



SINGULARITY
UNIVERSITY

Bezoek aan Exponential Medicine

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Reis naar de toekomst

Oktober 2016
San Diego en San Francisco



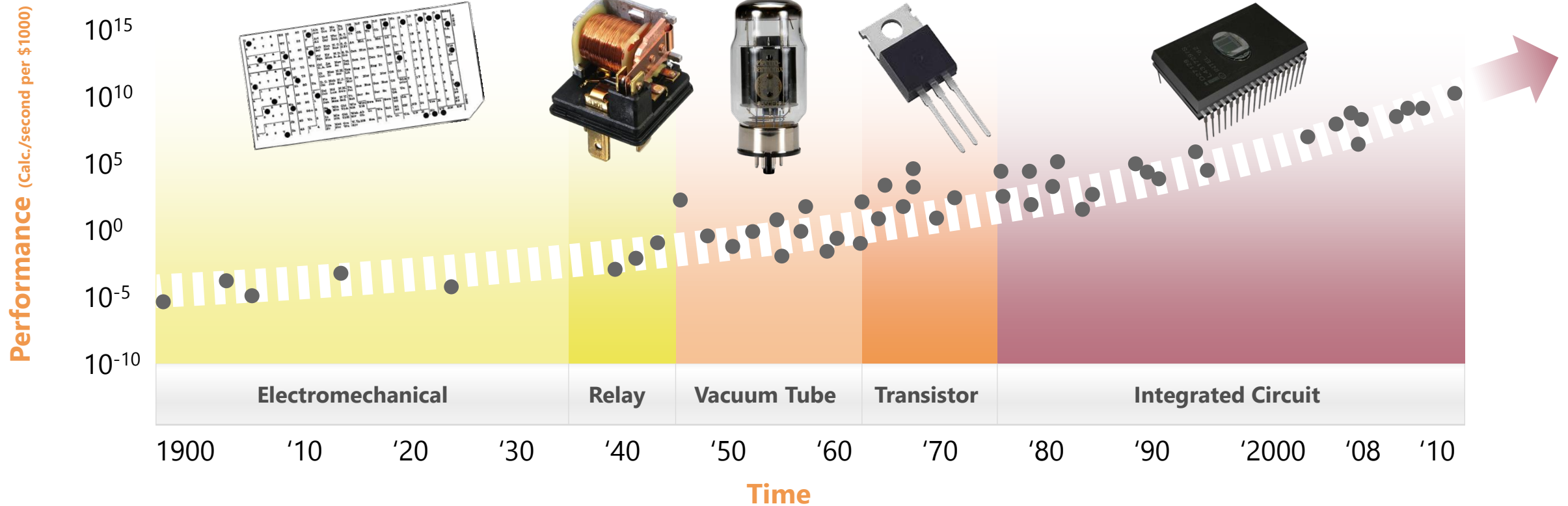


Computing is Accelerating Technology

