

AI and Virtual Well-being

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Toward the New Frontier

Post-Human Evolution

Electronic Brain

Political CyberEconomy 1945-1960

Political CyberEconomy 1960-1980

Political CyberEconomy 1980-today

Information Revolution: GDP Gap

Well-being: Beyond GDP

Digital Laissez-faire Utopia

Post-human Laissez-faire Dystopia

AI Boundaries

Appendix

AI as a social metaphor



FORTUNE

RESOURCES

NEW BEGINNING

TOWARD THE NEW FRONTIER

Mercantilism to Liberalism

"FREETRADE or WE SHOOT"

Capital flow New World – Europe

(Venice Arsenale protoindustry)

Globalization

Information network

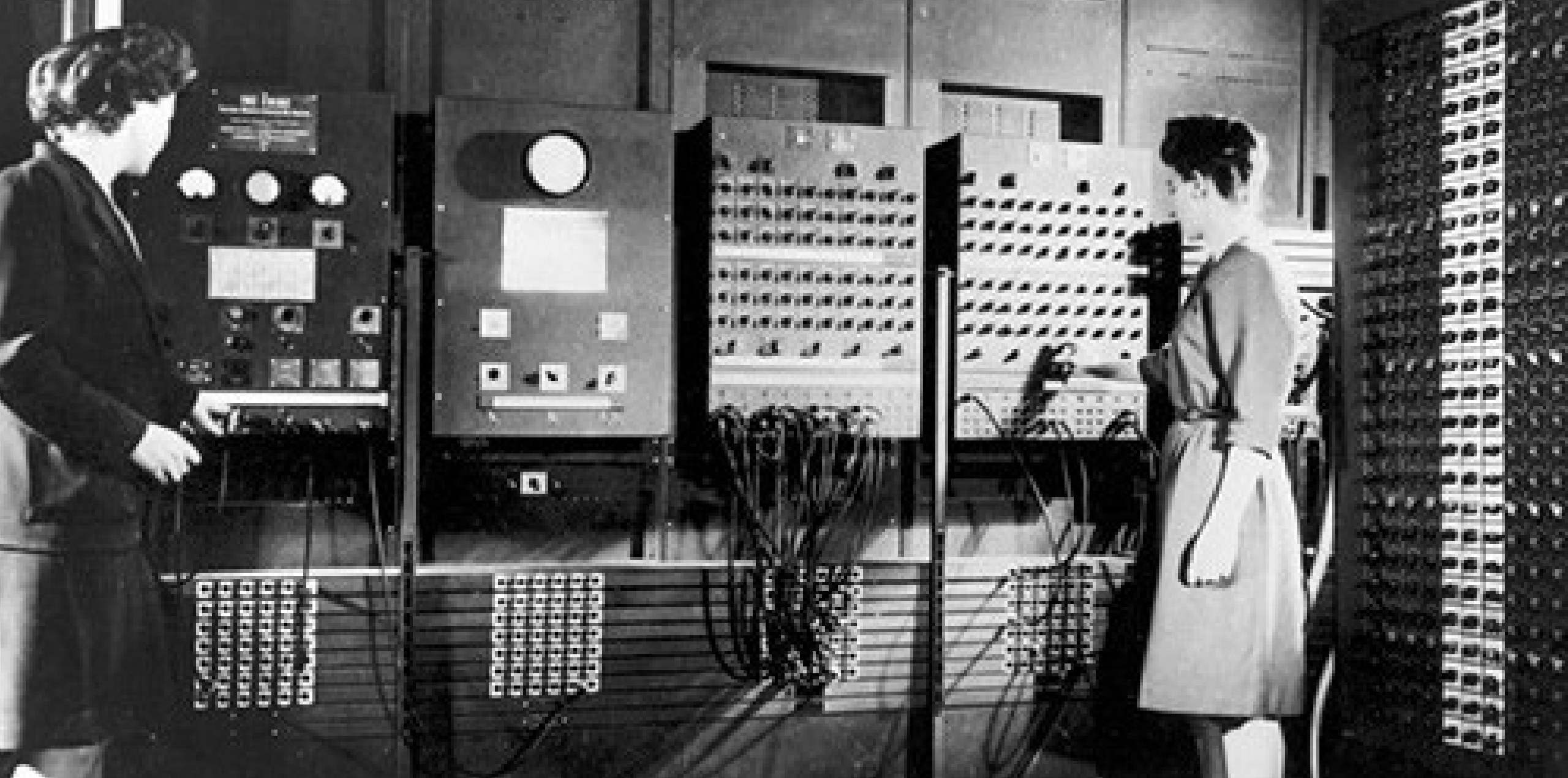
Independent press

Linked financial markets (London,
Paris, Amsterdam and Hamburg)

