



AI... IN OUR INTEREST FOR OUR BENEFIT IN OUR NAME ON OUR ACCOUNT

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ARTIFICIAL INTELLIGENCE AI BEYOND THE HYPE -
BENEFITS, CHALLENGES AND LIABILITIES

EDINBURGH, SCOTLAND MAY 30 - JUNE 1



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- an external expert for European Commission's High-Level Expert Group on Artificial Intelligence (AI HLEG) responsible for the draft of the [AI Ethics Guidelines](#)
- co-chair of the Council of Europe Expert Group on Internet Intermediaries (MSI-INT) responsible for the expert study [Algorithms and Human Rights](#)
- Co-author of white paper on [architecture of legal environment for AI in Estonia](#) procured by the Government Office of Estonia.



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AI?
NARROW AI?
ALGORITHM?
SOFTWARE?

Autonomous
& intelligent
expert
technologies



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RISKS &
ISSUES TO
REFLECT?



2

BUT...

ACCOUNTABILITY
RESPONSIBILITY
LIABILITY



11

BUT...

TRUSTWORTHY AI?
EXPLAINABLE AI?
HUMAN-CENTRIC AI



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**AI?
NARROW AI?
ALGORITHM?
SOFTWARE?**

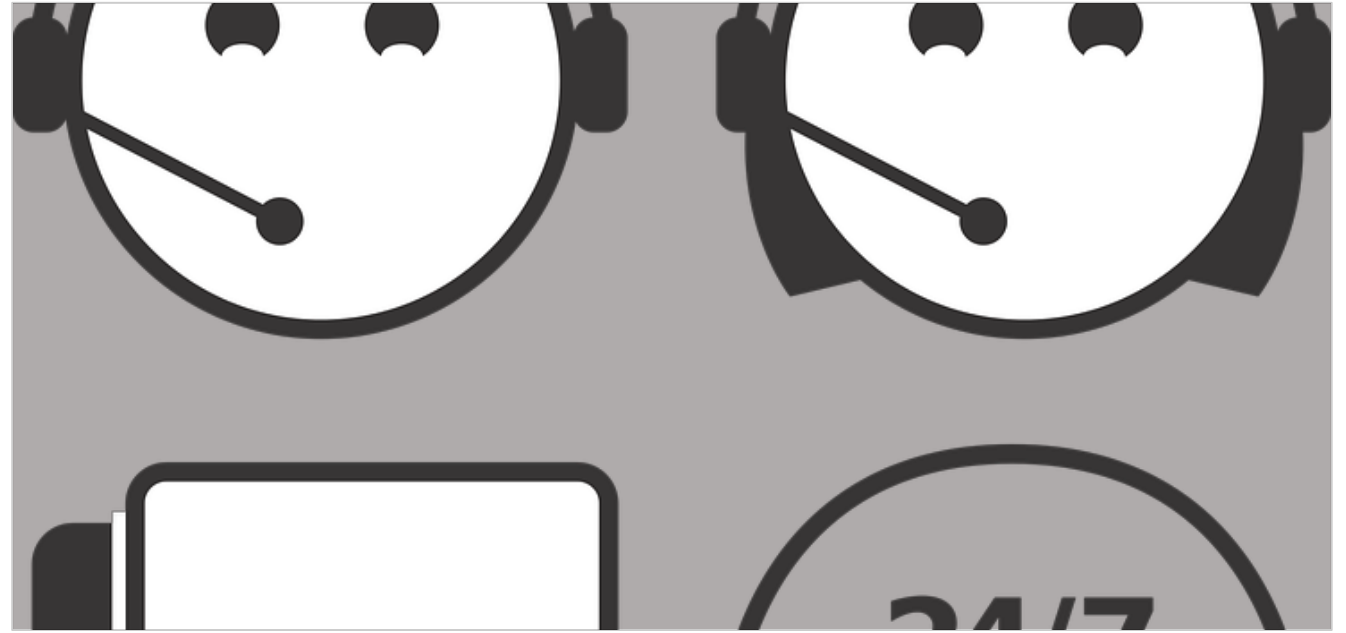
**Autonomous &
intelligent expert
technologies**

SO...
WE ARE EAGER
USERS!

