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# The EU AI and Digital Services Acts and their relevance for the remote sensing industry

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# **Agenda**



- I. Origin of the EU AI Act
- II. The EU AI Act
- III. Relevance of the EU AI Act for the remote sensing industry
- IV. Short introduction to the EU Digital Services Act



# I. Origin of the EU AI Act

21. April 2021

Presentation of the EU AI Act by the EU Commission



22. March 2022

Report of the AIDA Committee of the EU Parliament

14. June 2023

EP agreement on common position

# I. Origin of the Al Act



- Start of the trialogue
- (Then) Expected completion by the end of 2024





- Negotiations come to a standstill
- Headwinds from Germany, Italy and France

6 to 8 December 2023

- Renewed round of negotiations
- Compromise decision

13. March 2024

- Al Act passes EP
- Expected to pe published in EU journal in June 2024





Risk Pyramide



Prohibited/Banned AI according to AI Act with exceptions Example: Social scoring systems

High-risk AI (HRAI) permitted according to Al Act - but certain requirements must be met, plus additional obligations for operators, users, etc.

General Purpose AI (GPAI) two-track regulatory model: (1) extensive obligations for GPAI models with systematic risks and (2) limited obligations for all other GPAI models

Al systems that are intended to interact with natural persons

permitted according to Al Act:
Transparency/information obligations towards users

Other AI systems

Basic obligations for all AI systems and introduction of Code of Conducts where applicable

# Obligations along the supply chain - addressees of the EU Al Act



#### Provider, Art. 3 No. 3

Anyone developing an Al system or a general-purpose Al model or that has an Al system or a general-purpose Al model developed and places it on the market or puts the Al system into service under its own name or trademark, whether for payment or free of charge

#### Distributor, Art. 3 No. 7

Anyone, other than the provider or the importer, that makes an Al system available on the Union market

#### Importer, Art. 3 No. 6

- located or established in the EU
- special form of distributor
- placing on the market or putting into service of non-European Al systems in the Union

#### Deployer, Art. 3 No. 4

- Professional use of an Al system under your own responsibility
- Companies and organizations using Al systems in the EU

# Definition of AI system according to the EU AI Act:



"a machine-based system that is designed to operate with varying levels of autonomy and that may exhibit adaptiveness after deployment, and that, for explicit or implicit objectives, infers, from the input it receives, how to generate outputs

such as predictions, content, recommendations, or decisions that can influence physical or virtual

- - → Al in remote sensing industry?
  - → E.g. Software that calculates a forecast of possible flooding scenarios based on training data, topographical maps, satellite data, weather reports and messages on social media



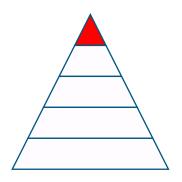
# **Prohibited Al Practices**

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- Al systems or applications that manipulate human behavior to circumvent users' free will
- Systems through which authorities evaluate social behavior (social scoring)
- Biometric remote identification in real time
- Systems for predictive policing
- Categorization based on sensitive characteristics

#### following a decision in the trilogue:

- Emotion recognition systems no longer prohibited in law enforcement and border protection
- Biometric remote identification in real time and ex-post now permitted in exceptional cases (especially law enforcement)



# High-risk Al

- Al systems with high risk
- divided into two types of categories:
- Products or safety components of products that are <u>subject to EU</u> product safety legislation and (!) must undergo a <u>third party</u> conformity assessment before being placed on the market or put into service

2. Al systems listed in Annex II Risk to health, safety and fundamental rights

Education

Employment

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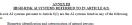
 Critical infrastructures

Public services

Prosecution

Border controls

Administration of justice



 (a) All systems intended to be used for the 'real-time' and 'post' remote biomet identification of natural persons;
 Management and operation of critical infrastructure:

(a) AI systems intended to be used as safety components in the management at operation of road traffic and the supply of water, gas, heating and electricity.