First Global Bubble 1720

Industrial revolution

2:1 Gap between the richest
and poorest regions of the world



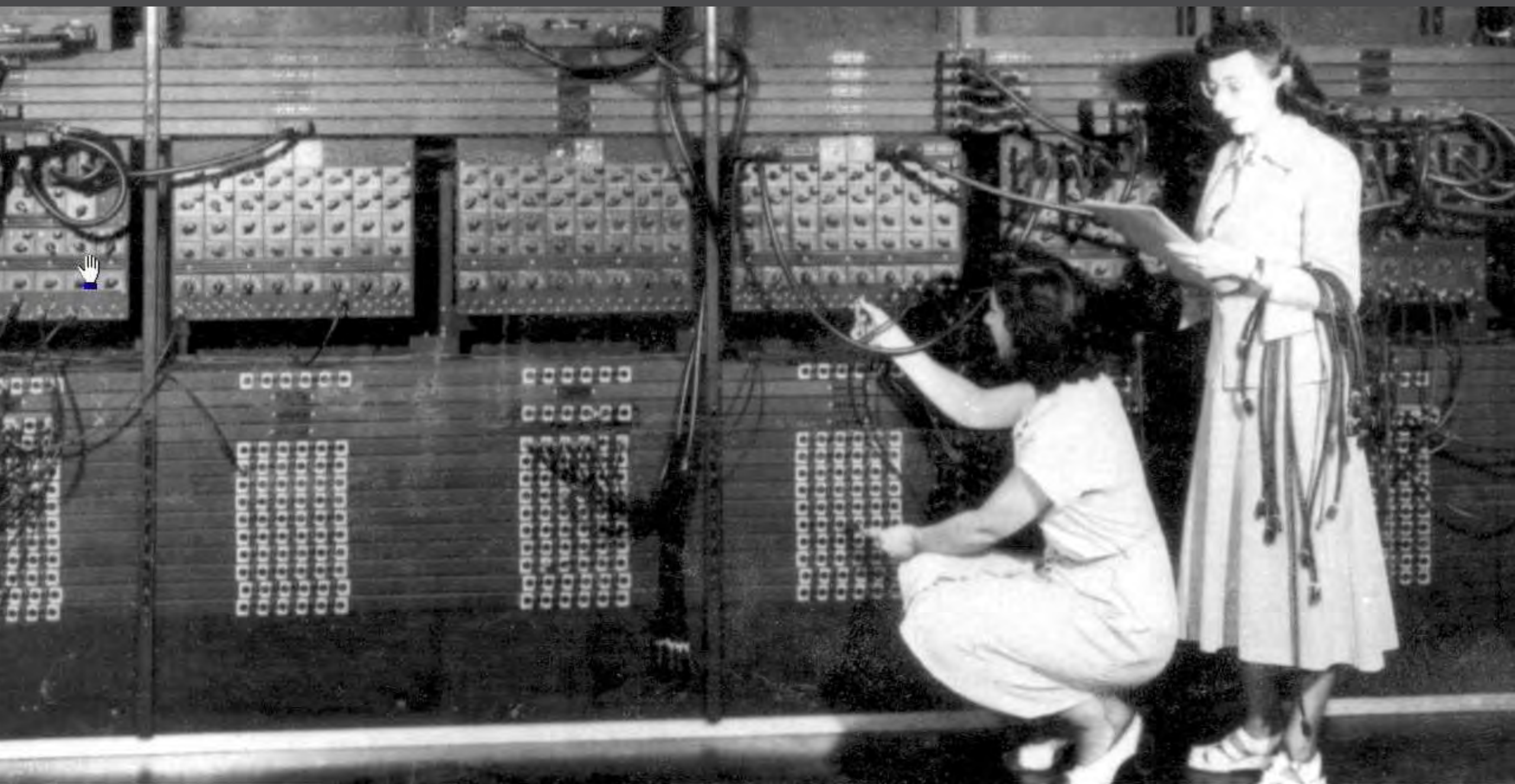
PROGRESS

EFFICIENCY

AUGMENTATION

AUTOMATIZATION

PRODUCTIVITY



POST-HUMAN EVOLUTION

Division of labour - Week ties