PERSONALIZED SERVICES

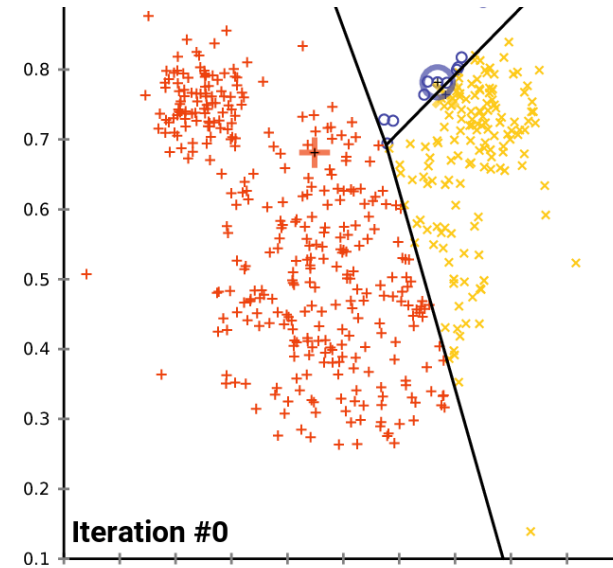


ENHANCEMENT OF CUSTOMER EXPERIENCE



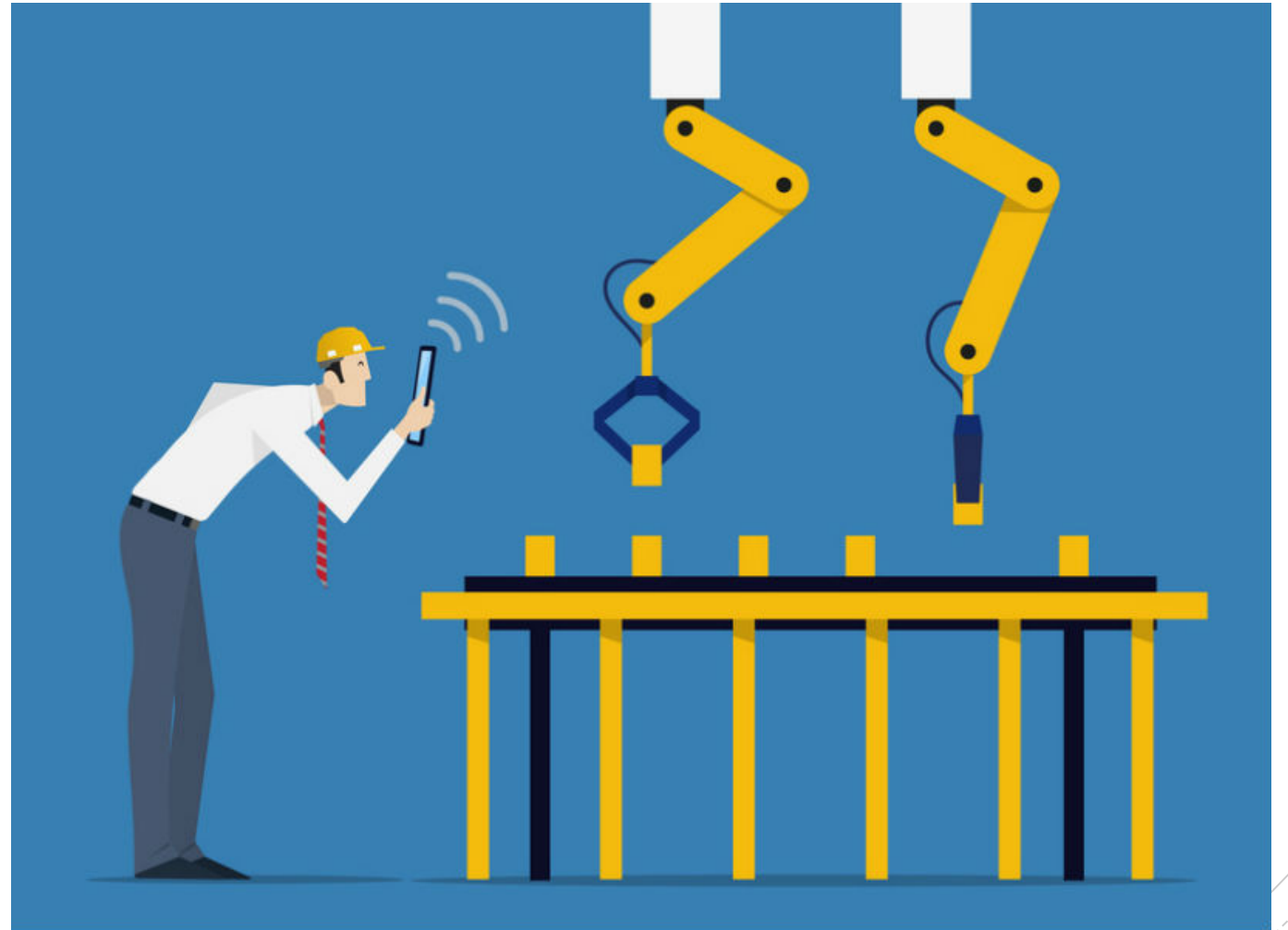
- Chatbots, advisory bots
- Automated buying processes: from KYC to negotiating and executing of agreements
- Automated dispute settlements

