THEFABLAB

MAKE IT REAL

Giulia de Martini - 16 Maggio 2019

Giulia de Martini

Head of Research

Laurea in Fisica e Master in Comunicazione della Scienza. Durante la sua esperienza al Museo Nazionale della Scienza e della Tecnologia di Milano ha approfondito studi di ricerca sui visitatori e sviluppato progetti educativi per diversi tipi di pubblico. Dopo un'esperienza decennale nel mondo della ricerca clinica, ha fondato SPARK Art&Science, per studiare le relazioni tra tecnologia, scienza, arte e società. Oggi lavora al TheFabLab dove gestisce le attività di ricerca e sviluppo, conciliando management, creatività e curiosità.

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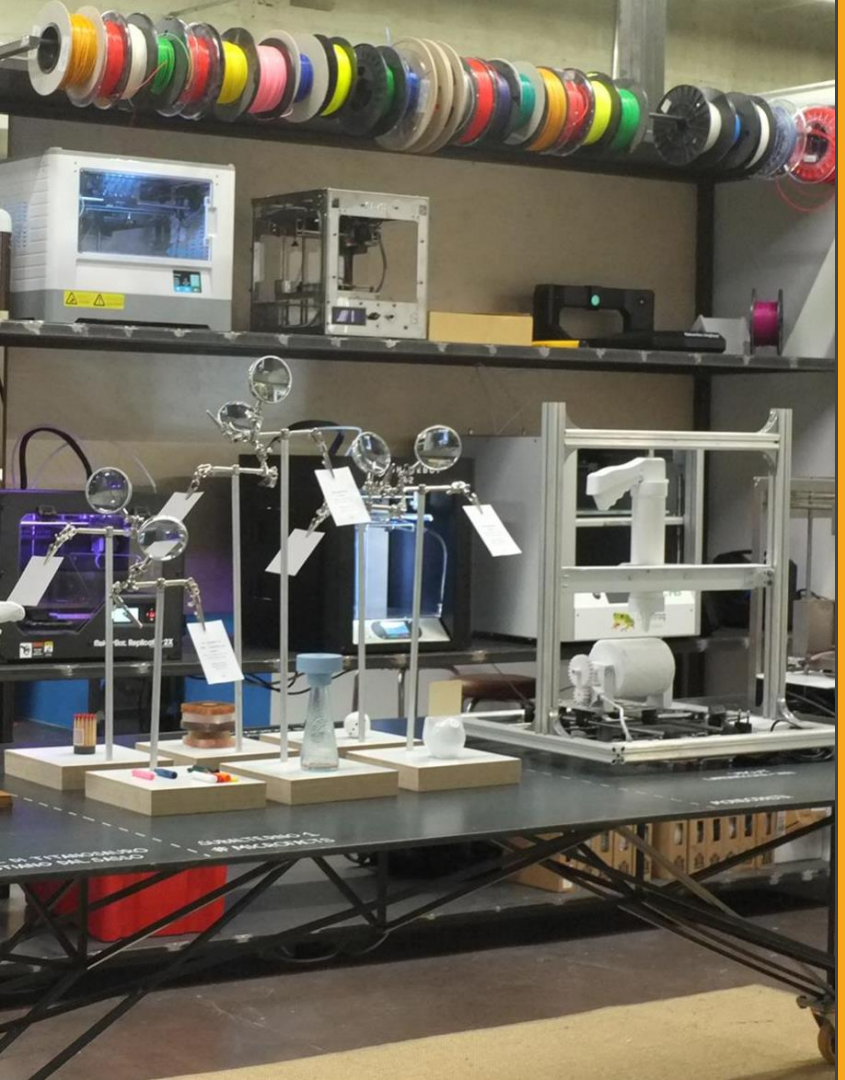

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“La nostra missione
è offrire a professionisti,
creativi e aziende gli
strumenti e le competenze
essenziali per supportarli nel
loro percorso
di trasformazione
verso l’Industry 4.0”.

LA NOSTRA STORIA

2014
TheFabLab si costituisce con sede a Milano presso SIAM.

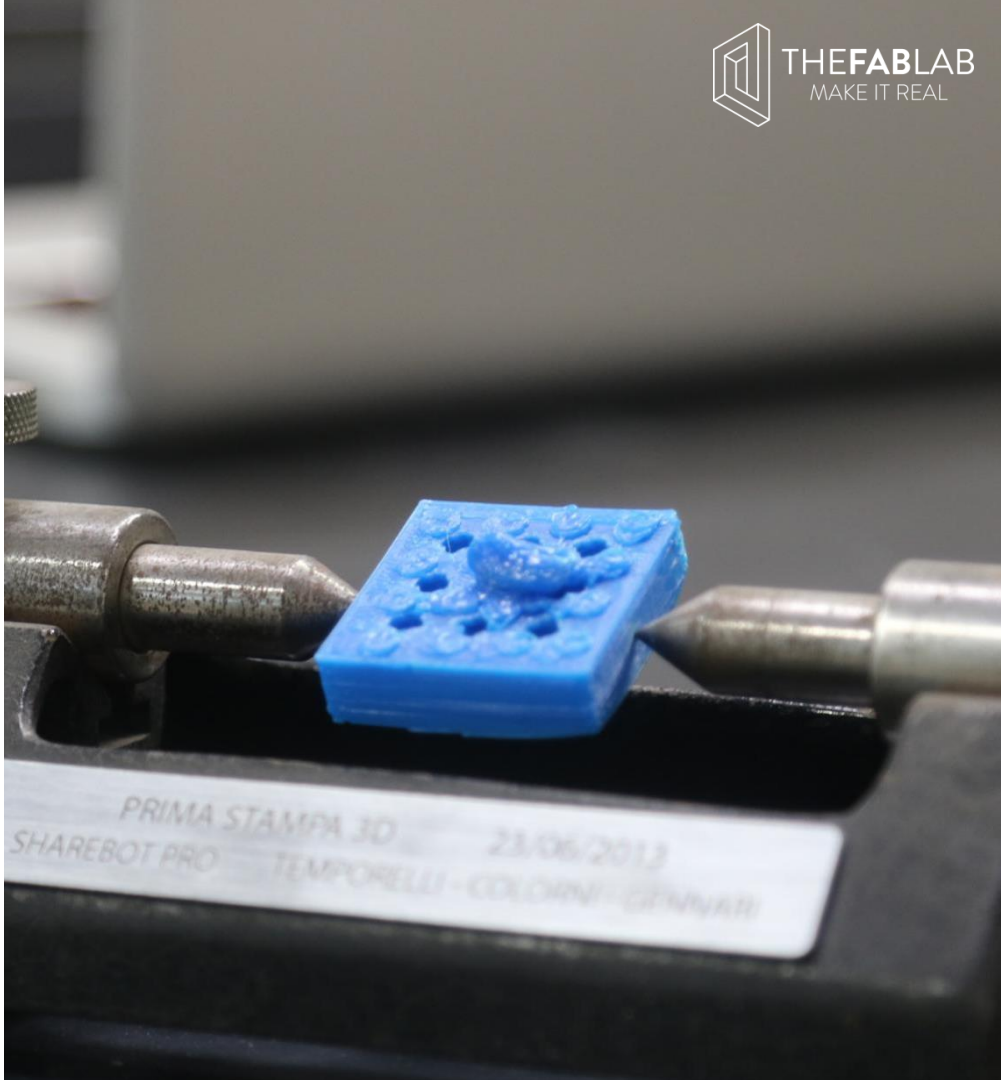
2015
TheFabLab diventa start-up innovativa.

