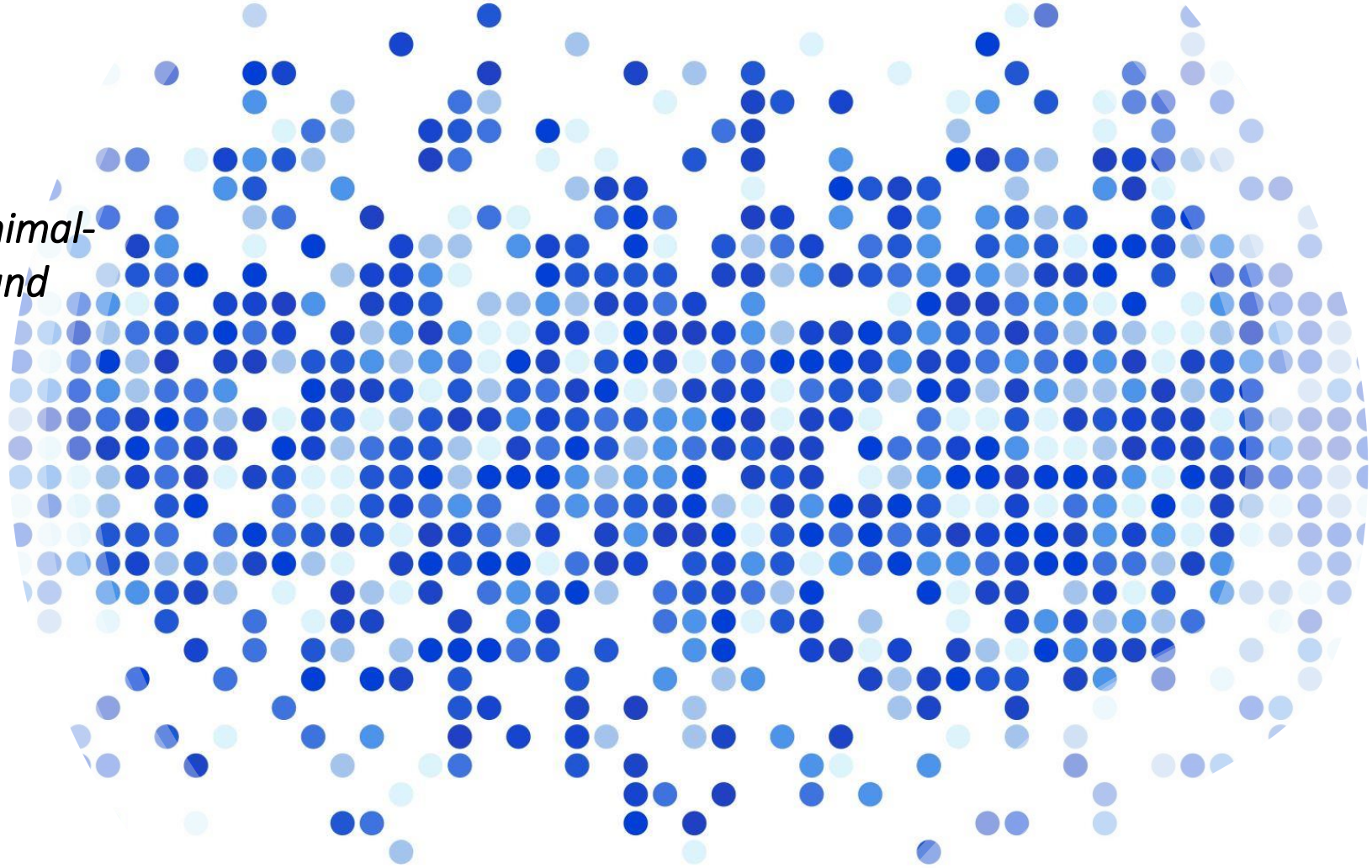
The European Union Artificial Intelligence Act

Handbook

Limited- and Minimal-Risk AI Systems and GPAI

August 2024



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What is the EU AI Act Handbook?

The EU AI Act Handbook is a comprehensive guide that outlines the legislative and other provisions made under the EU AI Act.

