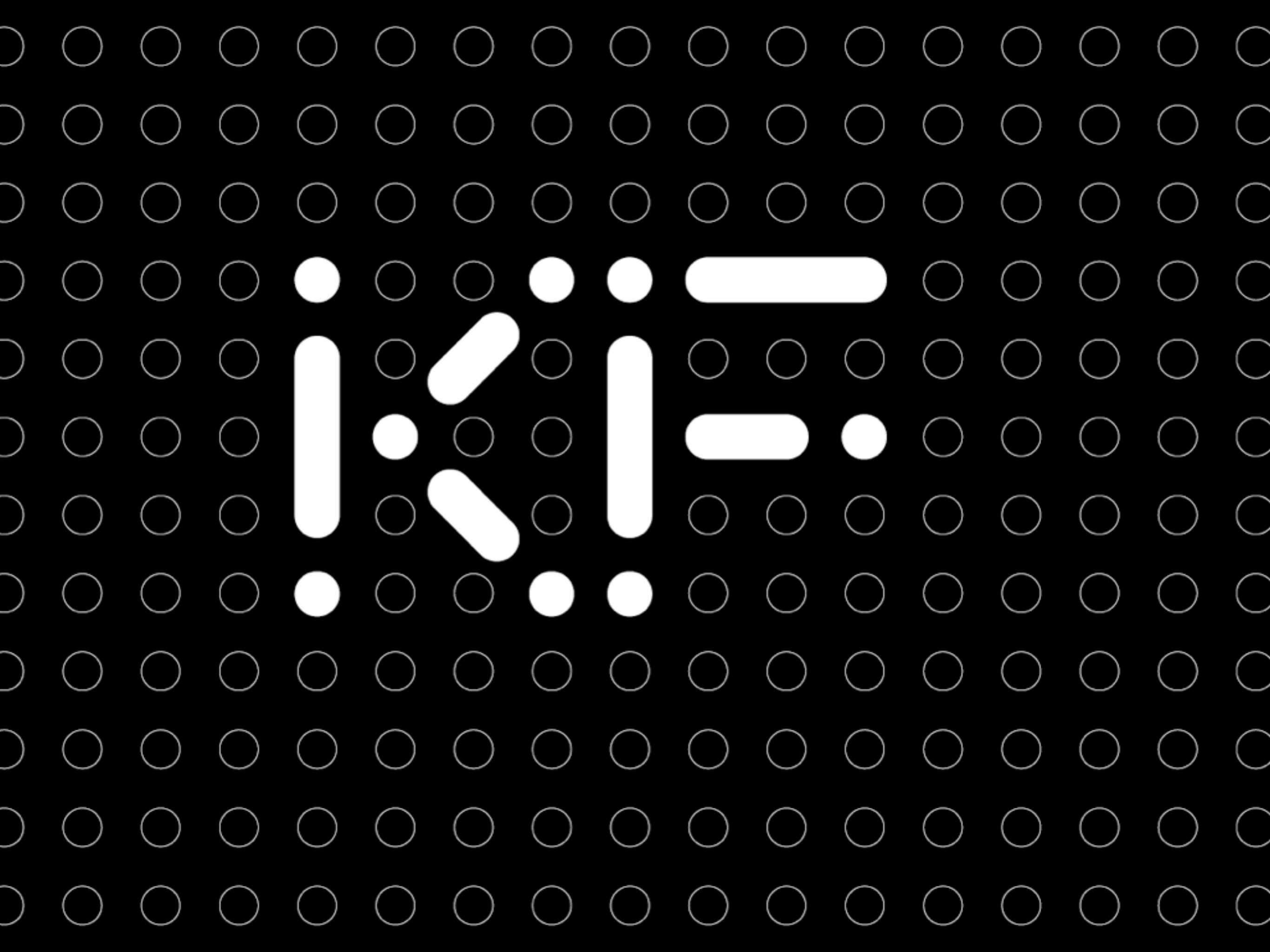




# Tesla and the Nature of Creativity 2015

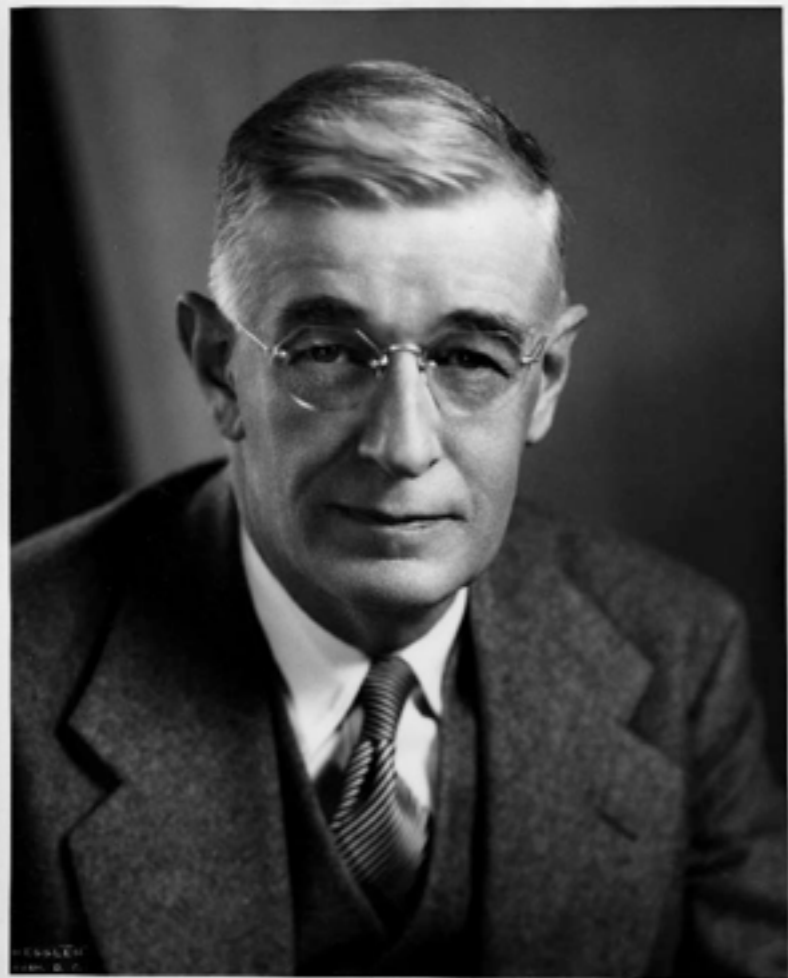
Re-weaving the collective mind

by Dino



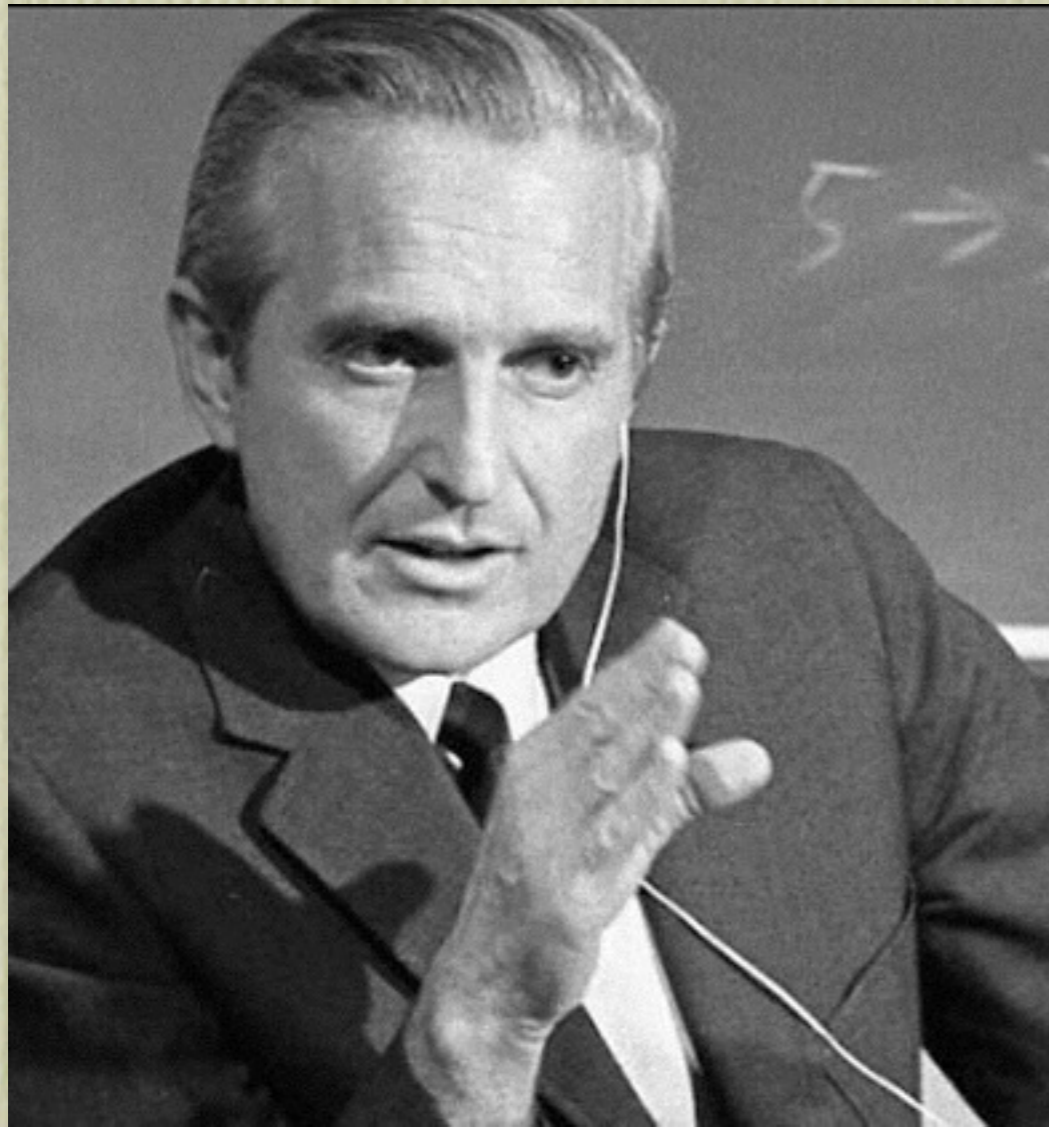