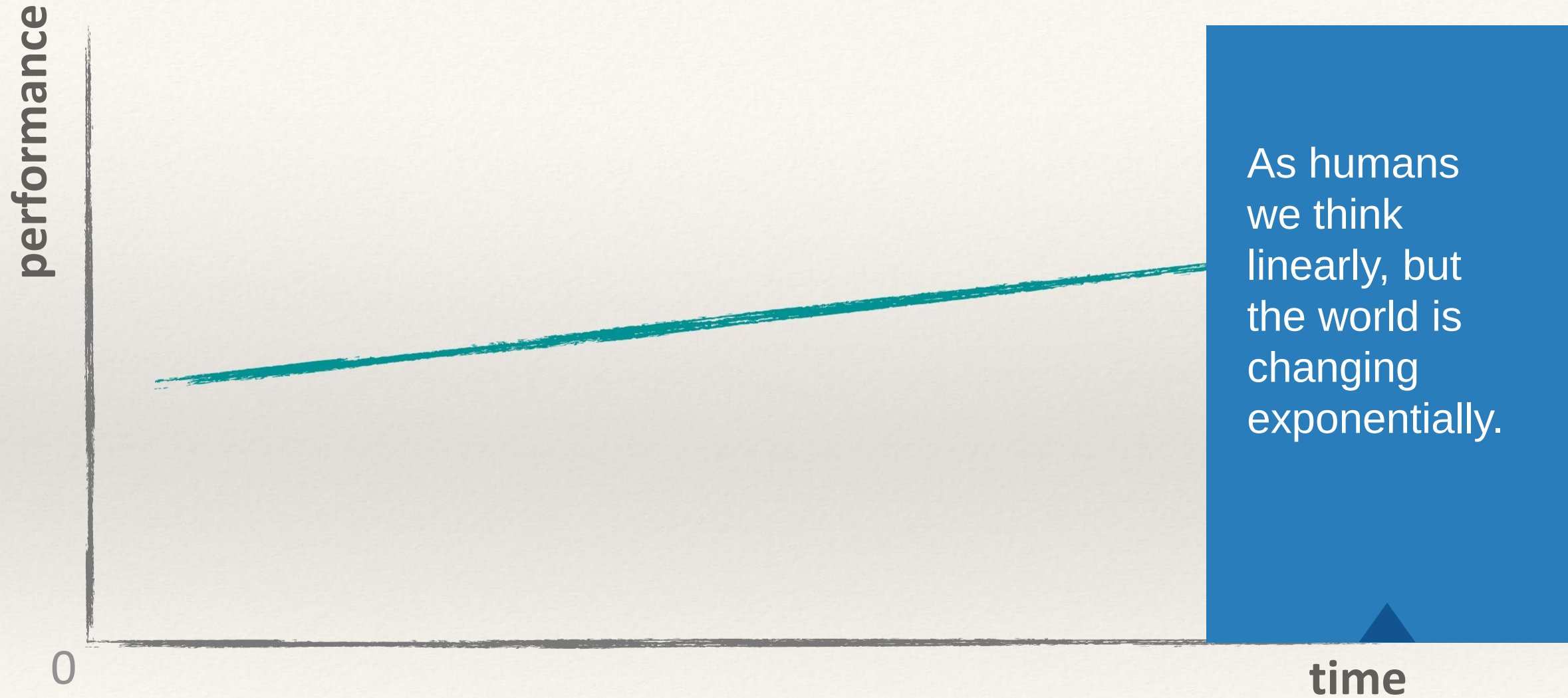


SPEED, EFFICIENCY, COST-EFFECTIVENESS, POWER

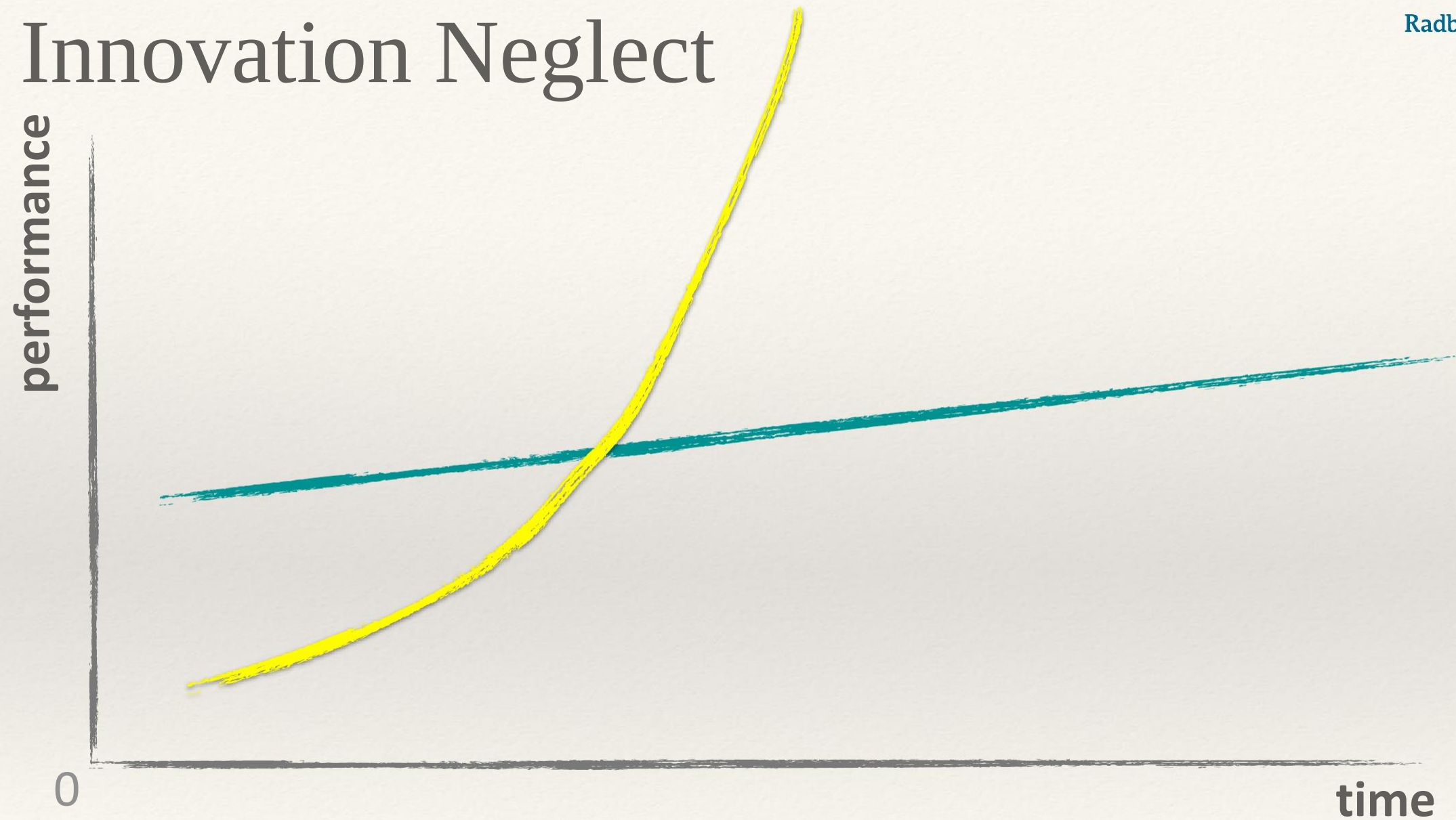
Moore's Law: Price performance doubles every 18 months. Applies to all information technology.



