«Oltre la Siepe» series – Opening keynote – L'innovazione nelle Utility 4.0– Confservizi Piemonte e Valle D'Aosta
Torino 5 Giugno 2018

knowhedge
your edge to know how

7 minuti a mezzanotte
Innovazione e Lavoro nella prossima rivoluzione industriale

"Over the Hedge"

Fabrizio Cardinali – C.E.O. Knowhedge Consulting

Open Innovation in Human, Robotic & Machine Learning & Safety

7 Minuti a Mezzanotte

The farther backward you can look, the farther forward you are likely to see.
Winston Churchill

5:52 – The Medici Effect

11:23 PM: The Sputnik Effect

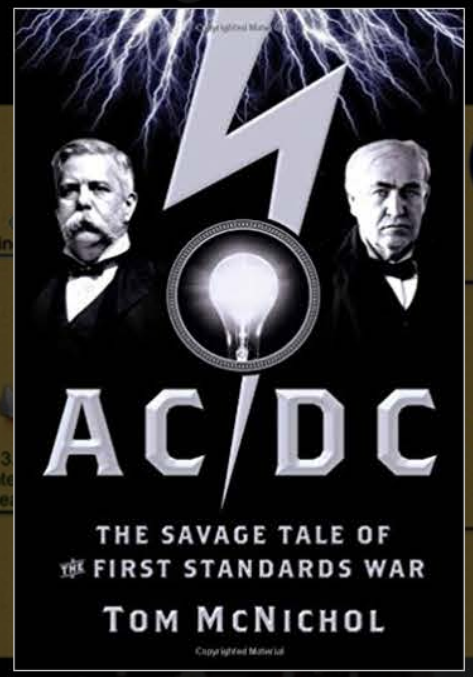
10:41 The War of Currents

Recreating The Perfect Innovation Storm

«we Choose to go to the moon…»

