



Scienza delle conseguenze



Luca De Biase

Scienza delle conseguenze



CONSEQUENZE

?

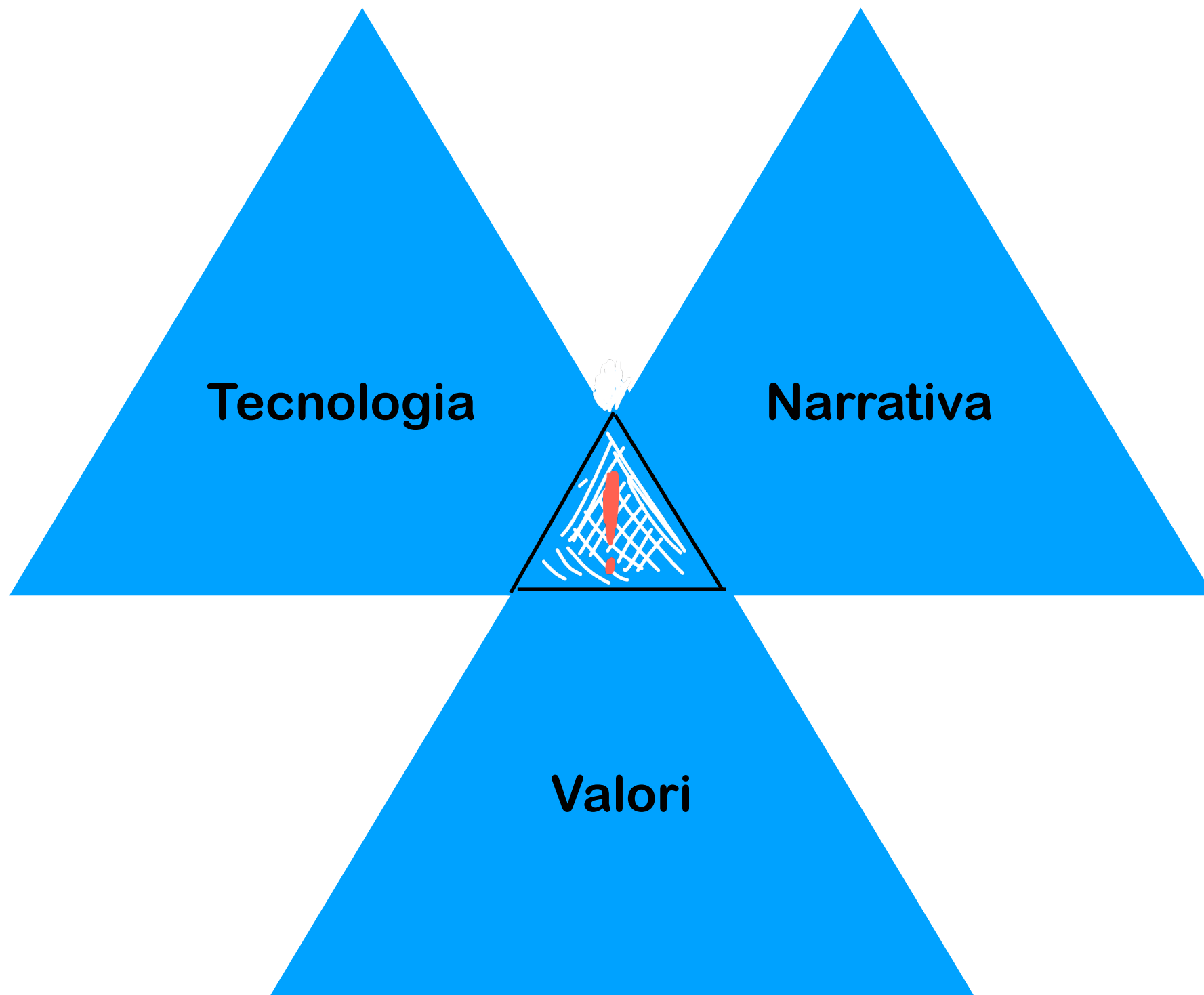
CONSEGUENZE

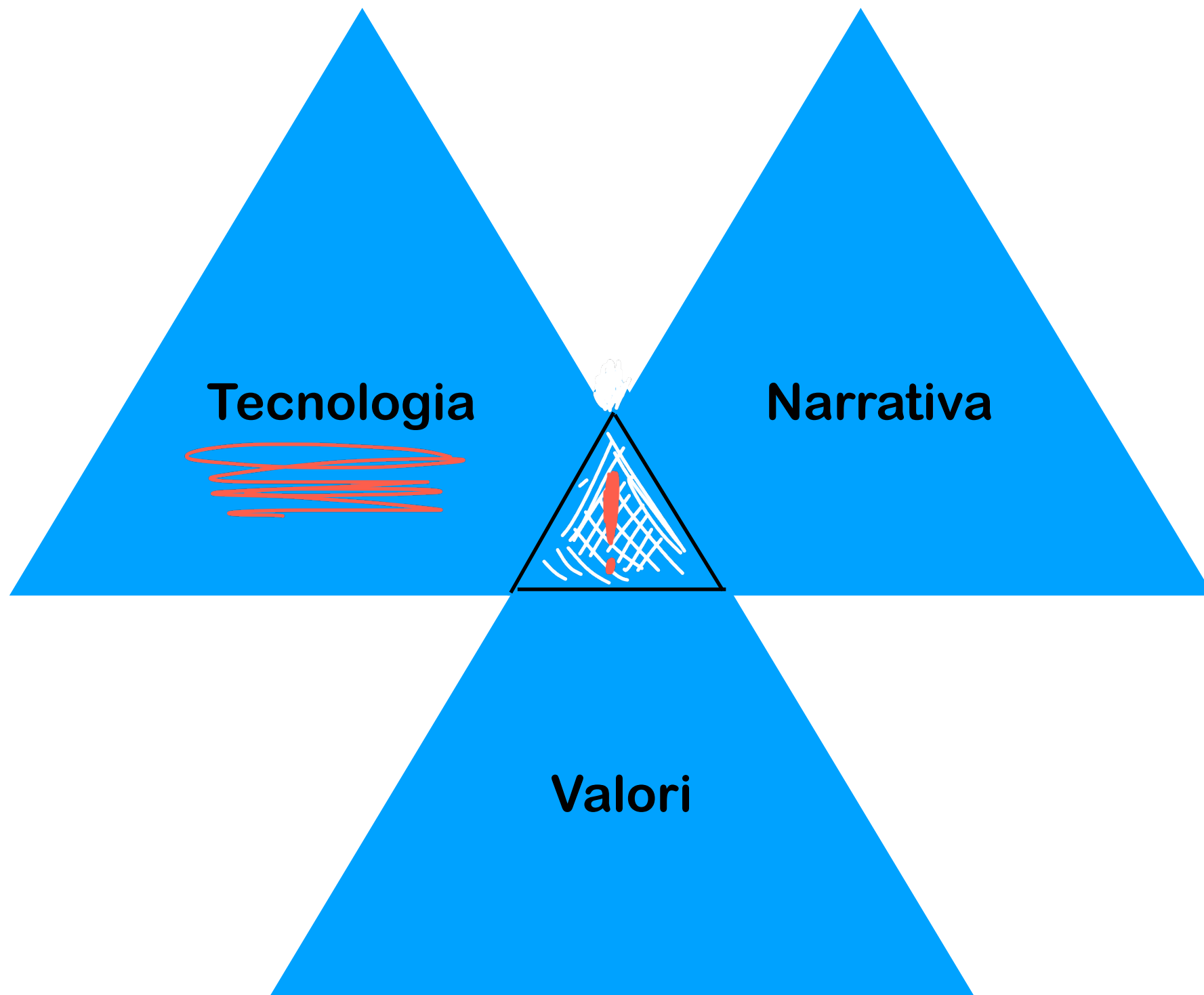
?

Tecnologia

Narrativa

Valori









è
snello



Crash
combiementi

qualche sbabbio

45

In digital we trust?