2016
Inaugura il nuovo laboratorio di Milano presso il main campus di Talent Garden

2017
TheFabLab contribuisce allo sviluppo di un nuovo fab lab presso “Milano Luiss Hub for Makers and Students”

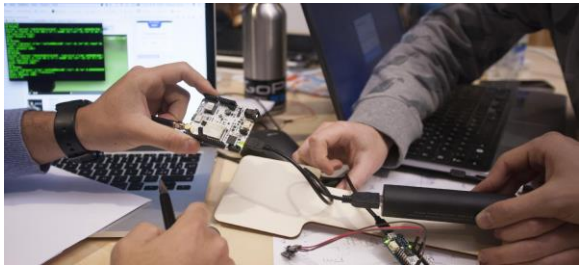
2018
Inaugurano le nuove sedi di Torino presso Talent Garden Fondazione Agnelli e Bologna presso Net Service Digital Hub

Il piano di crescita di TheFabLab prevede l’apertura di nuovi laboratori in Italia e in Europa



Open Tools

I laboratori di TheFabLab sono accessibili a chiunque desideri sperimentare e innovare i propri prodotti utilizzando tutte le tecnologie della digital fabrication.



Design & Consulting

TheFabLab supporta le idee del cliente dalla definizione del brief al prototipo, fino alla realizzazione del primo lotto di produzione.

Research & Education

TheFabLab studia i processi e gli effetti della trasformazione digitale in diversi settori del sistema economico e propone percorsi formativi attraverso il TFL Learning Centre.

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INDUSTRY 4.0

Less engineering, more biology

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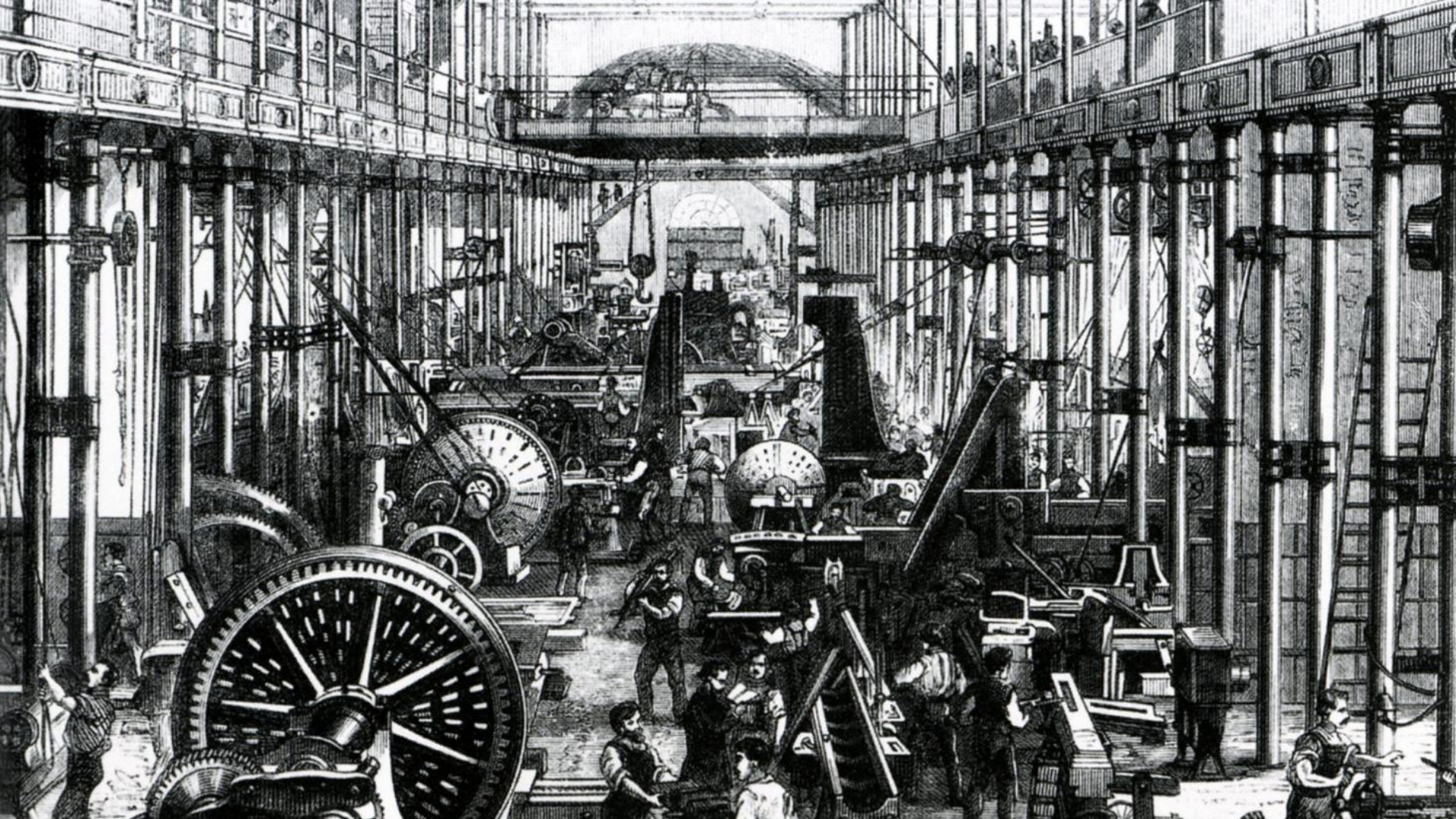
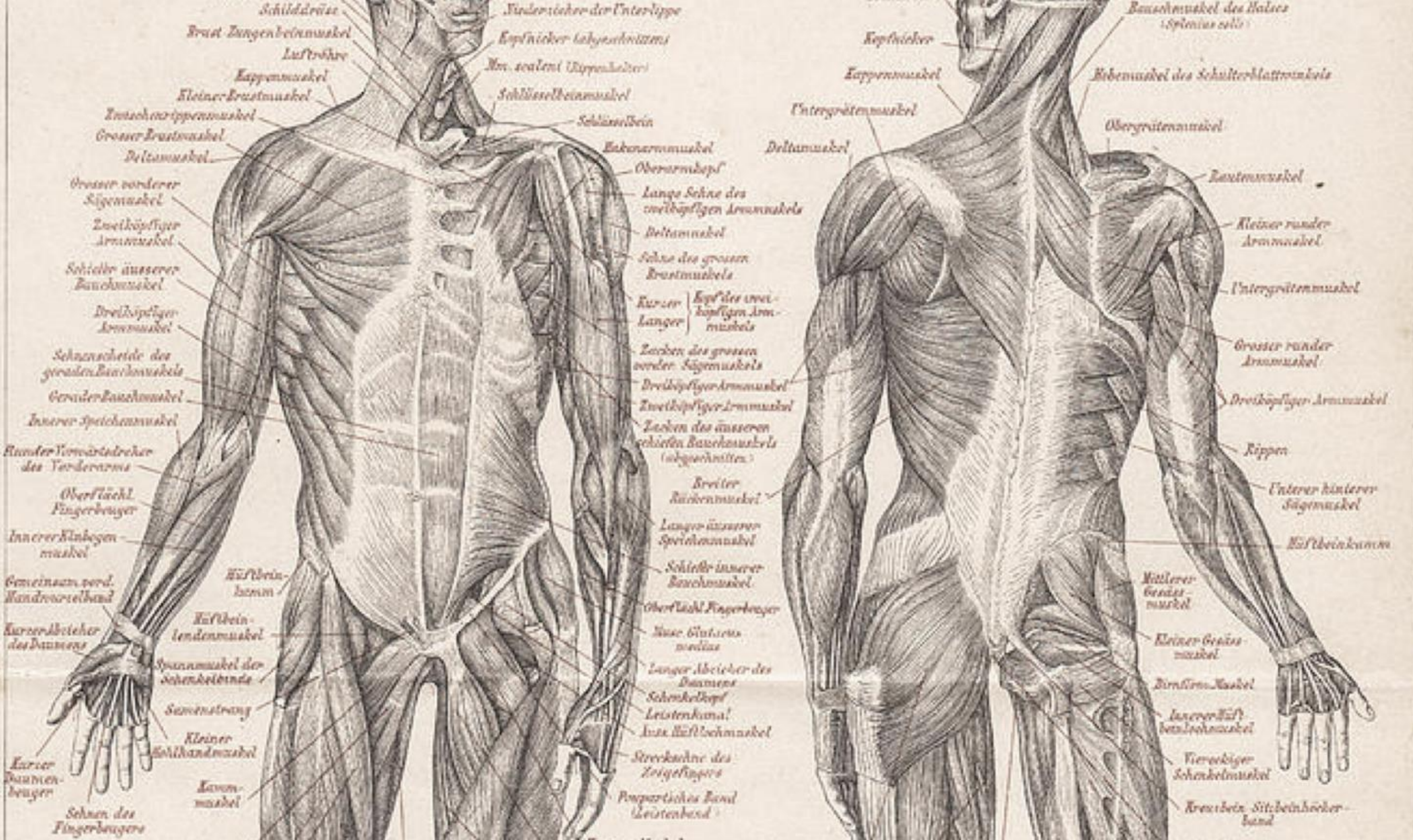
Prima rivoluzione industriale




