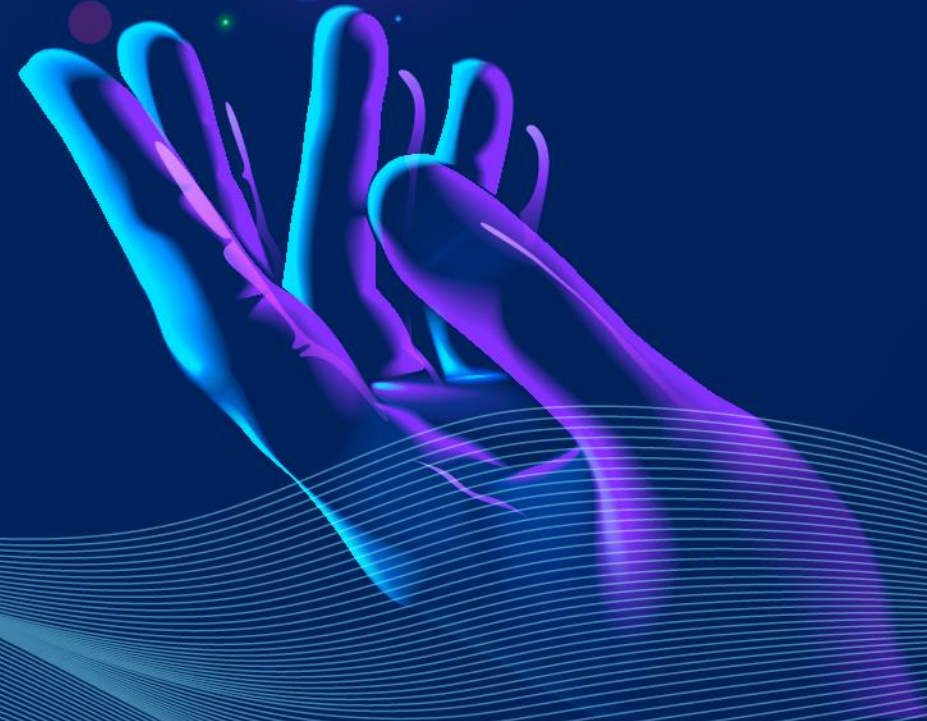




EXCELLENCE
& TRUST



Irina Orssich
DG CNECT, European Commission

8 June 2021



2021 European Commission AI Package

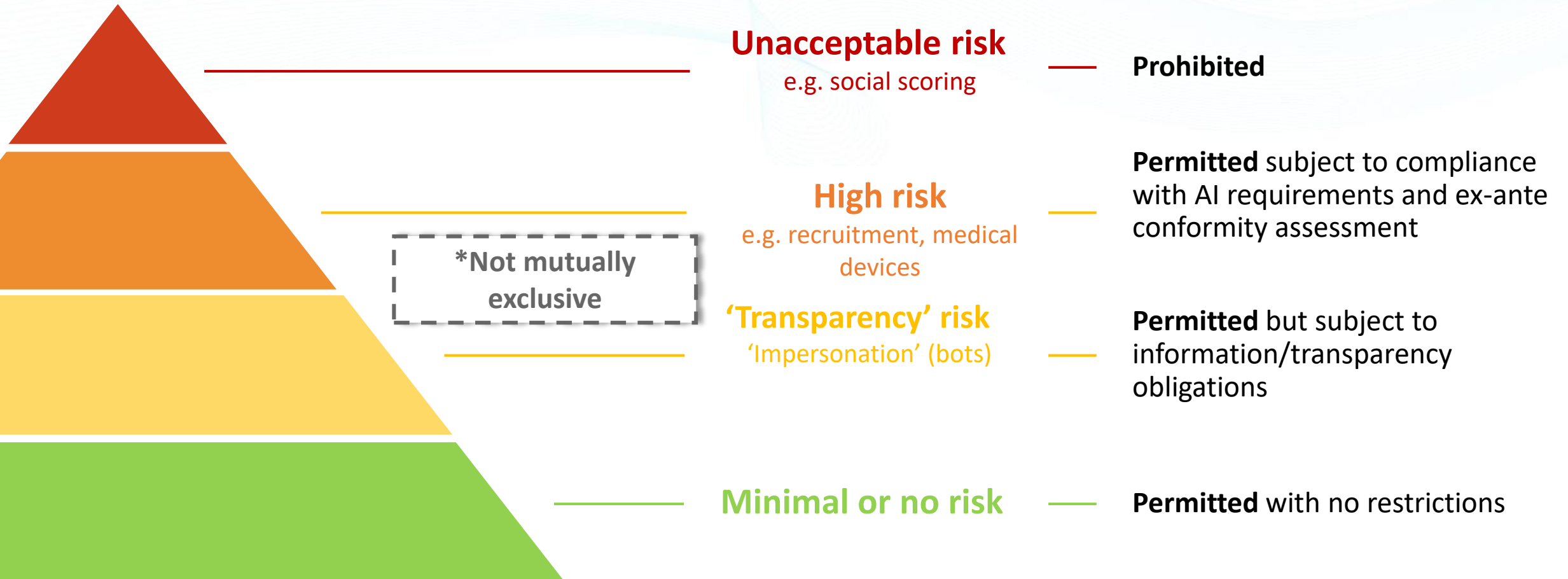


- **Communication:** “Fostering a European approach to AI”
- **Coordinated Plan** on AI 2021 review
- **Proposal for the Artificial Intelligence Act**