Shift happens

Accelerazione

–la tecnologia digitale ha generato un’accelerazione dell’innovazione ma, quando ha digitalizzato la stessa scienza, ha provocato un’accelerazione dell’accelerazione

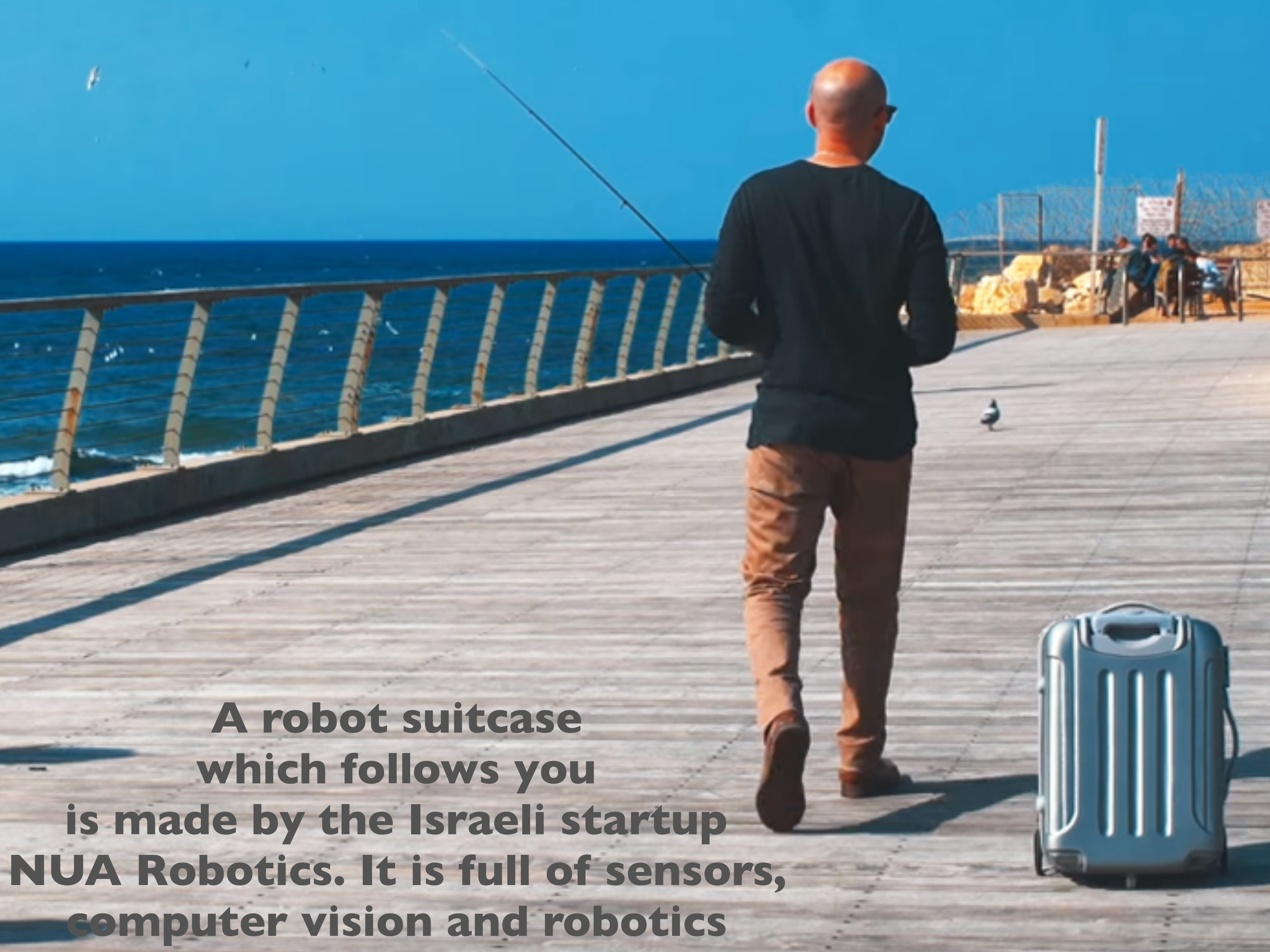
SHIFT HAPPENS

- Big data
- Robotics
- Nanotechnology
- Biotechnology
- Neuroscience
- Particle Physics
- Addictive production
- Artificial intelligence
- Collective intelligence
- Platform economy
- Climate change
- Space exploration
- Startup ecosystem
- Blockchain



Norman MIT - Rorschach Test

<http://www.iflscience.com/technology/mit-scientists-create-norman-the-worlds-first-psychopathic-ai/>



**A robot suitcase
which follows you
is made by the Israeli startup
NUA Robotics. It is full of sensors,
computer vision and robotics**





Coming Soon to a Battlefield: Robots That Can Kill

<https://www.theatlantic.com/technology/archive/2019/09/killer-robots-and-new-era-machine-driven-warfare/597130/>





Machine Bias

<https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing>



"A provocative question in the years ahead centers on AI that creates AI. In such a case, can humans claim responsibility for the final creation?"



DARWIN AI | **Sheldon Fernandez**
CEO



Yulin University

<http://blog.debiase.com/2016/11/06/editing-genetico-delle-capre-per-produrre-piu-cashmere/>



Digid8 and will try to use your genes to make sure you never meet the wrong person

Harvard University

<https://www.technologyreview.com/s/614920/actual-facts-about-george-church-dna-dating-company-digid8/>