Schilddrüse
Brust-Zungenbeinmuskel
Luftröhre
Kappenmuskel
Kleiner Brustmuskel
Zwischenrippenmuskel
Grosser Brustmuskel
Deltamuskel
Grosser vorderer Sägemuskel
Zweiköpfiger Armmuskel
Schiefer äusserer Bauchmuskel
Dreiköpfiger Armmuskel
Sehnenscheide des geraden Bauchmuskels
Gerader Bauchmuskel
Innerer Speichenmuskel
Runder Vorwärtsdreher des Vorderarms
Oberflächl. Fingerbeuger
Innerer Ellbogenmuskel
Gemeinsam. vord. Handwurzelband
Kurzer Abzieher des Daumens
Kurzer Daumenbeuger
Sehnen des Fingerbeugers
Hüftbeinkamm
Hüftbeinlendenmuskel
Spannmuskel der Schenkelbinde
Samenstrang
Kleiner Hohlhandmuskel
Kammmuskel
Niederzieher der Unterlippe
Kopfnicker (abgeschnitten)
Mm. scaleni (Rippenhalter)
Schlüsselbeinmuskel
Schlüsselbein
Hakenarmmuskel
Oberarmkopf
Lange Sehne des zweiköpfigen Armmuskels
Deltamuskel
Sehne des grossen Brustmuskels
Kurzer
Langer
Kopf des zweiköpfigen Armmuskels
Zacken des grossen vorder. Sägemuskels
Dreiköpfiger Armmuskel
Zweiköpfiger Armmuskel
Zacken des äusseren schiefen Bauchmuskels (abgeschnitten)
Breiter Rückenmuskel
Langer äusserer Speichenmuskel
Schiefer innerer Bauchmuskel
Oberflächl. Fingerbeuger
Musc. Glutaeus medius
Langer Abzieher des Daumens
Schenkelkopf
Leistenkanal
Äuss. Hüftlochmuskel
Strecksehne des Zeigefingers
Poupartsches Band (Leistenband)
Bauschmuskel des Halses (Splenius colli)
Kopfnicker
Kappenmuskel
Hebemuskel des Schulterblattwinkels
Untergrätenmuskel
Obergrätenmuskel
Deltamuskel
Rautenmuskel
Kleiner runder Armmuskel
Untergrätenmuskel
Grosser runder Armmuskel
Dreiköpfiger Armmuskel
Rippen
Unterer hinterer Sägemuskel
Hüftbeinkamm
Mittlerer Gesässmuskel
Kleiner Gesässmuskel
Birnförm. Muskel
Innerer Hüftbeinlochmuskel
Viereckiger Schenkelmuskel
Kreuzbein-Sitzbeinhöcker-band

