

WELCOME



Ethics, technology & law

Why it is important to think about the impact of technology on humans and society

(and how to put those thoughts to action!)

Presentation for VH Conference June 13th 2022 Jo-An Kamp, Fontys Hogeschool ICT Colette Cuijpers, Juridische Hogeschool Avans - Fontys



Impact technology on society



Assignment

- I will show you a video prototype from a first year ICT and Media Design student
- Please write down everything you see that can be explained as either good or not so good (for now and in the future)

(The video is 2.30 minutes long. Prepare for a quick shout out afterwards. Let's go!)





Recap: Shout out



poor, bad, ill, worse?



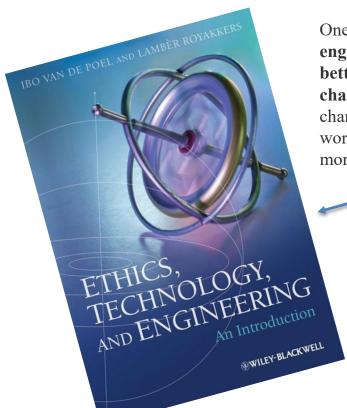






"The more Artificial Intelligence enters our lives, the more essential Ethics & Philosophy become."

(THE AI THOUGHT BOOK)



Introduction

One of the main differences between science and engineering is that engineering is not just about better understanding the world but also about changing it. Many engineers believe that such change improves, or at least should improve, the world. In this sense engineering is an inherently morally motivated activity.

Therefore, we also need ethics at the design table, at the start of the process ('ethics at the front door'). This is a bottom-up, design approach that incubates ethics when constructing new technologies.





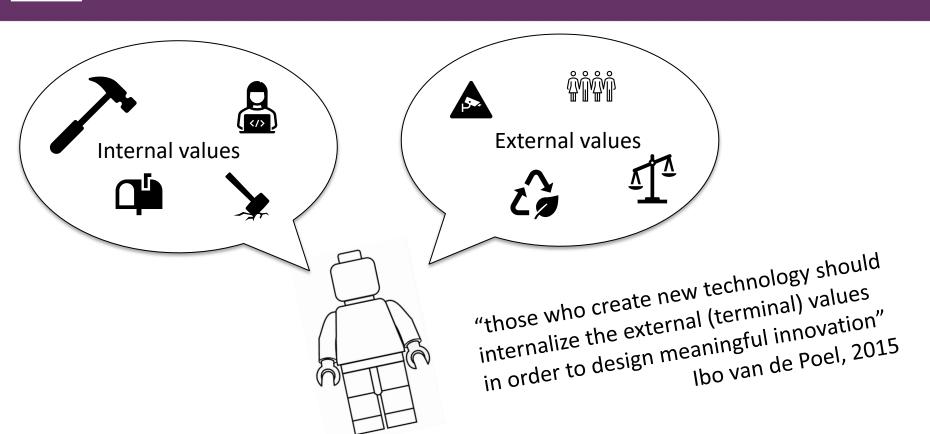


Avoid becoming a 'tech regret'



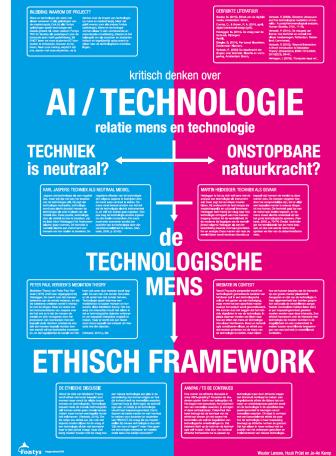


Engineers have a natural tendency towards internal values





APPLIED SCIENCES





A FREE TOOLKIT THAT HELPS USERS TO MAKE BETTER DECISIONS ON THE IMPACT OF TECHNOLOGY



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Starting points while developing the tool:

- 1. Technology = multidisciplinary
- 2. Ethics as a driving force for innovation
- 3. Non-judgmental (you can be as good/evil as you want)
- 4. Part of the (design cycle) process
- 5. Context is king





Questions, a lot of questions...





