# Collective mind paradigm





as we may think

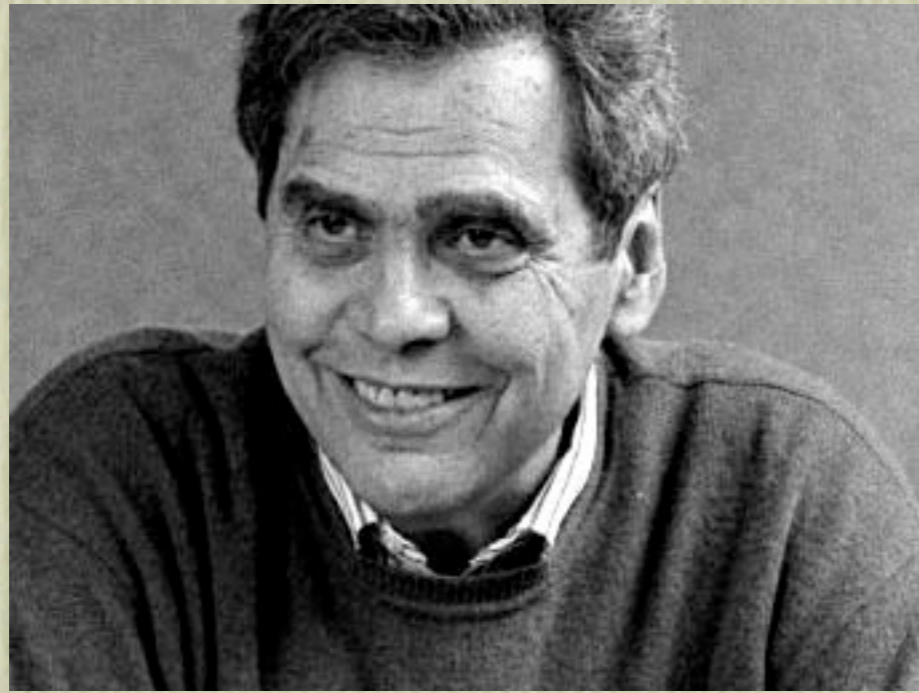
Vannevar Bush



collective  
intelligence

Doug Engelbart

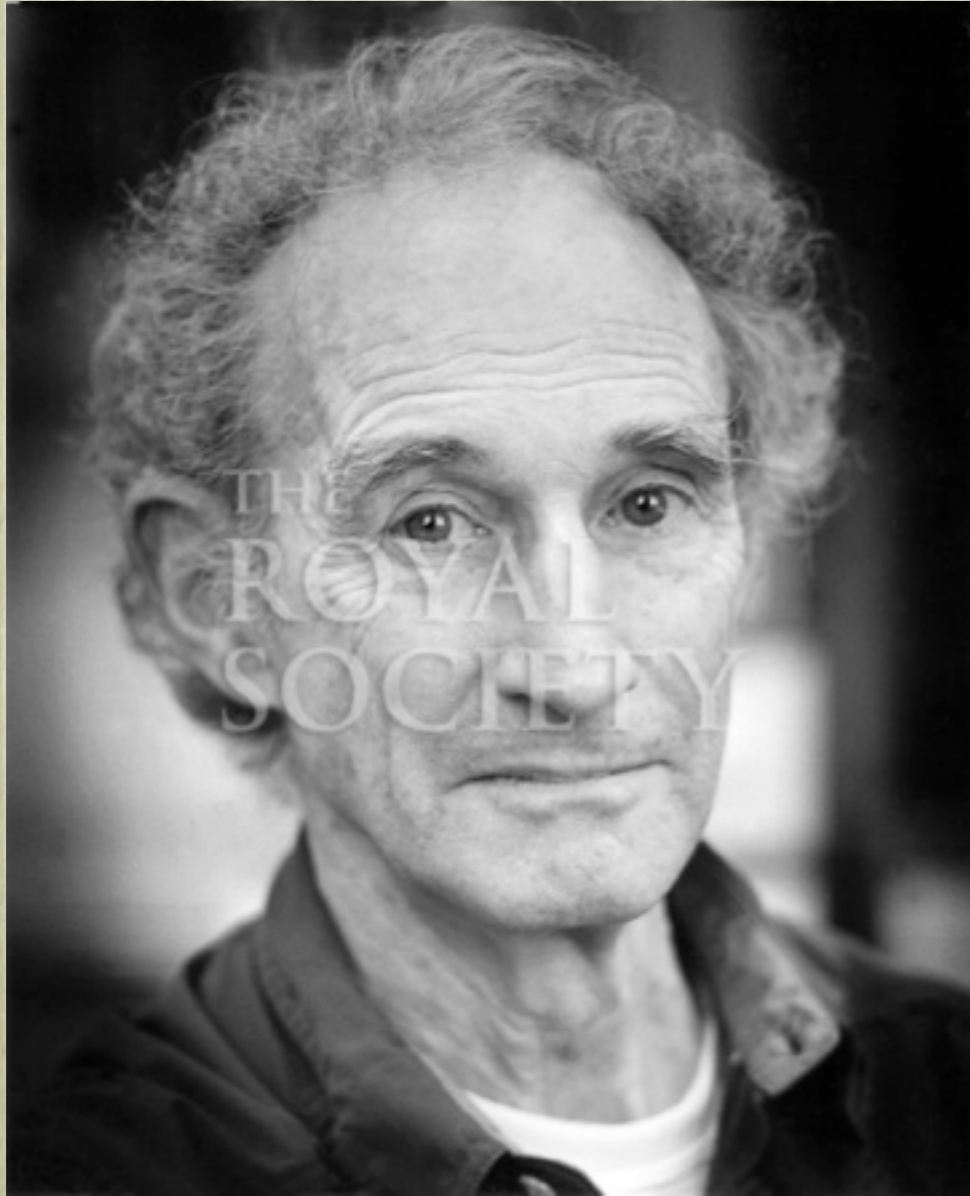
potential positive impact  
cannot be overstated