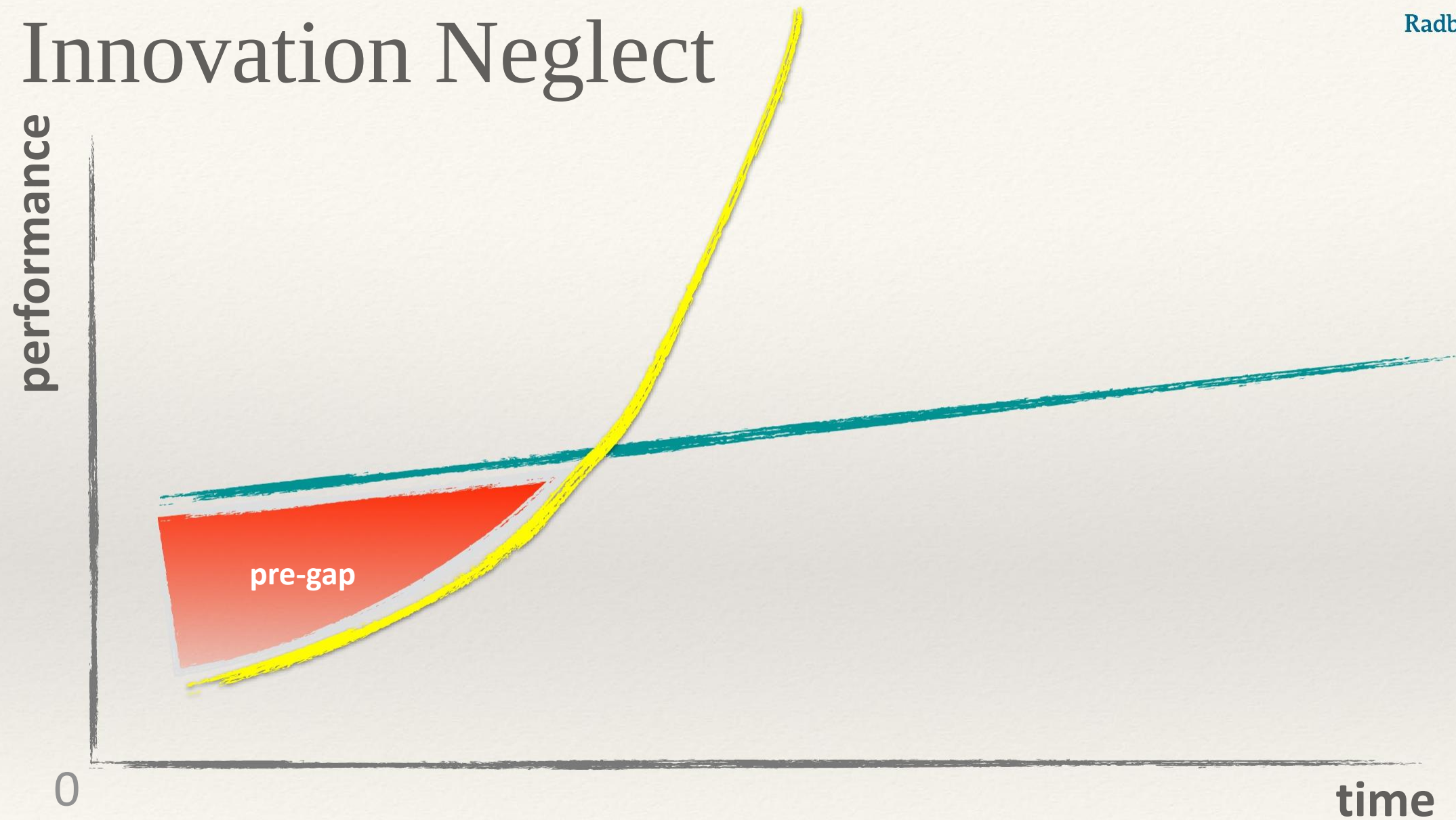
Innovation Neglect



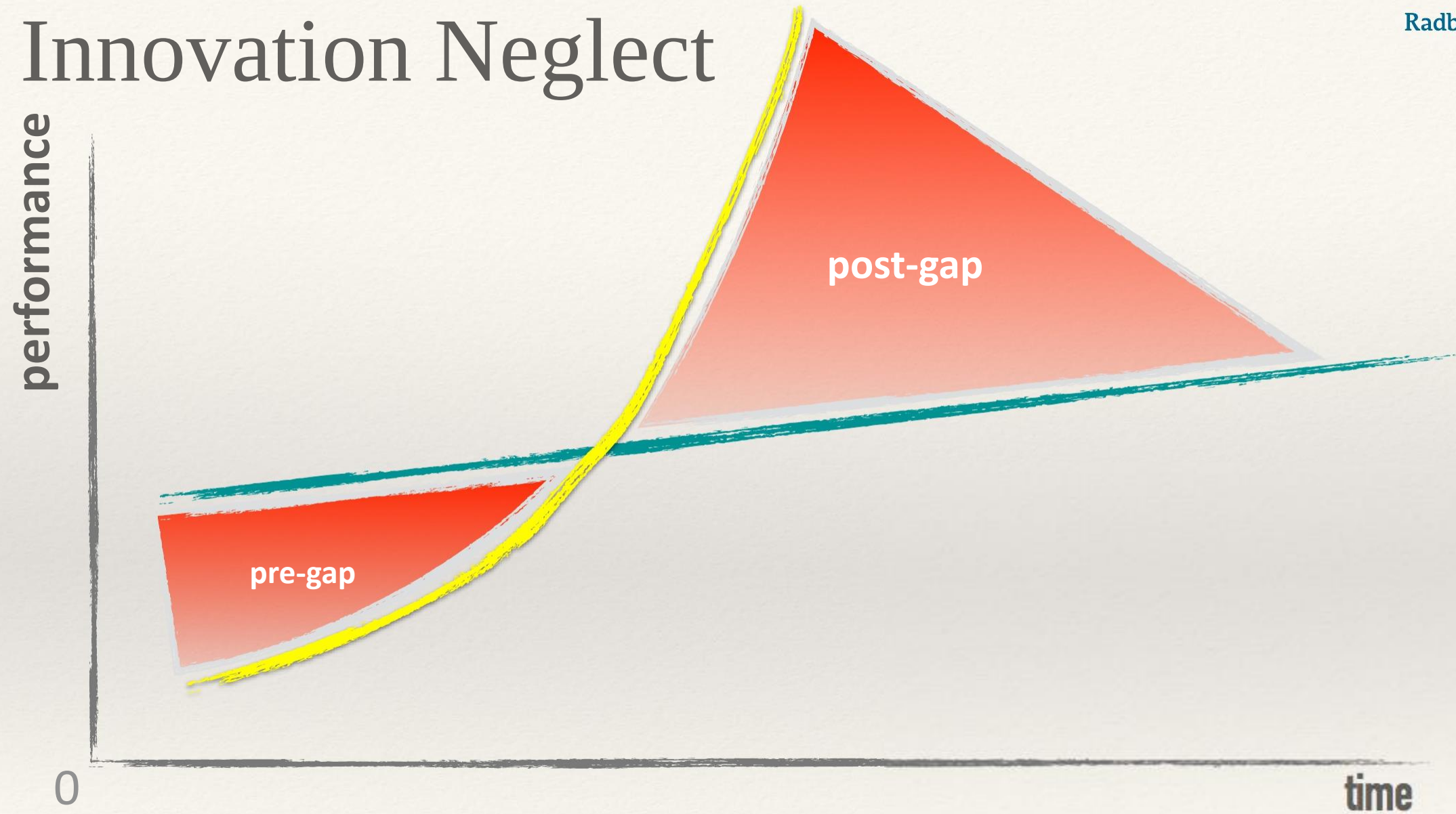
Innovation Neglect



Innovation Neglect



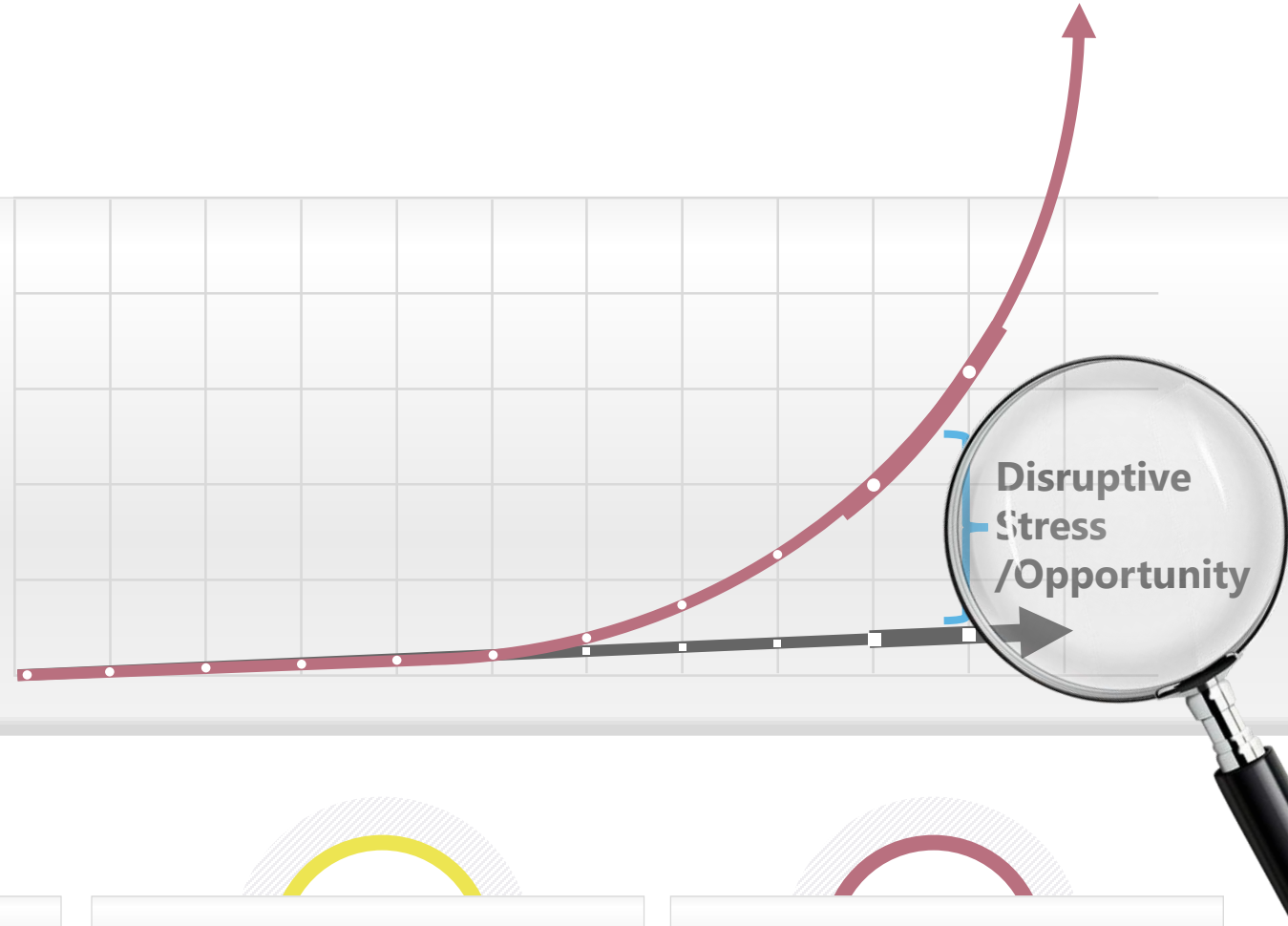
Innovation Neglect



4 D's of Exponentials



**DECEPTIVE
TO
DISRUPTIVE**



DIGITIZE

DEMATERIALIZIZE

DEMONETIZE

DEMOCRATIZE

4 D's: Digitize