Westinghouse

AC - Centralised Distribution



Edison

DC- Decentralised Distribution

Ecco che arriva il super nexus…

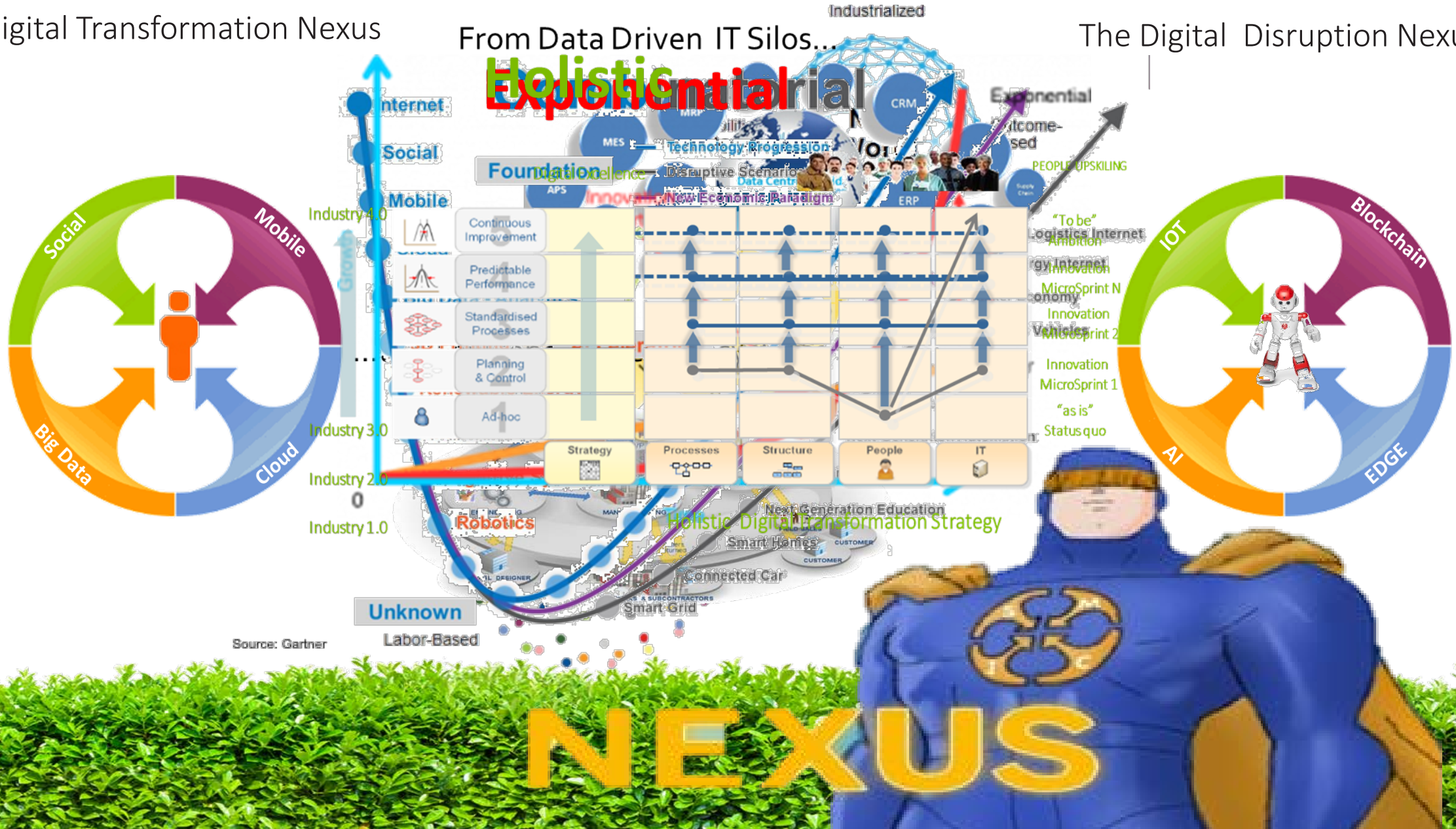
The Digital Transformation Nexus

From Data Driven IT Silos…

Holistic

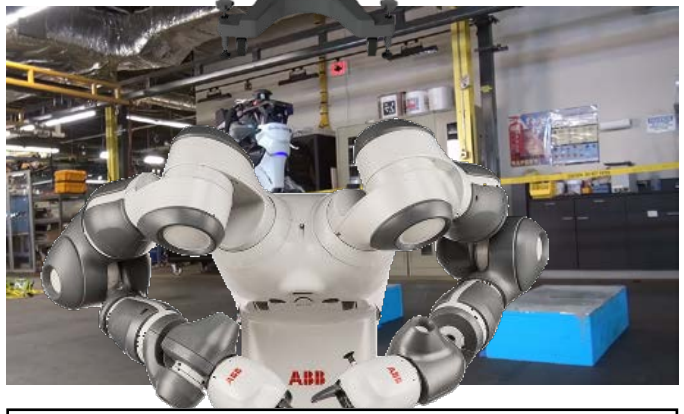
Exponential

The Digital Disruption Nexus



7 minuti per… …Atlas, Alexa e Siri

31 August 2016



lovember 2017

10 May 2018

7 minuti per tutti noi

- La **convergenza fra Intelligenza Artificiale e Robotica** sta creando un fenomeno completamente diverso perchè coinvolgerà il **90%** delle attività e I settori a cui migrare le competenze umane saranno pochi

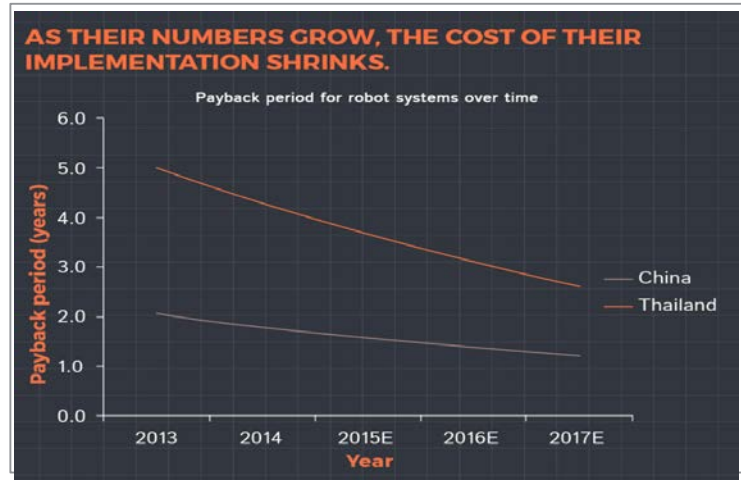
- I ricercatori della Oxford University hanno stimato che il **47%** dei lavori saranno robotizzati a causa delle nuove tecnologie di automazione

- Nel1800, **80%** della forza lavoro era impiegata nel settore agricolo. Oggi si è ridotta a meno del **2%** dovuta alla meccanizzazione

- Possiamo immaginare la nascita di molte nuove industrie— quali nanotececnologie e biologia sintetica—ma **non avranno bisogno di molto personale**.

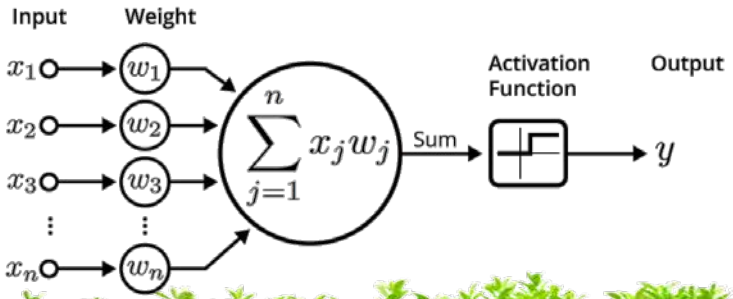
- Non potendo **migrare orizzontalmente** il lavoro deve **migrare verticalmente**