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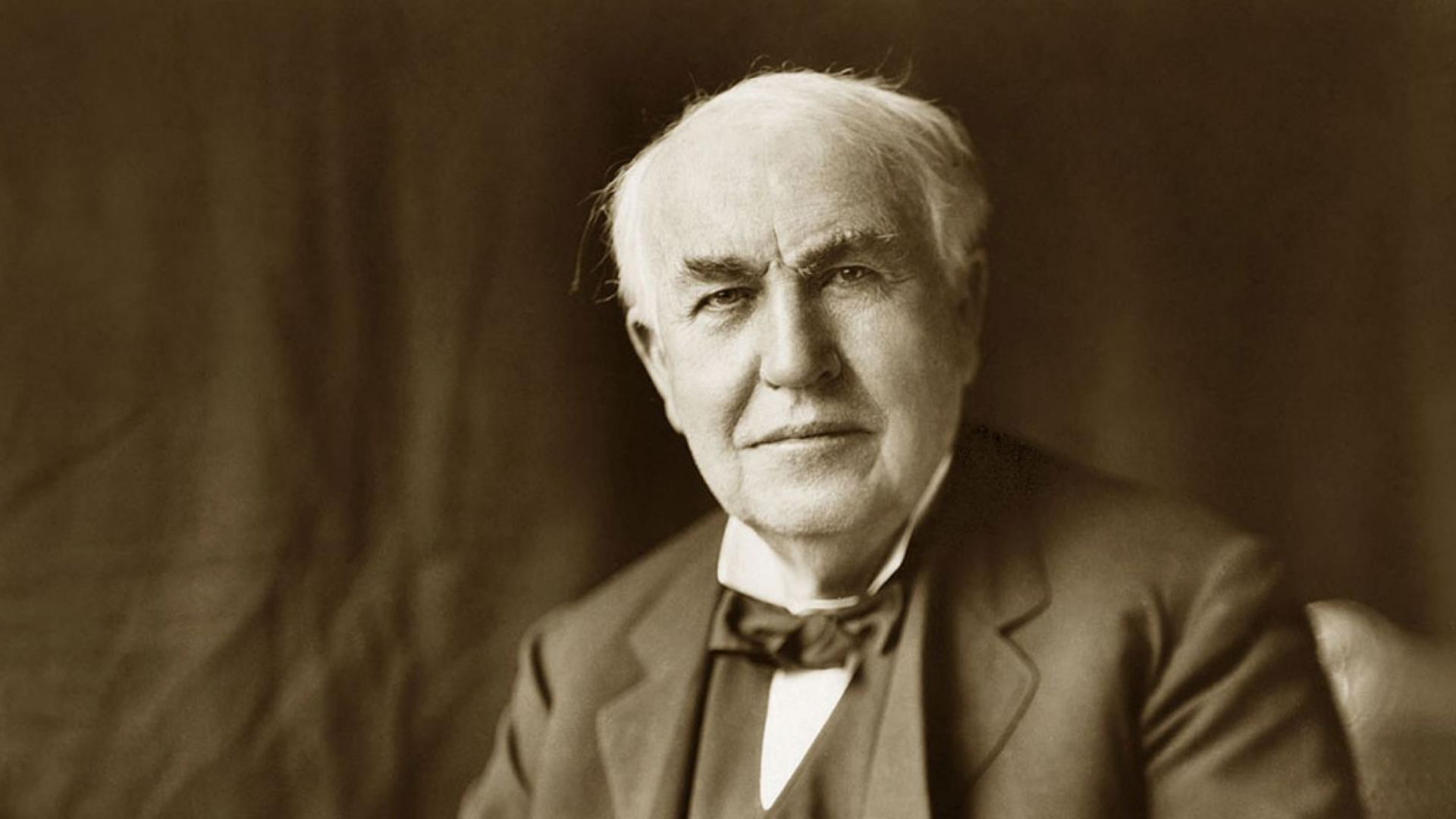
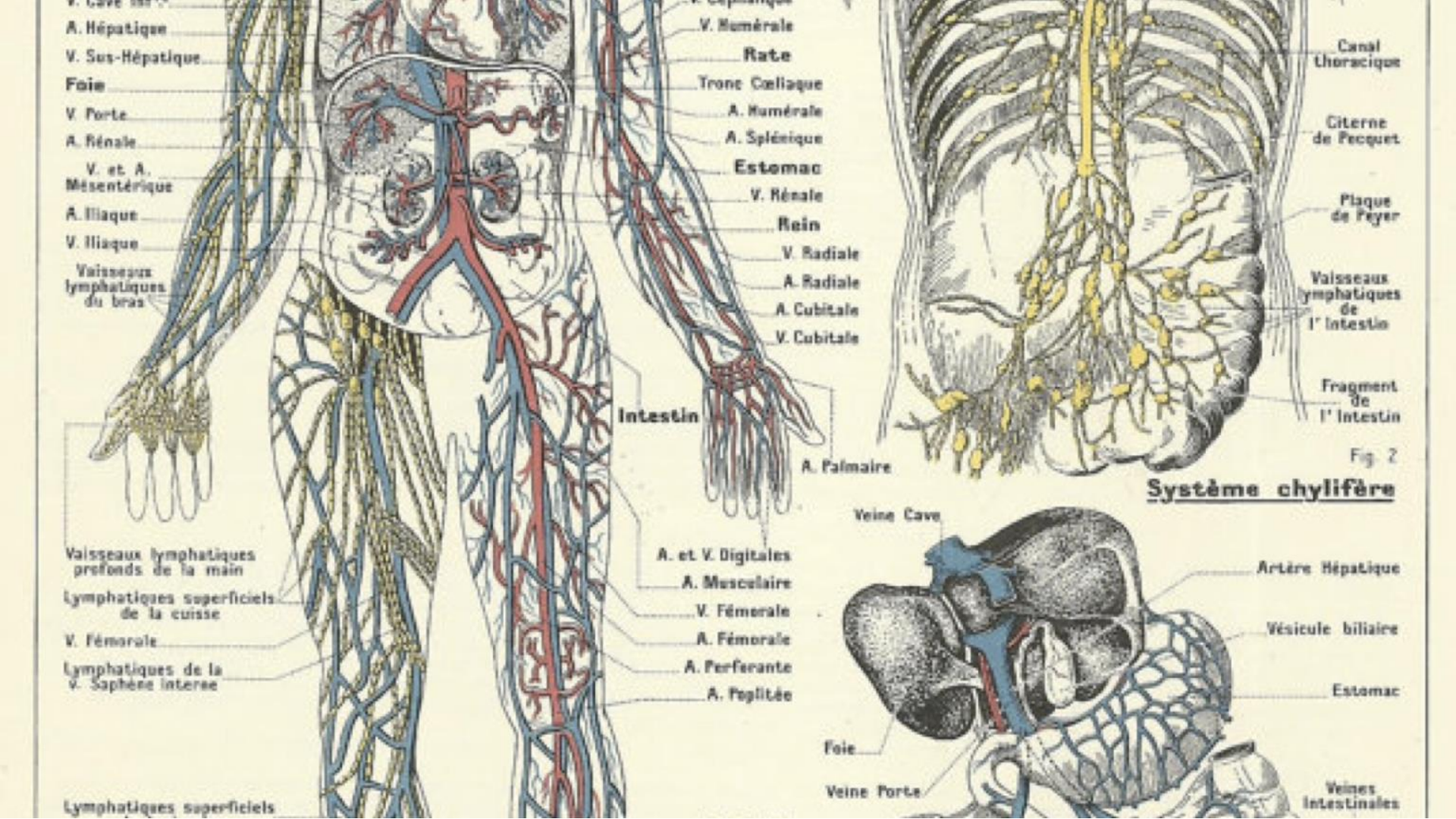
Seconda rivoluzione industriale




A. Hépatique
V. Sus-Hépatique
Foie
V. Porte
A. Rénale
V. et A. Mésentérique
A. Iliaque
V. Iliaque
Vaisseaux lymphatiques du bras
V. Humérale
Rate
Tronc Cœliaque
A. Humérale
A. Splénique
Estomac
V. Rénale
Rein
V. Radiale
A. Radiale
A. Cubitale
V. Cubitale
Intestin
A. Palmaire
Vaisseaux lymphatiques profonds de la main
Lymphatiques superficiels de la cuisse
V. Fémorale
Lymphatiques de la V. Saphène interne
A. et V. Digitales
A. Musculaire
V. Fémorale
A. Fémorale
A. Perforante
A. Poplitée
Lymphatiques superficiels
Canal thoracique
Citerne de Pecquet
Plaque de Peyer
Vaisseaux lymphatiques de l' Intestin
Fragment de l' Intestin
Fig. 2
Système chylifère
Veine Cave
Artère Hépatique
Vésicule biliaire
Estomac
Foie
Veine Porte
Veines Intestinales