The economy of time fragmented production in a way that individual endeavor became part of the systematic activity. Week ties connected humans into manufacturing networks

19th cent. Human-Computer

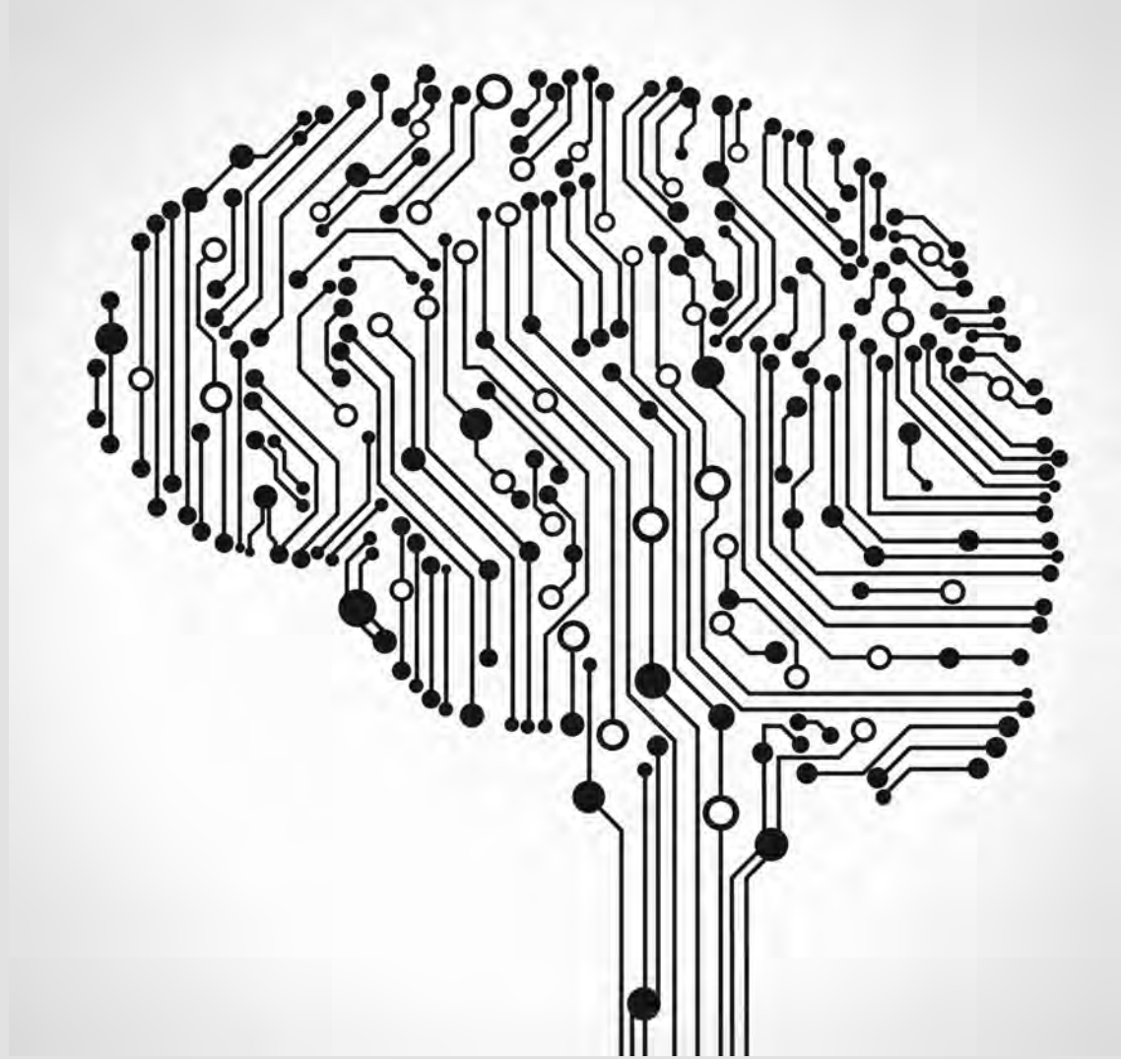
low skill mathematician
in an observatory