Source https://futurism.com/images/universal-basic-income-answer-automation/

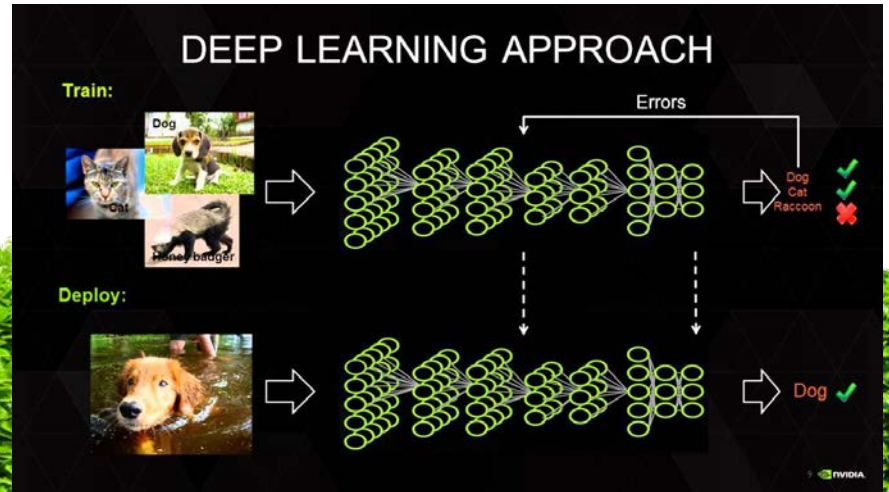


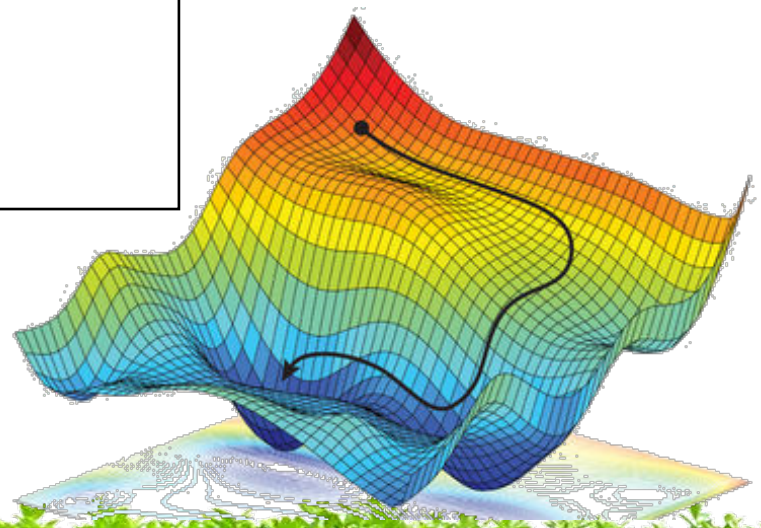
IoT: dalle cose su Internet all'Internet delle cose

Artificial Intelligence: dal machine learning al deep learning

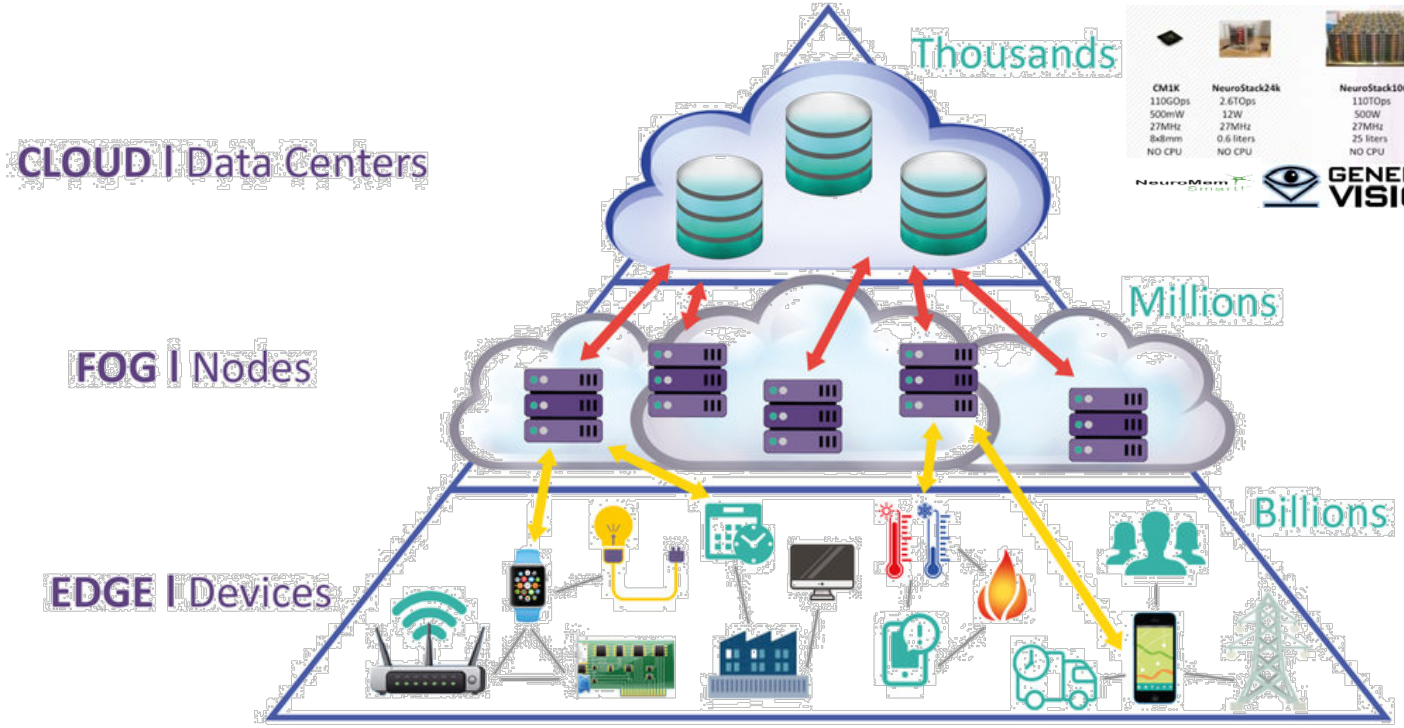


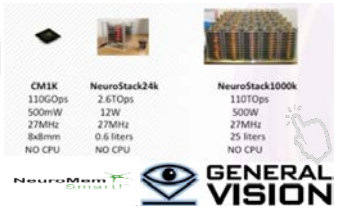
An illustration of an artificial neuron. Source: Becoming Human.