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Sistema muscolo-scheletrico

Sistema cardio-circolatorio

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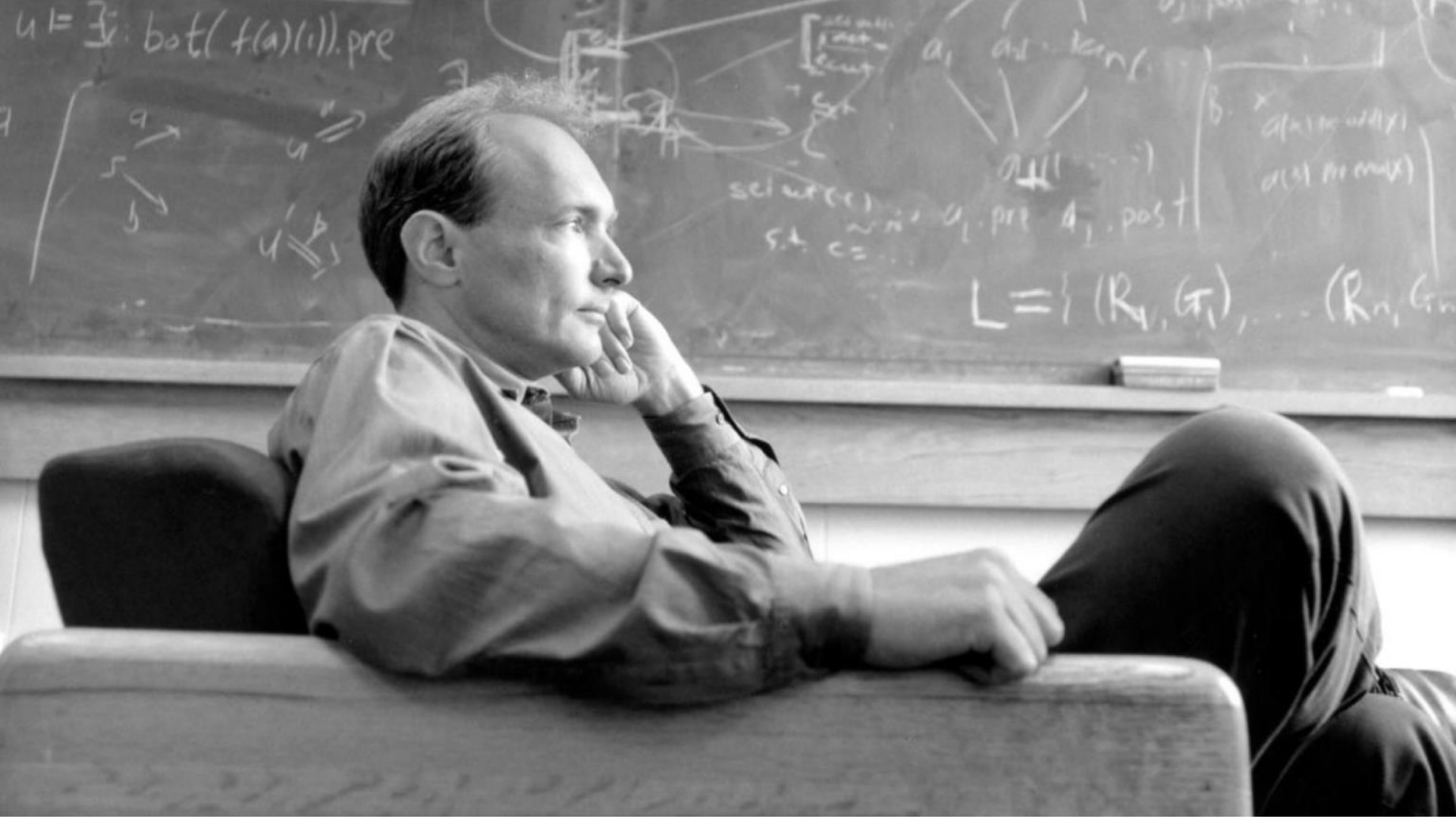
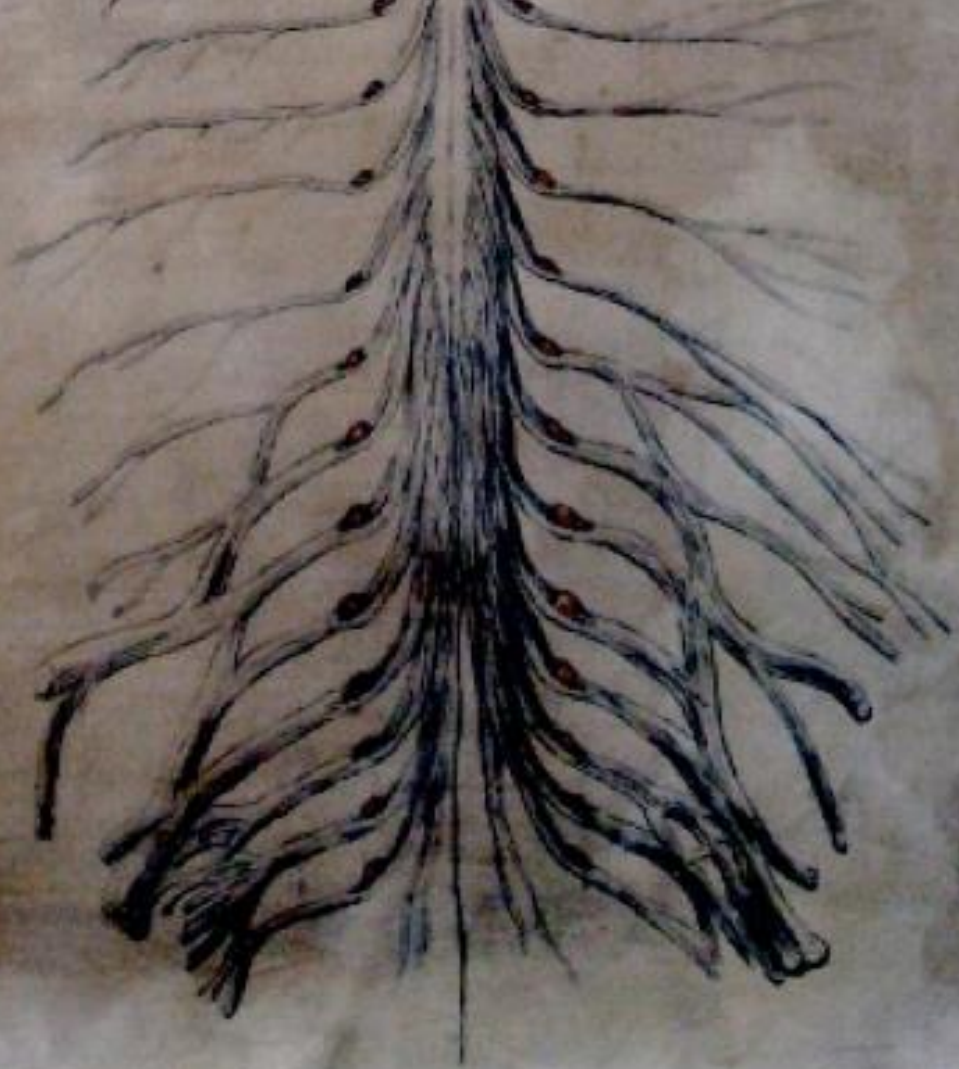
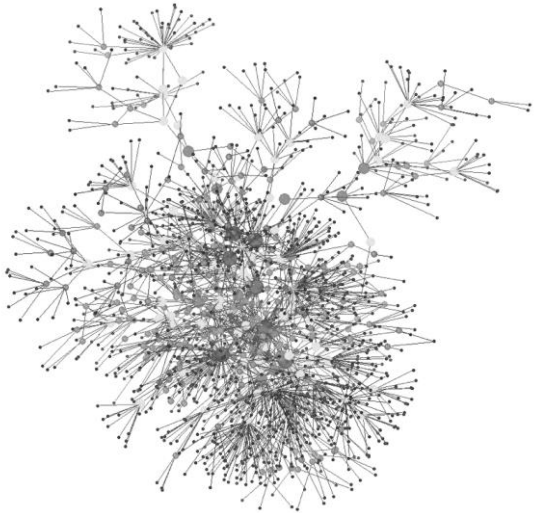
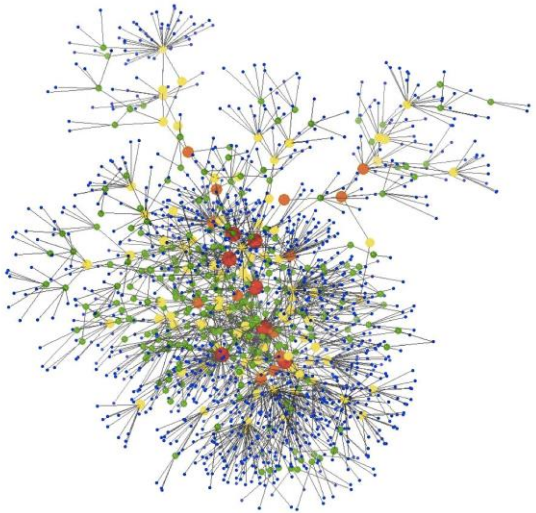
Terza rivoluzione industriale