20th cent. Computer-

Universal machine

21st cent. Human-Machine symbiosis

ENIAC Girls, Women Computers



ELECTRONIC BRAIN

Is human taught entirely computable?
Is behavior reducible to
effective procedures?

Whether, by programming computers,
we become ourselves,
the object of programming and control.

LADY LOVELACE'S OBJECTION

The Analytical Engine has no pretensions whatsoever to originate anything. It can do whatever we know how to order it to perform. The engine, she explained, "can follow analysis; but it has no power of anticipating any analytical relations or truths. Its province is to assist us in making available what we are already acquainted with."

Lovelace, Note A, in Menabrea, „Sketch of the Analytical Engine invented by Charles Babbage“, translation and notes Augusta Ada Byron King, reprint Scientific Memoirs 3, 1843.



POLITICAL CYBER ECONOMY: THE FIRST-WAVE 1945-1960

Cybernetics-tag: Homeostasis

Political economy-tag: Keynesian economic intervention 1930-60, Representative money, The Bretton Woods system (1944-1971), Welfare state, Automatization

HR-tag: The 1948 Universal Declaration of Human Rights

IT-tag: Main-frame computers / time-sharing.

Art-tag: John Whitney's animations made by analogue computer, a converted mechanism of a World War II M-5 antiaircraft gun director

Ad-tag: UNIVAC I (1951)

POLITICAL CYBER ECONOMY: THE SECOND-WAVE 1960-1980

Cybernetics-tag: Reflexivity / Autopoiesis

Political economy-tag: Liberalization, Fiat money (performances of the system), Computerization

HR-tag: 1966-1976 the International Covenant on Civil and Political Rights and the International Covenant on Economic, Social and Cultural Rights

IT-tag: ARPANET, Graphomat Z64

Art-tag: Mainframe Experimentalism (Stuttgart school, Bell Labs, Nove Tendencije)

Ad-tag: Programma 101 (1965)

POLITICAL CYBER ECONOMY: THE THIRD-WAVE 1980-TODAY

Cybernetics-tag: Virtuelity / Posthuman

Political economy-tag: Globalization, Electronic money, Fragmentation and virtual teaming

HR-tag: The 1980 UNESCO's Recommendation concerning the status of the Artist (Belgrade),
The 2011 UN Guiding Principles for Business and Human Rights