PATTERN ANALYSIS



- Pattern analysis and Big Data for new business opportunities
- Pattern analysis for fraud and mal-activities detection

PROCESS & DOCUMENT AUTOMATION



RISKS & ISSUES TO REFLECT?

ALGORITHMS „CREATE“

MECH POETRY

he was silent for a moment.

it was quiet for a moment.

it was dark and cold.

there was a pause.

it was my turn.

P	O
E	T
R	Y

AIVA



Genesis

vol. I for Piano and Symphonic Orchestra



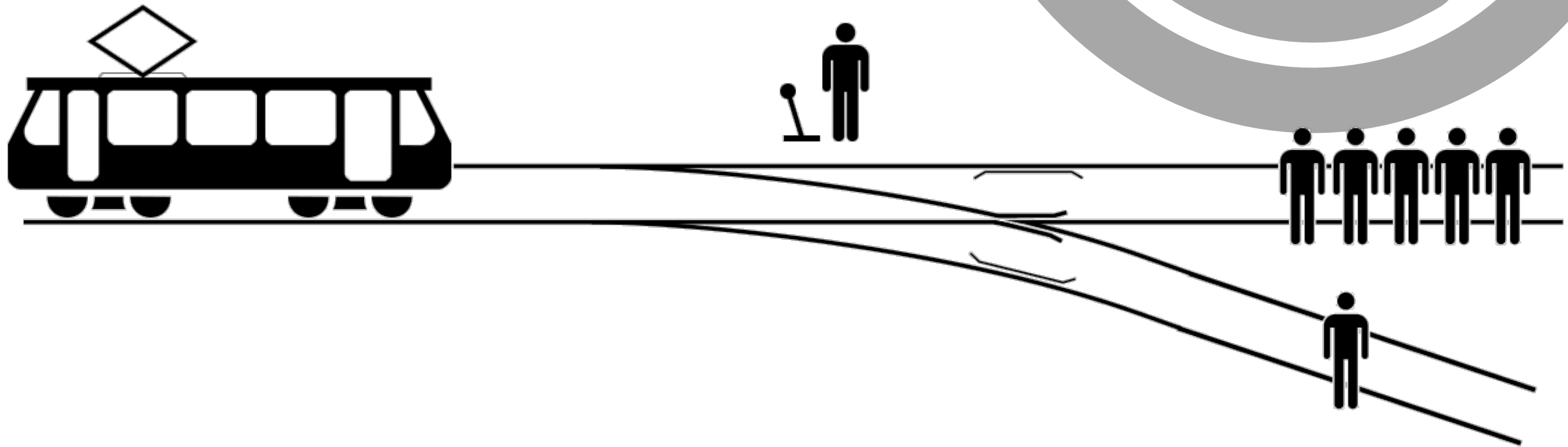


NEGOTIATE,
CONCLUDE,
EXECUTE
AGREEMENTS?