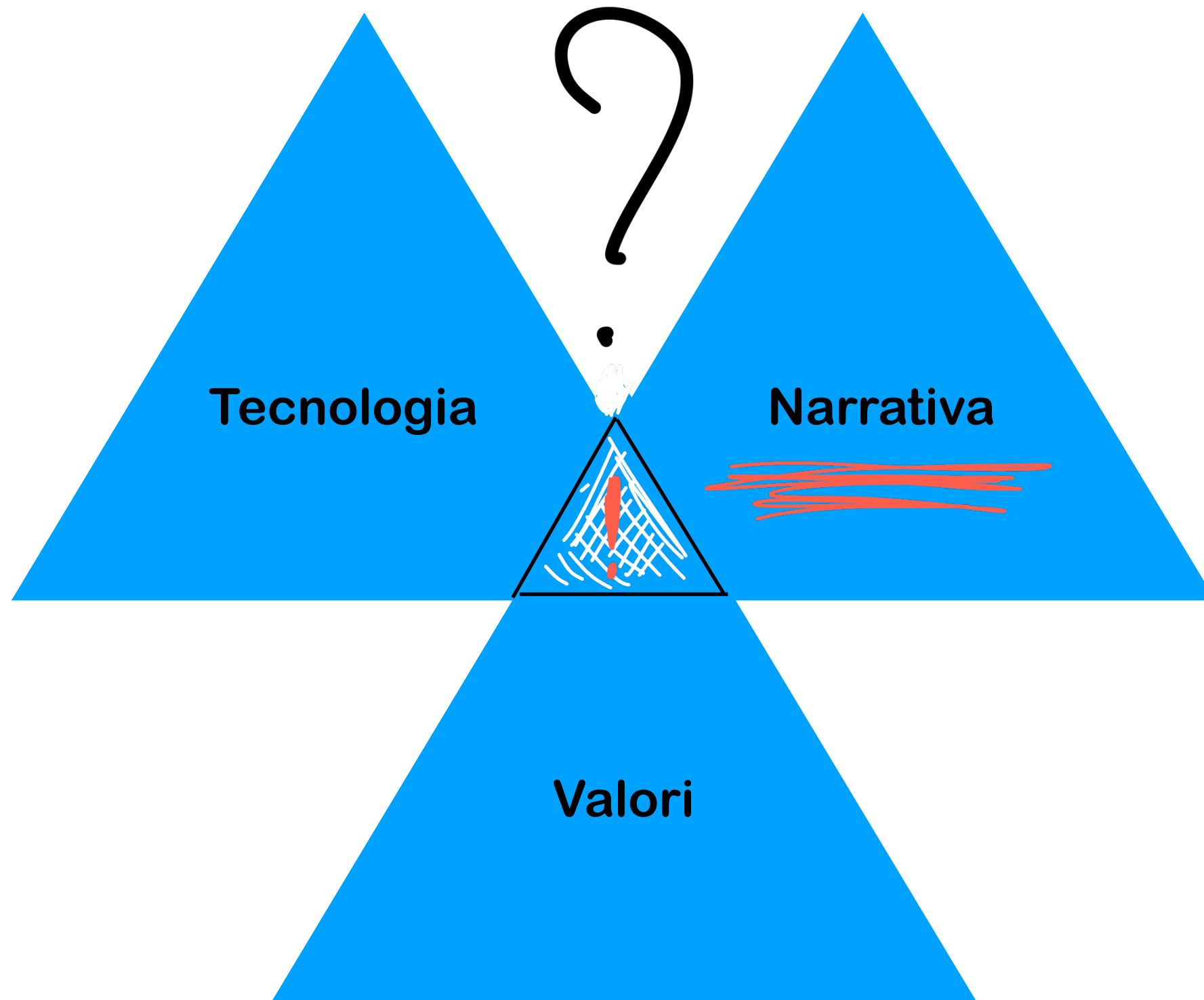


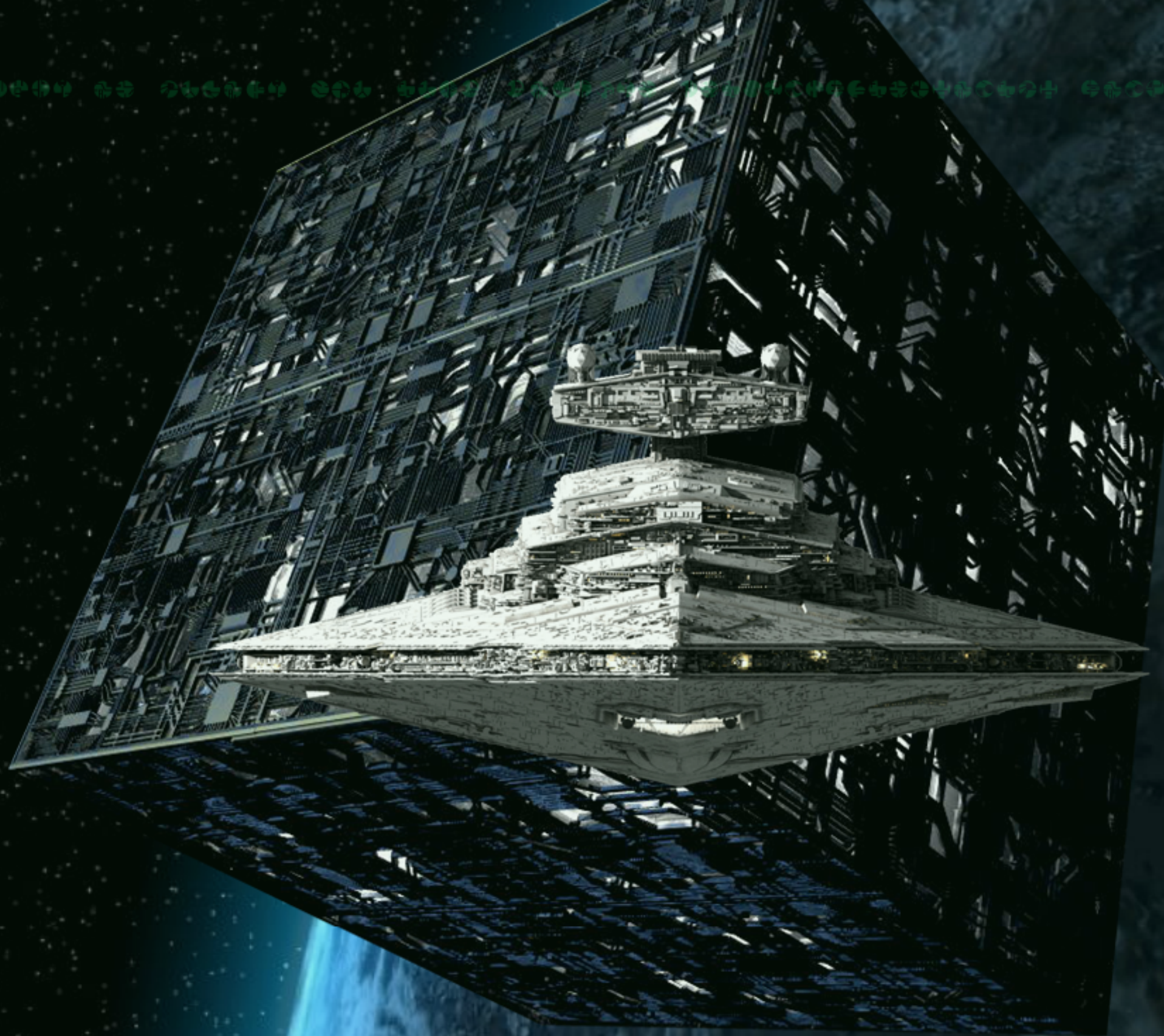
Digital Celebrity 'APOKI' <http://afun-interactive.com>



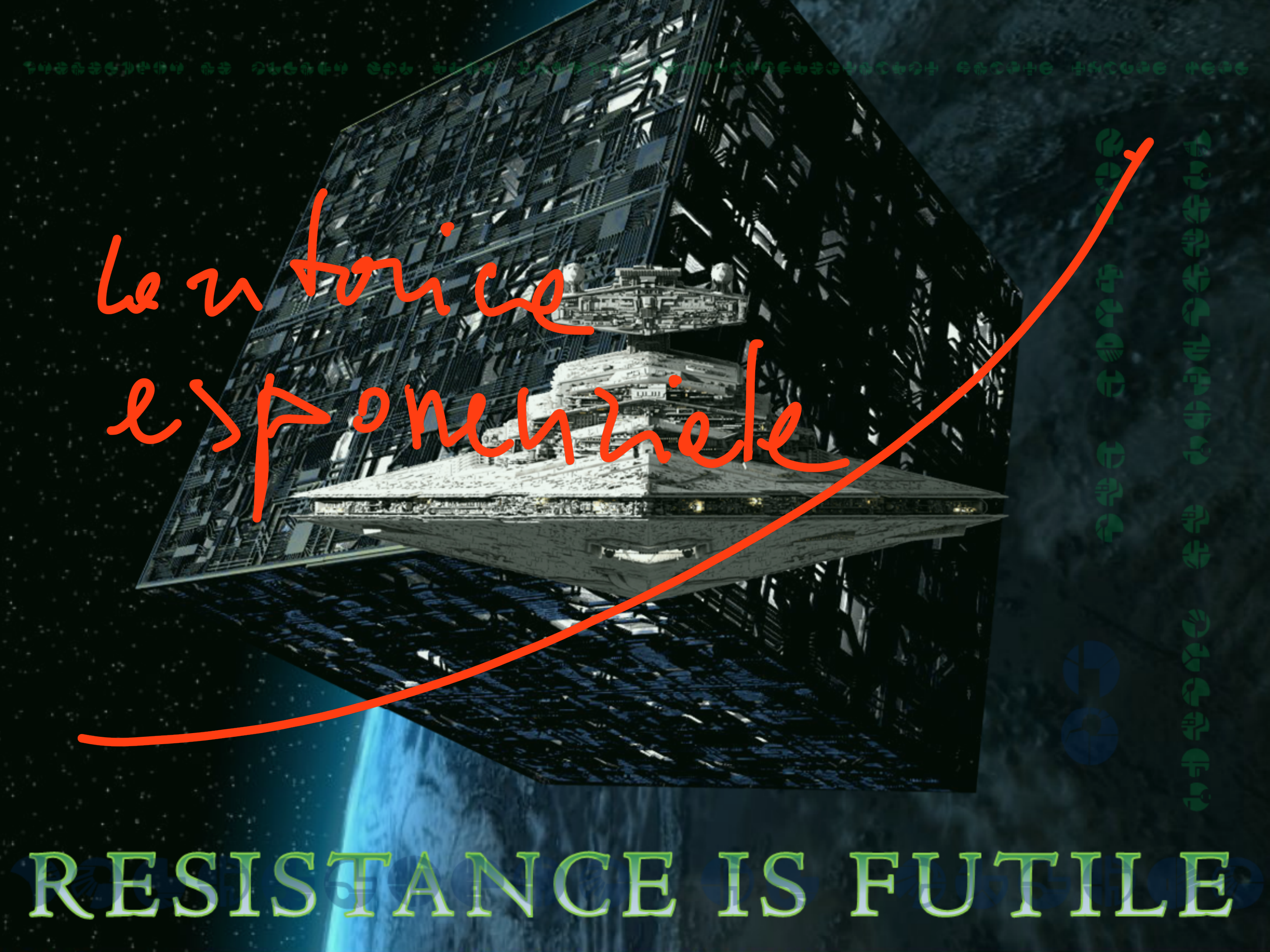
Hatsune Miko in concert - Tokyo London Kuala Lumpur