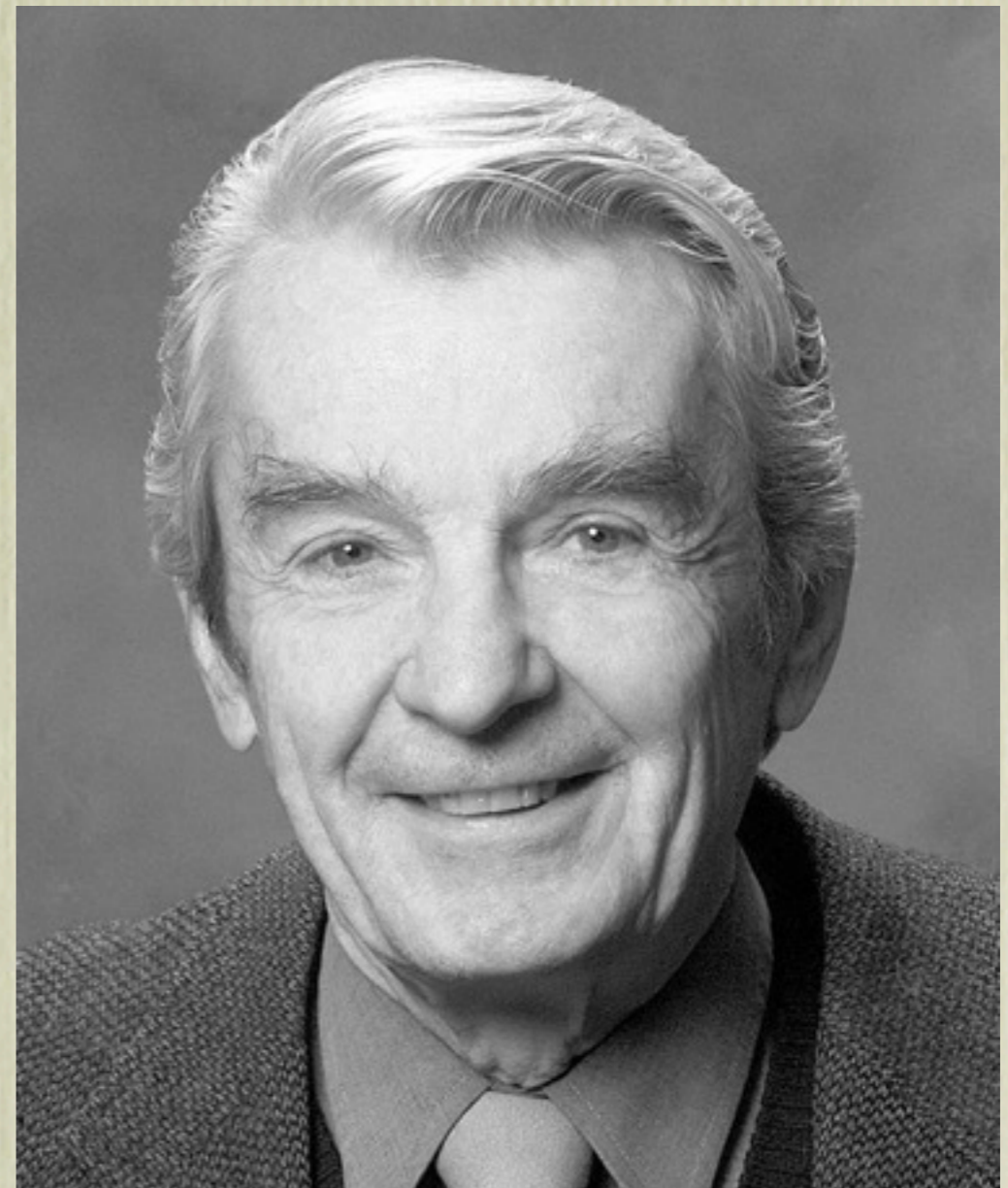
we are drowning  
in information

Neil Postman

knowledge work has a flat tire



Lord Robert May of Oxford



Ivan Gjaever

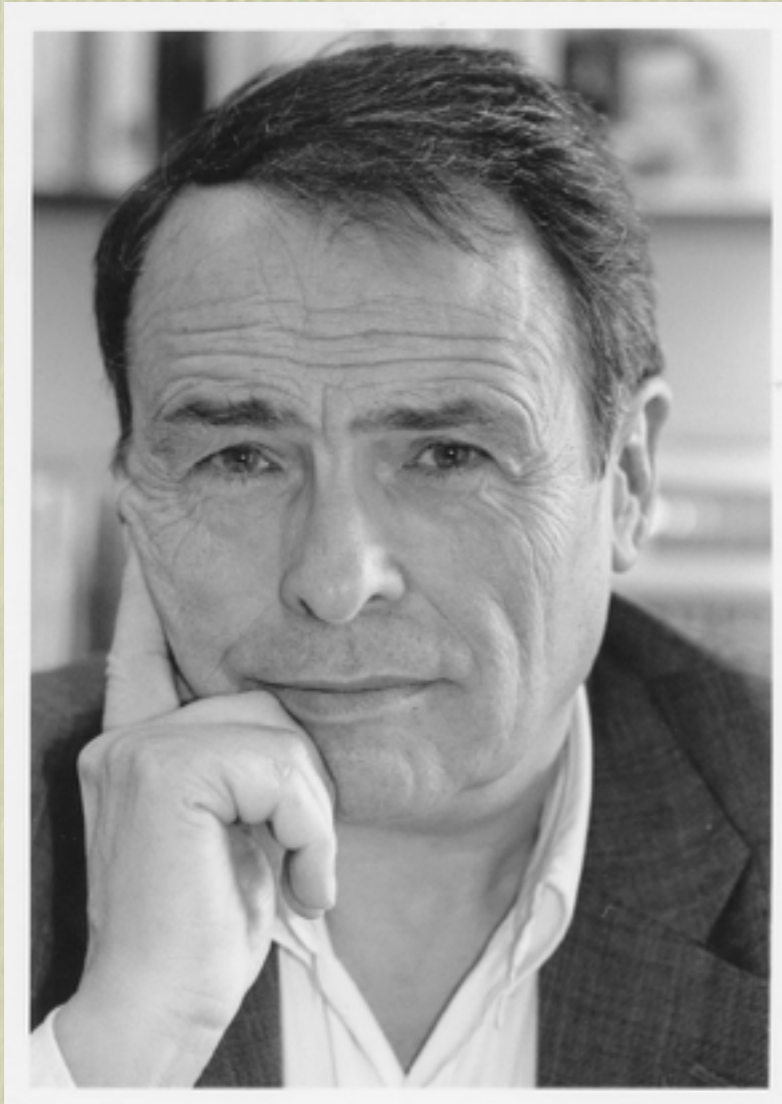


## Wiener's paradox

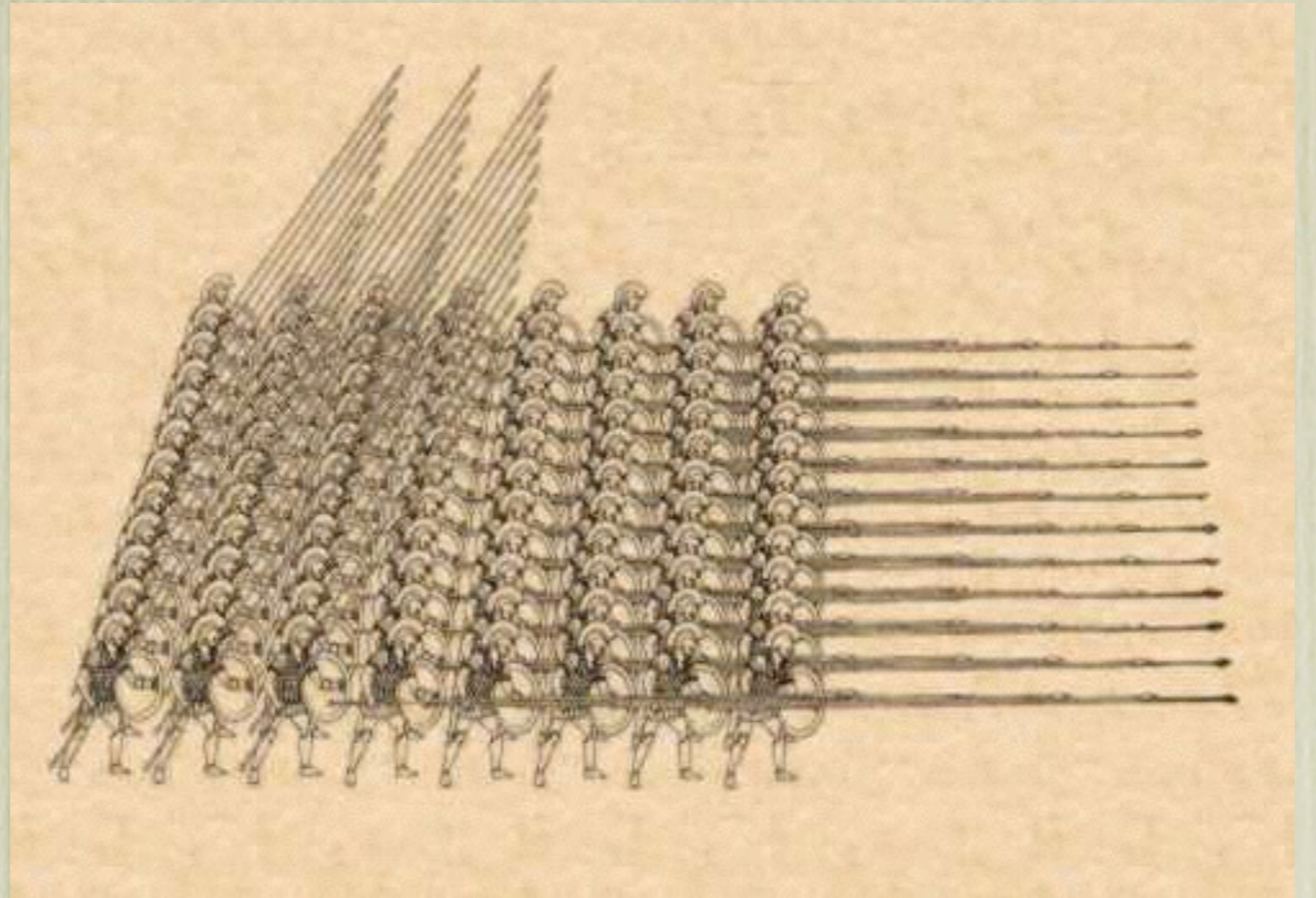
last chapter of Cybernetics + 1000  
articles on PD  $\leftrightarrow$  Reagan's  
"government is the problem"