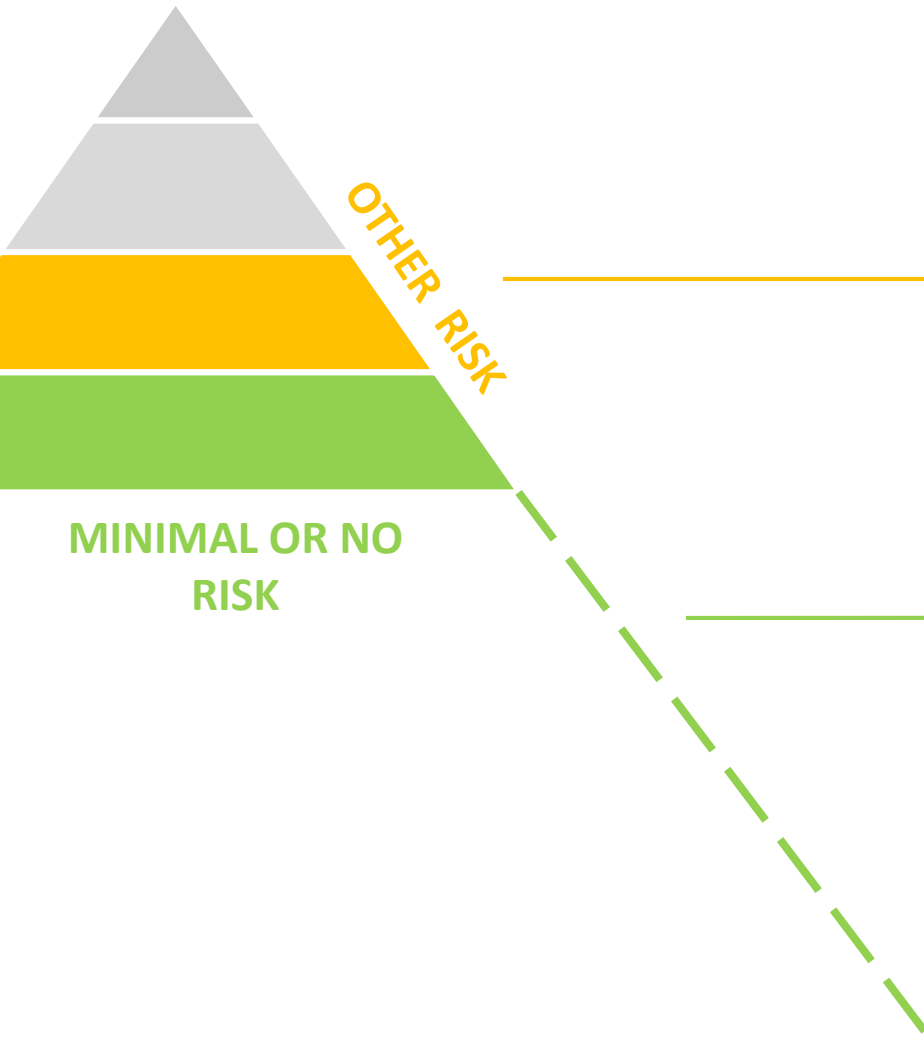


Proposal for the Artificial Intelligence Act

Risk-based approach: overview



Most AI systems will not be high-risk (Titles IV, IX)



New transparency obligations for certain AI systems (Art. 52)

- ▶ **Notify humans** that they are **interacting with an AI system** unless this is evident
- ▶ Notify humans that emotional recognition or biometric categorisation systems are applied to them
- ▶ Apply **label to deep fakes** (unless necessary for the exercise of a fundamental right or freedom or for reasons of public interests)

Possible voluntary codes of conduct for AI with specific transparency requirements (Art. 69)

- ▶ No mandatory obligations
- ▶ Commission and Board to encourage drawing up of codes of conduct intended to foster the **voluntary application of requirements to low-risk AI systems**



Proposal for the Artificial Intelligence Act

Risk-based approach: high risk AI systems

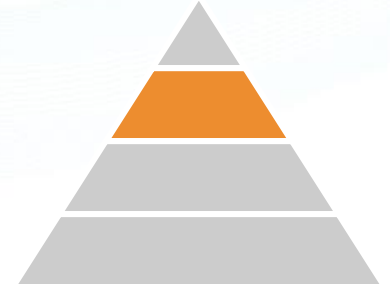
High-risk AI Systems (Title III, Chapter 1 & Annexes II and III)

1 SAFETY COMPONENTS OF REGULATED PRODUCTS

(e.g. medical devices, machinery) which are subject to third-party assessment under the relevant sectorial legislation

2 CERTAIN (STAND-ALONE) AI SYSTEMS IN THE FOLLOWING AREAS

- ✓ Biometric identification and categorisation of natural persons
- ✓ Management and operation of critical infrastructure
- ✓ Education and vocational training
- ✓ Employment and workers management, access to self-employment
- ✓ Access to and enjoyment of essential private services and public services and benefits
- ✓ Law enforcement
- ✓ Migration, asylum and border control management
- ✓ Administration of justice and democratic processes





Proposal for the Artificial Intelligence Act

