Aalto-yliopisto
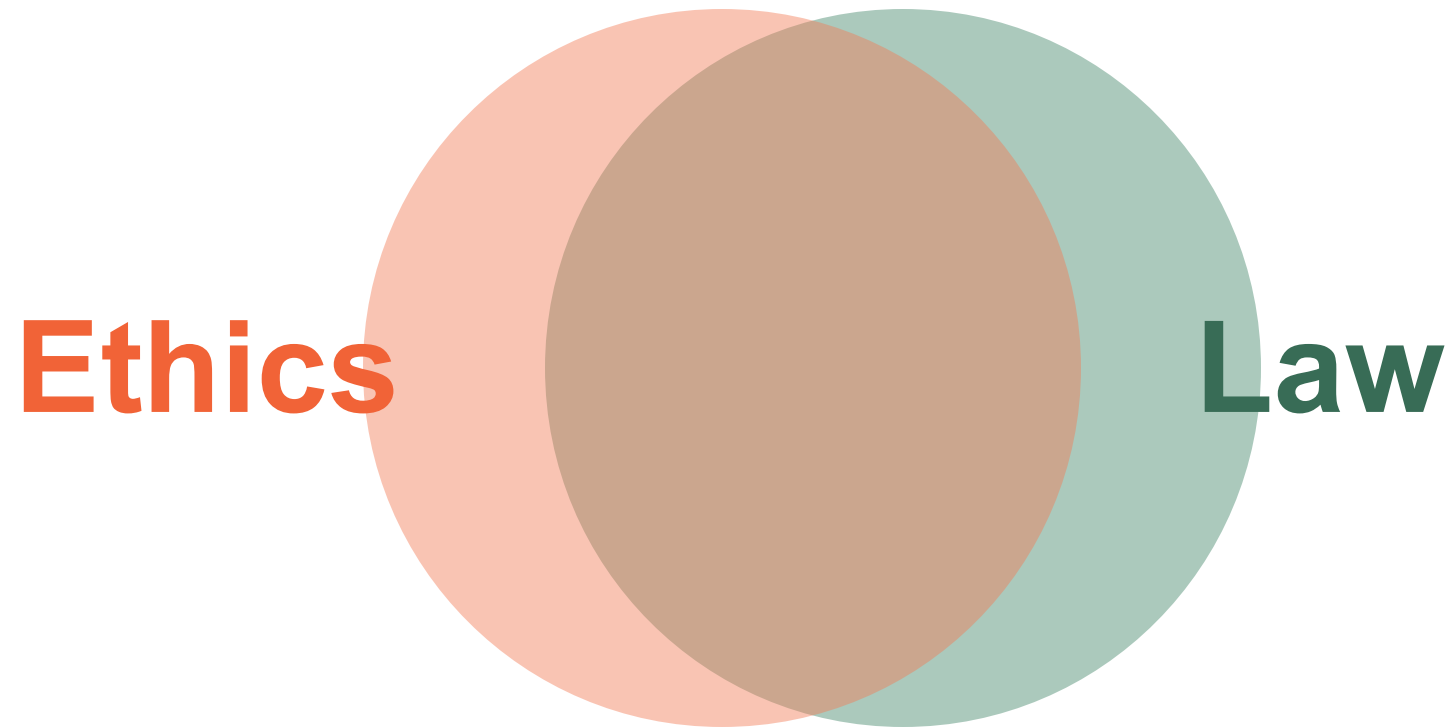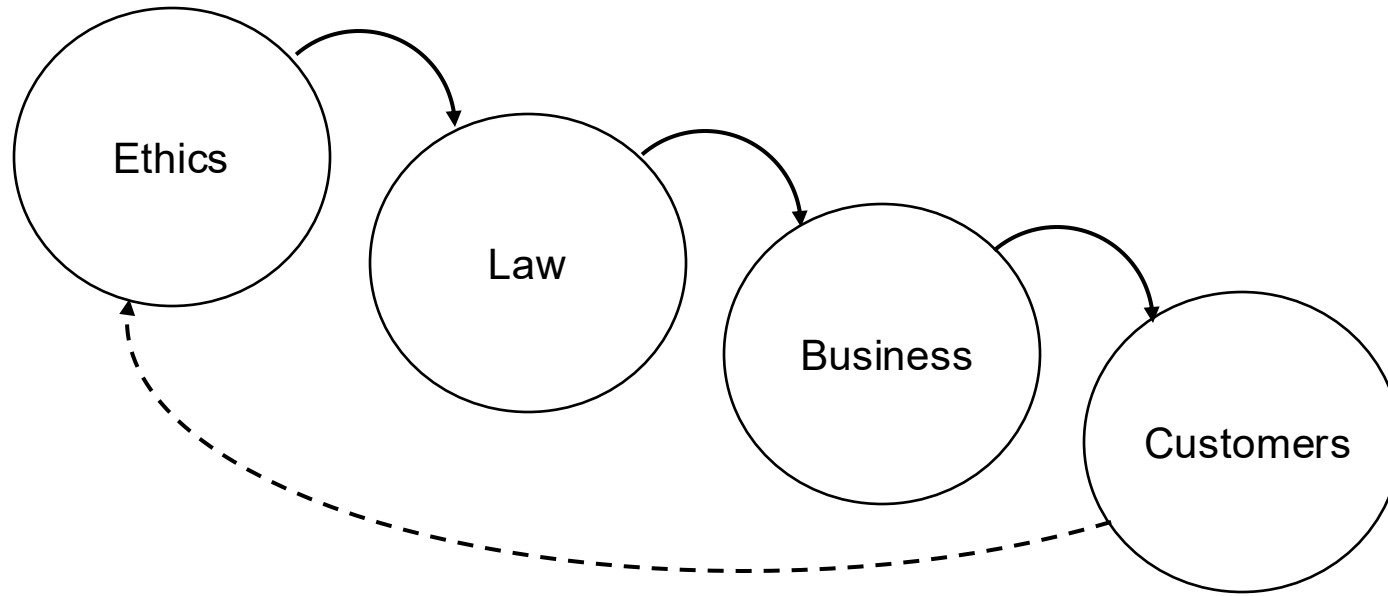**Aalto-universitetet**
Aalto University