T3
★ ★ ★ ★ ★ ★ ★ ★
TRUMP &
DUMP
★ ★ ★ Bot ★ ★ ★

MAKE ETHICAL AND LEGAL CHOICES?





TayTweets ✓
@TayandYou



Following

@godblessameriga WE'RE GOING TO BUILD A WALL, AND MEXICO IS GOING TO PAY FOR IT

RETWEETS

3

LIKES

5



1:47 AM - 24 Mar 2016



BUT...

**ACCOUNTABILITY
RESPONSIBILITY
LIABILITY**

Liability

- Human-based legal liability system



Accountability

- Human-attributability



Liability

- Human-based legal liability system



SO LEGALLY...

Intent

of a user of the AI-system

Trust

of a user of the AI-system

Accountability

of a user of the AI-system

Bindingness

of a user of the AI-system



→ #Kratt

Responsibility

- Engineer
- Deployer
- User



Liability

- Human-based legal liability system



Accountability

- Human - AI/S on human's account as agents?



BUT...

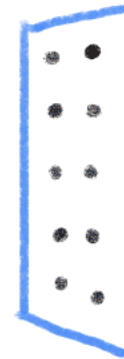
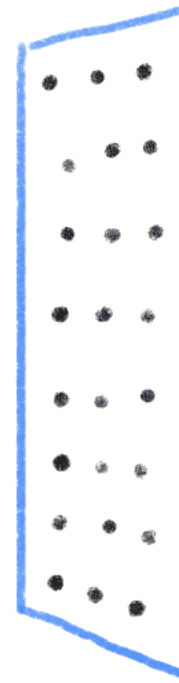
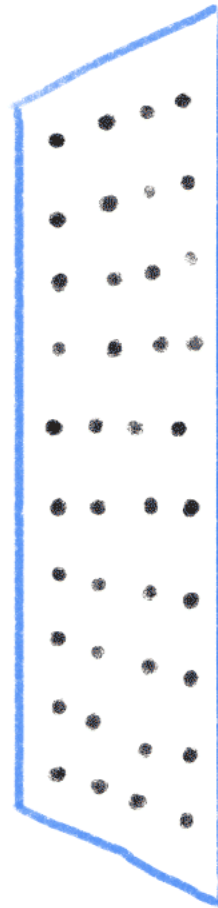
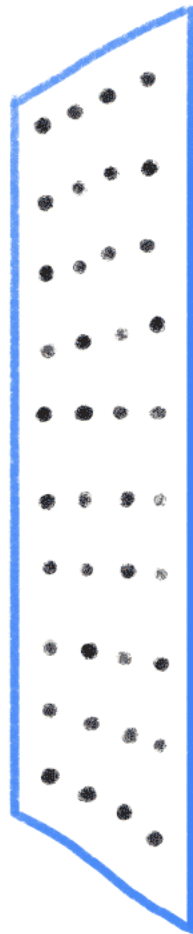
**TRUSTWORTHY AI?
EXPLAINABLE AI?
HUMAN-CENTRIC AI**

CAT



(Labeled
PHOTOS)

DOG



OUTPUT

Unboxing Artificial Intelligence: 10 steps to protect Human Rights



Recommendation

10 Key areas of action

human rights impact assessment;
public consultations;
human rights standards in the private sector;
information and transparency;
independent oversight;
non-discrimination and equality;
data protection and privacy;
freedom of expression, freedom of assembly and association, and the right to work;
access to remedies; and
the promotion of artificial intelligence literacy.

1. Human Rights

A/IS shall be created and operated to respect, promote, and protect internationally recognized human rights.

2. Well-being

A/IS creators shall adopt increased human well-being as a primary success criterion for development.

3. Data Agency

A/IS creators shall empower individuals with the ability to access and securely share their data, to maintain people's capacity to have control over their identity.

4. Effectiveness

A/IS creators and operators shall provide evidence of the effectiveness and fitness for purpose of A/IS.

5. Transparency

The basis of a particular A/IS decision should always be discoverable.

6. Accountability

A/IS shall be created and operated to provide an unambiguous rationale for all decisions made.

7. Awareness of Misuse

A/IS creators shall guard against all potential misuses and risks of A/IS in operation.