IT-tag: Interface (Xerox PARC), PC, Minitel, Internet, Quantum computing, AI

Art-tag: Net Art

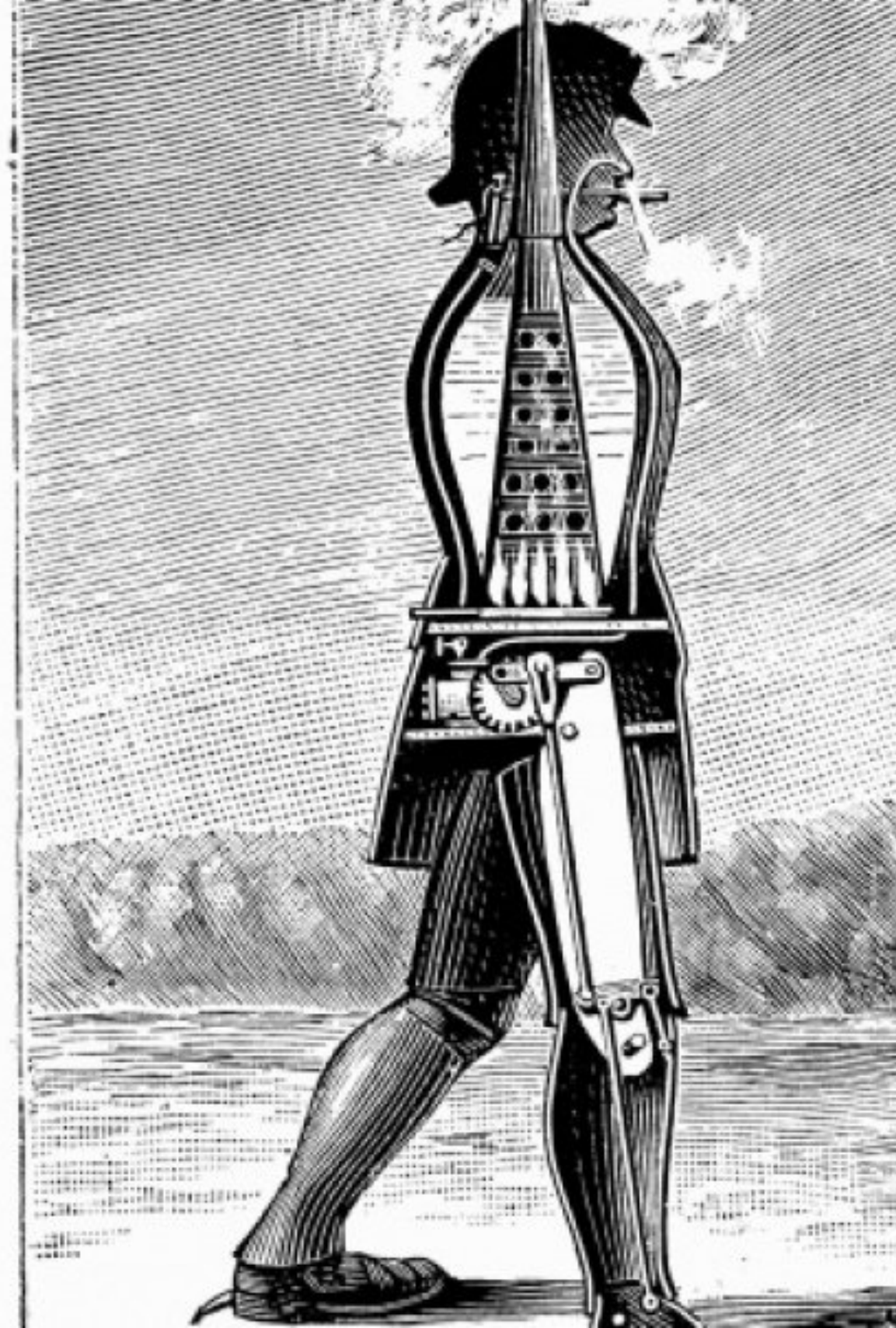
Ad-tag: Apple Macintosh 1984 (1984)

INFORMATION REVOLUTION: GDP GAP



Information Age Gap

20:1 the world richest and poorest regions
80:1 the world richest and the poorest country