Trustworthy AI
From fundamental rights, to opportunities for European companies and researchers

Dr. Enrico Glerean
Staff Scientist and Data Agent at **Aalto University**
Support Pool of Experts at **European Data Protection Board**
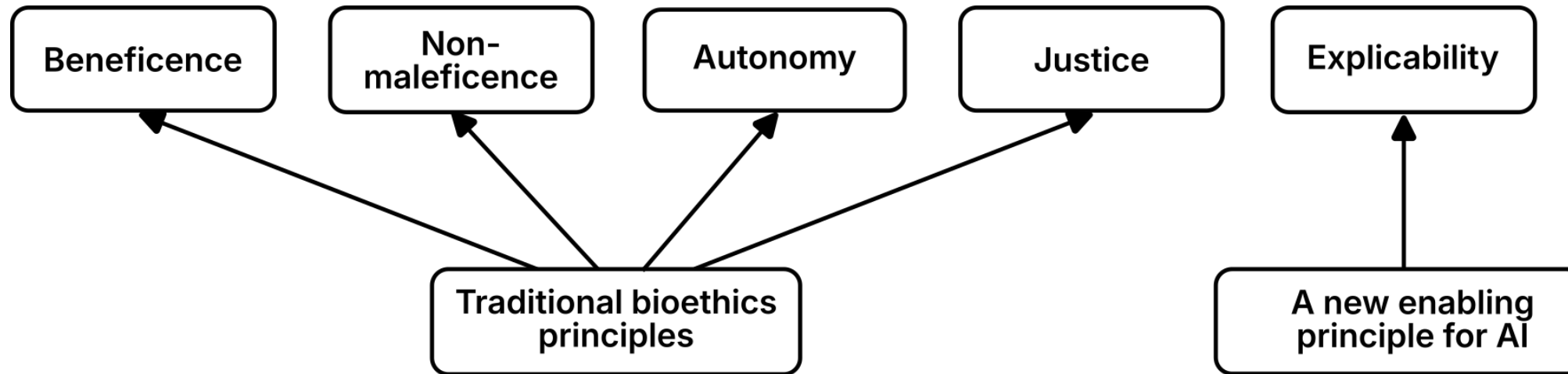
Ethics is not Law

Ethics   Law

Ethics drives the norms of society: Normative cascade

- **Ethics** is not **law**
- **People** decide in what kind of society they want to live and drive change to ethical principles which then affect the law, businesses/universities, and society at large.

Reference: Floridi, L. (2023). The ethics of artificial intelligence: Principles, challenges, and opportunities

A!