Human values Stakeholders

Data Inclusivity

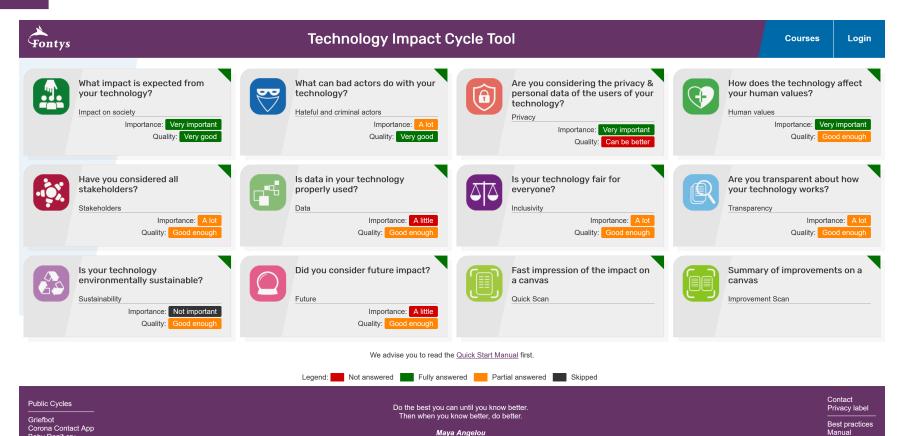
Transparency Sustainability

Future



Baby Don't cry

Interface



Crash Course



Quick / Full / Improvement Scan



Technology Impact Cycle Tool

Logout

Admin

Profile





Complete analysis of the impact

Full Scan



Summary of improvements on a canvas

Improvement Scan

We advise you to read the Quick Start Manual first.

Legend:

:

Not answered

Fully answered

Partial answered

Sk

Skipped

My Cycles Public Cycles

Griefbot Corona Contact App Baby Don't cry Do the best you can until you know better. Then when you know better, do better.

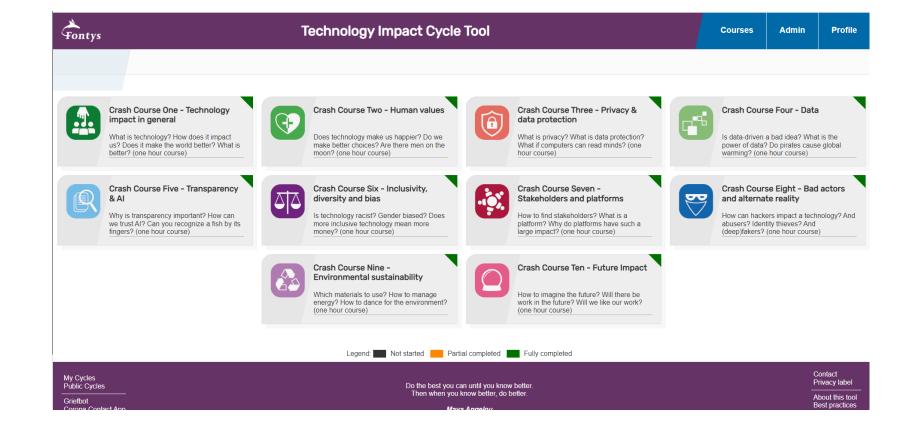
Maya Angelou

Contact

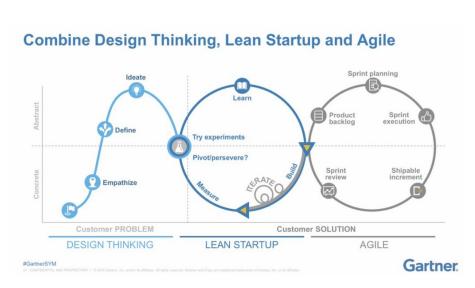
Best practices Manual

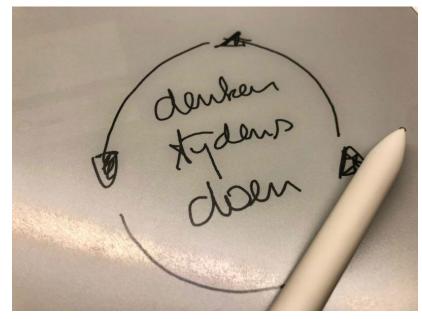


Crash courses



Cycle: in all stages of the process







Do the best you can until you know better.

Then when you know better, do better.

Maya Angelou

But this often requires incentives...