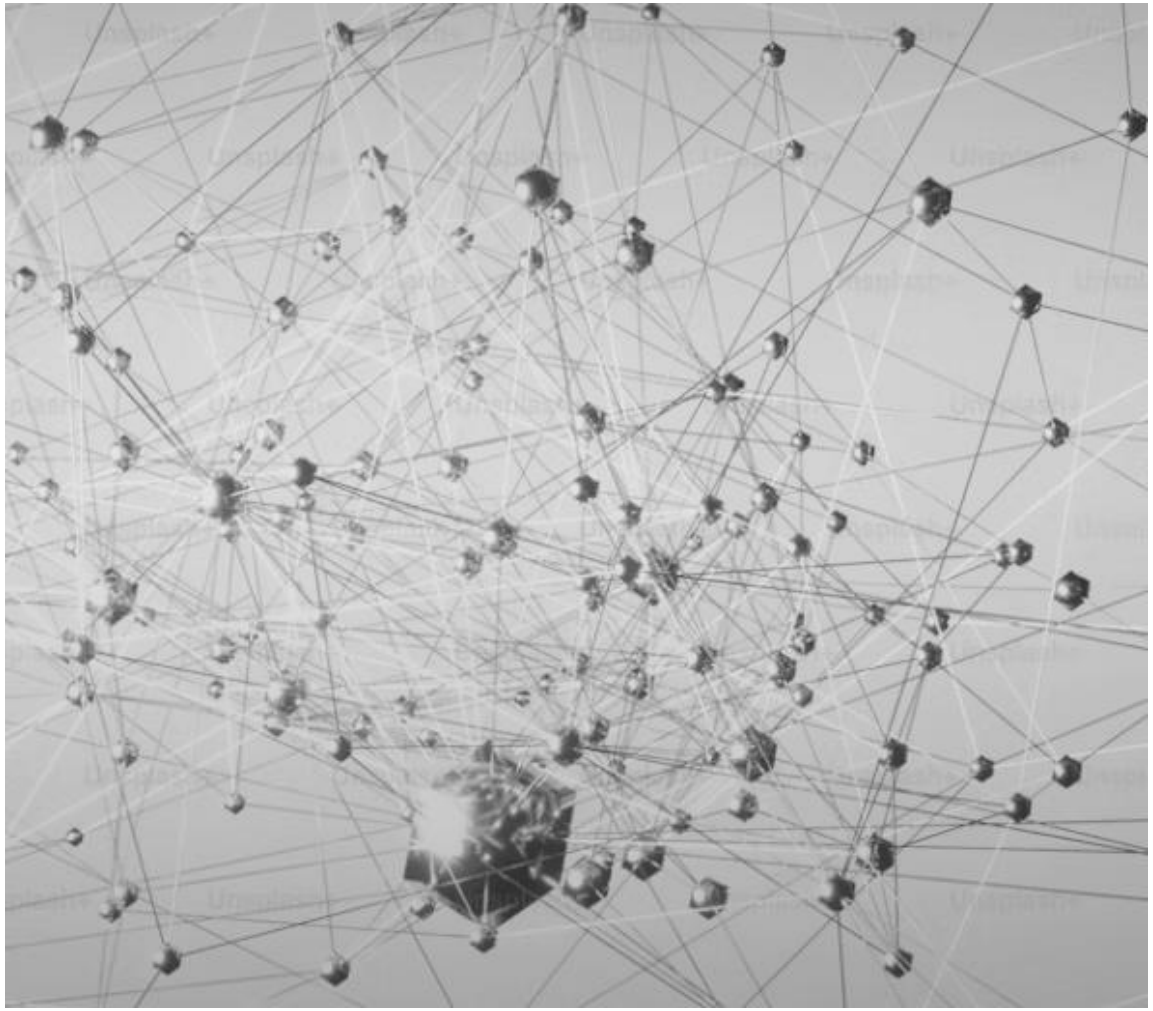
It is designed to ensure the safe and ethical development, deployment, and use of AI systems within the European Union. The Handbook provides detailed explanations of the Act's requirements, including prohibited AI practices, high-risk AI systems, and governance structures.

Content

Limited-Risk AI Systems: This section details AI systems that do not pose significant risks but still require some level of oversight and compliance. These systems are not classified as high-risk but may influence decision-making processes in a limited capacity.

Minimal-Risk AI Systems: This section details AI systems that do not pose significant risks to health, safety, or fundamental rights. These systems are typically used for non-critical applications and do not require stringent regulatory oversight.

GPAI: This sections details AI models that can perform a wide range of tasks and are not limited to specific applications. These models require additional components to become full AI systems and are subject to specific obligations if they present systemic risks.



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Description (Including Legislative Reference)

- **Legislative Reference**: Not explicitly detailed in the provided references but inferred from the general structure of the EU AI Act. **Article 6**: Classification rules for high-risk AI systems, which indirectly define limited systems by *exclusion*.
- **Description**: Those that do not pose significant risks to health, safety, or fundamental rights but still require some level of oversight and compliance.

Factors to be Taken into Account

- **Intended Use**: The specific purpose for which the AI system is designed, particularly if it involves non-critical applications that do not significantly impact health, safety, or fundamental rights.
- **Impact on Decision-Making**: Whether the AI system performs a narrow procedural task, improves the result of a previously completed human activity, or performs a preparatory task without materially influencing decision-making outcomes.
- **Human Oversight**: The extent to which the AI system's outputs are subject to human review and oversight, ensuring that the system does not replace or unduly influence human judgment.
- **Compliance with Standards**: Adherence to relevant standards and best practices to ensure the system's reliability and safety, even if it is not subject to the same level of regulatory scrutiny as high-risk systems.

Real-World Examples

- **Example 1: AI in Customer Service Chatbots:** AI systems used in customer service chatbots to handle routine inquiries and provide information to customers.
- **Example 2: AI in Personal Finance Management:** AI systems used in personal finance management apps to provide users with budgeting advice and financial planning tips.
- **Example 3: AI in Language Translation Tools:** AI systems used in language translation tools to assist users in translating text or speech from one language to another.