C. Bell. del.





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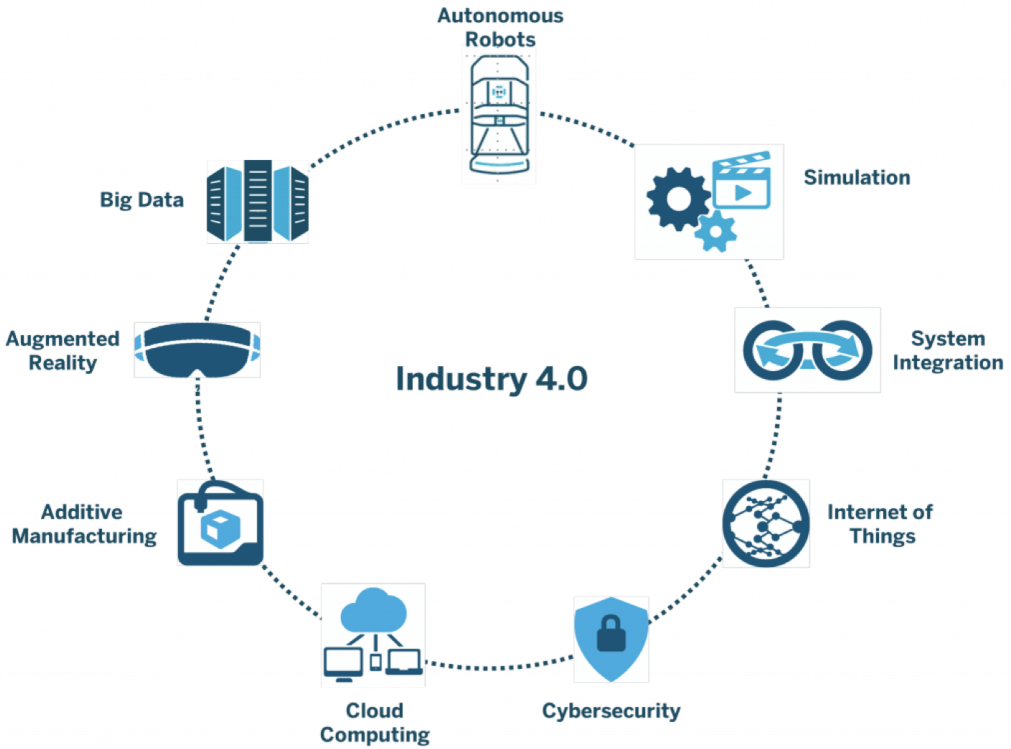
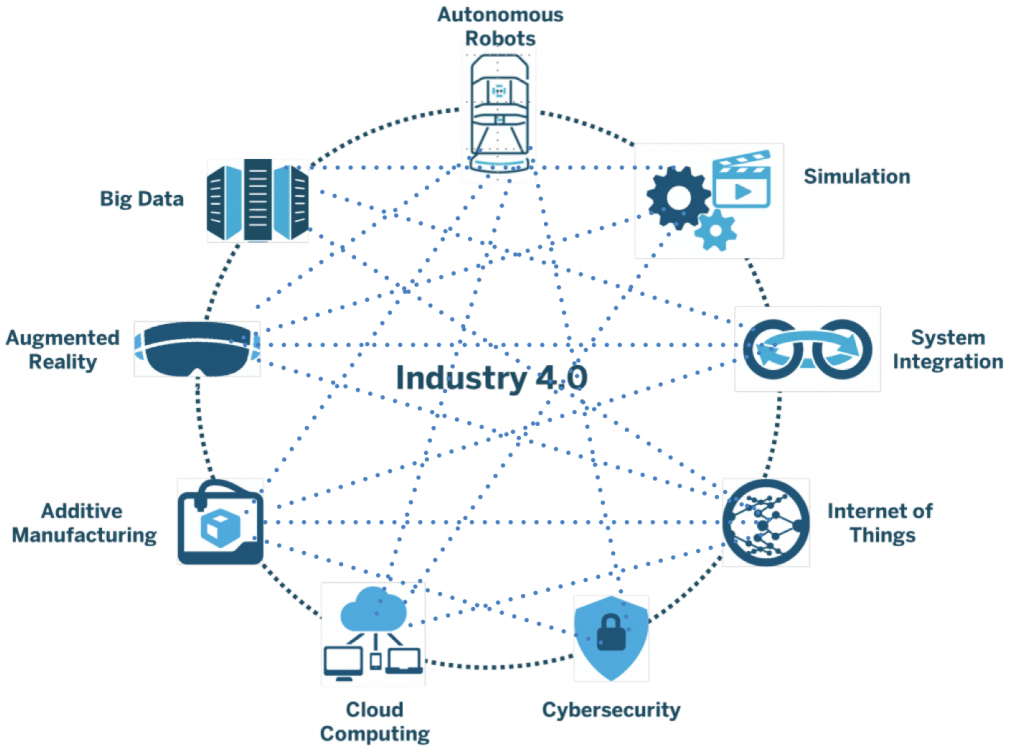
Quarta rivoluzione industriale


Ecosistema



Internet of Things
Additive Manufacturing
Big Data
Autonomous Robots
Simulation
...