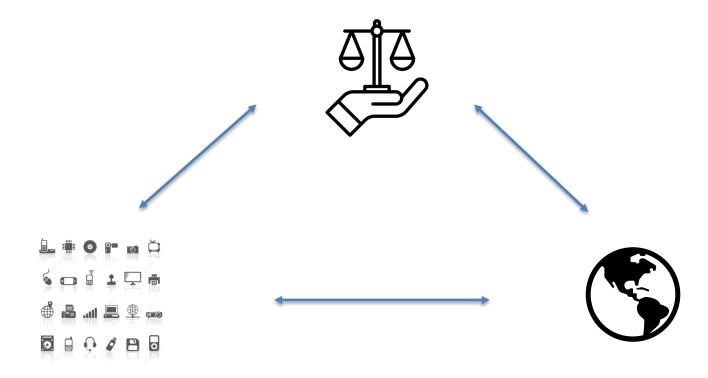


Which can be embedded in law





Mutual shaping of Law, Technology, and Society





Example: Google Glass





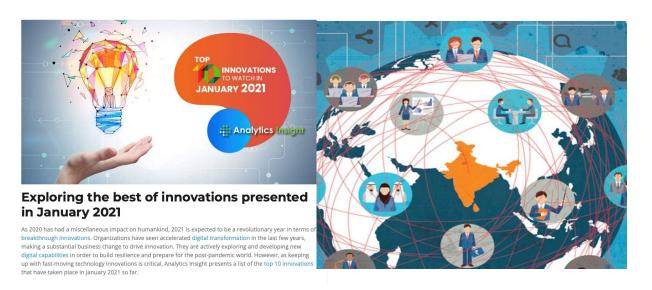
Google Glass 2 (enterprise edition 2)

https://www.smartbril.info/google_glass.html

2012



Many challenges...



Function creep

Pacing dilemma

Collingridge Dilemma

. .

https://www.analyticsinsight.net/top-10-innovations-to-watch-in-january-2021/

https://www.businesstodav.in

"In wake of rapid technology development, regulators are faced with key challenge: How to protect citizens, ensure fair markets and enforce regulations, while allowing new technologies and businesses to flourish?" bizshifts



> FOR SOCIETY

Clear interaction between law and technology The example of privacy by design and default



Edit even	t info	•
Name	Test	
Details	Add more info	
Where		
When	4/5/2012 Add a time?	
Hosts	Barrier way	
Privacy	☑ Invite Only ▼	
	Public iends	
	№ Friends	
	✓ ☑ Invite Only Save Cance	el

https://webapps.stackexchange.com/questions/26366/how-to-disable-wall-posts-on-a-facebook-event



Importance of taking different perspectives into account, in designing both technology and the rules governing (the impact of) technology

Internal values	External values
Technological enthusiasm	Safety
Effectiveness	Health
Reliability	Wellbeing
Robustness	Sustainability
Maintainability	Justice
Compatibility	Democracy
Quality	Inclusiveness
Rationality (rational process)	



Freedom House

Democracy as example...

Where Technology Has Disrupted Election Integrity Domestic digital interference marred the online landscape in at least 88 percent of selected countries that held elections or referendums from June 2018 through May 2020. With Digital Election Interference Without Digital Election Interference Belarus Disinformation campaigns, website blocks, **United States** False, misleading, and hyperpartisan ontent proliferated online Thailand ctive digital campaigning rules Argentina False and misleading information spread by political actors and a DDoS attack on a fact-checking organization

Ethiopia News platform blocked after



From Bond et al, 2012

SCIENCE | NOT EXACTLY ROCKET SCIENCE

A 61-million-person experiment on Facebook shows how ads and friends affect our voting behaviour







Noldus

Emotion analysis

interact with others.

Emotions are what makes us human, and we all experience them. They are created by the brain and are related to interests and past experiences: they signal that interests are at stake, in a positive or negative way. Emotions cause your cortex to pay attention, since the main task of the brain is to keep us all we and well.

Emotion data provides crucial insights that allow researchers to gain insight in complex human behaviors in greater depth. Emotions can play a role in all kind of matters. For example, in the decisions we make whether or not to buy something. In food choices, and in how to





Detecting deepfakes by looking closely ... phys.org



DeepFake

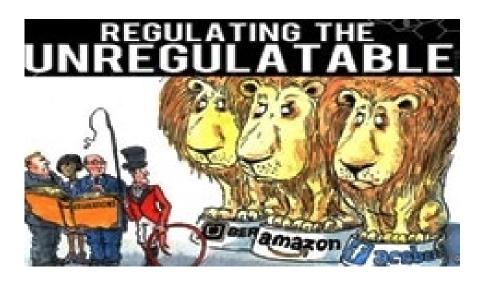
Deepfake Detection Challenge ... spectrum.ieee.org



Deepfakes Are Getting Better. But They ...



Role of Technology and technology providers





The impact on democracy, but also the democratic legitimisation of rulemaking...



Emotion Recognition



Questions, a lot of questions... Can foster responsible innovation

What kind of questions pop up?





















Transparency Sustainability

Future

Responsible innovation requires multidisciplinary education!

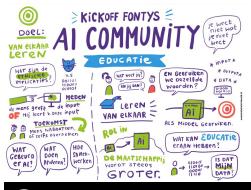


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THANKS FOR LISTENING!

Questions?