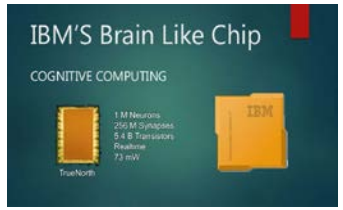


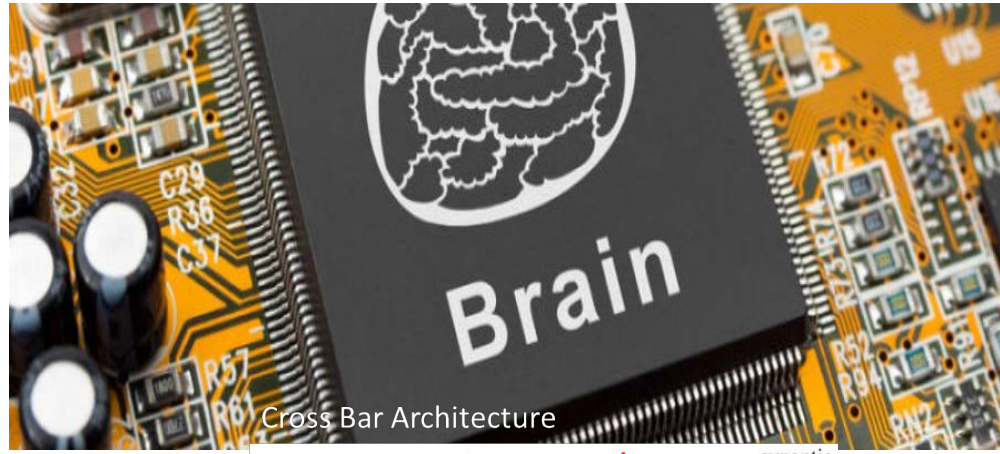


Edge Computing: dal computer di Von Neumann ai neurochip

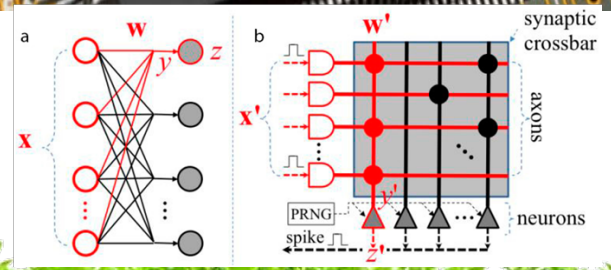




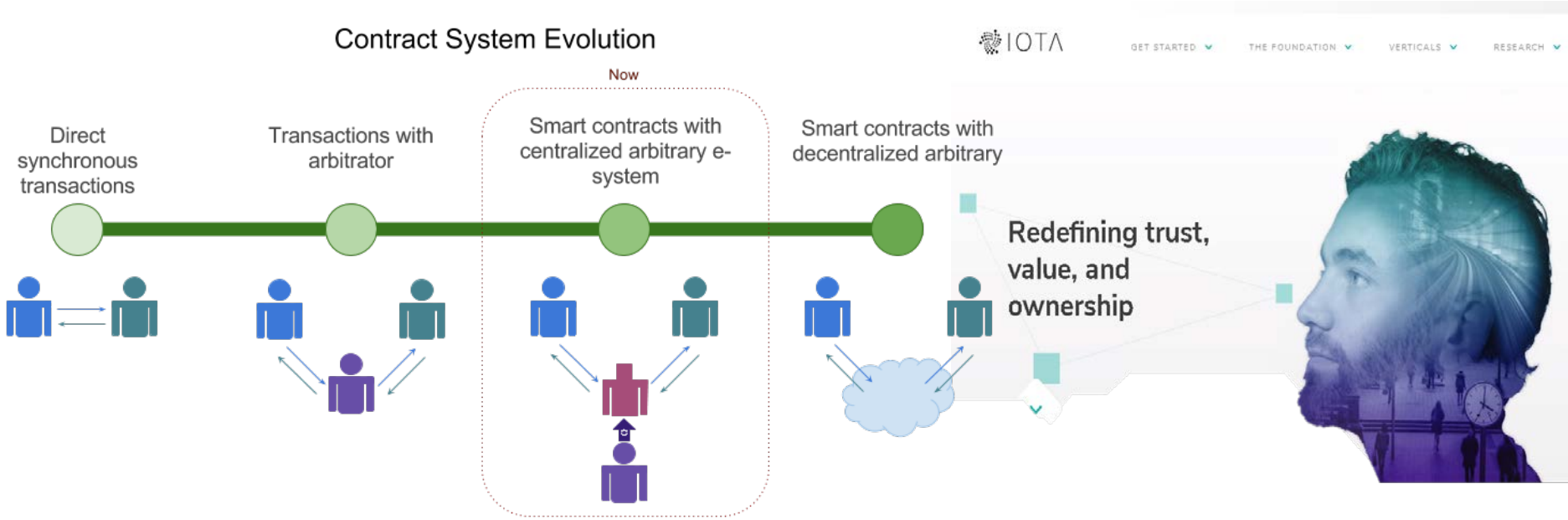




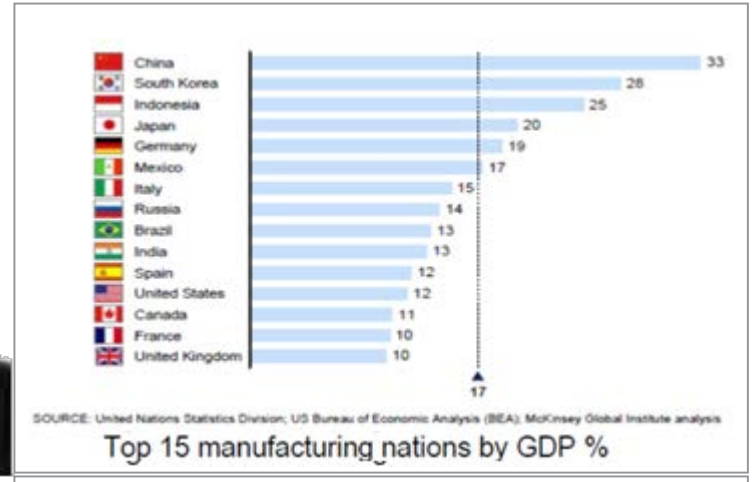
Cross Bar Architecture

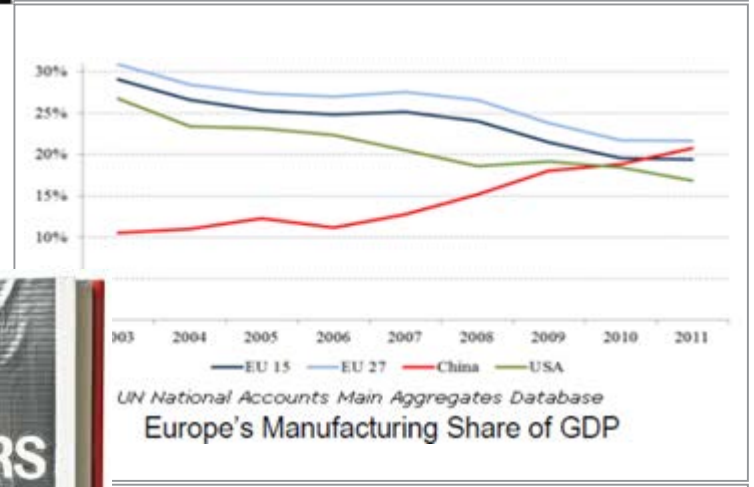


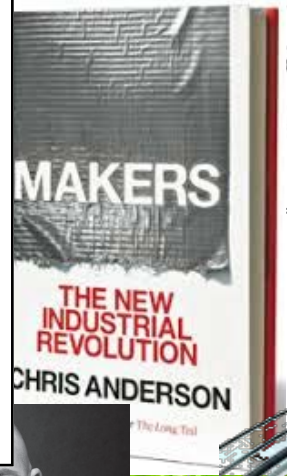
Blockchain: dalle Crypto Valute agli Smart Contract fra persone e cose