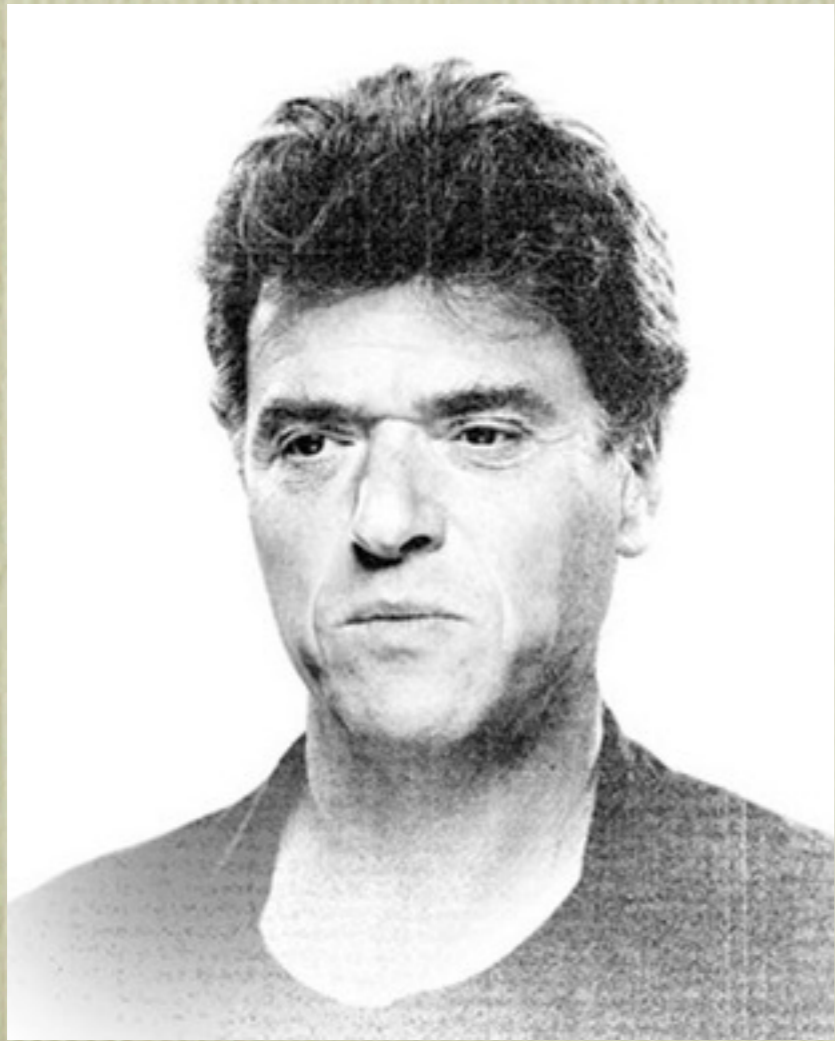
contribution to knowledge work





Pierre Bourdieu



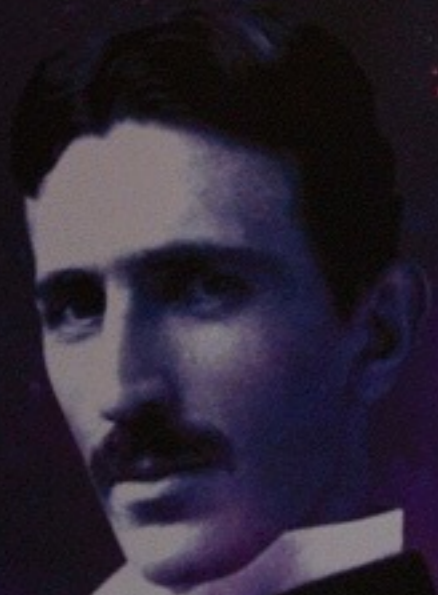


Andrew Keen

the Internet has  
disintermediated  
the expert

Industrial innovation →  
Social-systemic innovation

WWW:TESLA2015.COM



INTERNATIO

ВІСЬКА ШКОЛА  
ЕЛЕКТРОТЕХНІКИ І РАДІОТЕХНІКИ  
СТРИЖЕННЯ СТУДІЯ





Re-weaving the collective mind

- see the collective mind being re-woven
- see it think new & transformative thoughts