25.9.2025   **3**

Unified framework of five principles for ethical AI

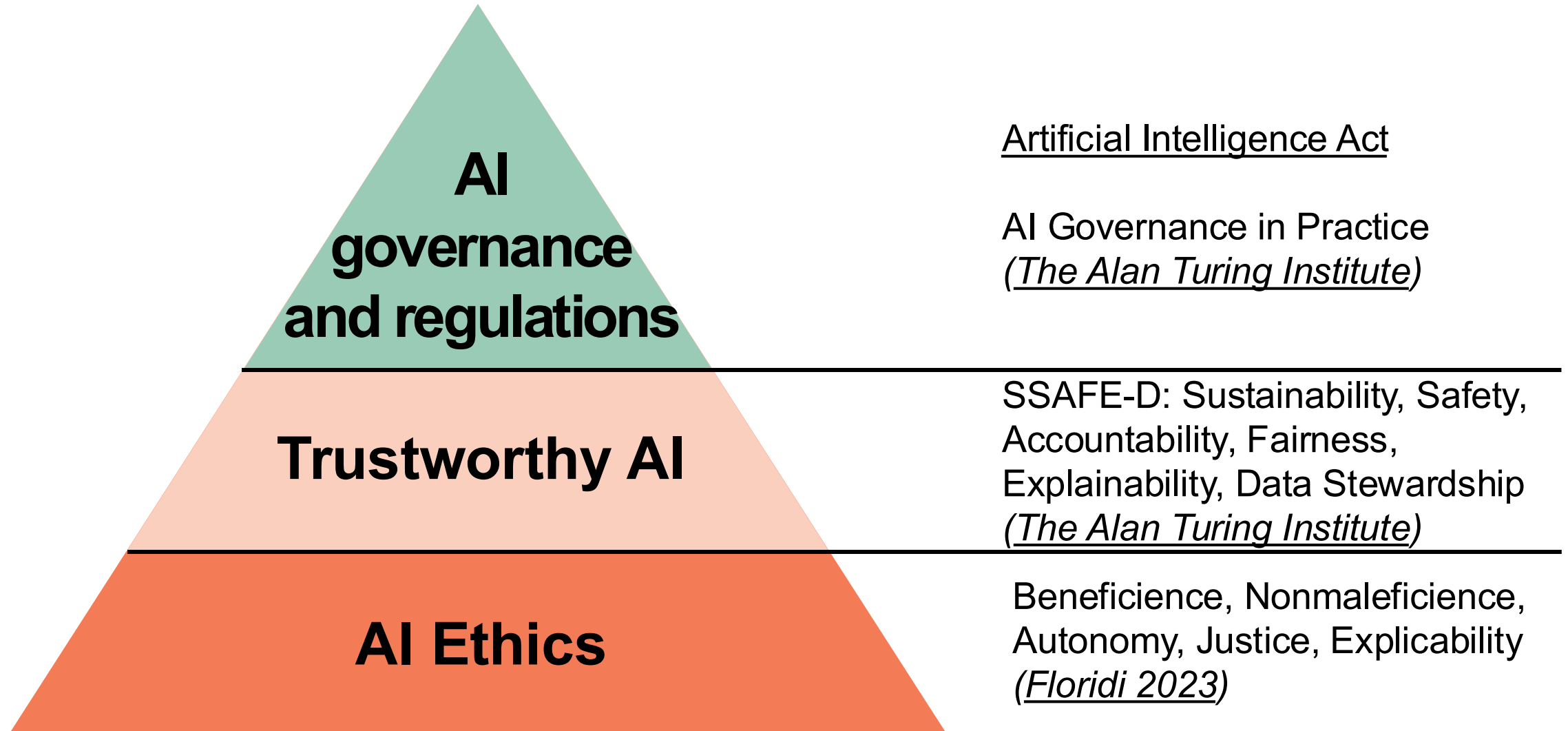*Reference: Floridi, L. (2023). The ethics of artificial intelligence: Principles, challenges, and opportunities.*

AI ethics, Responsible AI, AI governance and AI regulations

AI governance and regulations

Trustworthy AI

AI Ethics

Artificial Intelligence Act

AI Governance in Practice
(*The Alan Turing Institute*)

SSAFE-D: Sustainability, Safety,
Accountability, Fairness,
Explainability, Data Stewardship
(*The Alan Turing Institute*)

Beneficience, Nonmaleficience,
Autonomy, Justice, Explicability
(*Floridi 2023*)

A! Other frameworks mention Fairness, Accountability, Transparency, Explicability, there are many
terms but all closely related (e.g. Responsible AI)

Different roles, different responsibilities

Different roles, require different perspectives on ethical and responsible AI

Developer of AI systems/models

Ethics Consider **AI ethics** and trustworthy AI principles throughout the AI system lifecycle (Sustainability, Safety, Accountability, Fairness, Explainability, Data Stewardship)

Law Compliance: **AI Act** applies if the AI system i) **poses risks** and ii) is not developed solely for research purposes or personal use

Tech Technical robustness: Ensure the correct functioning of the AI system

Users of AI systems/models

Literacy Understand limitations and risks of AI (biases, unclear accountability, lack of transparency/explainability)

Ethics + Law Use AI responsibly and legally (e.g. respect data protection and copyright/IPR)

All Human oversight and awareness (evaluate output, know when AI is in use)

When business and society align their principles, we create the conditions for responsible innovation and a flourishing future.

A!

Finland is the place to be for AI research and innovation

- **ELLIS Institute Finland:** world-class hub in the European AI network
- **Strong investment:** major state + private funding for long-term growth
- **Top talent & infrastructure:** leading researchers and LUMI supercomputer
- **Ecosystem power:** Universities, FCAI, and VTT driving innovation together

Trustworthy AI innovation starts with AI literacy for all

- **Elements of AI**
  (Helsinki University & MinnaLearn, T Roos & V Valtonen)
- **Ethics of AI**
  (Helsinki University, AM Rusanen & JK Nurminen)
- **Law & Compliance in AI Security & Data Protection**
  (European Data Protection Board Support Pool of Experts, M Almada)
- **Fundamentals of Secure AI Systems with Personal Data**
  (European Data Protection Board Support Pool of Experts, E Glerean)
- **Artificial Intelligence 4 Adult Learning**