Internet of Things
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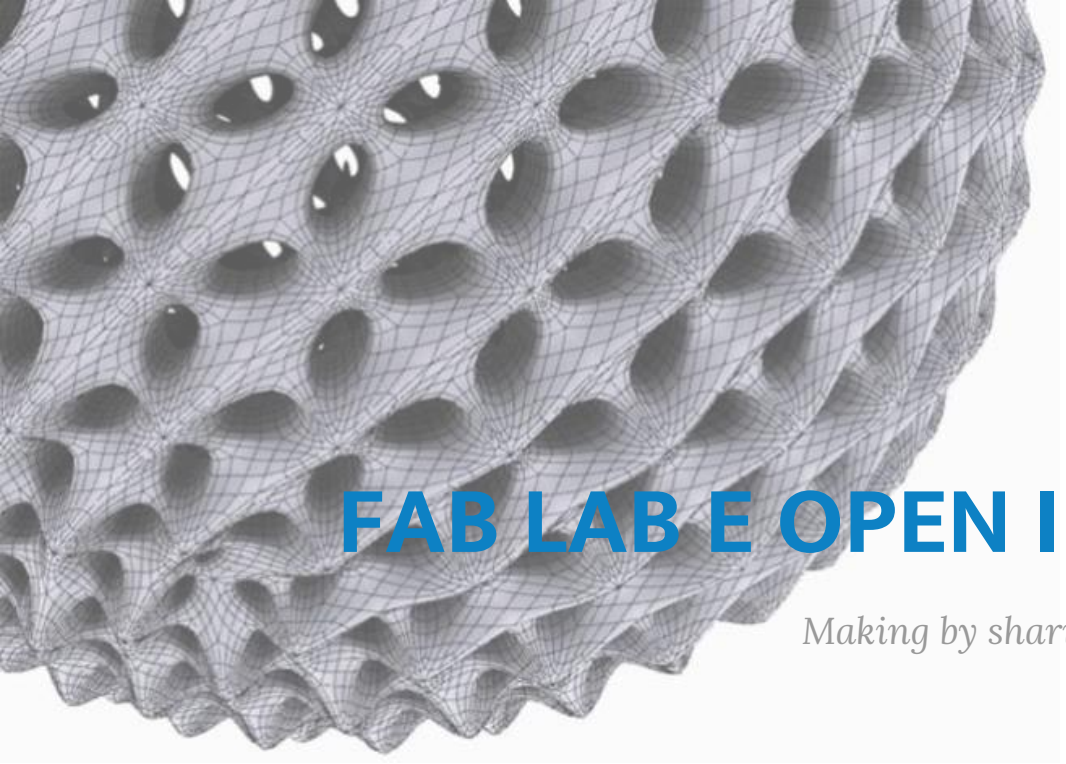

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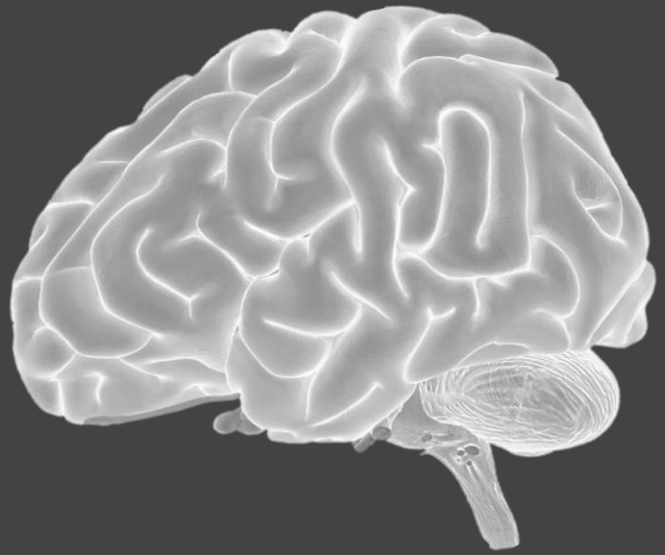
FAB LAB E OPEN INNOVATION

Making by sharing



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“Cogito, ergo sum”

René Descartes, Discours de la méthode, 1637

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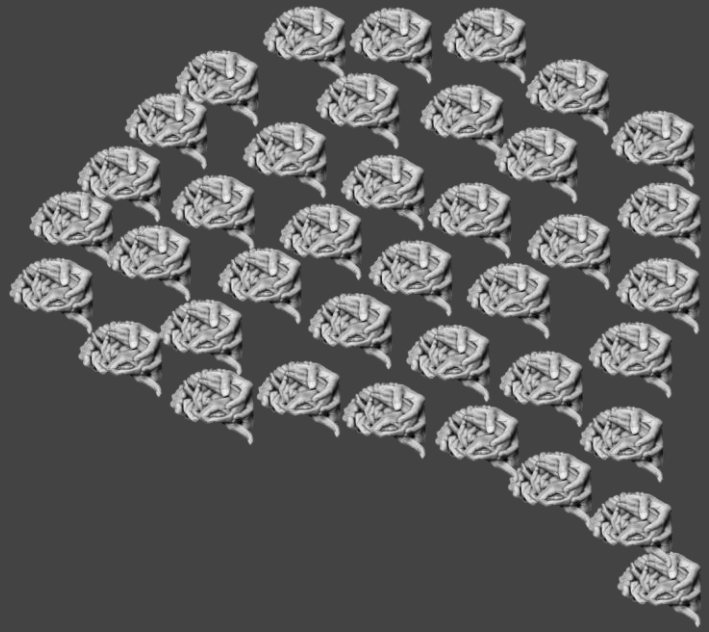
Facio, ergo sum



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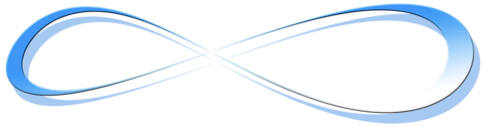
Facimus, ergo sumus