Limited Risk

Description (Including Legislative Reference)

- **Legislative Reference**: Not explicitly detailed in the provided references but inferred from the general structure of the EU AI Act. **Article 6**: Classification rules for high-risk AI systems, which indirectly define minimal-risk systems by *exclusion*.
- **Description**: Those that do not pose significant risks to health, safety, or fundamental rights. These systems are typically used for non-critical applications and do not require stringent regulatory oversight.

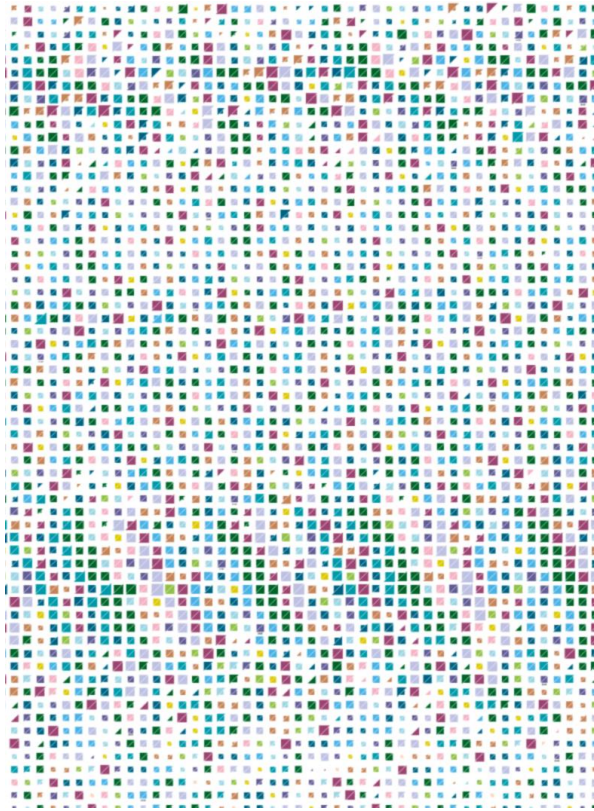
Factors to be Taken into Account

- **Intended Use**: The specific purpose for which the AI system is designed, particularly if it involves non-critical applications that do not impact health, safety, or fundamental rights.
- **Impact on Decision-Making**: Whether the AI system performs a narrow procedural task, improves the result of a previously completed human activity, or performs a preparatory task without materially influencing decision-making outcomes.
- **Human Oversight**: The extent to which the AI system's outputs are subject to human review and oversight, ensuring that the system does not replace or unduly influence human judgment.
- **Compliance with Standards**: Adherence to relevant standards and best practices to ensure the system's reliability and safety, even if it is not subject to the same level of regulatory scrutiny as high-risk systems.

Real-World Examples

- **Example 1: AI in Entertainment Recommendations:** AI systems used in streaming services to recommend movies, music, or shows based on user preferences.
- **Example 2: AI in Basic Data Analysis:** AI systems used for basic data analysis tasks, such as summarizing data trends or generating simple reports.
- **Example 3: AI in Simple Automation Tasks:** AI systems used for simple automation tasks, such as scheduling meetings or managing email filters.

Minimal Risk



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GPAI

Description (Including Legislative Reference)

- Legislative Reference:
  - Recital 97: Defines the notion and scope of general-purpose AI models.
  - Chapter V, Section 1: Classification rules for general-purpose AI models.
  - Chapter V, Section 2: Obligations for providers of general-purpose AI models.
  - Annex XI: Technical documentation requirements.
- Description: Defined by their ability to competently perform a wide range of distinct tasks. These models are typically trained on large datasets using various methods such as self-supervised, unsupervised, or reinforcement learning. They can be distributed in multiple ways, including through libraries, APIs, direct downloads, or physical copies. General-purpose AI models require additional components, such as user interfaces, to become full AI systems.

Factors to be Taken into Account

- Intended Use: The specific tasks the model is designed to perform and the type of AI systems it can be integrated into.
- Compliance with Standards: Adherence to relevant standards and best practices to ensure the model's reliability and safety.
- Evaluation and Testing: Detailed evaluation strategies, including adversarial testing and model adaptations, to identify and mitigate risks.
- Transparency and Documentation: Comprehensive technical documentation, including information on the model's architecture, training data, and evaluation results.
- Systemic Risk: Assessment of whether the model poses systemic risks based on its capabilities and impact, as outlined in Article 51 and Annex XIII.

Real-World Examples

- Example 1: Large Language Models (LLMs): AI models like GPT-3, which can generate human-like text and perform a variety of language-related tasks such as translation, summarization, and question-answering.
- Example 2: AI in Image Recognition: AI models used in image recognition applications, such as identifying objects in photos or videos, which can be integrated into various systems like security cameras or medical imaging tools.
- Example 3: AI in Autonomous Vehicles: AI models used in autonomous driving systems to interpret sensor data and make driving decisions, which can be integrated into self-driving cars.

Thank you!

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