HCRAI – Conference on Human Centered Regulation of Artificial Intelligence
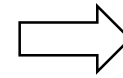

Janos Levendovszky
vice rector of science and innovation
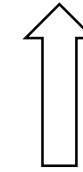
Human centered AI ?

"AI centered" humans (researchers, SW engineers, developers, tech firm CEOs ..)

- Developing novel algorithms and architectures
- Training the free parameters on a given data set
- Running performance analysis
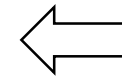- Application development

Intelligence is born out by algorithms
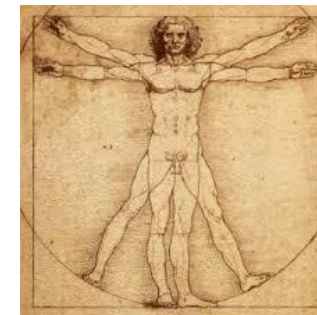Knowledge is confined in the training set

Prohibited AI practices ↔ Unacceptable risk

Regulated high risk AI systems ↔ High risk

Transparency ↔ Limited risk

No obligations ↔ Low and minimal risk

EU AI Act: to mitigate the risk

Projection of human qualities:
- Lawful
- Ethical
- Robust
- Trustworthy
- Benevolent

Data source: European Commission.
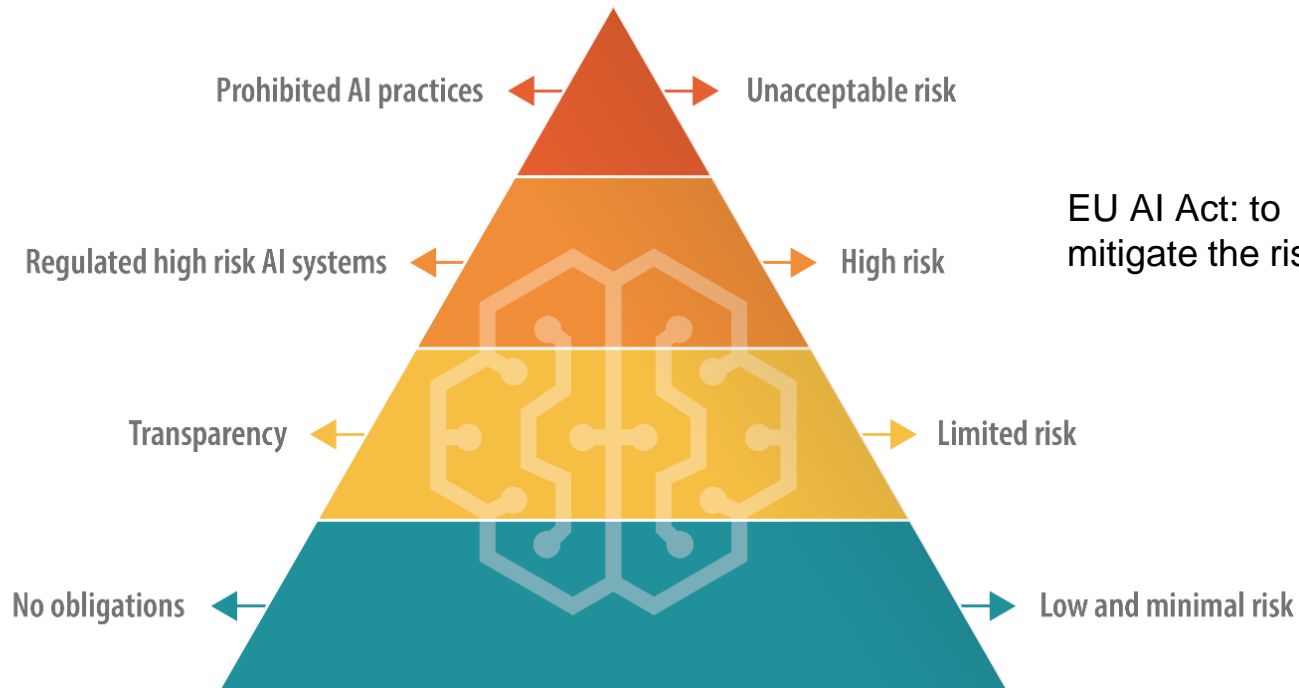
AI is to augment humanity ! It is a tool to empower human beings and enhance their capabilities not to replace them !
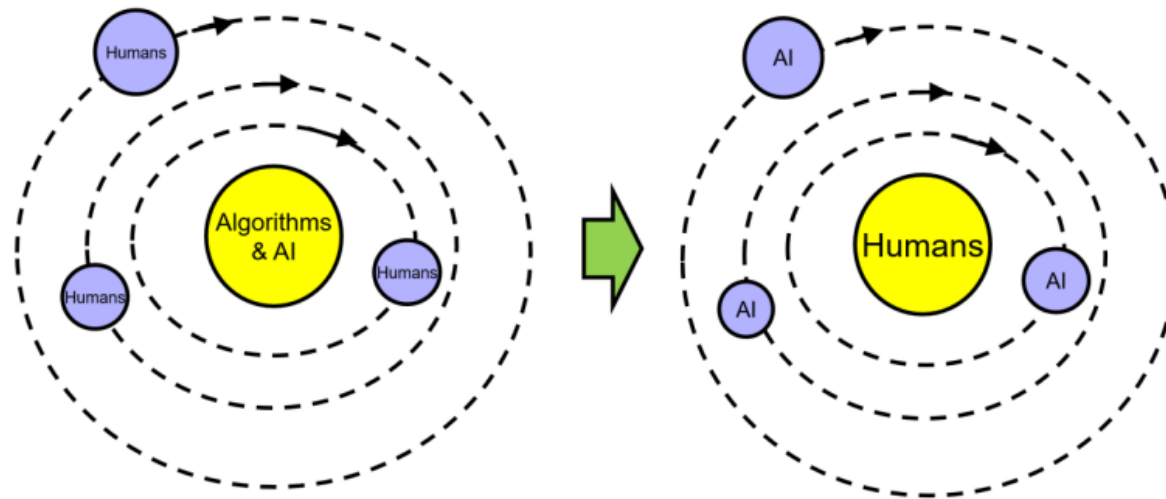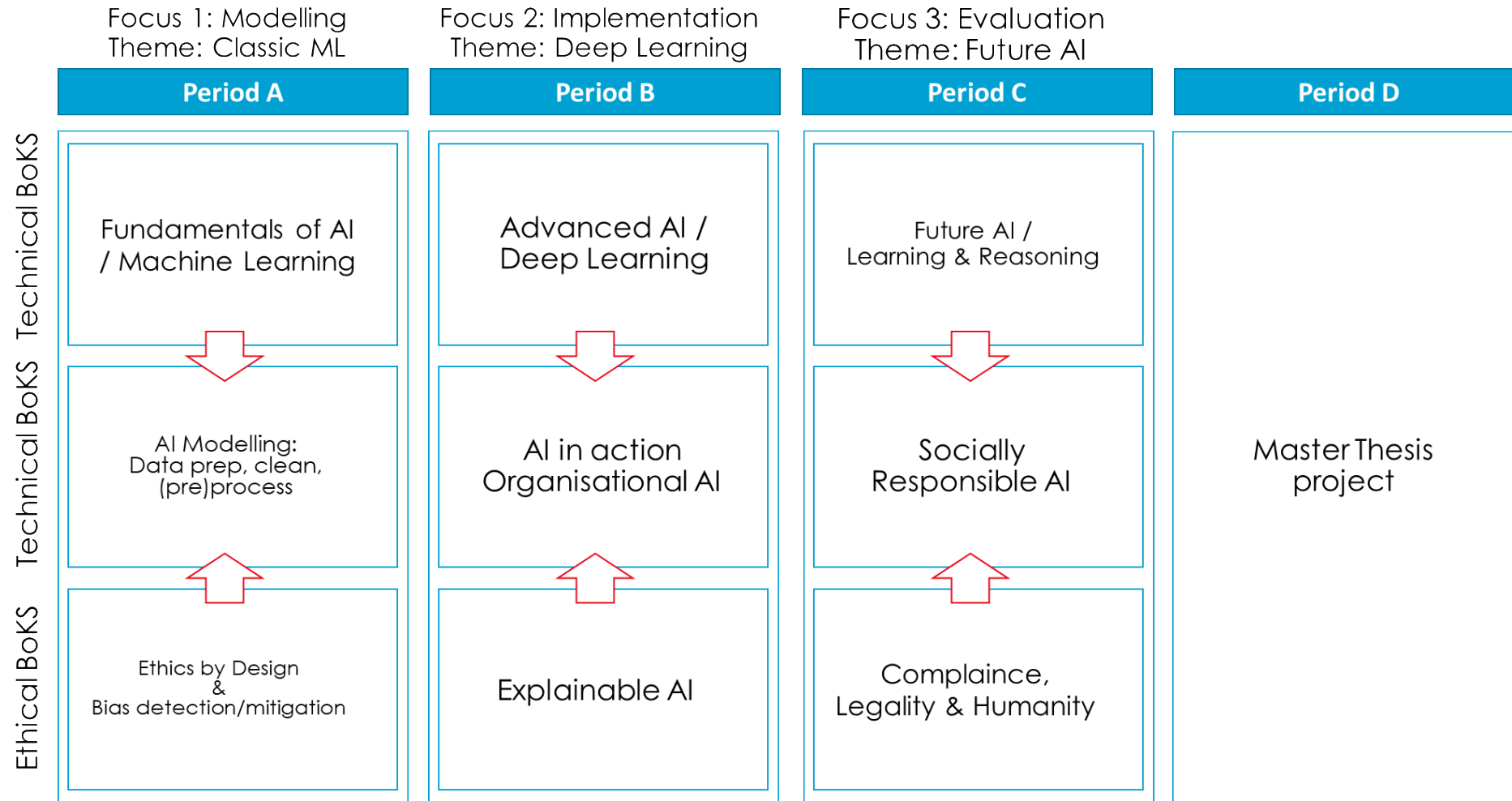