7 minuti per… …Bre, Roberto e i Makers



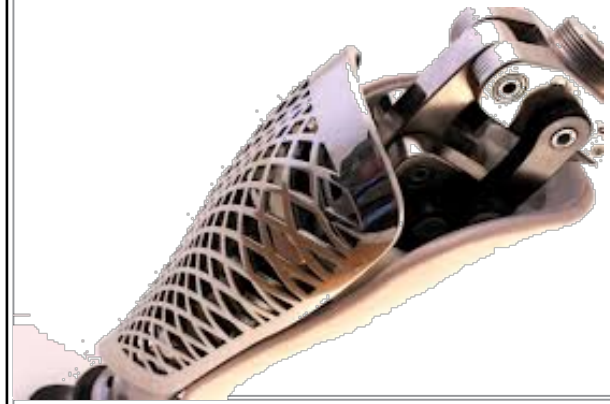




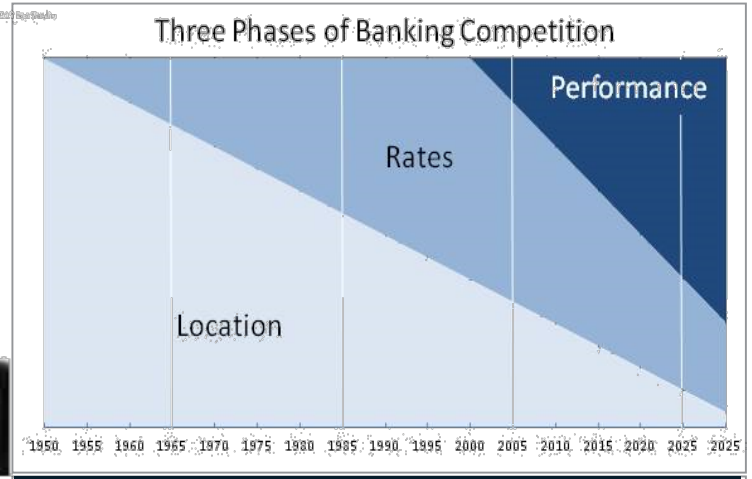
7 Minutes per Yann, Viktoria e i medici

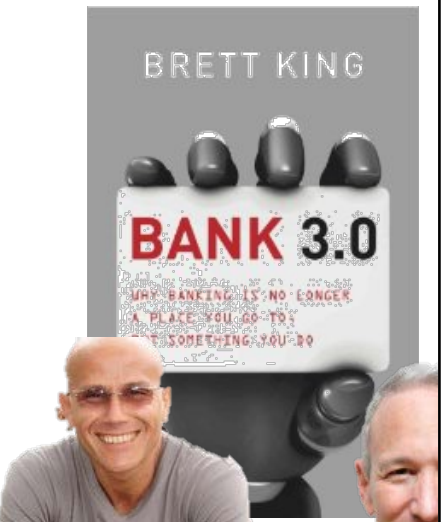
Global Health Market	
Heart bypass Surgery	
United States	$75,536
Singapore	$25,245
India	$11,995
Double Knee Replacement	
United States	$47,545
Singapore	$25,245
India	$11,995
Cosmetic Nose Job	
United States	$5,445
Singapore	$4,495
India	$3,145