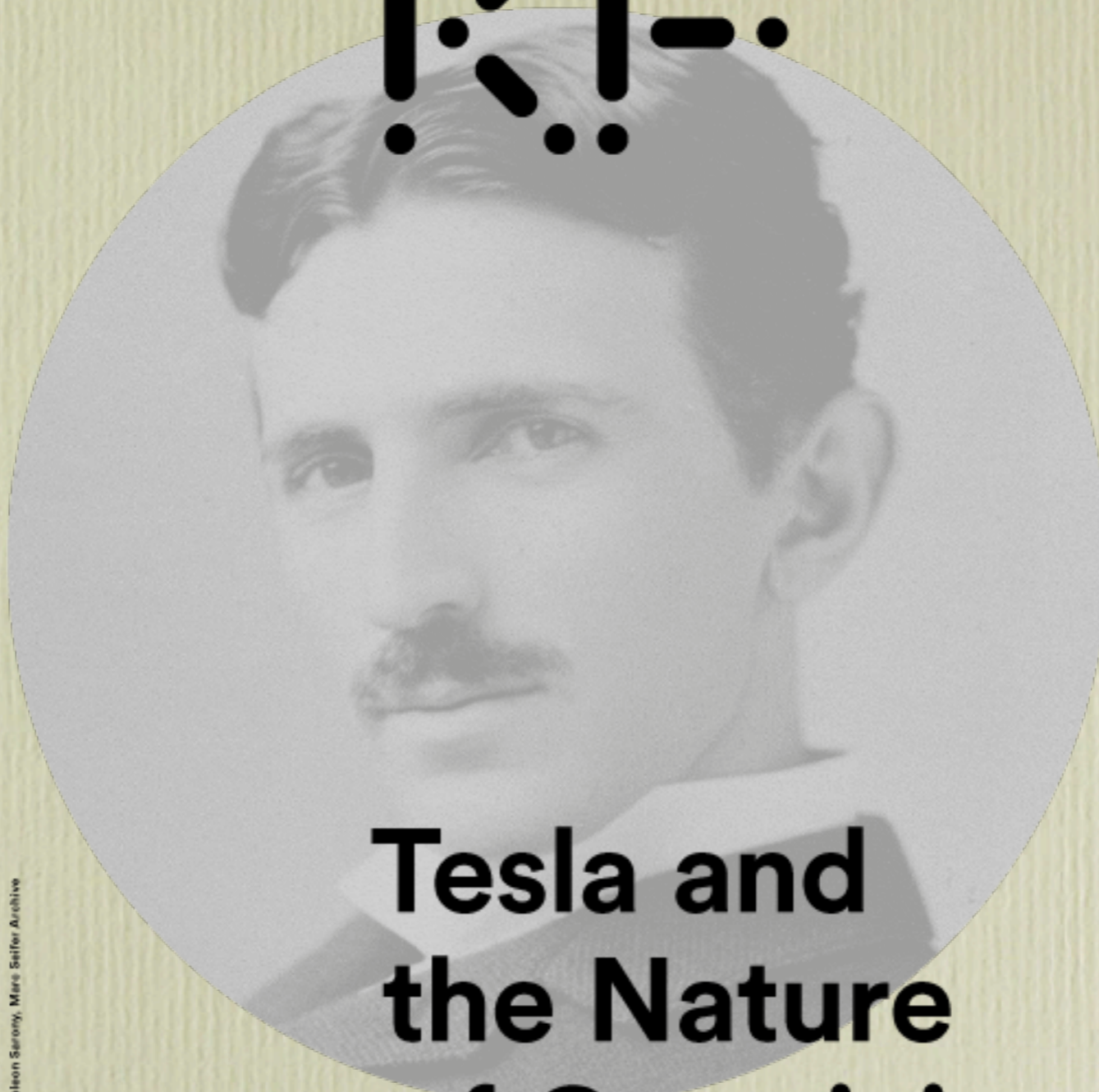




Phase I: Turning a research article  
into a multimedia document



Photo: Napoléon Sarony, Marc Seifer Archive

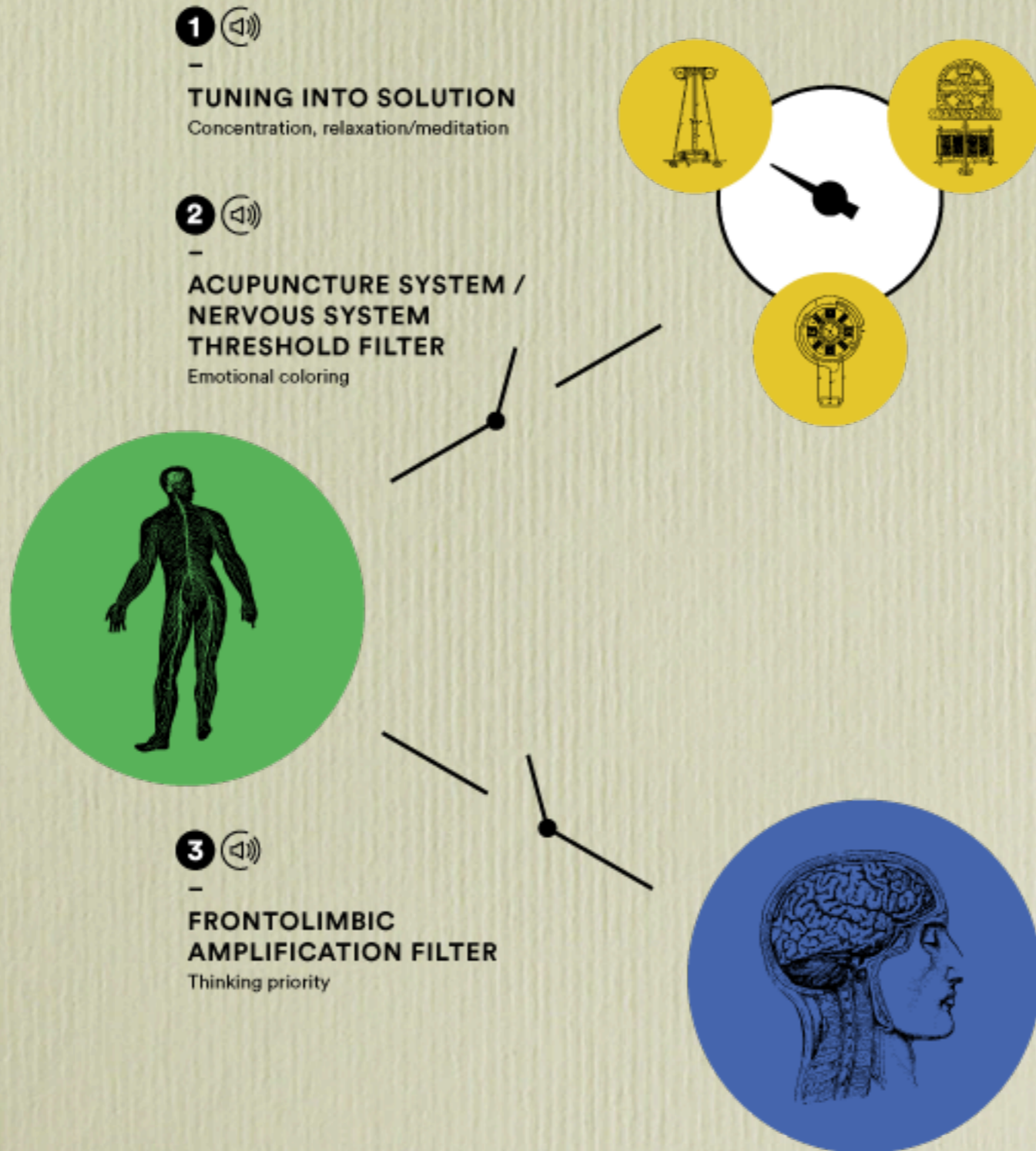


# Tesla and the Nature of Creativity

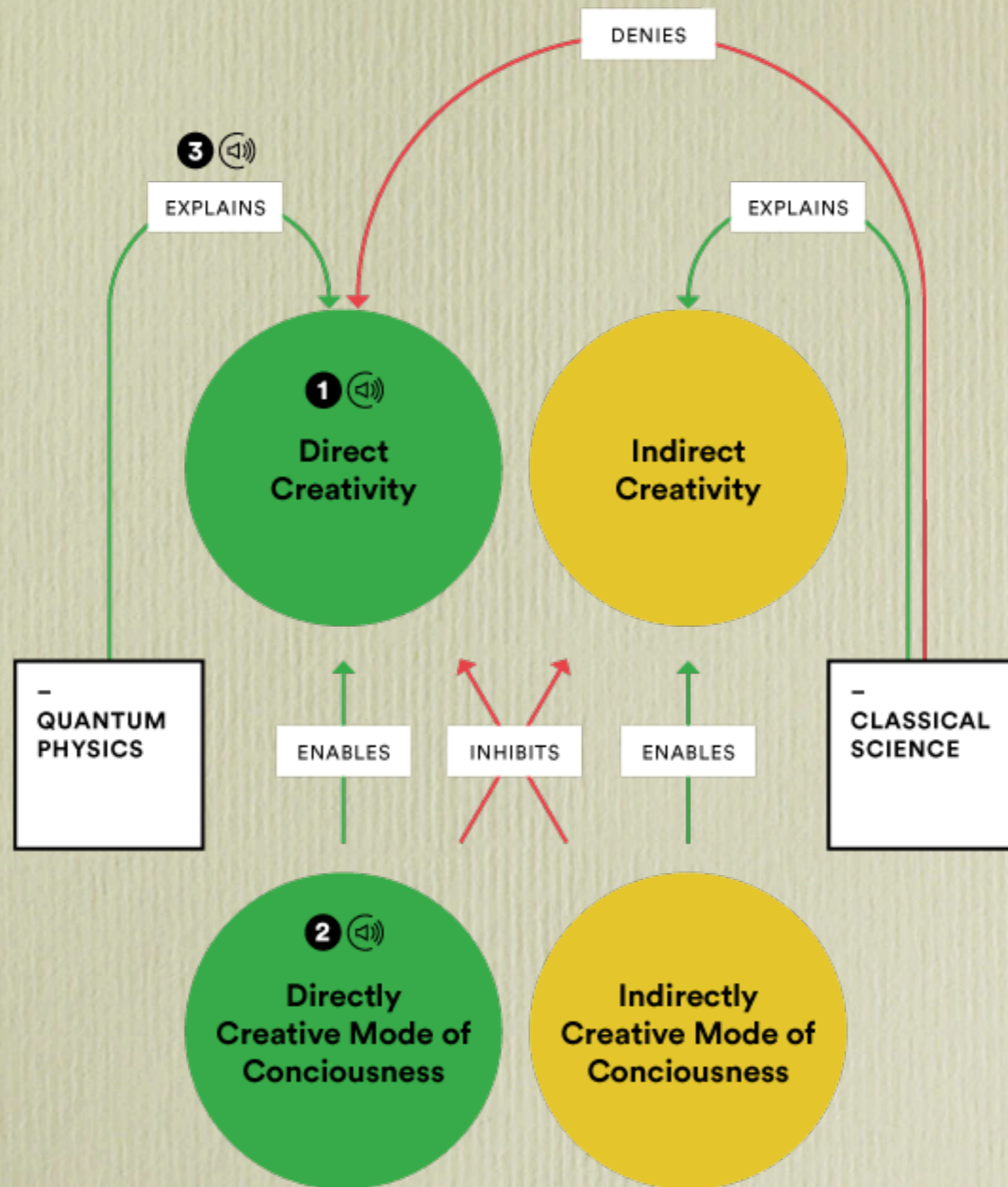
—  
FEDERATION BY KNOWLEDGE FEDERATION  
WHEREBY DEJAN RAKOVIĆ'S SCIENTIFIC ARTICLE  
IS TURNED INTO A MULTIMEDIA OBJECT

