepaper Workshop

- **Workshop format** – Jelle Hoedemaekers, Agoria
- **Welcome** – Nathanael Ackerman, AI4Belgium
- **Introduction to AI Whitepaper** – Bjoern Juretzki, DG CNECT
- **Q&A session using Chat function**
- **Feedback round**, Nathalie Smuha, KULeuven
- **Conclusion**

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Welcome

Nathanael Ackerman, AI4Belgium

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AI Whitepaper

Bjoern Juretzki, DG CNECT



White Paper on Artificial Intelligence

AI4Belgium, 25th March

A balanced approach

An ecosystem of excellence

- AI has enormous potential
- Our competitors are rushing in
- The EU needs to step up its efforts

An ecosystem of trust

- AI creates certain risks
- We need a public debate about these risks
- If regulatory intervention is needed, it should be a common European one

An ecosystem of *excellence*

6 actions to lead in AI

To stay competitive in this key technology for our future well-being, the EU needs to

- increase investment,
- improve coordination
- foster deployment.

Some key actions:

- Set up a new Public-Private Partnership on AI
- Set up at least one AI-dedicated Digital Innovation Hub per country
- Revise AI Coordinated Action Plan together with Member States
- Support excellence and world-reference testing centres

Ecosystem of trust

Social acceptance of robotics and AI

| | 2012 | 2014 | 2017 |
|--|------|------|------|
| General favourability | 74% | 74% | 61% |
| Steal jobs | 70% | 70% | 72% |
| Could do my job | | 36% | 44% |
| Being comfortable with a robot at work | 48% | 48% | 35% |

An ecosystem of *trust*

Liability and safety

- *Effective application and enforcement of existing EU and national legislation: lack of transparency makes it difficult to identify possible breaches of law*
- *Limitations of scope: Is stand-alone software covered?*
- *Changing functionality of AI systems: how to handle frequent software from a safety certification point of view*
- *Changes to the concept of safety: cyber safety, risks from loss of connectivity*

An ecosystem of *trust* AI HLEG with 52 experts



***Published
on 8 April
2019***

Deliverable 1

Ethics Guidelines for
Trustworthy AI

Vice-Chair: Nozha
Boujemaa

**Chair:
Pekka Ala-Pietilä**



23
companies



19 academia



10 civil society

Deliverable 2

Policy & Investment
Recommendations

Vice-Chair: Barry
O'Sullivan

***Published
on 26 June
2019***

Ethical Guidelines for AI



Human agency and oversight



Diversity, non-discrimination and fairness



Technical Robustness and safety



Societal & environmental well-being



Privacy and data governance



Accountability



Transparency

To be continuously implemented & evaluated throughout AI system's life cycle

Pilot phase of AI ethics guidelines

Goal: Assessment of the Guidelines' Assessment List (implementability, relevance for different sectors, completeness, clarity) through:

- **Feedback via online survey with organisations (around 450) & via European AI Alliance forum: quantitative analysis**
- **Deep Dive with selected organisations: qualitative analysis**
 - 50 organisations participating
 - All sectors and all company sizes and types covered
- **Important input for regulatory framework of AI**

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Regulatory framework for AI

- *Providing a legal definition of AI*
- *Risk-based approach: intervention should be proportionate*
- *Legal obligations only for high-risk applications*
- *Cumulative criteria to determine high-risk applications:*
 - *Sector with significant risks AND*
 - *The specific application is also particularly risky*

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Regulatory framework for AI

- *Only high-risk applications would need to be required to fulfil a set of requirements*
 - *Training data*
 - *Keeping records of data*
 - *Information provision*
 - *Robustness and accuracy*
 - *Human oversight*
 - *Specific requirements for remote biometric identification*

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Regulatory framework for AI

- *Conformity assessment of whether high-risk applications fulfil requirements (including testing, inspection and certification)*
- *Similar to what is happening in other areas: chemicals, medical devices, etc.*
- *If system does not fulfil standards, it could be required to be re-trained in Europe*
- *Support structure for SMEs, e.g. certification schemes in Digital Innovation Hubs*

An ecosystem of *trust*

Regulatory framework for AI

- *Voluntary labelling scheme: certification of conformity with requirements for non-high risk applications*
- *Governance structure: Network of national authorities*

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Regulatory framework for AI

- *Still many open questions:*
 - *Legal definition of AI*
 - *Identifying high-risk applications*
 - *Set of requirements: Lack of standards, e.g. for robustness*
 - *Is conformity assessment appropriate and practical?*
 - *Do we need special rules for remote biometric identification?*

Your input is crucial!

Q&A

- Ask your Questions in the Chat
- Moderators will ask the questions to Bjoern

Feedback

- Indicate in the Chat that you want to take the floor!
- Be clear, be brief!

AI4Belgium – Next Steps

- Provide Written feedback by **27 March**
 - To jelle.hoedemaekers@agoria.be & nathalie.smuha@kuleuven.be.
- AI4Belgium draft feedback **15 April**
- Final remarks until **1 May**
- Upload AI4Belgium feedback **18 May**

Closing

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Thank you

For your attention

■ **AI 4 Belgium**

By & for People 24