DIGITIZE

Something becomes
information enabled

4 D's: Dematerialize



DEMATERIALIZIZE

Physical products **disappear** and **consolidate**

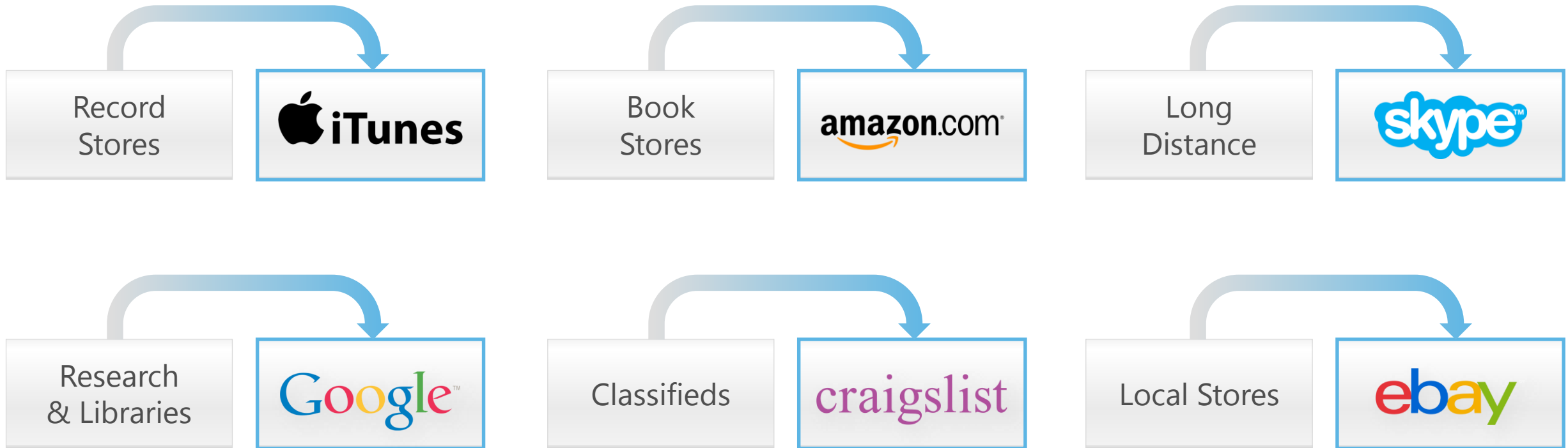


4 D's: Demonetize



DEMONETIZE

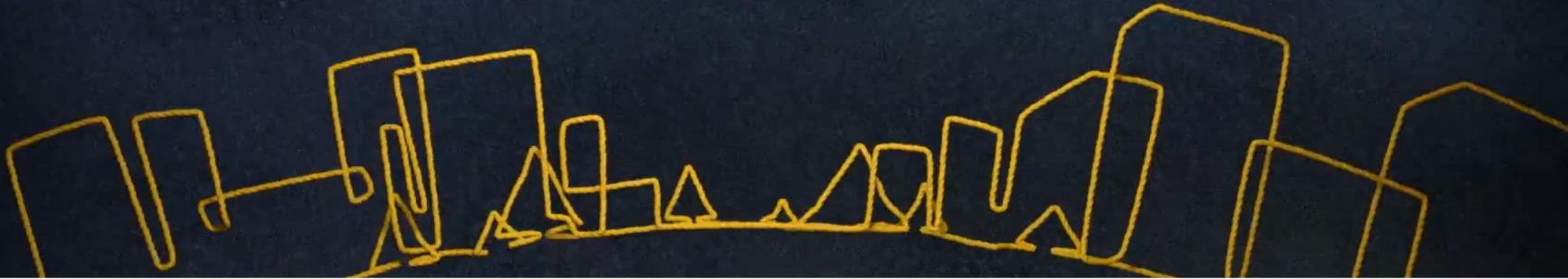
The cost of products and services **decrease significantly**