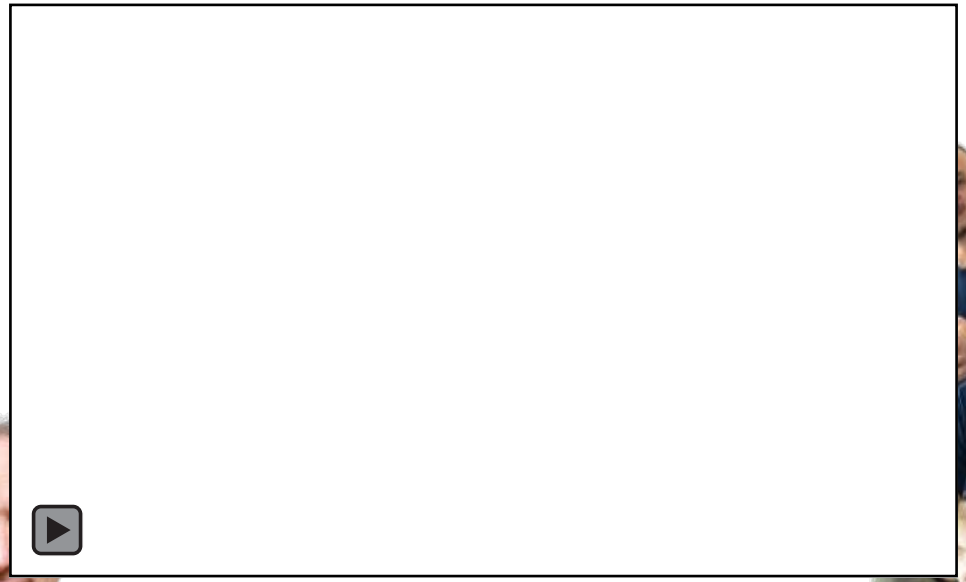
Source: GlobalChoice Healthcare



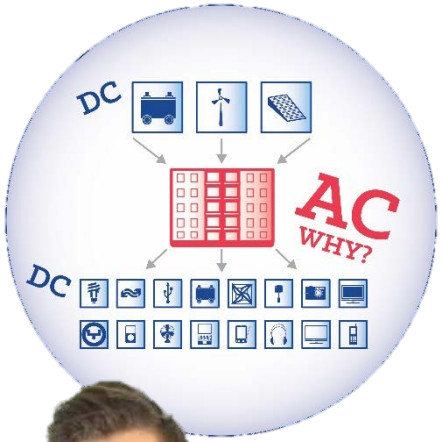
7 minutes for Alberto, Daniel, Giulio e i banchieri