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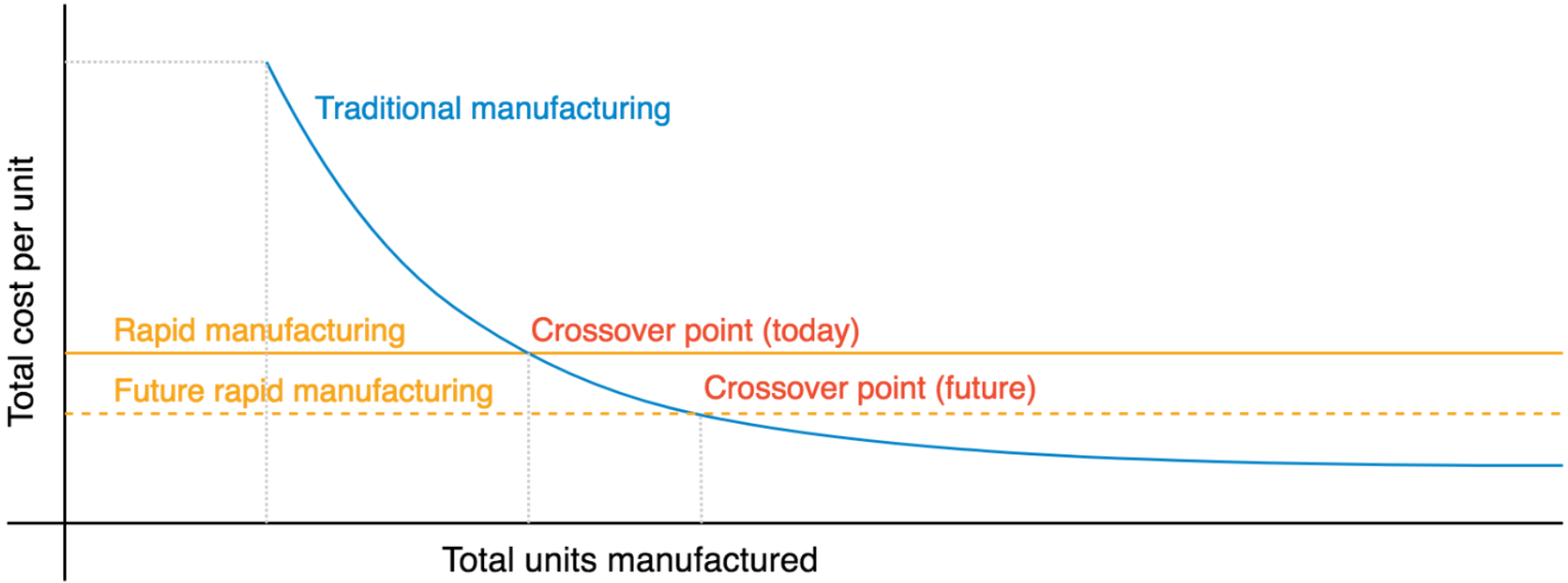
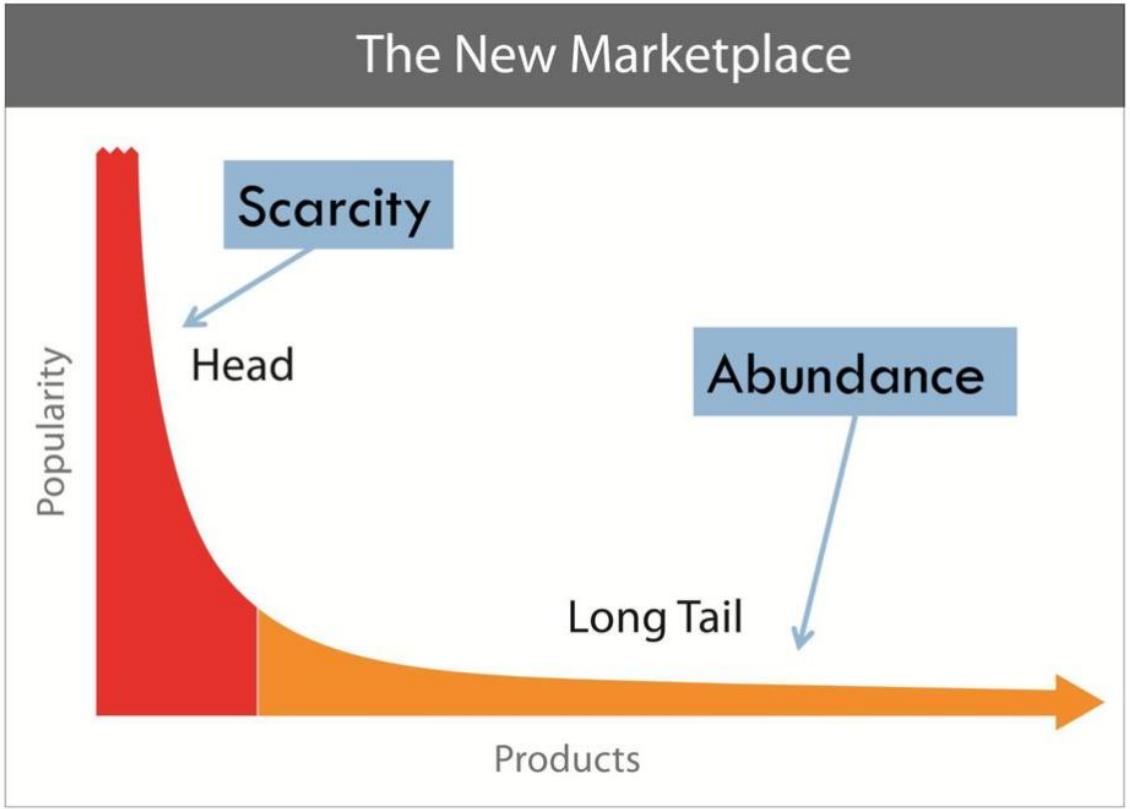
WELCOME TO
THE FUTURE.
FROM BITS TO ATOMS.
ENGINE ROOM
UMARELLIFICIO

What is this stuff good for?
Not to make what you can buy in stores,
but to make what you can't buy in stores.
It's to personalise fabrication.

Neil Gershenfeld





Anderson, C. (2004) *The Long Tail*, Wired

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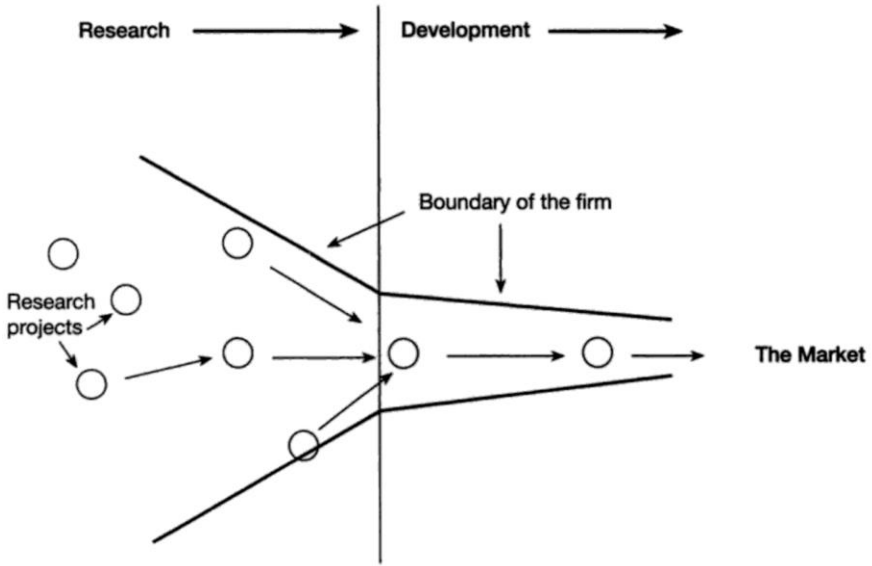
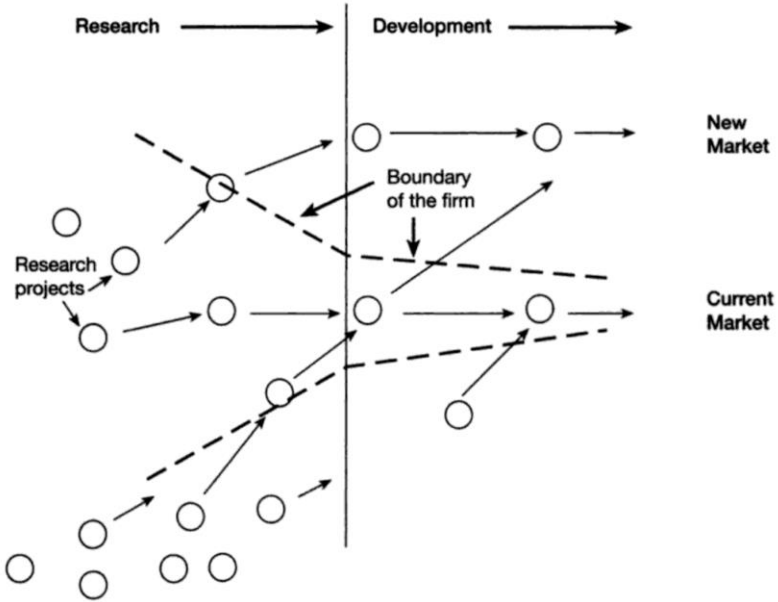
The Closed Paradigm for Managing Industrial R&D



The Open Innovation Paradigm for Managing Industrial R&D



Chesbrough, H. (2003) *Open Innovation*, Harvard Business School Press