

Avoiding the Turing Trap in an age of GenAI for increased human agency and freedom

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Introduction

Technological advances that herald and drive societal changes over the last 12,000 years have only benefited ordinary people when “landowning and religious elites were not dominant enough to impose their vision and extract all the surplus from the technologies” (Johnson and Acemoglu 2023, 78).

We are again on the precipice of a big transformation for our society with the wide adoption of Artificial Intelligence in all kinds of sectors and embedded in all kinds of software. Generative Artificial Intelligence (genAI), a specific form of Artificial Intelligence harnessing the power of Large Language Models to *generate* new output based on vast and widely generalized data sources, is rapidly transforming our lives. Ranging from reshaping how we work (Joshi 2025) and how we learn (Perifanou and Economides 2025), to changing criminal behaviour (Ferrara 2024) and even influencing democratization (Cupać, Schopmans, and Tuncer-Ebetürk 2024).

As with all transformative technologies there is however a real opportunity, in the increased productivity and the access to tools. Secondly a real threat, in the form of misinformation, criminal activity, (Ferrara 2024) and the undermining of autonomy (Cupać, Schopmans, and Tuncer-Ebetürk 2024). Thirdly a challenge for the use of resources and electricity Lin et al. (2024) that needs new solutions at scale.

Technology is not merely a neutral phenomenon with inherently positive outcomes and there is a great need for finding solutions that benefit us all.

Gap

We do not know how AI will reshape the future of our human development, but there are some guesses we can make and historical lessons we can take into account. In all the major jumps in technological advancement that brought about societal change: steam engine, electricity, communications, digital communication and now the more broadly available statistical models that “converse” with us through chat like ChatGPT, we have seen that regulation and policy

fueled by ideology (both benefiting the few or the many) has been the driver for the direction this advancement would take us (Johnson and Acemoglu 2023, 57).

In the course of history, human development has been argued to increase where agency and liberty increase (Prados de la Escosura 2022; Sen 1999). Much of the research regarding AI has been focussing on improving models [], effects for legislation [], impact on education [], but not increasing agency and freedom which the UNDP describes as indicative of improving human development (UNDP 2025).

What is lacking then from scientific discourse is a systematic analysis of cases where GenAI (or AI in general) has had a positive impact on agency and human freedom to distill which factors are crucial for bringing about such change.

Hook

We need to figure a way out of what Brynjolfsson (2022) calls the “Turing Trap” where technological and economic power create a concentration of political power and find solutions, patterns, systems, beyond policy where the benefits of transformational technology like GenAI are available to everyone.

Research Questions

- What lessons can we draw from existing of patterns using GenAI that enable meaningfully increased human agency?

Sub questions

- How do we measure increased human agency and liberty? (Prados de la Escosura 2022, 25).
- What policies and laws have been instrumental in steering technologically driven societal transformation in the past and where has it failed?
- Which uses of GenAI defy policy or lack of liberty and empowered people?

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