—  
THE INTERNATIONAL CONGRESS NIKOLA TESLA 2015  
"THE HISTORY OF THE FUTURE", 24-26 APRIL 2015

# A Phenomenological model




**B** Ideological model




—  
DIRECT CREATIVITY

—  
**© Biophysical model**


—  
HIGHLIGHTS

**1** 

—  
**Quantum physics allows for interaction types that are beyond mechanistic causality (common knowledge).**

**2** 

—  
**The acupuncture system is a macroscopic quantum system (shown by Russian-Ukrainian school of microwave resonance therapy).**

**3** 

—  
**Mathematical isomorphism between Feynman's version of the Schrödinger equation and Hopfield's neural network model indicates that a quantum system can behave as a memory (shown by M. Peruš).**

## ON NATURE AND CONTROL OF CREATIVITY: TESLA AS A CASE STUDY

Dejan Raković

University of Belgrade, Faculty of Electrical Engineering, Serbia  
[www.dejanrakovic.com](http://www.dejanrakovic.com)

**Abstract.** Nikola Tesla is undoubtedly the greatest inventor in the history of electrical engineering, and what makes him especially fascinating was his unusual *mental control of creative visions*. In this paper it is pointed out that they may serve as an extraordinary 'case study' for understanding both *biophysical basis of transpersonal psychology and control of creative processes, in meditation and sleep*. This can presumably provide deeper understanding of this most complex cognitive issue, thus helping humankind in developing collective knowledge, experience, and wisdom.

**Keywords:** *Nikola Tesla; Quantum-holographic nature of consciousness; Normal and altered states of consciousness; Two cognitive modes; Control of creative processes in meditation and sleep.*

*When we start to study non-physical phenomena,  
We will progress more in ten years than we have for centuries.*  
Nikola Tesla

### Introduction

Phenomenon of *deep creative insights* is known to many creators in the fields of science and art. Most frequently, after significant effort to resolve some problem, the solution suddenly appears. However, the very act of creation is going on at subconscious level, escaping from rational scientific analysis to date. That is why *Tesla's introspective analyses* of his creative phases are so precious 'case study' [1,2] for understanding the very *biophysical nature of creativity*.

Tesla was absolutely convinced in similarity of scientific and artistic ideas: '*They are coming from the same source.*' This viewpoint is similar to *Plato's*, but Tesla did not come to that speculating philosophically, but he had *experienced the world of ideas from the boyhood*: '*When a word was spoken to me the image of the object it designated would present itself vividly to my vision and sometimes I was quite unable to distinguish whether what I saw was tangible or not ... Sometimes it would remain fixed in space though I pushed my hand through it. [quantum hologram' [3,4], in Tesla's quantum-coherent state of consciousness!? (D.R. note)] ... Then, instinctively, I commenced making excursions beyond the limits of the small world of which I had knowledge and saw new scenes. These were at first very blurred and indistinct, and would flit away when I tried to concentrate my attention upon them, but, by and by, I succeeded in fixing them; they gained in strength and distinctness and finally assumed the concreteness of real things. I soon discovered that my best comfort was attained if I simply went on in my vision farther and farther, getting new impressions all the time, and so began to travel – of course in my mind. Every night (and sometimes during the day) when alone, I would start my journeys.' [Astral journeys' [4,5], in Tesla's transitional quantum-coherent states of consciousness? (D.R. note)] ... I have been*



## Phase II: Physical dialog







2

4

3

1

5

## DIALOG

Each of the themes will be introduced by a 3 minute story. The participants will be asked to help us deepen our understanding of each theme through a co-creative dialog.

### ■ 11:00 - 11:30 Theme 1: Creativity as Praxis

Could we be incomparably more creative than we are? Imagine us as creativity athletes — in what way should we practice, live and perform? Are we inhibiting or even damaging Tesla-style creativity in education, academic research and business? How can we develop and manifest our full creative potential?

### ■ 11:30 - 12:00 Theme 2: Tesla as Cultural Icon

Professor Raković's direct creativity model combines insights from contemporary physics to explain how Tesla's creativity was related to his ethical and spiritual predisposition. Was the reason why Edison (and not Tesla) became the popular 20th century icon of a genius inventor the fact that Edison (unlike Tesla) fitted so well into the 20th century's worldview and zeitgeist? Is Tesla challenging us to revisit the history and revise our understanding of ourselves and the world — and become able to radically reinvent our future?

### ■ 12:00 - 12:30 Theme 3: The 21st Century Worldview

In Physics and Philosophy the great quantum physicist Werner Heisenberg explained how the experience of modern physics amounted to a rigorous scientific disproof of the classical worldview. And in Potsdam Manifesto, Heisenberg's 'heir' Hans-Peter Dürr challenged us to "learn to think in a new way". By combining results from modern science with an Internet-based procedure for global dialog or 'collective intelligence', the Tesla and the Nature of Creativity project undertakes to develop a foundation on which new worldviews can emerge. What social creation of truth and worldview might replace conventional science and philosophy? What new understanding of ourselves and of the world might emerge? What other latent abilities might we have, which our classical worldview prevented us from understanding and developing?

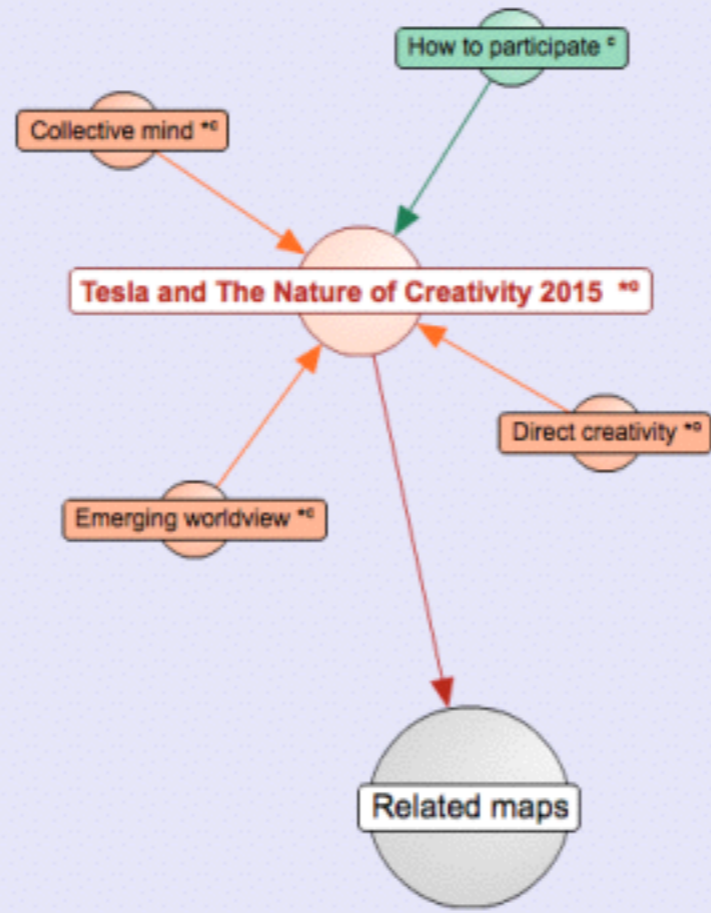
### ■ 12:30 - 13:00 Theme 4: The 21st Century Enlightenment

"The future will either be a product of an inspired cultural revival, or there will be no future", wrote the co-founder and first president of The Club of Rome Aurelio Peccei, expressing a sentiment shared by a number of contemporary thinkers. When Tesla wrote that "when we start to study non-physical [today we would perhaps rather say "non-classical"] phenomena, we will progress more in ten years than we have for centuries", was he pointing to a natural way to begin the next Renaissance?