CONSEGUENZE



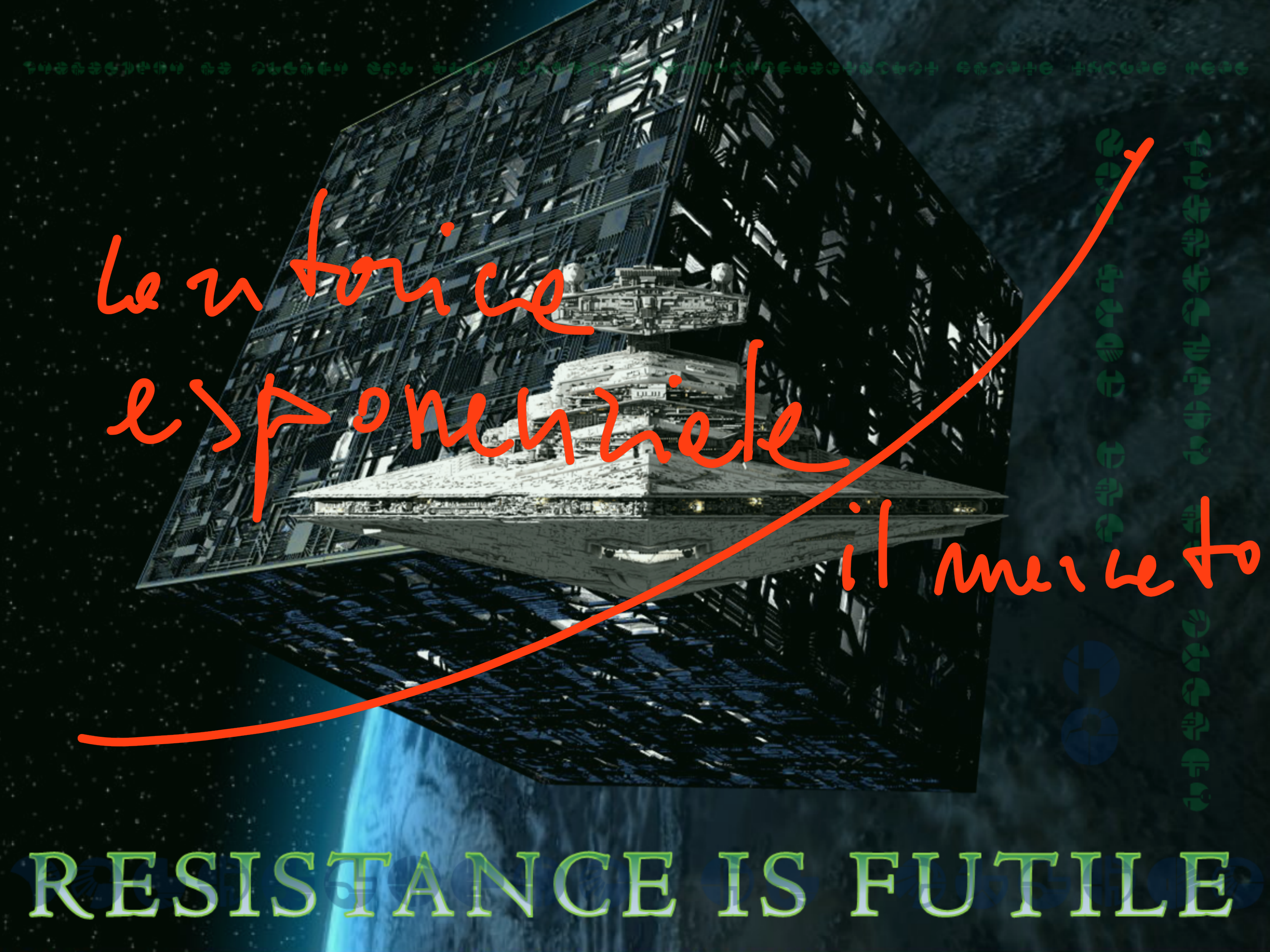


RESISTANCE IS FUTILE



La r force
esponenziale

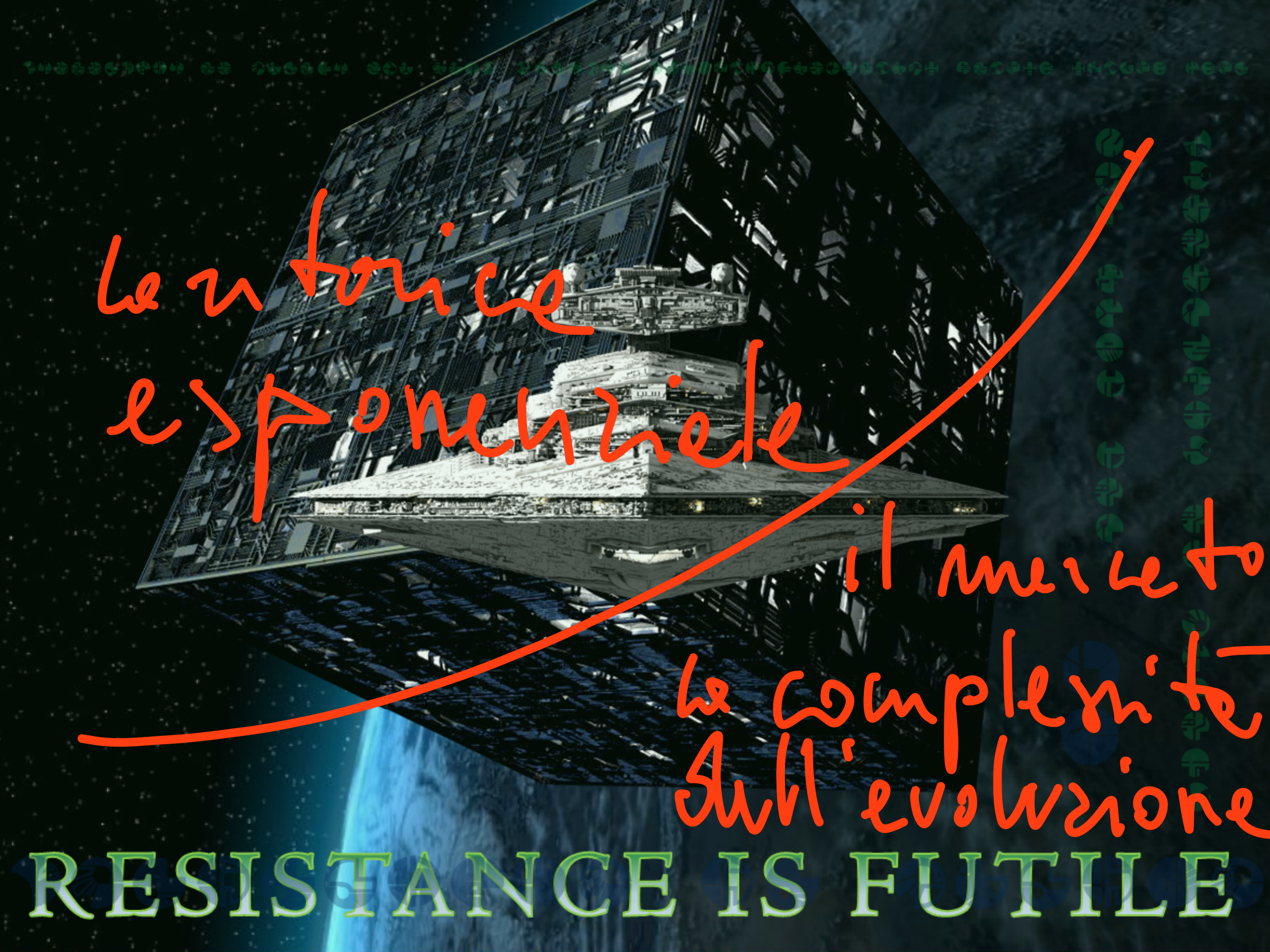
RESISTANCE IS FUTILE



la resistenza
è spaventevole

il merito

RESISTANCE IS FUTILE



La resistenza
è esponenziale

il merco
la complessità
All'evoluzione

RESISTANCE IS FUTILE

La grande trasformazione

–la ricerca delle parole per raccontarla

(per esempio come cambia l'idea di informazione)