Source: B. Schneiderman

Design principles:
- social design,
- participatory design,
- inclusive design,
- interaction design,
- persuasive technologies,

60 credit – EU level HCAI Master program in the framework of *INEA/CEF/ICT/ A2020/2267304* EU project presently with 40 students at BME .

Curriculum

	Focus 1: Modelling Theme: Classic ML	Focus 2: Implementation Theme: Deep Learning	Focus 3: Evaluation Theme: Future AI	
	Period A	**Period B**	**Period C**	**Period D**

	Period A	Period B	Period C	Period D
Technical BoKS	Fundamentals of AI / Machine Learning	Advanced AI / Deep Learning	Future AI / Learning & Reasoning	Master Thesis project
Technical BoKS	AI Modelling: Data prep, clean, (pre)process	AI in action Organisational AI	Socially Responsible AI	
Ethical BoKS	Ethics by Design & Bias detection/mitigation	Explainable AI	Complaince, Legality & Humanity	

Fully available at the European Platform for Digital Skills and Jobs

HCAI in European Engineering Learning Innovation Science Alliance (EELISA)
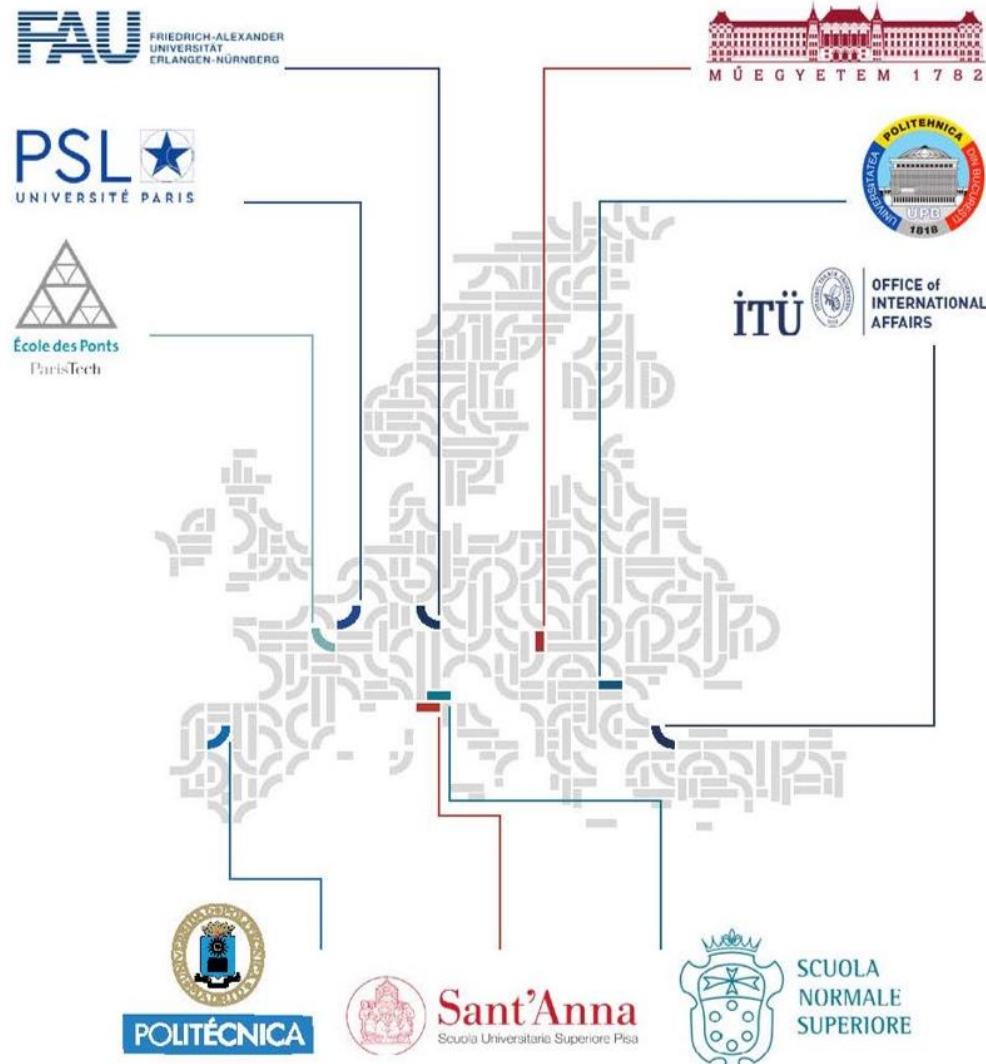
EELISA is the first alliance of Higher Education Institutions from different countries in Europe meant to define and implement a common model of European Engineer rooted in society !