(a) Al systems intended to be used for the puspose of determining access or assigning natural persons to educational and vocational training institutions;
 (b) Al systems intended to be used for the puspose of assessing students in

educational and vocational training institutions and for assessing participants in tests commonly required for admission to educational institutions.

4. Employment, workers management and access to self-employment:

(a) All systems intended to be used for recruitment or selection of natural persons, nonably for advertising vacancies, screening or filtering applications, evaluating candidates in the course of interviews or tests;
(b) I constuded to your for making desiring an expensation and termination of

(b) Al intended to be used for making decisions on promotion and termination of work-feedaded contracted relationships, for task allocation and for monitoring and evaluating performance and behavior of persons in such relationships. Access to and enjoyment of essential private services and public services and homeful.

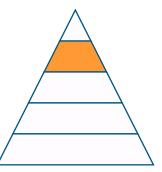
(a) Al systems intended to be used by public authorities or on behalf of public nuthorities to evaluate the eligibility of natural persons for public assistance benefits and services, as well as to grant, reduce, revoke, or reclaim such benefits and services;

 (b) All systems intended to be used to evaluate the creditmorthiness of natural persons or entablish their credit score, with the exception of Al systems put into service by small scale providers for their own me;
 (c) Al systems intended to be used to dispatch, or to establish priority in the

(c) AI systems intended to be used to dispatch, or to establish priority in dispatching of emergency first response services, including by firefighters medical aid.
Law enforcement:

(a) Al systems intended to be used by law enforcement authorities for making individual risk assessments of natural persons in order to assess the risk of a natural person for offending or reoffending or the risk for potential victims of criminal offences;

 (b) All systems infenses to be used by law enforcement authorities as polygraphs and similar tools or to detect the emotional state of a natural person;





or

# High-risk Al

 Al systems with high risk, divided into two types of categories:

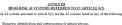
Critical infrastructure: Al systems intended to be used as safety components in the management and operation of critical digital infrastructure, road traffic, or in the supply of water, gas, heating or electricity

Al systems listed in Annex II
Risk to health, safety and
fundamental rights

- Education
- Employment
- Critical infrastructures

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- Public services
- Prosecution
- Border controls
- Administration of justice



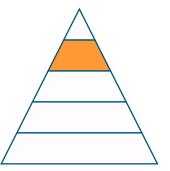
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- work-related contractual relationships, for task allocation and for memoring and evaluating performance and behavior of persons in such relationships.

  5. Access to and enjoyment of essential private services and public services and benefits:
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# High-risk Al

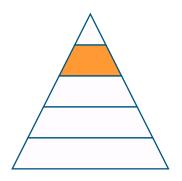


# Requirements for AI systems with high risk, among others:

- Carrying out conformity assessments
- Integration of quality and risk management systems
- Data Quality
- Registration
- Post-market surveillance by supervisory authorities

After trilogue: filter system to capture only genuine high-risk Al

- even if the Al system formally falls under the catalog of high-risk
   Al, it loses its classification if the requirements of the filter
   system are met
- e.g.: Al only checks or improves human activity or only fulfills narrow procedural tasks

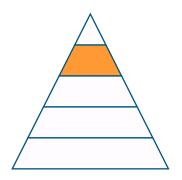


# High-risk Al

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Art. 12 EU Al Act - Data and Data Governance

Para. 1: "High-risk AI systems which make use of techniques involving the training of AI models with data shall be developed on the basis of training, validation and testing data sets that meet the quality criteria referred to in paragraphs 2 to 5 whenever such data sets are used."

