







| Basic information | |
|---|---------------------|
| 2020/2012(INL) INL - Legislative initiative procedure | Procedure completed |
| Framework of ethical aspects of artificial intelligence, robotics and related technologies Subject 3.30.06 Information and communication technologies, digital technologies 3.30.16 Ethical information policy 3.40.06 Electronics, electrotechnical industries, ICT, robotics | |

| Key players | | | | |
|---------------------|-----------------------|---|---|------------|
| European Parliament | Committee responsible | | Rapporteur | Appointed |
| | JURI | Legal Affairs | GARCÍA DEL BLANCO Ibán (S&D) | 15/01/2020 |
| | | | Shadow rapporteur DIDIER Geoffroy (EPP) SÉJOURNÉ Stéphane (Renew) LAGODINSKY Sergey (Greens/EFA) STANCANELLI Raffaele (ECR) LEBRETON Gilles (ID) MAUREL Emmanuel (GUE /NGL) | |
| | Committee for opinion | | Rapporteur for opinion | Appointed |
| | AFET | Foreign Affairs (Associated committee) | PAET Urmas (Renew) | 12/11/2019 |
| | EMPL | Employment and Social Affairs | GÁLVEZ Lina (S&D) | 11/02/2020 |
| | ENVI | Environment, Public Health and Food Safety | JARUBAS Adam (EPP) | 06/02/2020 |
| | IMCO | Internal Market and Consumer Protection (Associated committee) | GEESE Alexandra (Greens /EFA) | 18/02/2020 |
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|-------------|---|---|------------|
| TRAN | Transport and Tourism (Associated committee) | FLEGO Valter (Renew) | 15/01/2020 |
| CULT | Culture and Education | KOHUT Łukasz (S&D) | 03/02/2020 |
| LIBE | Civil Liberties, Justice and Home Affairs (Associated committee) | KANKO Assita (ECR) | 19/02/2020 |
| AFCO | Constitutional Affairs | The committee decided not to give an opinion. | |

| Key events | | | |
|------------|---|---|---------|
| Date | Event | Reference | Summary |
| 16/01/2020 | Committee referral announced in Parliament | | |
| 16/01/2020 | Referral to associated committees announced in Parliament | | |
| 01/10/2020 | Vote in committee | | |
| 08/10/2020 | Committee report tabled for plenary | A9-0186/2020 | |
| 19/10/2020 | Results of vote in Parliament |  | |
| 19/10/2020 | Debate in Parliament |  | |
| 20/10/2020 | Decision by Parliament | T9-0275/2020 | Summary |
| 20/10/2020 | Results of vote in Parliament |  | |
| 20/10/2020 | End of procedure in Parliament | | |
| 21/10/2020 | Results of vote in Parliament |  | |
| 22/10/2020 | Results of vote in Parliament |  | |
| 23/10/2020 | Results of vote in Parliament |  | |

| Technical information | |
|----------------------------|--|
| Procedure reference | 2020/2012(INL) |
| Procedure type | INL - Legislative initiative procedure |
| Procedure subtype | Request for legislative proposal |
| Legal basis | Rules of Procedure EP 47 |
| Other legal basis | Rules of Procedure EP 165 |
| Stage reached in procedure | Procedure completed |

Documentation gateway

European Parliament

| Document type | Committee | Reference | Date | Summary |
|---|----------------------|------------------------------|------------|-------------------------|
| Committee draft report | | PE650.508 | 21/04/2020 | |
| Amendments tabled in committee | | PE652.504 | 02/06/2020 | |
| Amendments tabled in committee | | PE652.548 | 02/06/2020 | |
| Committee opinion | AFET | PE650.401 | 24/06/2020 | |
| Committee opinion | IMCO | PE648.496 | 08/07/2020 | |
| Committee opinion | CULT | PE648.348 | 03/09/2020 | |
| Committee opinion | EMPL | PE648.298 | 07/09/2020 | |
| Committee opinion | TRAN | PE646.983 | 08/09/2020 | |
| Committee opinion | ENVI | PE648.284 | 16/09/2020 | |
| Committee opinion | LIBE | PE652.296 | 23/09/2020 | |
| Committee report tabled for plenary, single reading | | A9-0186/2020 | 08/10/2020 | |
| Text adopted by Parliament, single reading | | T9-0275/2020 | 20/10/2020 | Summary |

Framework of ethical aspects of artificial intelligence, robotics and related technologies

2020/2012(INL) - 20/10/2020 - Text adopted by Parliament, single reading

The European Parliament adopted by 559 votes to 44, with 88 abstentions, with recommendations to the Commission on a framework of ethical aspects of artificial intelligence, robotics and related technologies.

Human-centric and human-made artificial intelligence

Parliament called on the Commission to propose a comprehensive regulatory framework of ethical principles and legal obligations relating to the development, deployment and use of artificial intelligence, robotics and related technologies within the Union, including the software, algorithms and data used or produced by these technologies.

This framework should be based on Union law, the Charter and international human rights law, and applicable, in particular, to high-risk technologies, in order to establish equal standards throughout the Union.

Such an approach should allow companies to introduce innovative products onto the market and create new opportunities, while ensuring the protection of Union values by leading to the development of AI systems which incorporate Union ethical principles by design. Such a values-based regulatory framework would represent added value by providing the Union with a unique competitive advantage.

Principles of the requested regulation

The 'Regulation on ethical principles for the development, deployment and use of artificial intelligence, robotics and related technologies' should be based on the following principles:

- human-centric, human-made and human-controlled artificial intelligence, robotics and related technologies;
- mandatory compliance assessment of high-risk artificial intelligence, robotics and related technologies and the issuing by the competent national supervisory body of a European certificate of ethical compliance when the assessment is positive;

- safety, transparency and accountability: technologies should be used in a secure manner, inform users that they are interacting with artificial intelligence systems and allow, in case of non-compliance with the stated safety features, temporary deactivation restoring safe functionality;
- safeguards and remedies against bias and discrimination;
- right to redress;
- social responsibility and gender equality in artificial intelligence, robotics and related technologies;
- environmentally sustainable artificial intelligence, robotics and related technologies;
- respect for privacy and limitations on the use of biometric recognition;
- good governance relating to artificial intelligence, robotics and related technologies, including the data used or produced by such technologies.

Institutional control

Each Member State should designate an independent public body to monitor the application of the Regulation and to carry out risk and compliance assessments and certification.

Coordination at Union level should be ensured by the Commission and/or the competent Union institutions, bodies, offices and agencies that may be designated for this purpose, in order to ensure consistent application of the Regulation. The Commission should thus: (i) ensure consistent risk assessment of AI, (ii) cooperate with national supervisory bodies; (iii) act as a centre of expertise by promoting the exchange of information on AI; (iv) host a working group on security and defence to examine strategic and investment issues specifically related to the ethical use of artificial intelligence in these areas.