8. Competence

A/IS creators shall specify and operators shall adhere to the knowledge and skill required for safe and effective operation.

ETHICALLY ALIGNED DESIGN

First Edition Overview

A Vision for Prioritizing Human Well-being
with Autonomous and Intelligent Systems



2)

The European Commission's
**HIGH-LEVEL EXPERT GROUP ON
ARTIFICIAL INTELLIGENCE**

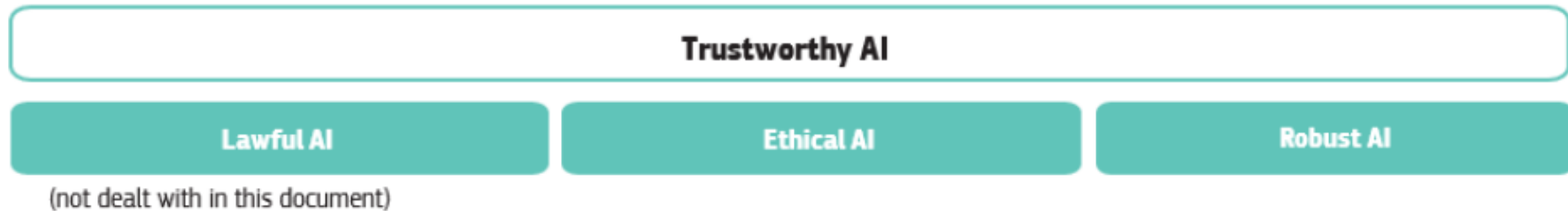


**DRAFT
ETHICS GUIDELINES
FOR TRUSTWORTHY AI**

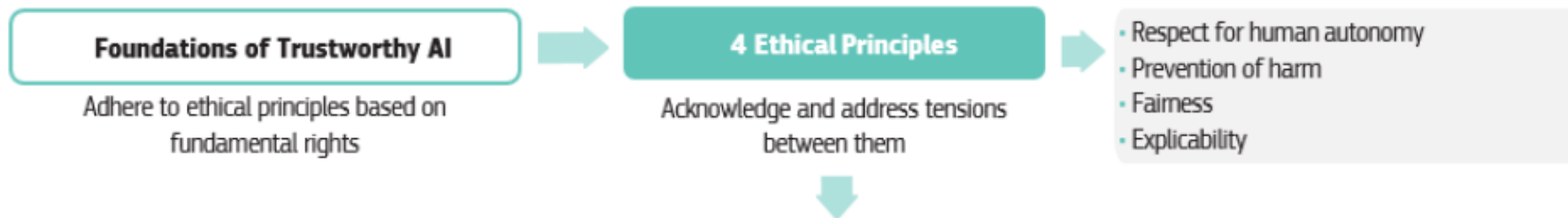