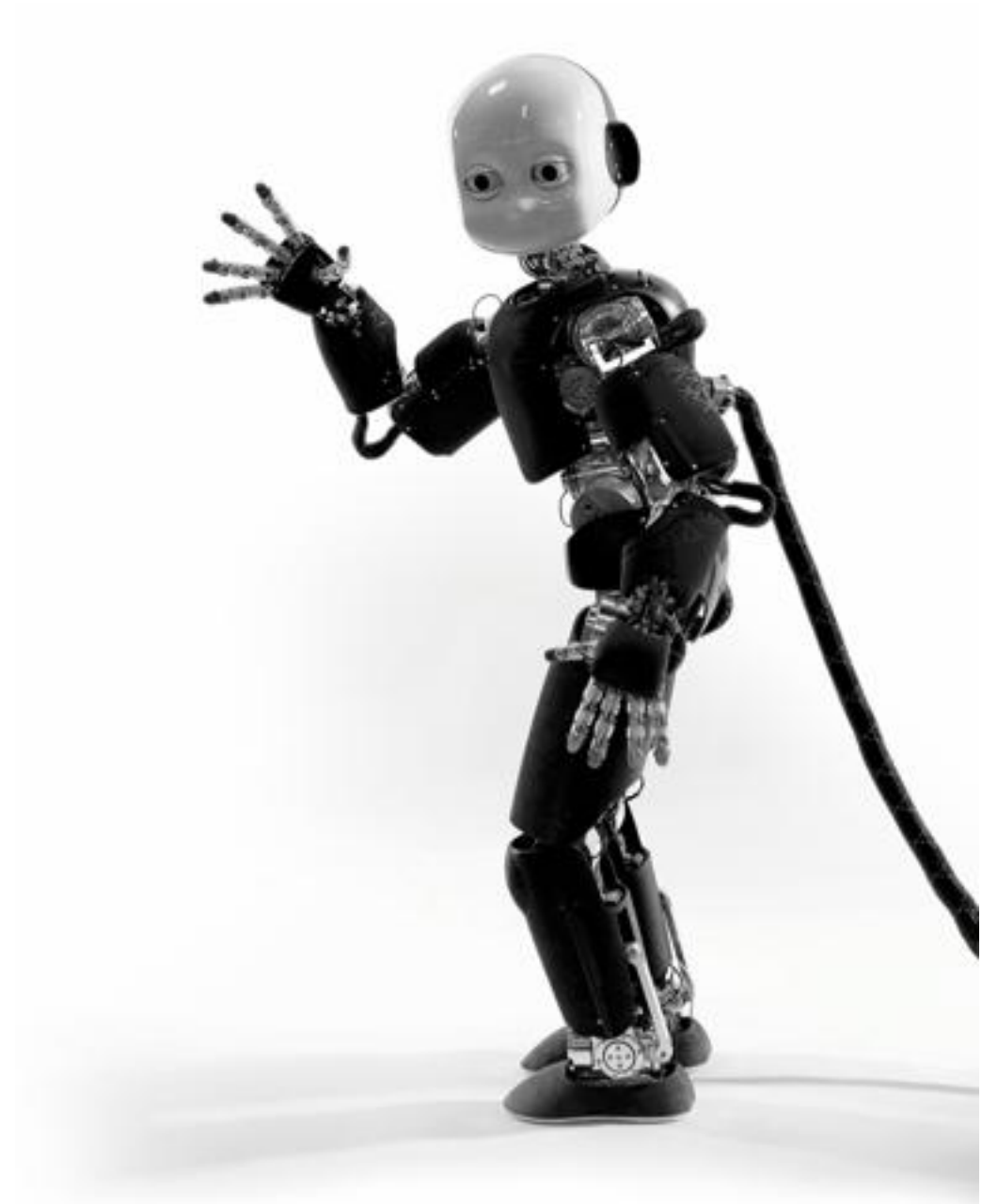
economia post-industriale

età dell'informazione

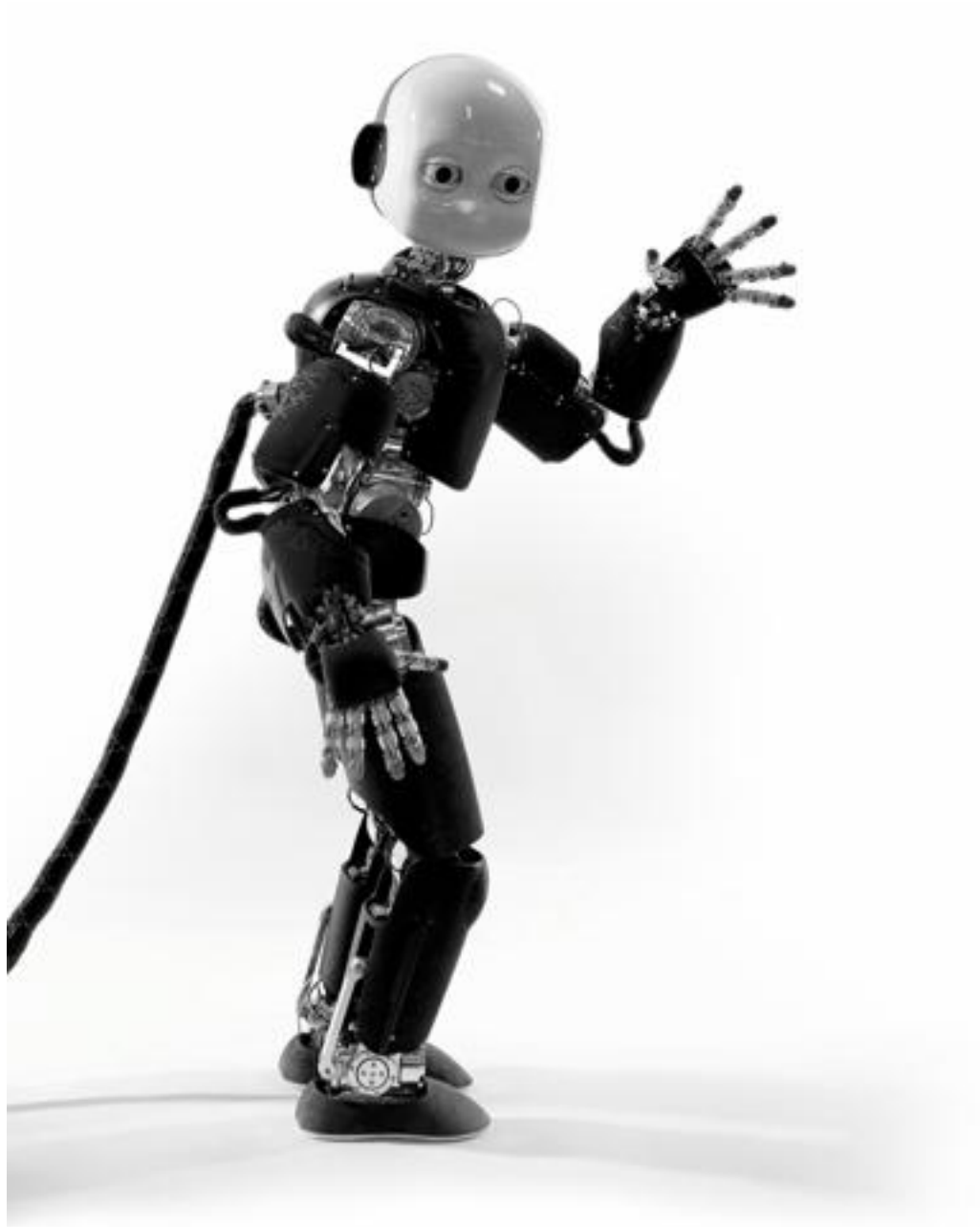
economia della conoscenza

Motori del cambiamento

- Digitalizzazione
- Globalizzazione
- Demografia
- Ecologia
- Complessità



Motori del cambiamento



Accelerazione

digitale della scienza

Separazione

economie-mondo

Polarizzazione

sociale, economica, culturale

Climate change

energia, città, mobilità

La prima legge degli studi sul futuro

–Non ci sono fatti del futuro. Ci sono solo narrative

(Institute for the Future)