4 D's: Democratize



Loon
for all



DEMOCRATIZE

Access is available and affordable **to everyone**





ARTIFICIAL
INTELLIGENCE
& ROBOTICS



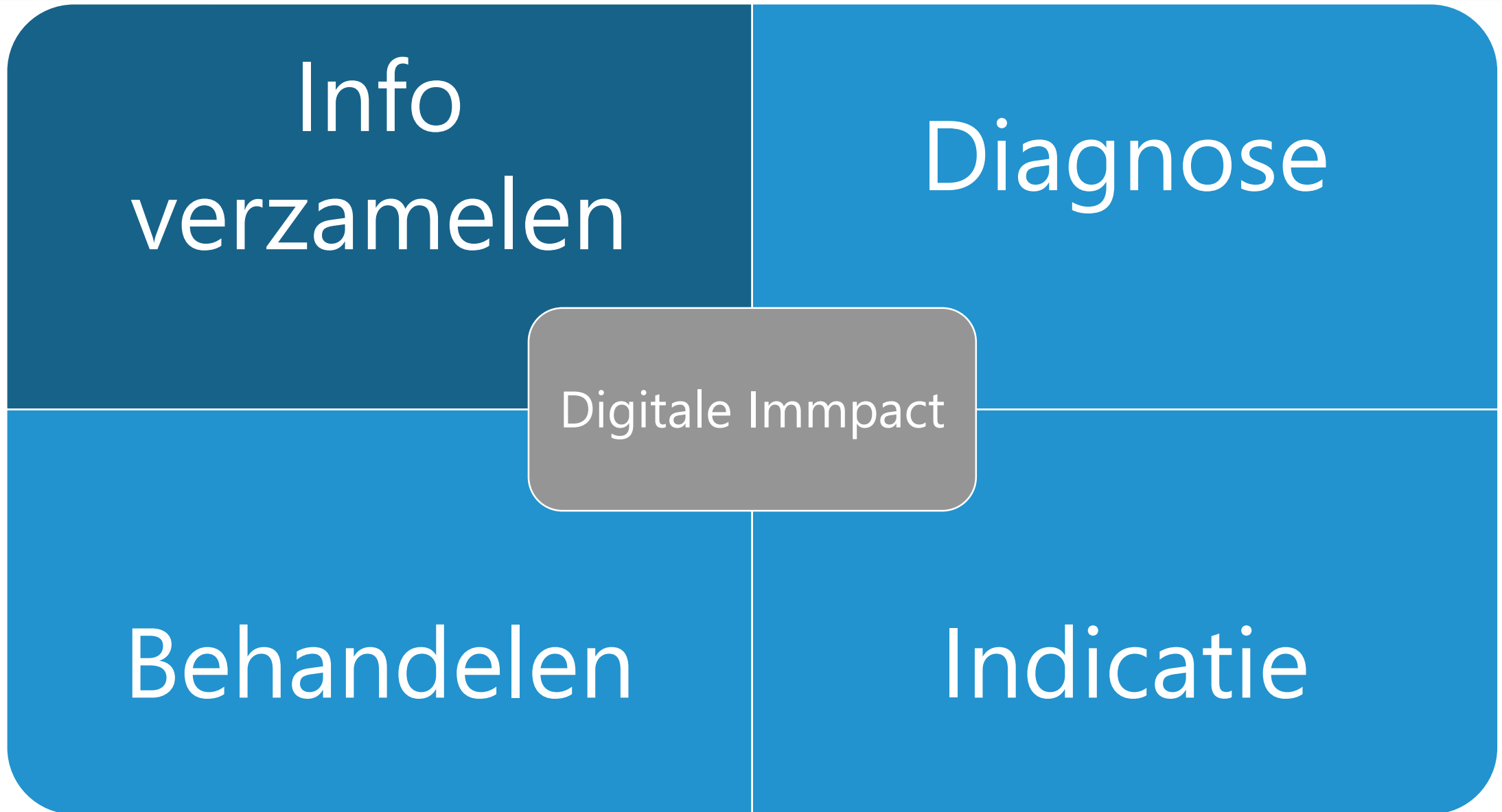
BIOTECHNOLOGY

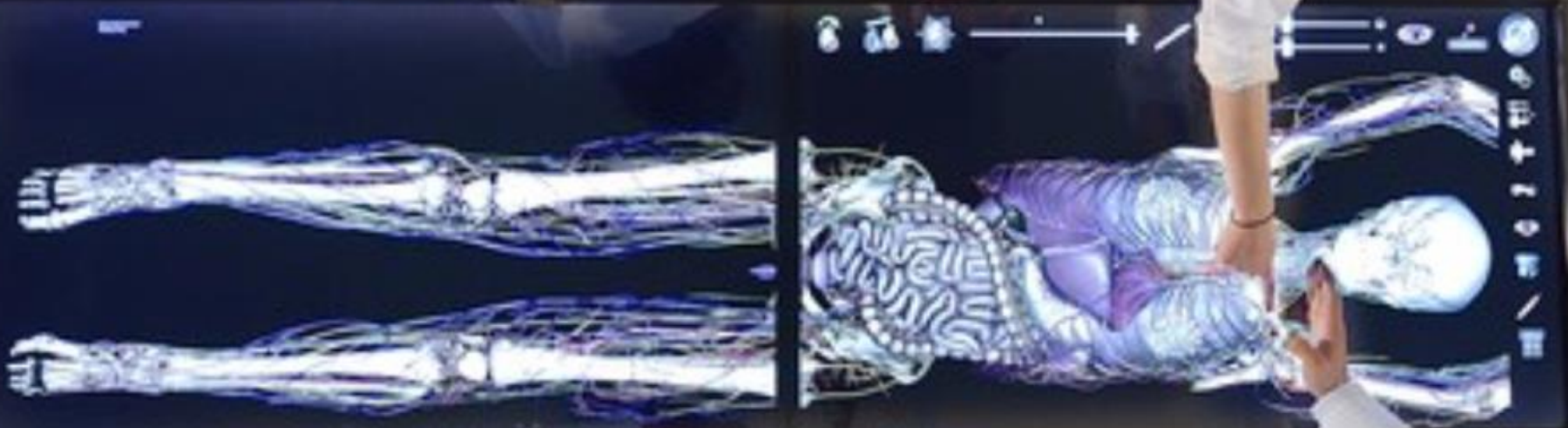


NANOTECHNOLOG
Y
& DIGITAL
FABRICATION



NETWORKS
& COMPUTING
SYSTEMS





Most used technology for detecting pain in teeth