AI ETHICALLY ALIGNED DESIGN FOR VIRTUAL WELL-BEING

- Overall Impact
- Basic Needs
- Safety
- Belonging
- Esteem
- Self-Actualization

WELL-BEING: BEYOND GDP

Well-being domains:

Psychological Well-being,

Physical Health,

Human Settlements,

Community, Culture,

Education,

Economy,

Environment,

Governance,

Work

QUALITY
OF LIFE

HAPPINESS

SUSTAINABLE
DEVELOPMENT

DIGITAL *LAISSEZ-FAIRE* UTOPIA: EMANCIPATORY ROLE

COMPUTER + NETWORK+ EDUCATION = HIP & RICH



- Belief in direct democracy via media technologies
- Interest in self-management and DIY culture
- Emancipatory role of information technology
- The system of personal freedom and choice for all
- *Laissez-faire* at hi-tech entrepreneurship
- Interaction based on individual merits
- World without gender
- Freedom of speech in the cyber space
- Performativity of communication
- Personal freedom for all
- An open frontier of an open source
- Equal online accessibility

POSTHUMAN *LAISSEZ-FAIRE* DYSTOPIA: THE BIG NUDGE

COMPUTER + NETWORK+ FAME = HIP & RICH

RESOURCES:

FUNDAMENTAL ECONOMY

↳ Capital
Information
Personnel
Products and Services

VIRTUAL ECONOMY

↳ Network (bandwidth)
Computing
Content
Attention

HOW FAME CAN BE LEVERAGED?