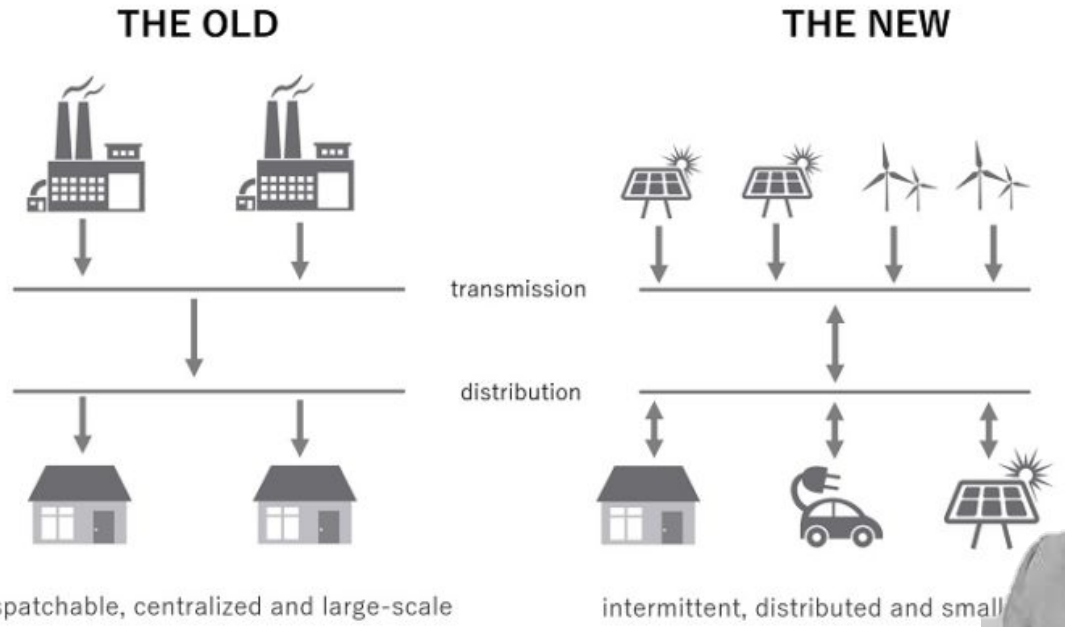




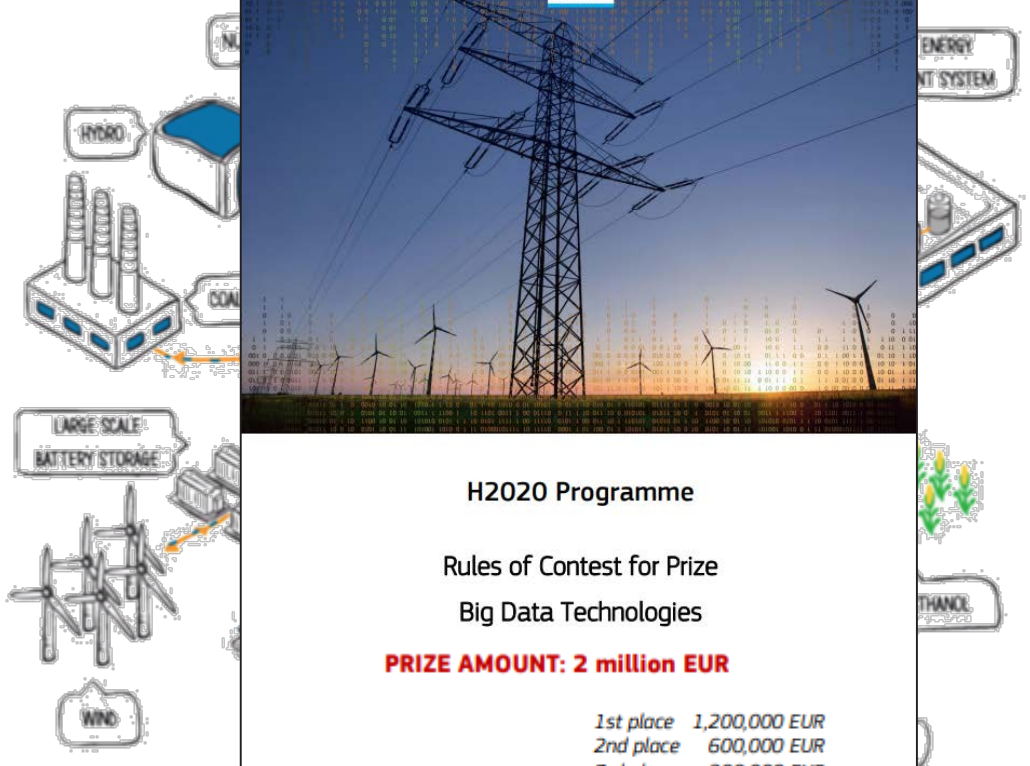


7 minuti per Ewald, Domink e i gestori energetici





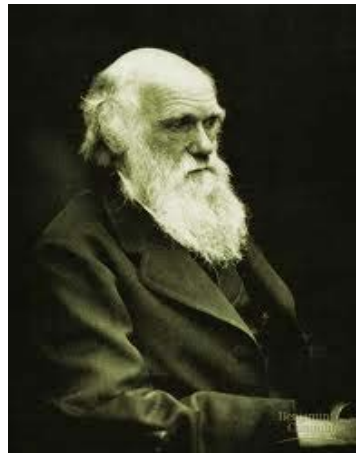
Microgrids e smart energy ecosystems

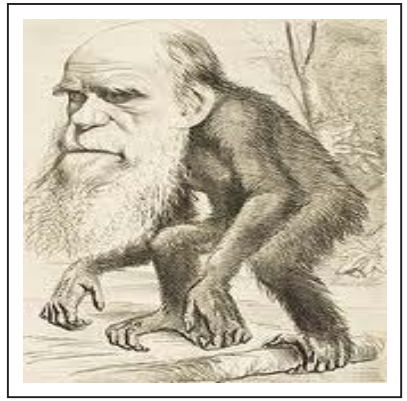


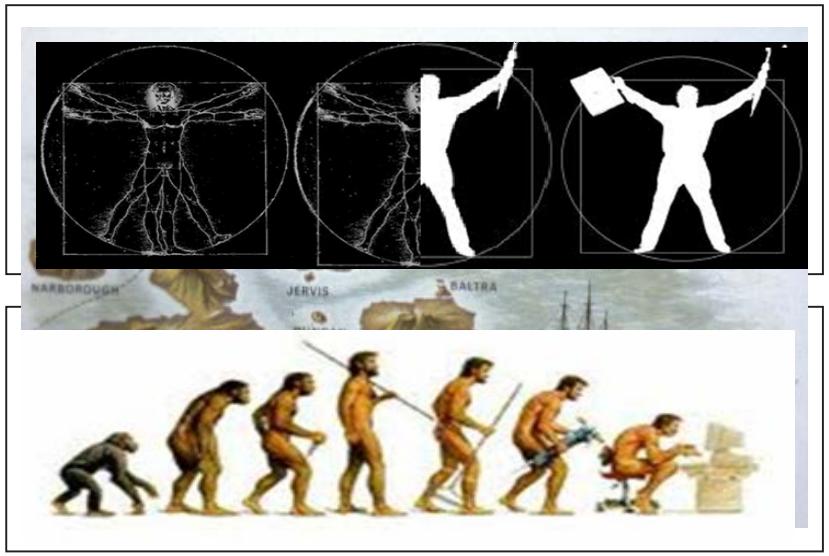
Che futuro per il lavoro Umano? adattabile

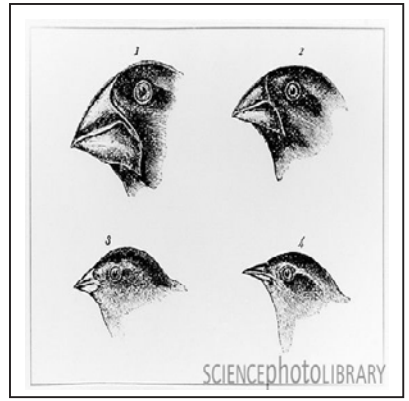
Non è la specie piu forte o più intelligente che sopravvive ,
Ma quella più predisposta ad adattarsi al cambiamento.