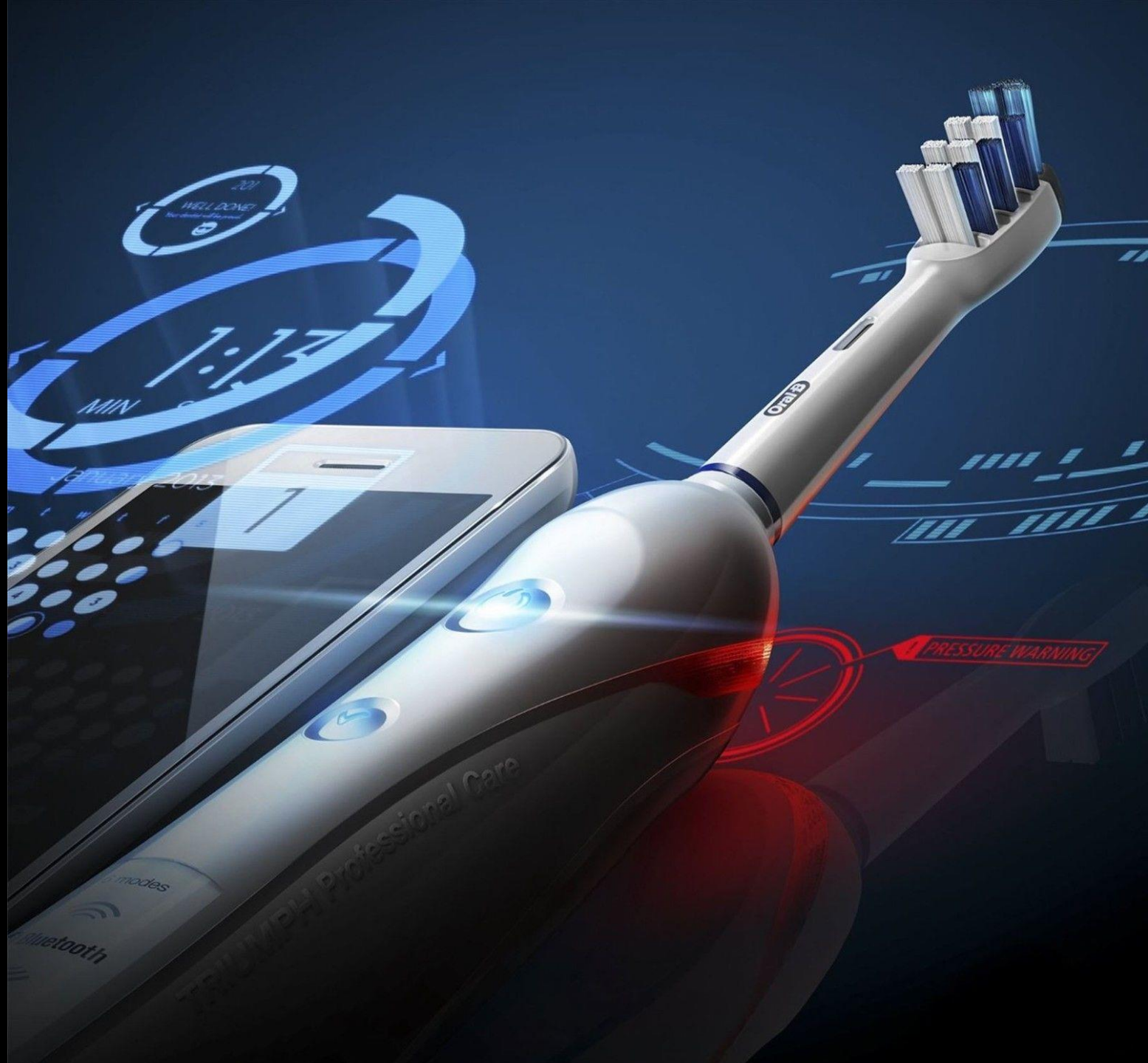


Sleep.ai

The Silent Sleep Company

CE
COMPLIANT





Our Mission is to Change the Practice of Medicine

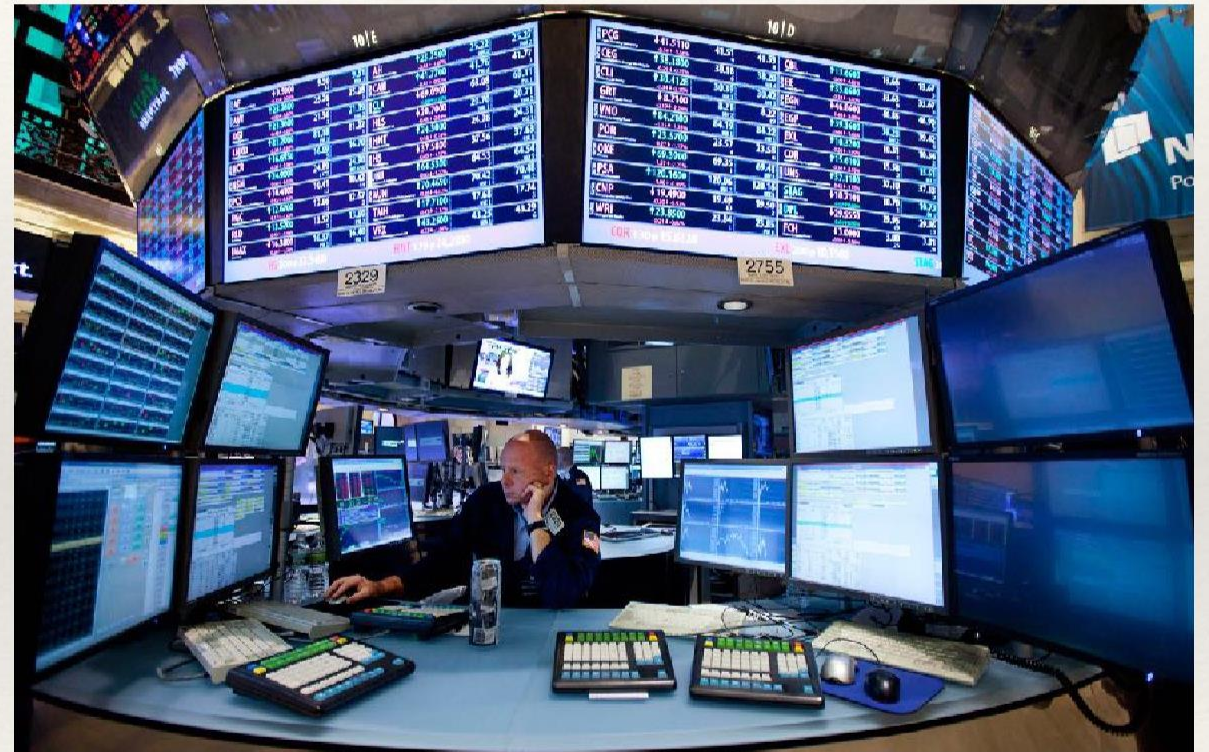
HEALTHCARE TODAY (sucks)

- REACTIVE
- DISEASE MANAGEMENT
- GENERALIZED
- COSTLY



- PROACTIVE
- PREVENTATIVE
- PERSONALIZED
- PREDICTIVE