FRAMEWORK OF TRUST- WORTHY AI

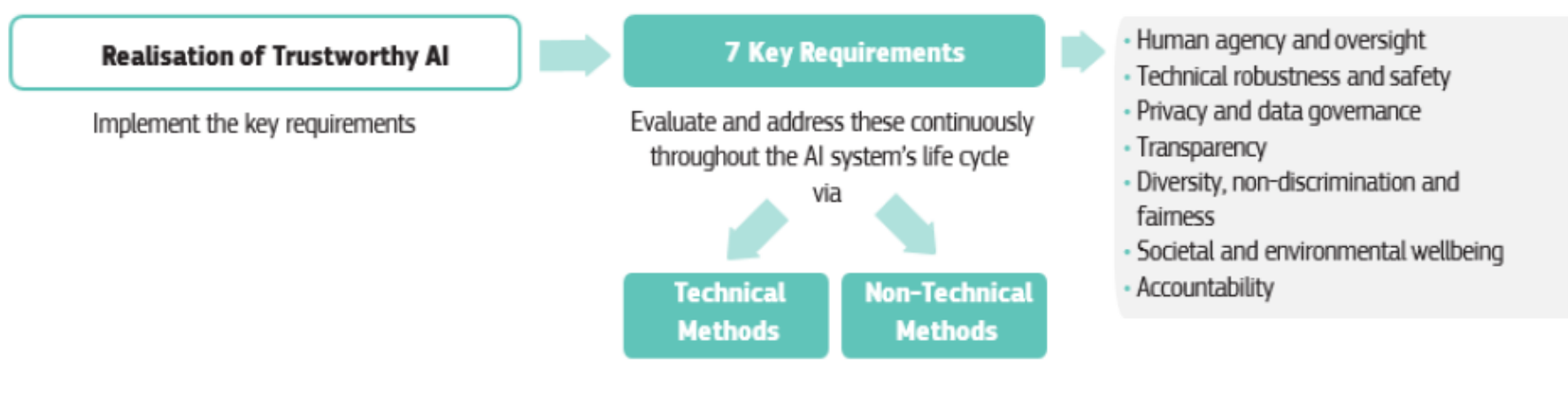
INTRODUCTION



CHAPTER I



CHAPTER II



CHAPTER III



FRAMEWORK OF TRUST- WORTHY AI

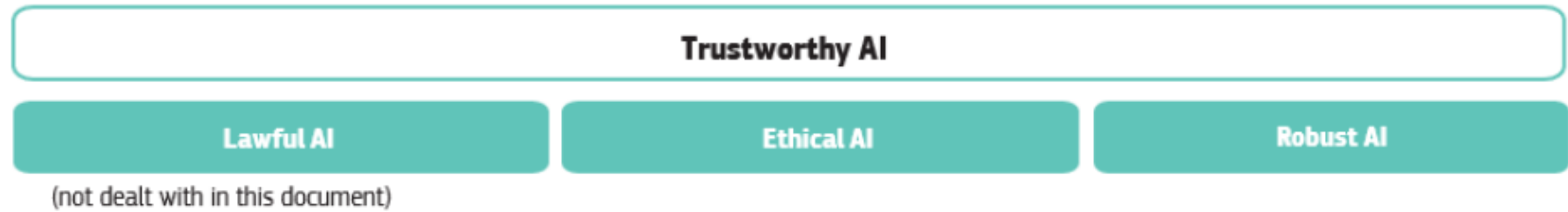
II Realization of Trustworthy AI



FRAMEWORK OF TRUST- WORTHY AI

III Assessment of Trustworthy AI

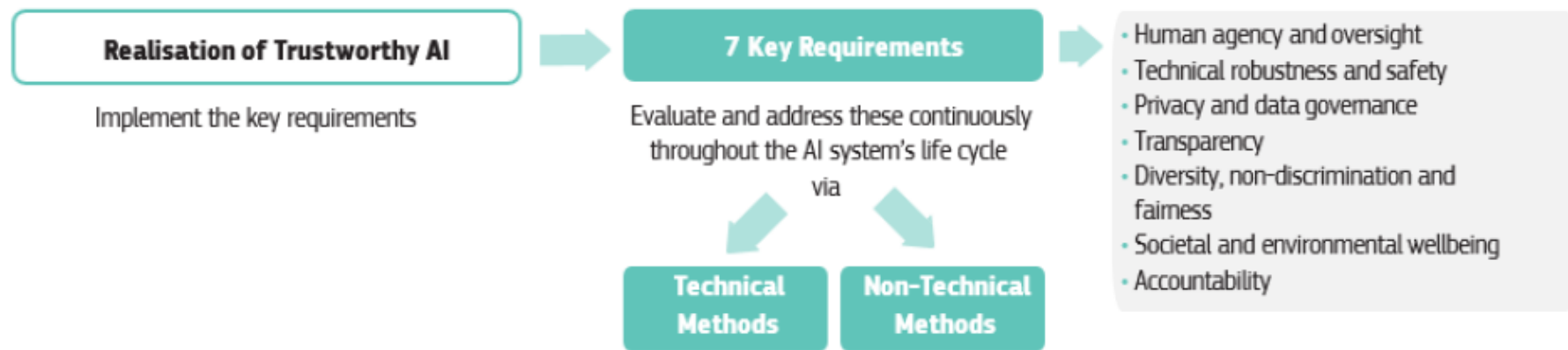
INTRODUCTION



CHAPTER I



CHAPTER II



CHAPTER III





Have nice discussions!



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