Phase III: Online dialog

Tesla and The Nature of Creativity 2015 [Map Home](#)



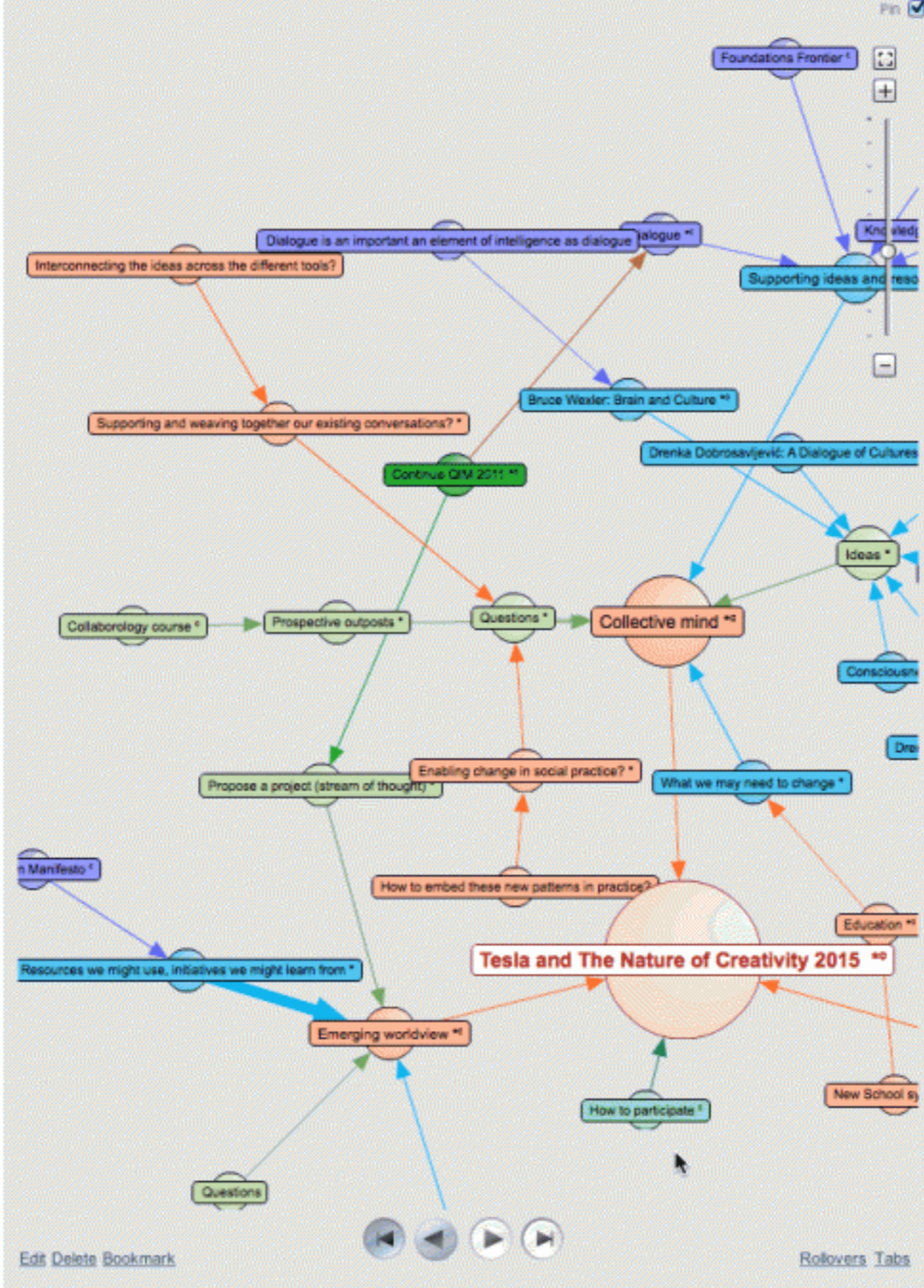
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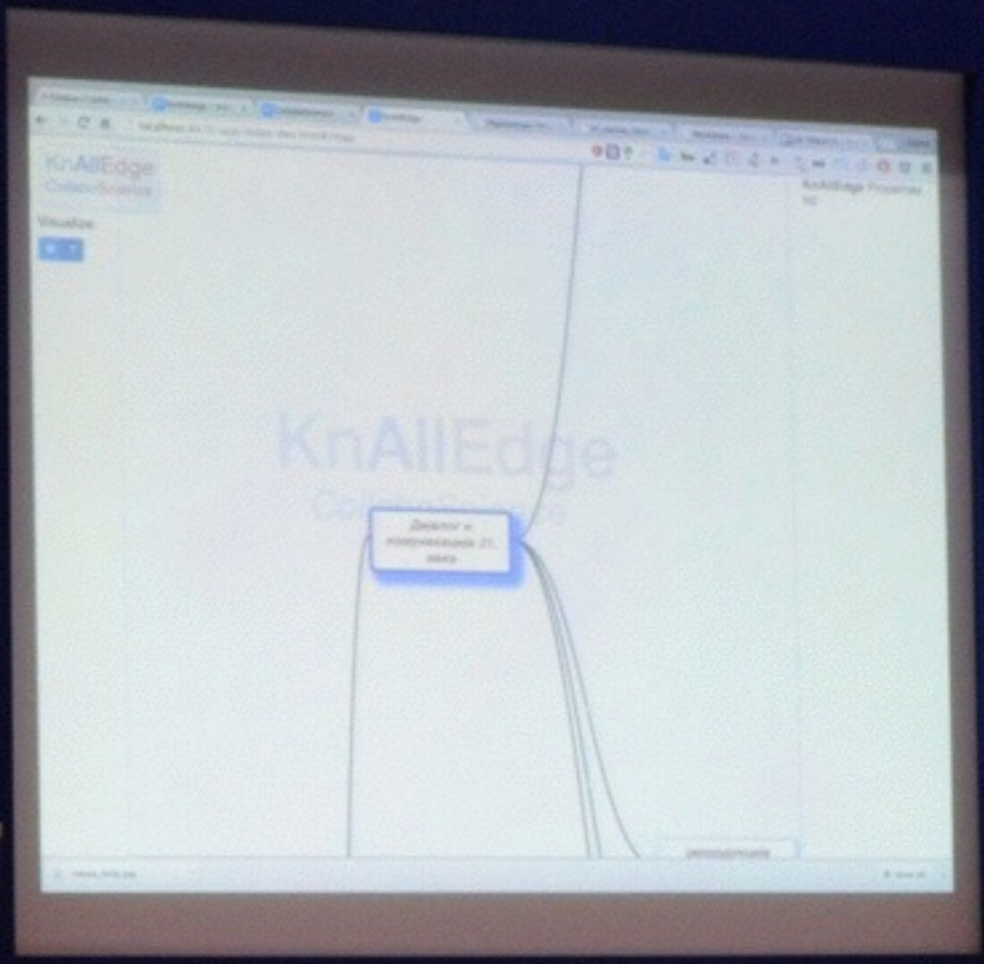
Rollovers Tabs

Add idea Comment Move Cross-link Cite New map



CollaboScience: Human system –  
tool system co-creation





БУДУЋНОСТ  
ПРИПАДА  
СВИМА



ВАСОКА ШКОЛА  
ЕЛЕКТРОТЕХНИКЕ И РАЧУНАРСТВА  
СТРУКОВНИХ СТУДИЈА





Watch the CollaboScience  
2-minute video



DIGITAL HUMANIORA I NORDEN  
DIGITAL HUMANITIES IN THE NORDIC COUNTRIES

CollaboScience will be presented at a special workshop at the first Digital Humanities in the Northern Countries conference in Oslo this Thursday



A collective mind - Part II













—  
Let me recapitulate what seems to me the crucial question at this point of the human venture. Man has acquired such decisive power that his future depends essentially on how he will use it. However, the business of human life has become so complicated that he is culturally unprepared even to understand his new position clearly. As a consequence, his current predicament is not only worsening but, with the accelerated tempo of events, may become decidedly catastrophic in a not too distant future. The downward trend of human fortunes can be countered and reversed only by the advent of a new humanism essentially based on and aiming at man's cultural development, that is, a substantial improvement in human quality throughout the world.

**AURELIO PECCEI**



—  
**Aurelio Peccei**

Original photo by [laboratoriolapsus.it](http://laboratoriolapsus.it)

—  
The nineteenth century developed an extremely rigid frame for natural science which formed not only science but also the general outlook of great masses of people [...] This frame was so narrow and rigid that it was difficult to find a place in it for many concepts of our language that had always belonged to its very substance, for instance, the concepts of mind, of the human soul or of life. Mind could be introduced into the general picture only as a kind of mirror of the material world [...] one may say that the most important change brought about by [the results of modern physics] consists in the dissolution of this rigid frame of concepts of the nineteenth century.