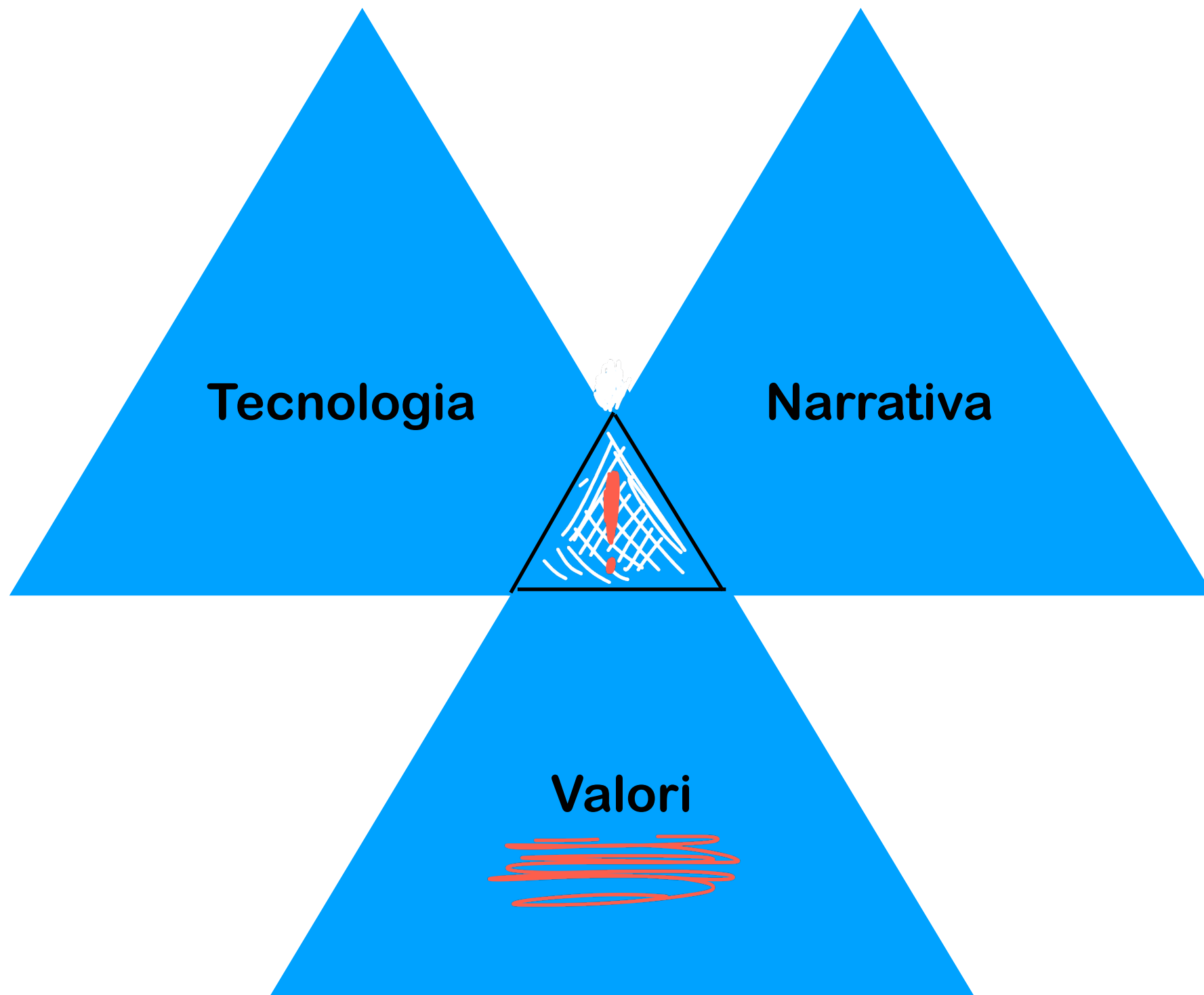
L'Economist ha detto...

Evoluzione: “we shape our tools, then our tools shape us”

WATER

by Ramez Naam



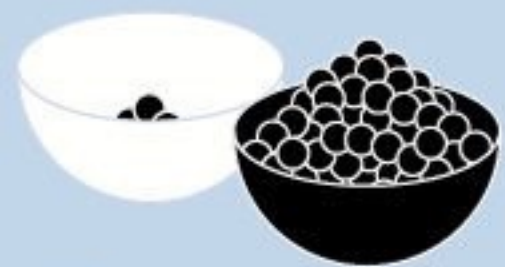


Tecnologia

Narrativa

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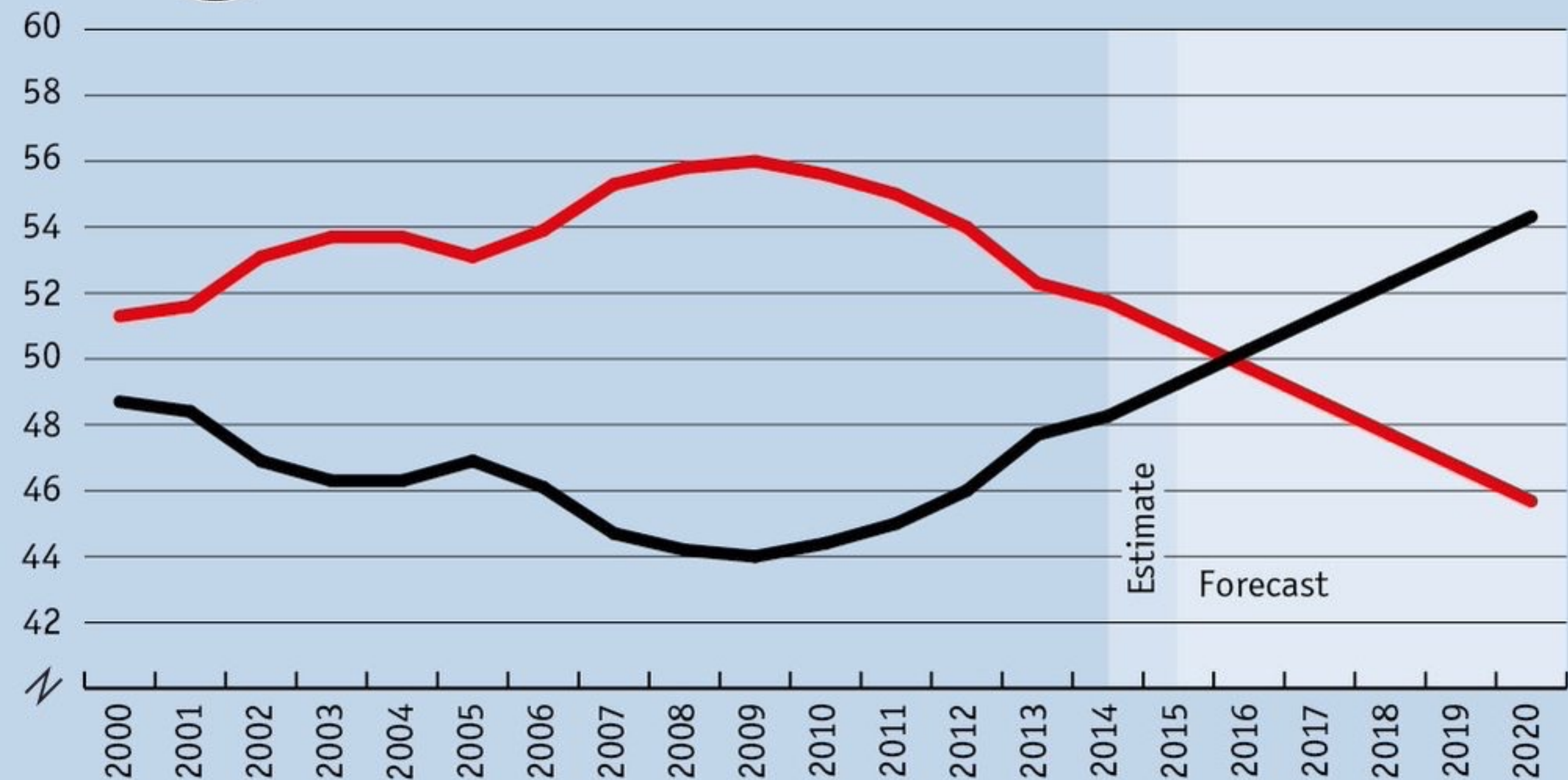
The winner take all