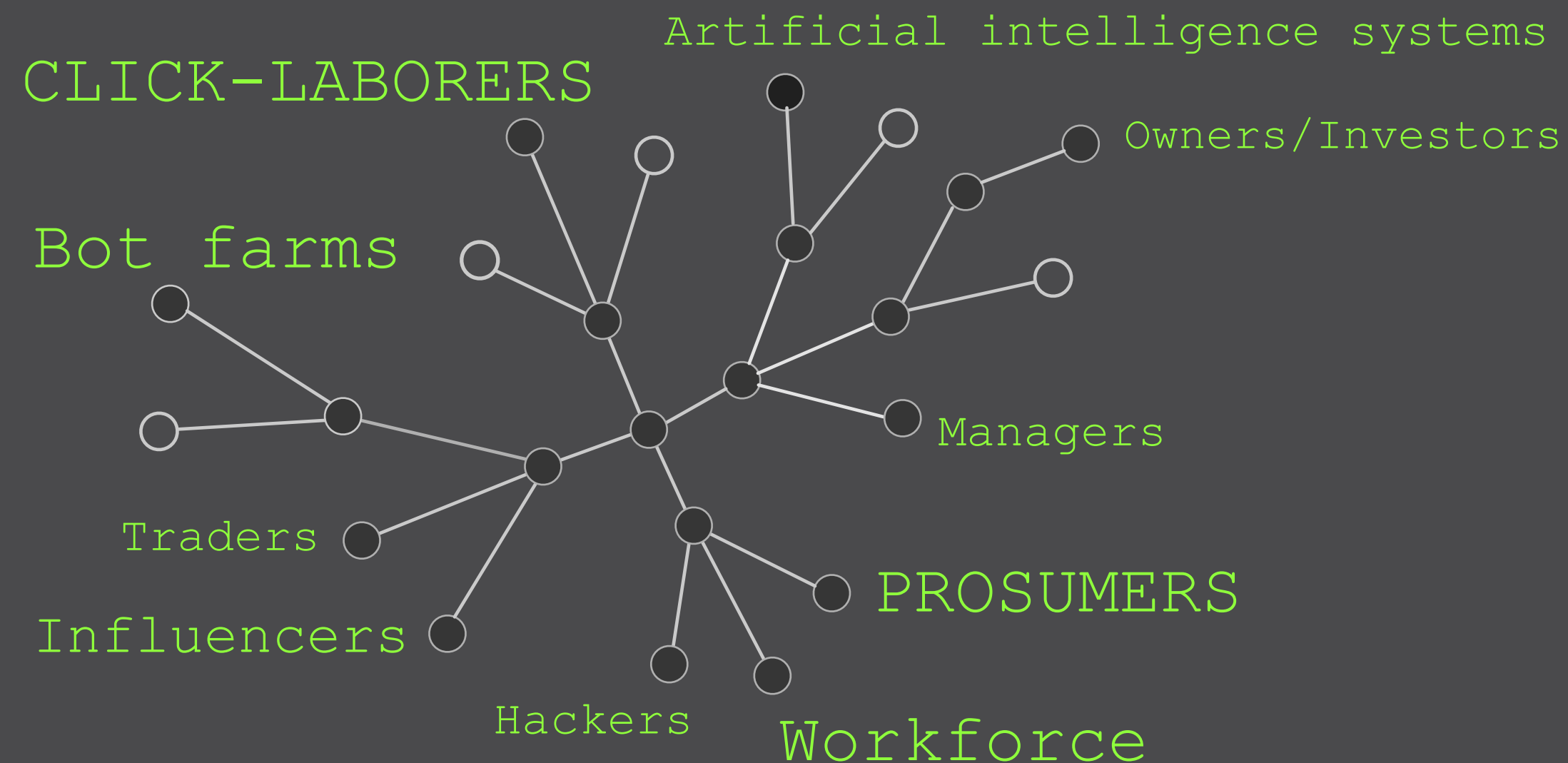
\$532 billion beauty industry

Multinational companies, like L'Oréal, spend US \$250 million per year for digital marketing on Google.

"famous for being famous"

\$800 million of Kylie Cosmetics,
\$230 million net profit,
made at 3 years.

Kylie Jenner followers
110 million Instagram
25.6 million Twitter,



AI BOUNDARIES

Intelligent Machinery Prerequisite

intuition

emotions

body

responsibility

awareness of its own death

...

Computer as a conservative force

Whether the computer revolutionized social structure or it strengthened already existent powers?

Welcome to

```
EEEEEE LL      IIII ZZZZZZZZ AAAAA
EE      LL      II      ZZ  AA  AA
EEEEEE LL      II      ZZZ  AAAAAA
EE      LL      II      ZZ  AA  AA
EEEEEE LLLLLL IIII ZZZZZZZZ AA  AA
```

Eliza is a mock Rogerian psychotherapist.
The original program was described by Joseph Weizenbaum in 1966.
This implementation by Norbert Landsteiner 2005.

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ELIZA: Is something troubling you ?
YOU:   Men are all alike.
ELIZA: What is the connection, do you suppose ?
YOU:   They're always bugging us about something or other.
ELIZA: Can you think of a specific example ?
YOU:   Well, my boyfriend made me come here.
ELIZA: Is it important to you that your boyfriend made you come here ?
YOU:   He says I'm depressed much of the time.
ELIZA: I am sorry to hear that you are depressed.
YOU:   It's true. I am unhappy.
ELIZA: Can you explain what made you unhappy ?
YOU:   █
```

Joseph Weizenbaum, ELIZA

JOSEPH WEIZENBAUM, 1976> WHAT COMPUTERS SHOULD NOT DO

- 1) "I would put all projects that propose to substitute a computer system for a human function that involves **interpersonal respect, understanding, and love in the same category.**"
- 2) "Computer application that ought be avoided.. is that which can easily be seen **to have irreversible and not entirely foreseeable effects.**"
- 3) "Finally it is the act itself that matters. When instrumental reason is the sole guide to action, the acts it justifies are robbed of their inherent meanings and thus exist in **an ethical vacuum.** [e.g.] 'We could have taken a moral stand, but what good would that have done?'"

Appendix

AI as a social metaphor