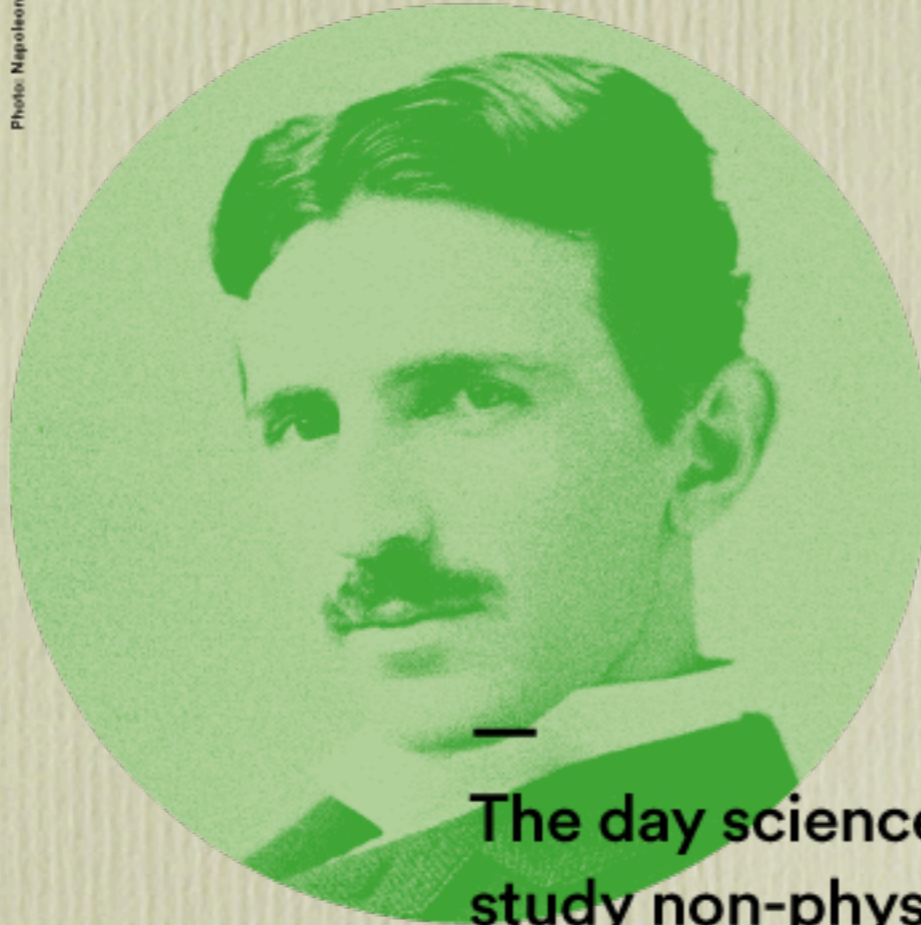
**WERNER HEISENBERG**



—  
**Werner Heisenberg**

Original photo: Bundesarchiv

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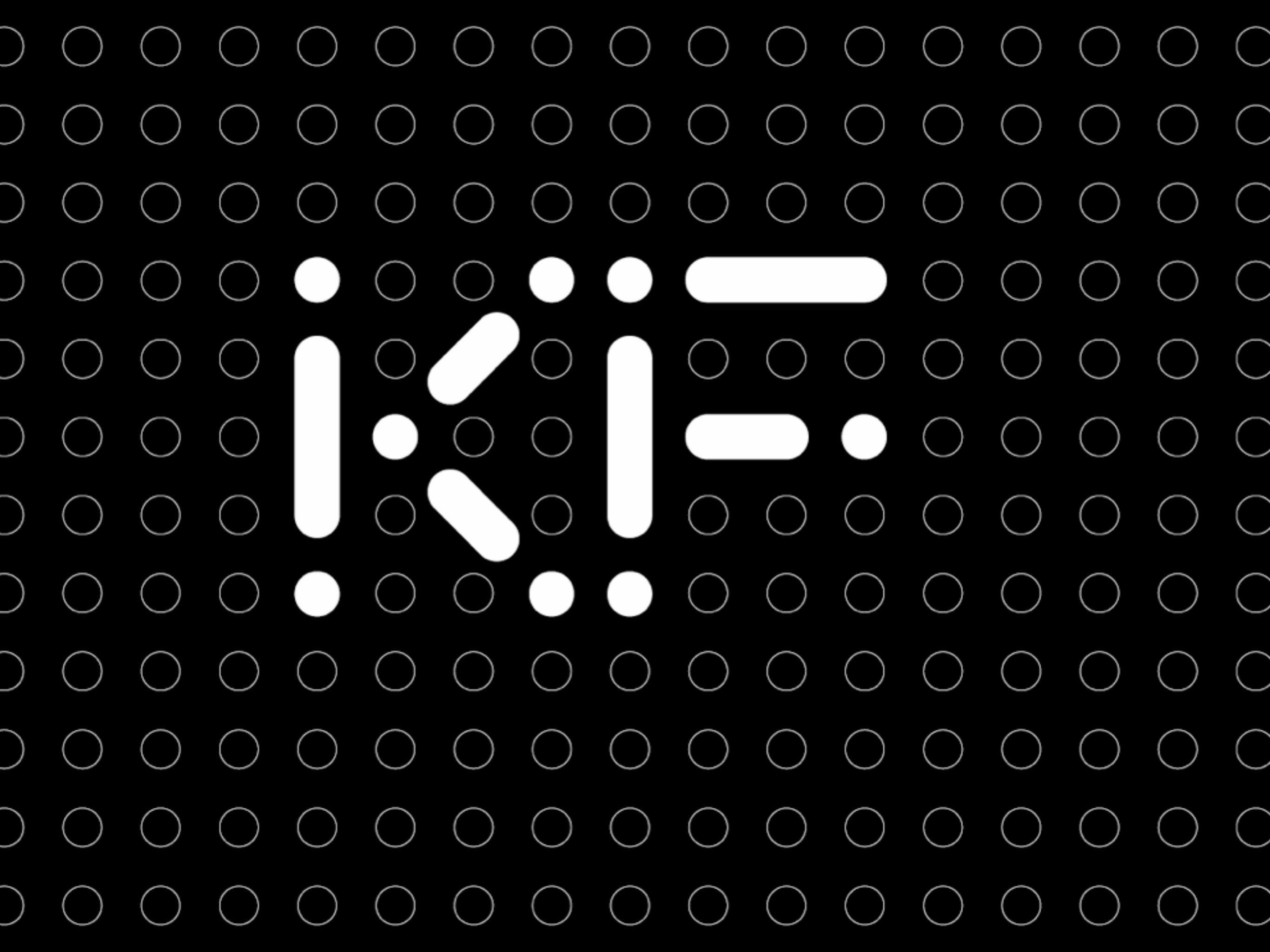
—  
The day science begins to study non-physical phenomena, it will make more progress in one decade than in all the previous centuries of its existence.

**NIKOLA TESLA**



Who does the weaving?

the traditional institution –  
academic discipline  
and the traditional way of working –  
publishing research articles  
will not do the job





Our vision



ВИСОКА ШКОЛА  
ЕЛЕКТРОТЕХНИКЕ И РАЧУНАРСТВО  
СТРУКОВНИХ СТУДИЈА

INTERNATIONAL CONFERENCE  
**TESLA**  
OF THE FUTURE  
Dino Karabeg  
Bosnia and Herzegovina  
[Logo]

Coca-Cola

ROSA

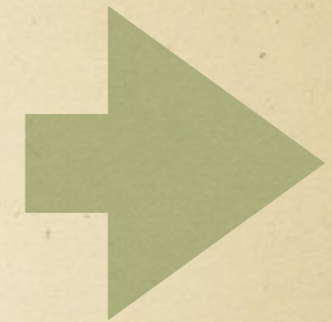


TNC 2015

*My vision for the future*

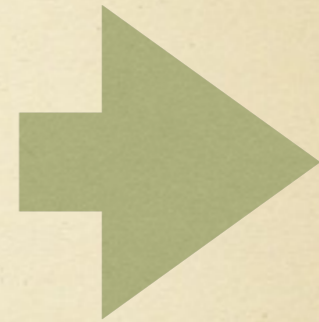
Our generation is facing an opportunity and challenge of unprecedented dimensions: To engender a similarly revolutionary progress in our societal and cultural evolution in this century, as we did by harnessing the powers of nature through science and technology in the past one.

Industrial innovation



Social-systemic innovation

Electrification



Systemic innovation in  
knowledge work