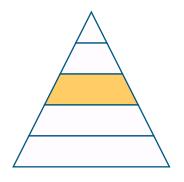


# General Purpose Al Model (GPAI):



- GPAI are the AI technologies on which the generative AI applications are based - in the case of the well-known language model ChatGPT, for example, the GPAI is GPT-4
- Definition should comprehensively cover very large generative AI models
- Welcome exceptions for research, development and prototyping activities

- → Consequence: Obligations for providers of large GPAI (e.g. OpenAI)
- → Consequence: Obligations for deployers of Al on the basis of GPAI



# General Purpose Al Model (GPAI):

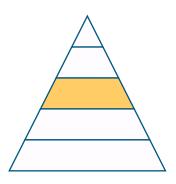
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# Minimum requirements for all GPAI:

- Technical documentation
- Information for downstream providers and users
- Transparency obligations
- Compliance with copyright laws

# Obligations for GPAIs with systemic risks:

- > more extensive obligations
- > currently only include the largest language models
- → GPAIs are not subject to further obligations of the AI Act
- → Obligations will only apply to Al applications



# Al systems that are intended to interact with natural persons



# Transparency obligations under Art. 50 EU Al Act

- Obligation of providers to design AI systems in such a way that it is clear that they are AI when used
- Information obligations, including on specific Al-supported functions of the system, human supervision and the person responsible for Al decision-making processes
- Users of emotion recognition and biometric categorization systems must provide information about their use
- Users who create/manipulate text, audio or visual content with Al must disclose this in some cases

# Other Al systems (no high-risk Al or GPAI)



- Rather limited "obligations"
- Art. 4 EU Al Act: "Providers and deployers of Al systems shall take measures to ensure, to their best extent, a sufficient level of Al literacy of their staff and other persons dealing with the operation and use of Al systems on their behalf, taking into account their technical knowledge, experience, education and training and the context the Al systems are to be used in, and considering the persons or groups of persons on whom the Al systems are to be used."

# III. Relevance of the EU AI Act for the remote sensing industry

# The specific impact of the EU AI Act on companies in the remote sensing industry depends on various factors

- > Type of specific Al applications used (in particular, whether high-risk Al or not)
- ➤ In most cases, the AI Act will not apply directly to remote sensing companies
- ➤ However, they will especially with data products contribute to Al systems and therefore, providers will flow down obligations to remote sensing companies

#### Thus:

Remote sensing companies must at least familiarize themselves with relevant "indirect" obligations



# **Objectives**

- Adapt the EU legal framework for illegal content on intermediaries (e.g. online platforms)
- Modernization of the e-Commerce Directive adopted in 2000
- Harmonization of EU laws (prior directive had to be transformed into national laws)
- Ban illegal content and disinformation
- Ensure transparent advertising

#### Scope of application

- Intermediary service providers (e.g. online platform providers) offering services to users in the EU, irrespective of whether the intermediary service provider is established in the EU
- Types of intermediaries:
  - Access services, e.g. telephone service providers such as AOL and Deutsche Telekom or internet access services such as T-Online and Vodafone (Art. 3 g) i) EU DSA),
  - Caching services, e.g. CDN providers such as Leaseweb or Fastly (Art. 3 g) ii) EU DSA)
  - Hosting services, e.g. web hosting providers such as Jimdo and online marketplaces such as Etsy or Ebay (Art. 3 g) iii) EU DSA)
  - Online platforms, e.g. social networks such as Facebook and Tik Tok (Art. 3 i) EU DSA) and
  - Online search engines, e.g. Google or DuckDuckGo (Art. 3 j) DSA).

#### Some of the legal obligations

- Obligations depend on the type of intermediary
- Some of the obligations are
  - remove illegal content
  - Only allow targeted advertising in limited circumstances
  - certain reporting obligations
- Further obligations put on "very large online platforms" and very "large online search engines"
  - Risk assessment
  - Risk mitigation
  - Crisis response mechanism
  - Independent audit
  - Additional online advertising transparency
  - Data access and scrutiny
  - Compliance function
  - Further transparency obligations

#### Why would this be relevant for remote sensing companies?

- List of very large online platforms:
  - Alibaba AliExpress
  - Amazon Store
  - Apple AppStore
  - Booking.com
  - Facebook
  - Google Play
  - Google Maps
  - Google Shopping
  - Instagram
  - LinkedIn
  - Pinterest
  - PornHub
  - [...]



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