Healthcare will become a **software branche**.



The first medical tricorder,
gathering temperature,
blood pressure and heart
rate at once.

Exponential Medicine 2011

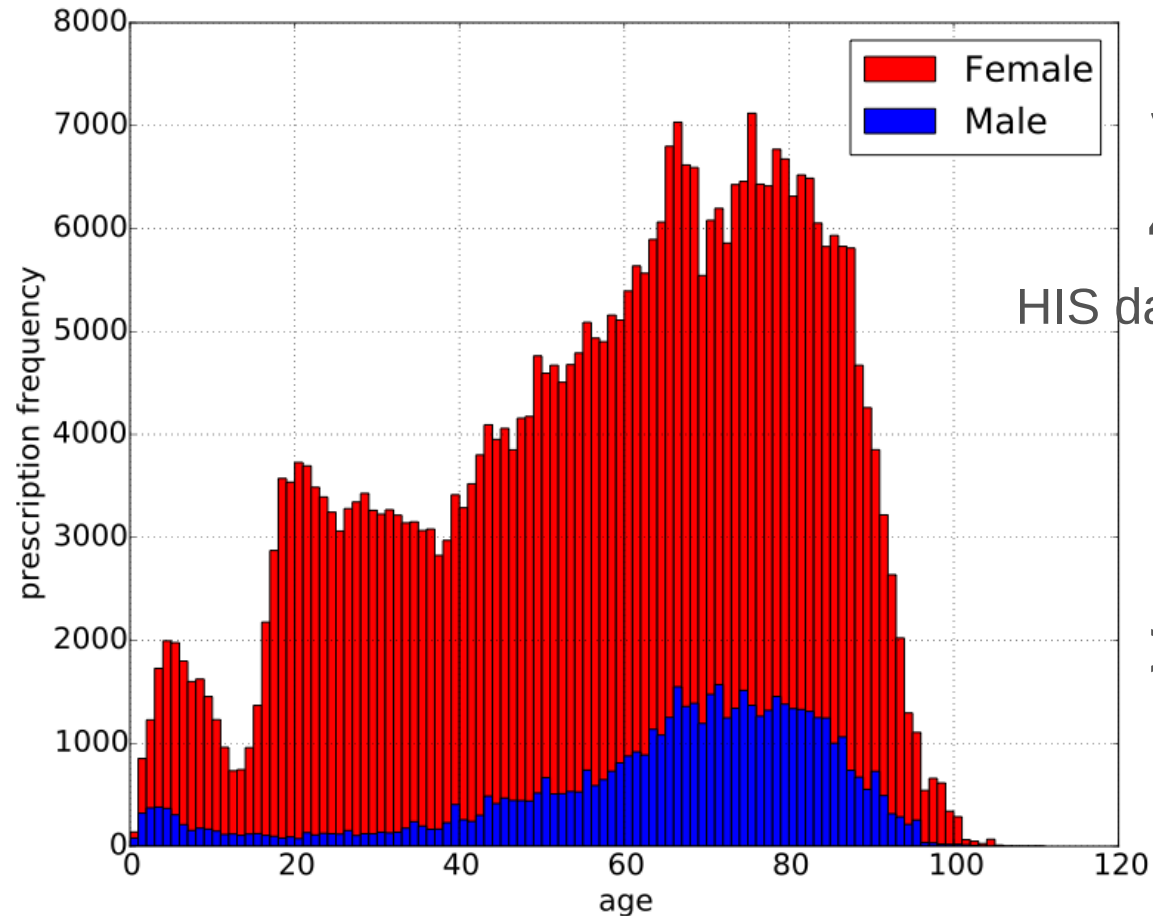


EXPONENTIAL
MEDICINE

pacmed

Patiënten krijgen alleen nog maar de zorg die in de praktijk bij vergelijkbare patiënten heeft bewezen te werken