Unequal halves

Share of global wealth, %

Top 1%
Bottom 99%

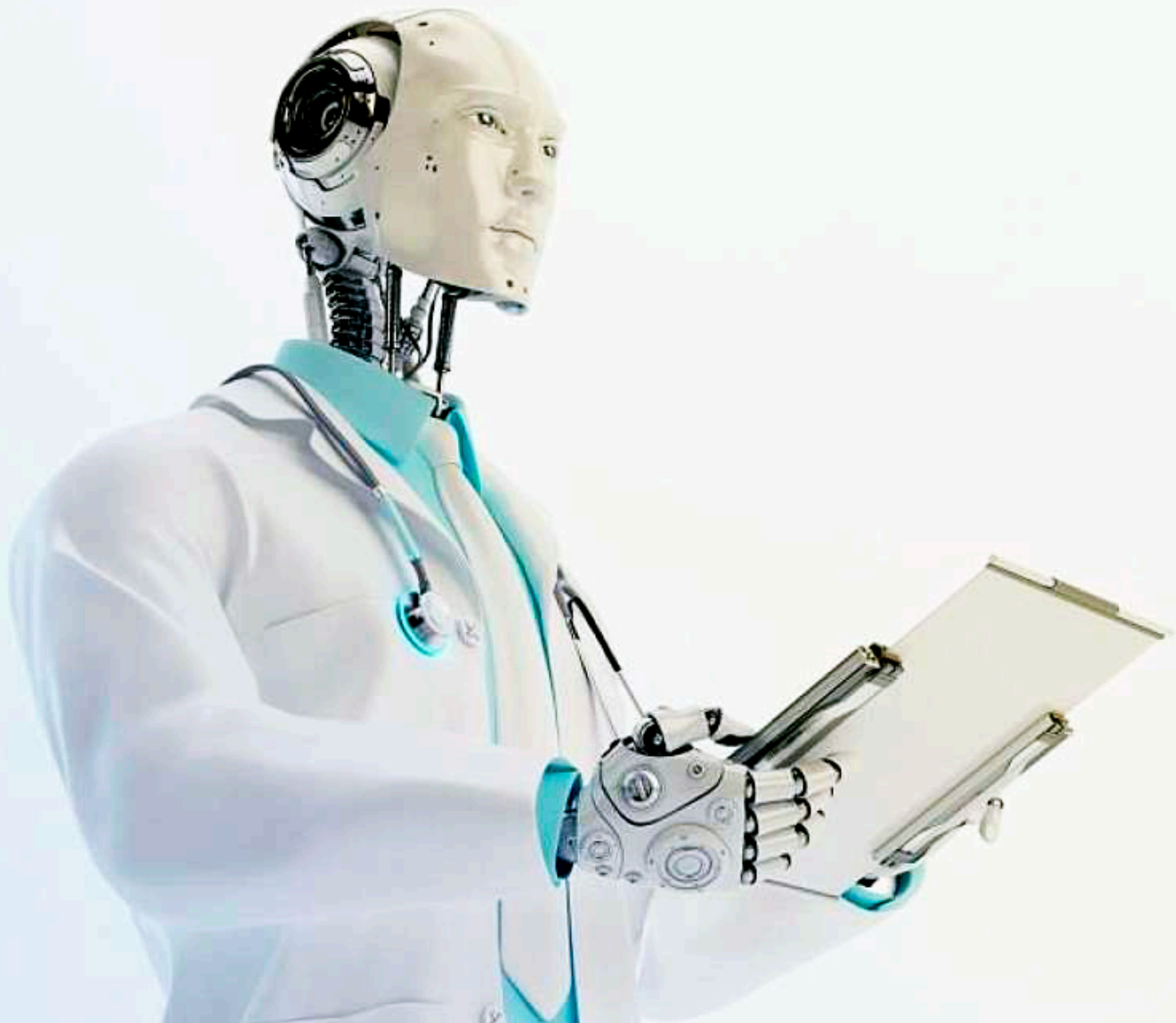


Source: Oxfam

domande epocali

- può funzionare un mondo tanto polarizzato?**
- possiamo indirizzare l'economia verso la sostenibilità?**
- siamo in grado di dare una direzione all'innovazione?**

Il lavoro del futuro



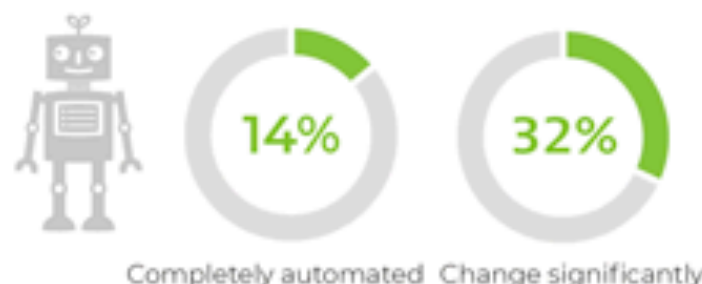
Un'inchiesta, 100 interviste:

- Oecd
- Imprese
- Ricercatori



Risk of automation is real but varies across countries

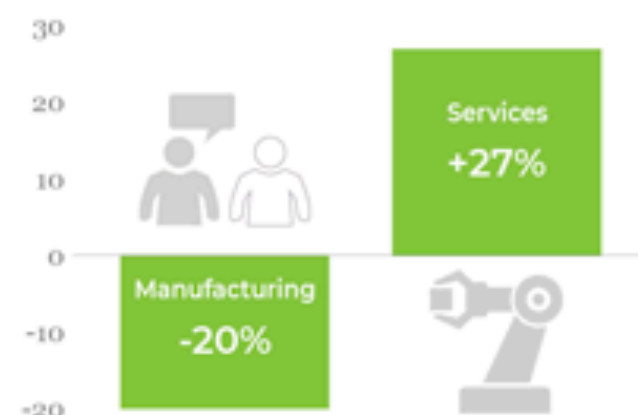
14% of jobs could be automated, with 32% likely to change significantly.



Will this lead to fewer jobs for humans? Unlikely. While technological progress makes some occupations obsolete, it also creates new jobs.

The labour market is transforming

% change in number of jobs between 1995 and 2015



Between 1995 and 2015 employment in the manufacturing sector went down by 20%, while it rose by 27% in the service sector

Many adults do not have the right skills for emerging jobs



6 out of 10 adults lack basic ICT skills or have no computer experience.

But the share of highly-skilled jobs has increased by 25% over last 2 decades. Low-skilled jobs have also increased, but the share of middle-skilled jobs has decreased.

Social protection needs to be adapted to the future of work

Self-employment, part-time and temporary work are on the rise in some countries.

Together, such non-standard workers are 50% less likely to be unionised than standard employees



In some countries they are also 40-50% less likely to get income support when out of work.



Policies can help

Better social protection coverage for workers in non-standard jobs.



Adult training should better target the disadvantaged, such as the low-skilled.



Ensure all workers have adequate labour market protections.



Extend collective bargaining coverage to previously excluded workers.





Tre mondi del lavoro

Nell'economia della conoscenza, della felicità, delle piattaforme

Il lavoro del futuro

- Tutto ciò che non è dormire e cura personale (ILO)
- Una trasformazione per almeno la metà dei mestieri
- La convergenza di specializzazione e narrazione
- Una visione strategica per navigare il cambiamento
- Un approccio centrato su community e stakeholder

future skill

–Il lavoro del futuro è la preparazione al lavoro del futuro

future school

–La scuola del futuro è la progettazione del lavoro del futuro

Business design





Business design

- Startup project
- Business modeling
- Platform economy
- Design thinking
- Experience design
- Service design
- Project management
- Data analysis
- Some coding
- Interface design
- Dynamic branding
- Innovative financing
- Vision and strategy
- Leadership
- Drivers of change

Design driven innovation



Design driven innovation



- Innovation theory
- Project definition
- Design thinking
- Experience design
- Personas analysis
- Service design
- Interface design
- Dynamic branding
- Storytelling
- Cultural studies
- Vision and strategy
- Leadership
- Drivers of change
- Learning agility
- Epistemology
- Analytics
- Project management
- Knowledge management
- Innovation management

Future studies





Future studies

- Scenario building
- Innovation theory
- Drivers of change
- Big data architecture
- Pattern recognition
- History of the futures
- Sustainability
- Long term decision making
- Vision and leadership
- Epistemology of the future
- Ideas gathering techniques
- Complexity theories
- Evolutionist approach
- Demography
- Geopolitics