Requirements for high-risk AI systems

Establish and
implement **risk
management**
processes

&

In light of the
**intended
purpose** of the
AI system

Use high-quality **training, validation and testing data** (relevant, representative etc.)

Establish **documentation** and design logging features (traceability & auditability)

Ensure appropriate certain degree of **transparency** and provide users with **information**
(on how to use the system)

Ensure **human oversight** (measures built into the system and/or to be implemented by
users)

Ensure **robustness, accuracy** and **cybersecurity**



Proposal for the Artificial Intelligence Act AI that contradicts EU values are prohibited

X

Subliminal manipulation
resulting in physical/
psychological harm

Example: An **inaudible sound** is played in truck drivers' cabins to push them to **drive longer than healthy and safe**. AI is used to find the frequency maximising this effect on drivers.

X

Exploitation of children
or mentally disabled persons
resulting in physical/psychological harm

Example: A doll with an integrated **voice assistant** encourages a minor to **engage in progressively dangerous behavior** or challenges in the guise of a fun or cool game.

X

General purpose
social scoring

Example: An AI system **identifies at-risk children** in need of social care **based on insignificant or irrelevant social 'misbehavior'** of parents, e.g. missing a doctor's appointment or divorce.

X

Remote biometric identification for law
enforcement purposes in publicly accessible
spaces (with exceptions)

Example: All faces captured live by video cameras checked, in real time, against a database to identify a terrorist.



Proposal for the Artificial Intelligence Act Specific regulation on remote biometric identification