Dataset van Pacmed bestaat uit HIS data van 111.234 unieke patiënten en 272.115 episodes



5.335 zwangeren

48.231 diabetici

HIS data van 3 jaar

ICPC
Diagnostiek
Verrichtingen
Prescripties

>160 variabelen



Info
verzamelen

Diagnose

Digitale Immpact

Behandelen

Indicatie

PIENSE

ΣΚΕΨΟΥ

THINK

DENKE

συναομις

PENSER



\$24,000

Who is Stoker?
(I FOR ONE WELCOME OUR
NEW COMPUTER OVERLORDS)

\$1,000

\$77,147

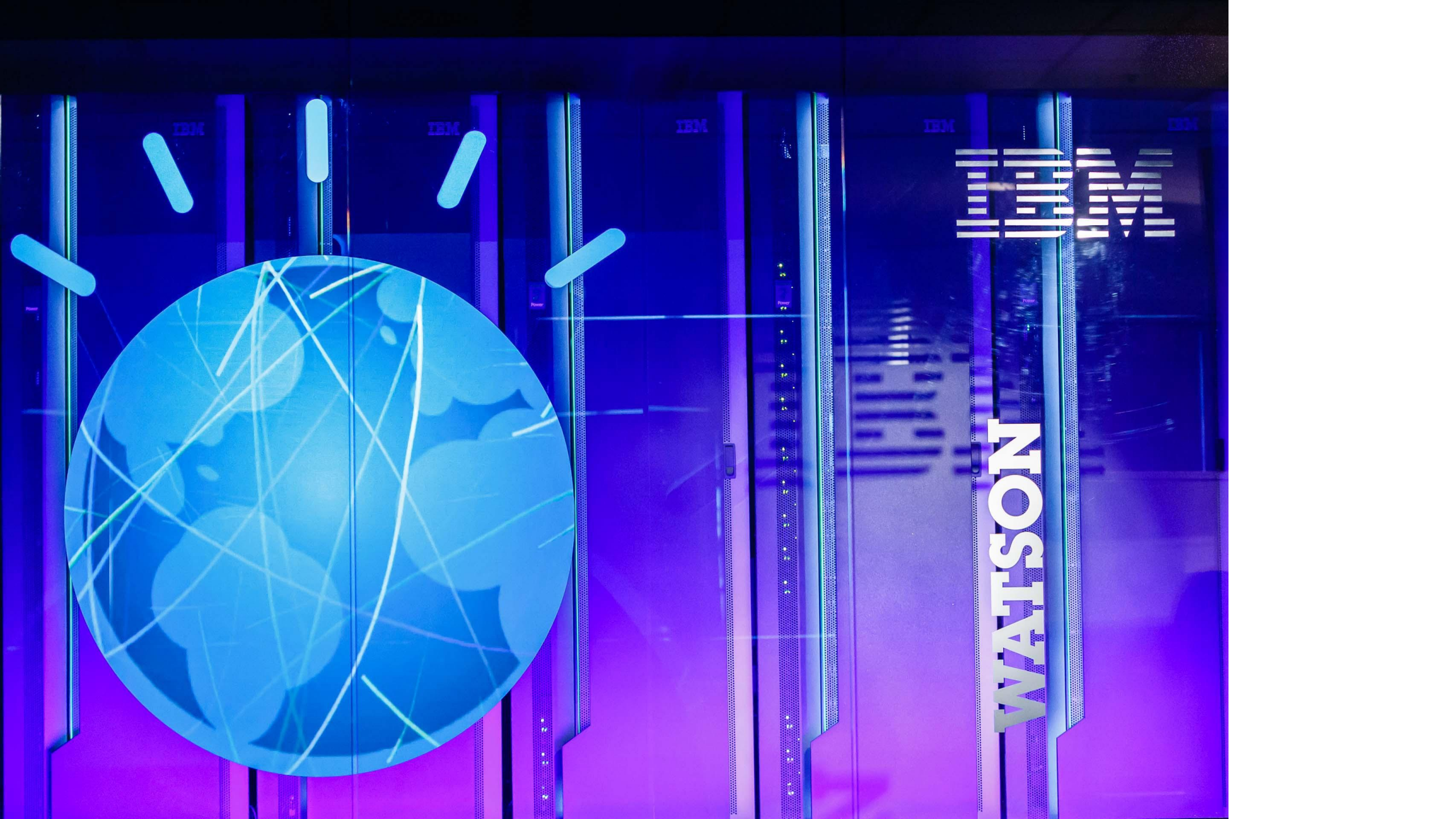
Who is Bram
Stoker?

\$17,973

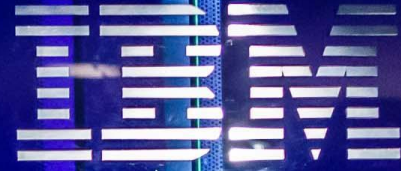
\$21,600

WHO IS
BRAM STOKER?

\$5600



WATSON



Info
verzamelen

Diagnose

Digitale Immpact

Behandelen

Indicatie

FILMED OCTOBER 2016 AT



13/37

Janet Sollod | Optimistically Approaching the Abyss | Exponential...



<https://exponential.singularityu.org/medicine/dr-janet-sollod-on-metastatic-breast-cancer/>



1:33 / 19:46



YouTube



Info
verzamelen

Diagnose

Digitale Immpact

Behandelen

Indicatie

3D scannen => 3 D workflow => 3D milling => 3D printing





Dental Series

Because Stratasys believes the future of dentistry is digital, we've designed a 3D printing solution for almost every dental need. With world-leading digital dental technology, practices and labs gain greater capacity, faster turnaround,



The 3-D Printing Revolution and the Dental Sector: Opportunities & Challenges

30.11.2016, Brussels

Colette Maloney, PhD
Head of Unit *Photonics*
European Commission

Directorate-General for Communications Networks, Content & Technology







SINGULARITY
UNIVERSITY

- ✓ Open voor verandering
- ✓ Sneller aanpassen met medewerkers
- ✓ <https://exponential.singularityu.org/medicine/>

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