Secondo Viaggio della HMS Beagle
27 Dicembre 1831 – 2 Ottobre 1836



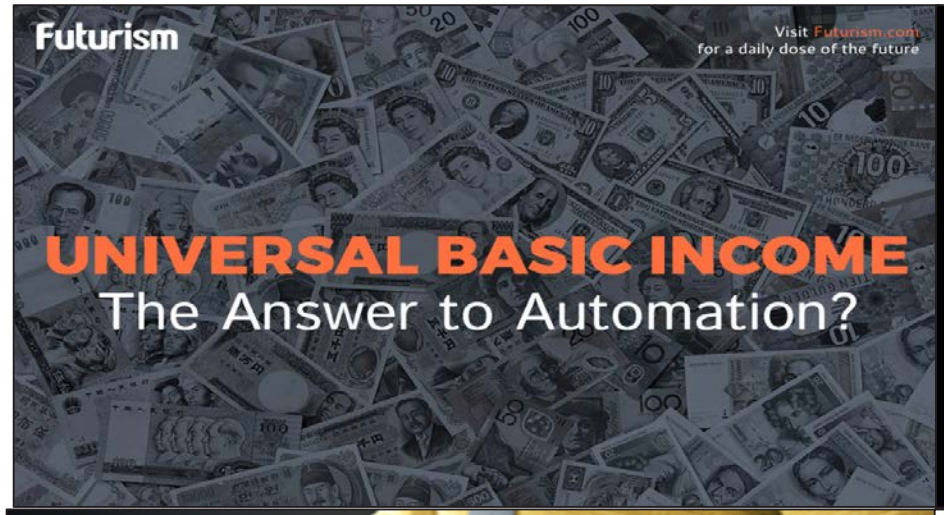


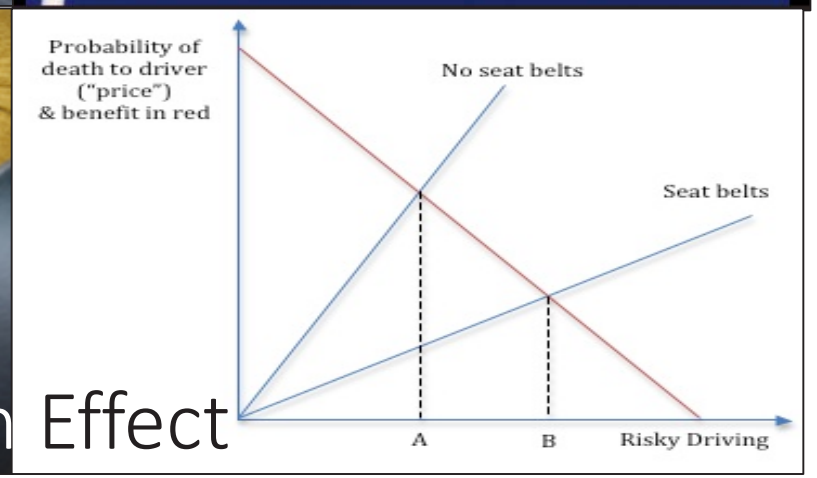




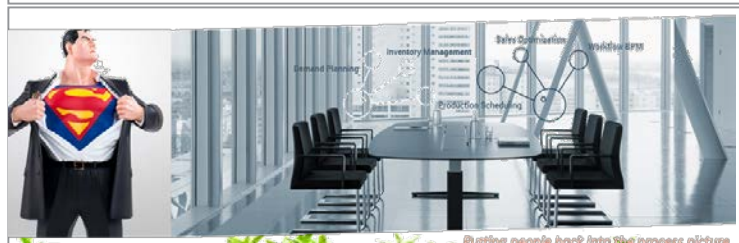
Non sarà il knowlegde worker più intelligente che sopravviverà. Ma quello più capace ad adattarsi alle macchine, coesistere con i Robot e sfruttare il loro aiuto al meglio

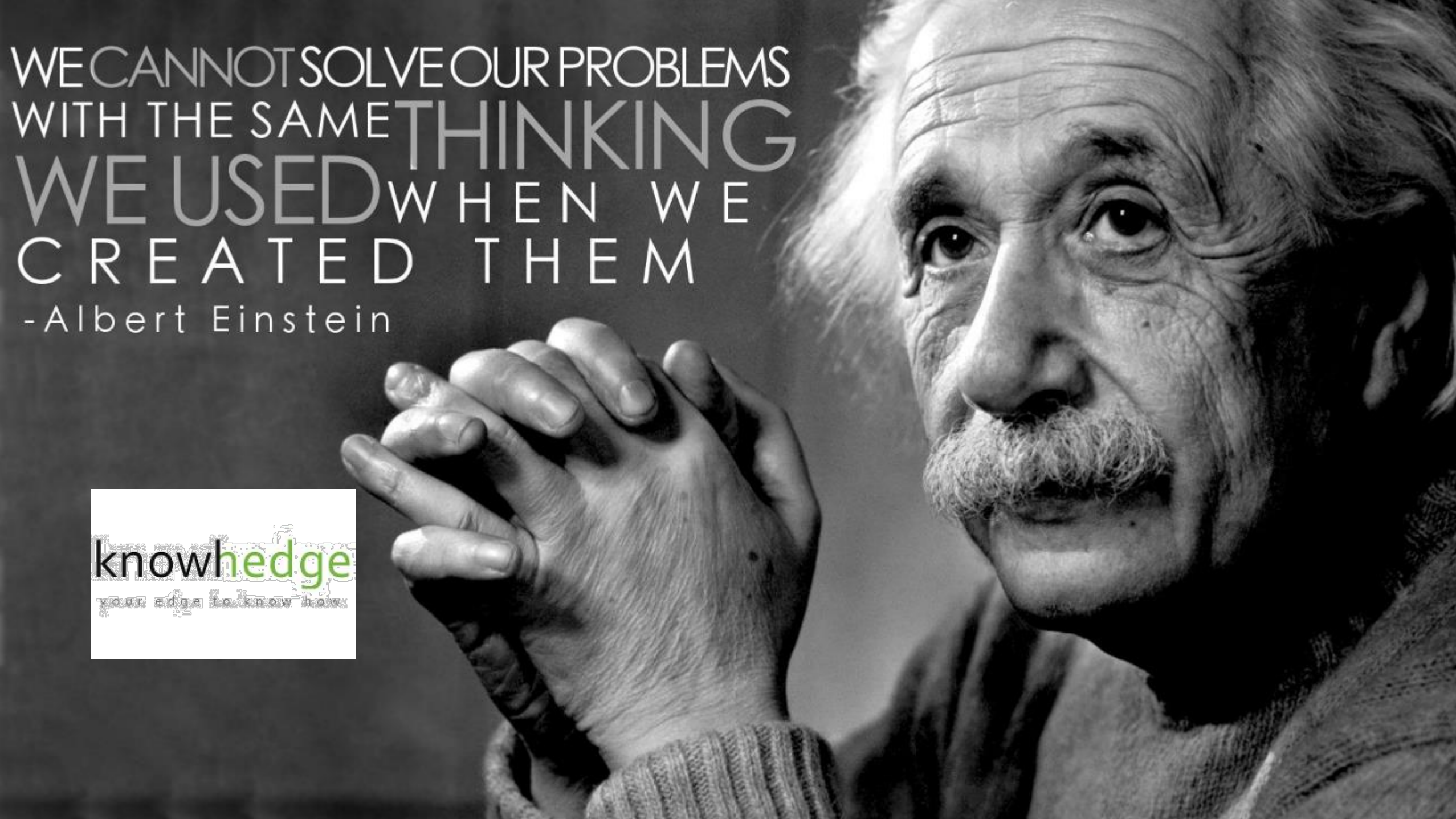
Che futuro per il lavoro umano? Specializzato





Peltzman Effect




WE CANNOT SOLVE OUR PROBLEMS
WITH THE SAME THINKING
WE USED WHEN WE
CREATED THEM
-Albert Einstein
knowhedge
your edge to know how