Elevating HCAI among the pillars of the EELISA European Engineer Profile !
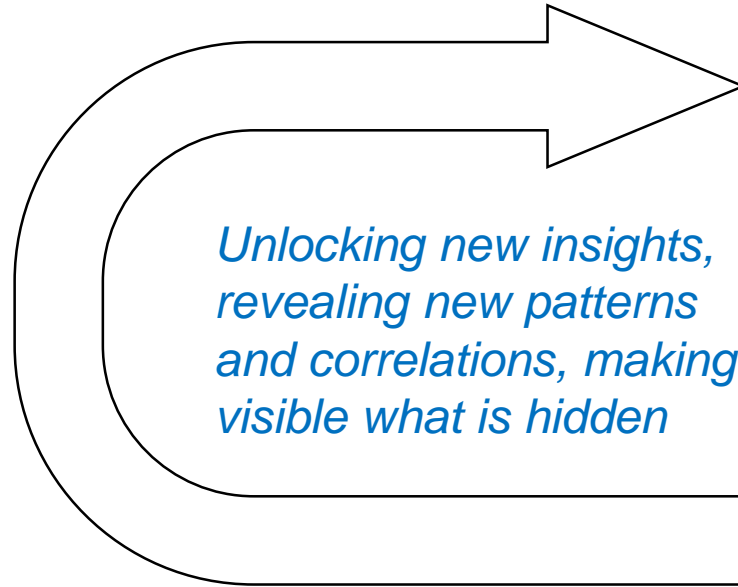
Circular model

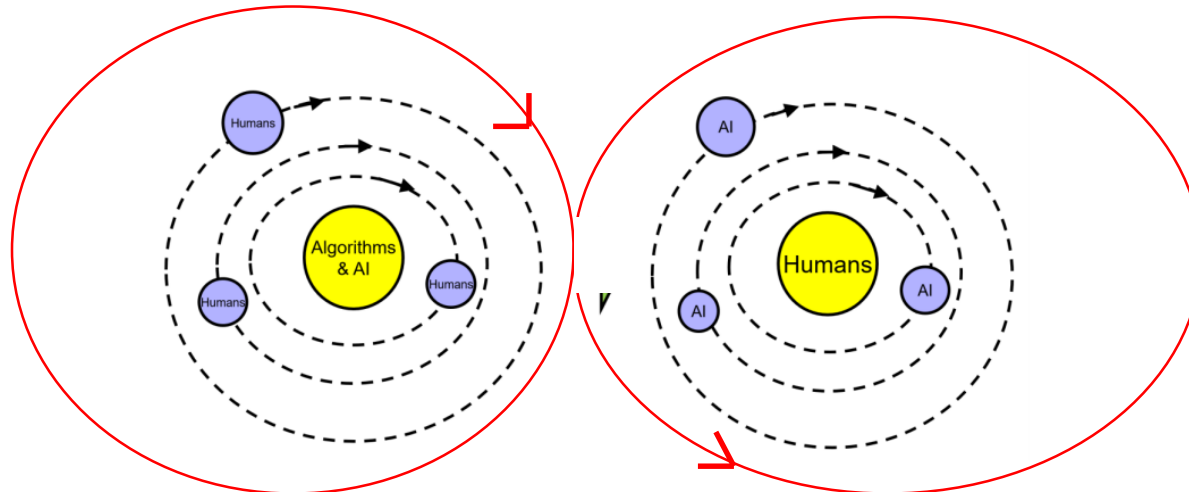*Benefit or shortcoming ?*

Human Centered AI

Expectation: no actions, usage or behaviour which are alien to human values

Unlocking new insights, revealing new patterns and correlations, making visible what is hidden

"AI centered" humans

willing to learn, accept and apply new insights provided by AI

THANK YOU FOR YOUR ATTENTION !