Drivers of change





Drivers of change

- Nanotechnology
- Biotechnology
- Neuroscience
- Digital technology
- Scenario building
- Innovation theory
- Artificial intelligence
- Demography
- Geopolitics
- Poverty
- Mobility
- Polarization
- Education

Social impact

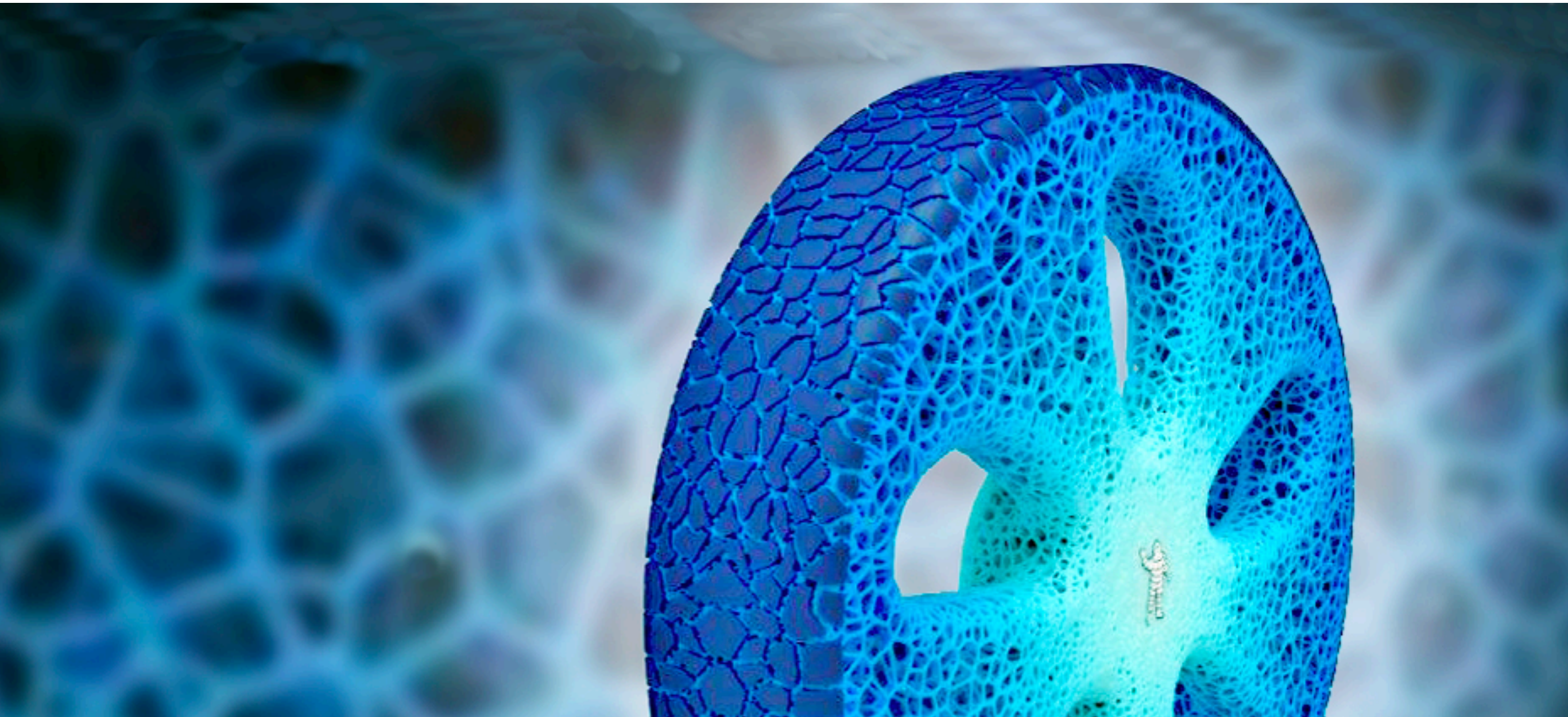


Social impact

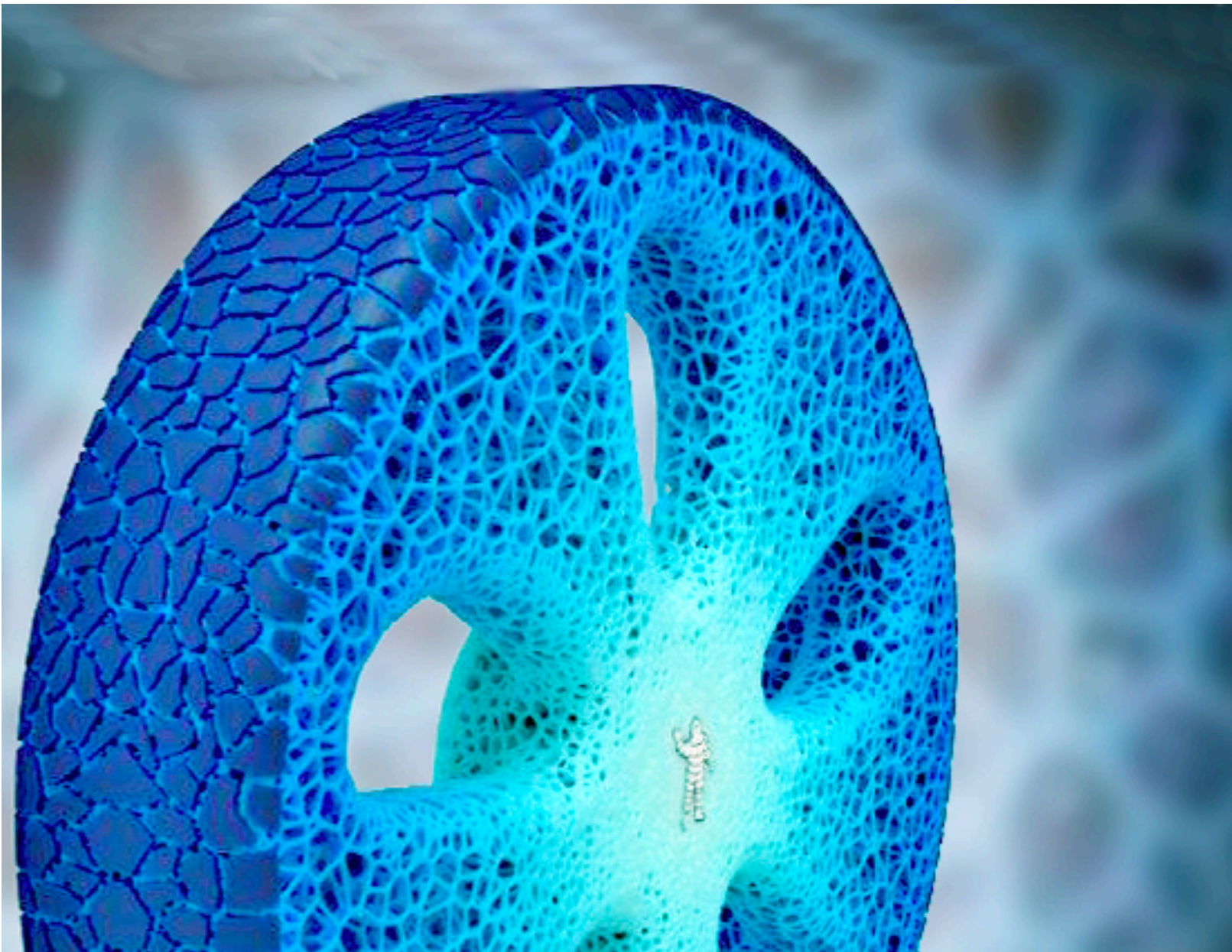


- Impact investment
- Social mobility
- Communication
- Community building
- Service design
- Sustainability
- Cooperative platforms
- Cultural based welfare
- Fund raising
- Crowdfunding
- Branding
- Innovation theory

Open innovation



Open innovation



- Collaboration formats
- Project management
- Communication
- Community building
- Service design
- Cooperative platforms
- Crowdfunding
- Branding
- Innovation theory
- Complex systems design

valore

–economia della conoscenza

valori

–economia della felicità

–etica dell'intelligenza artificiale

precondizioni

–intelligenza collettiva

immaginazione

–media ecology, evolution & future studies

