Digital Health e Inteligencia Artificial

Enterprise Digital Solutions – GE Healthcare
Solutions Beyond Equipment

Estamos viviendo la revolución tecnológica más profunda de la historia

El modo de relacionarse con los usuarios ha cambiado completamente

Encuentra las 7 mil diferencias

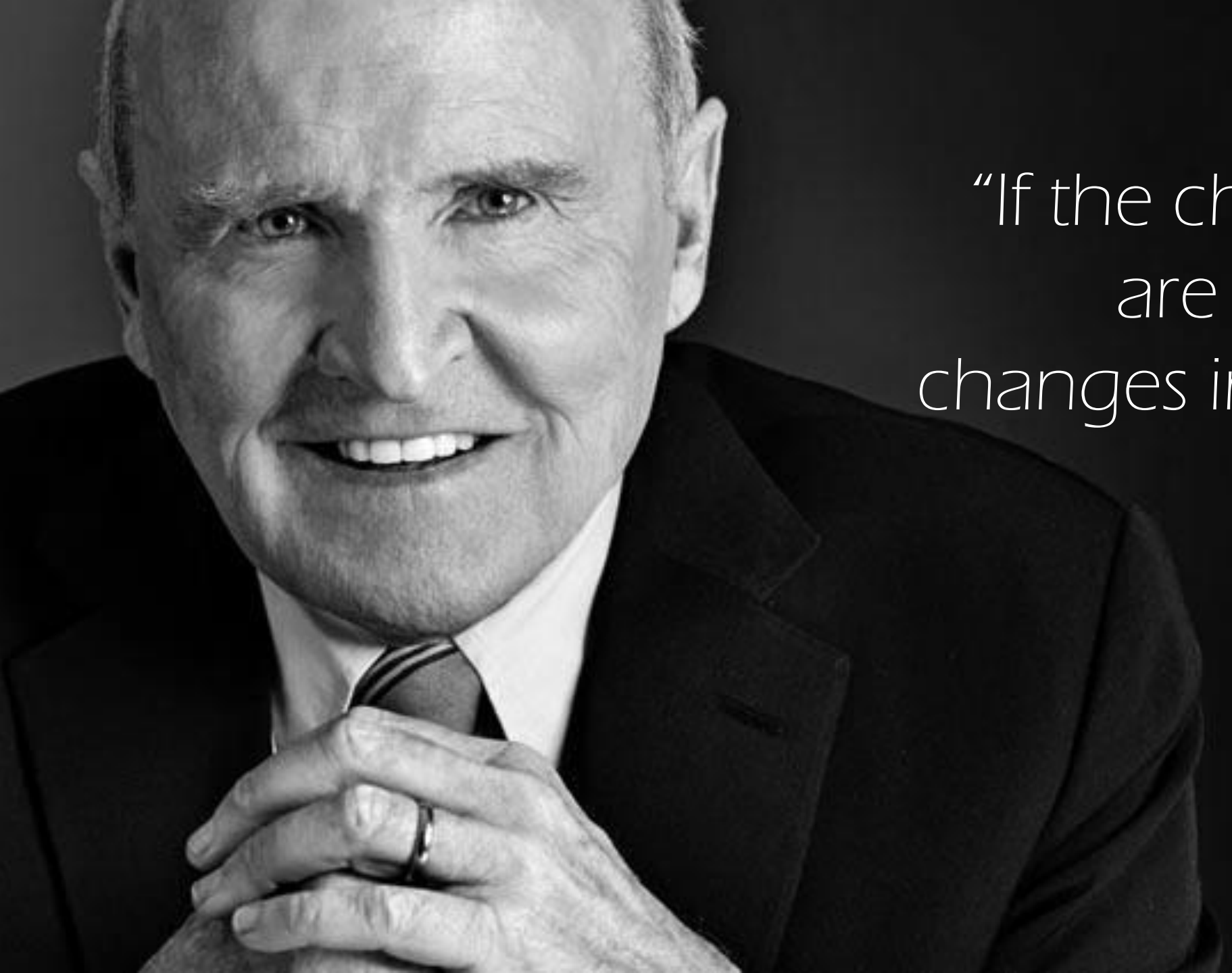
Apple tardó 2 AÑOS en vender 1 millón de iPods...

iPhone 3 MESES

iPhone 3G/3G 3 DÍAS

En los ultimos 3 meses de 2013 se han vendido 250 Millones de SmartPhone

Copyright © 2007 Apple Inc.



"If the changes outside are faster than the changes inside, then the end is at sight"

Jack Welch

(former CEO GE)

Y la Sanidad?

MEDICAL
Health Care
Doctor
Hospital
Pharmacist
Nurse
Dentist
First Aid
Surgeon
Emergency
CONNECTED
UBIQUOUS
SELF-MANAGEMENT
PROACTIVE
PREDICTIVE
PERSONALIZED
COLLABORATIVE
PREVENTIVE
DIGITAL

¿Qué dicen los analistas?

Transparency Market Research
In-depth Analysis. Accurate Results

Report: Healthcare Mobility Solutions Market to Reach $148B by 2023

NHS

UK's NHS to spend nearly $6 billion to go digital, including remote care & health apps

pwc

mHealth could save 99 billion EUR in healthcare costs in the European Union (EU) and add 93 billion EUR to the EU GDP in 2017 if its adoption is encouraged.

THE WALL STREET JOURNAL.

Google Ventures Shifts Focus to Health Care

Digital health investments slide in the first quarter to $2 billion, according to Mercom Capital

Jonathan Shieber @jshieber / 6:34 pm CEST • April 18, 2019

ROCK HEALTH

In 2015, venture funding of digital health companies reached $4.5B, ending slightly above 2014.

¿Qué dicen los analistas?

El Mercado global de eHealth llegará a **USD 308 billion** en **2022** (1)

Mercado mundial de Digital Health llegará a los **504 Bn$** en 2025: Global Market Insights

El crecimiento del sector será de un **CAGR** de **14.56%** 2015 – 2020 (3)

(1) GranViewReseaarch
(2) Market&Markets
(3) Research Markets

Quiero informarme sobre mi salud y la de los míos
Si voy al hospital, quiero que me atiendan lo más rápido y eficaz posible
Quiero resolver mis dudas de salud de forma inmediata y fiable
Si estoy enfermo, quiero que mi médico controle mi enfermedad, allá donde esté
Quiero poder acceder al médico cuando lo necesite: a cualquier hora y en cualquier lugar
Quiero que mi servicio de salud se preocupe por prevenir: por que yo esté sano ahora y en el futuro

OSCAR HEALTH INSURANCE **1.5B** 2013

"At Oscar, we set out with the idea that there was a need for a new kind of health insurer, and a new way of marketing health insurance. We use data, technology, and design to improve the industry."

–Mario, CEO

Startup 2013

> 700 M$ Fundraising

oscar

Presencia en 6 estados

> 3Bn$ valor

>15% cuota de mercado NYC

TELADOC TALK TO A DOCTOR IN 1 HOUR **$1B** 2002

TELADOC™

TELADOC TALK TO A DOCTOR IN 1 HOUR **$1B** 2002

HEALTH IT, HOSPITALS

Teladoc acquires Best Doctors in $440M deal to boost international clout

Revenue for the second opinion service Best Doctors added up to $92 million last year and is projected to be $100 million this year.

6,086 views | Jun 4, 2018, 06:32am

Teladoc Buys Advance Medical For $352M In Global Telehealth Deal

TELADOC™

FITBIT FITNESS WEARABLE $7.9B 2007
fitbit
WALL STREET
IS GETTING
FIT
LISTED
NYSE

23andMe

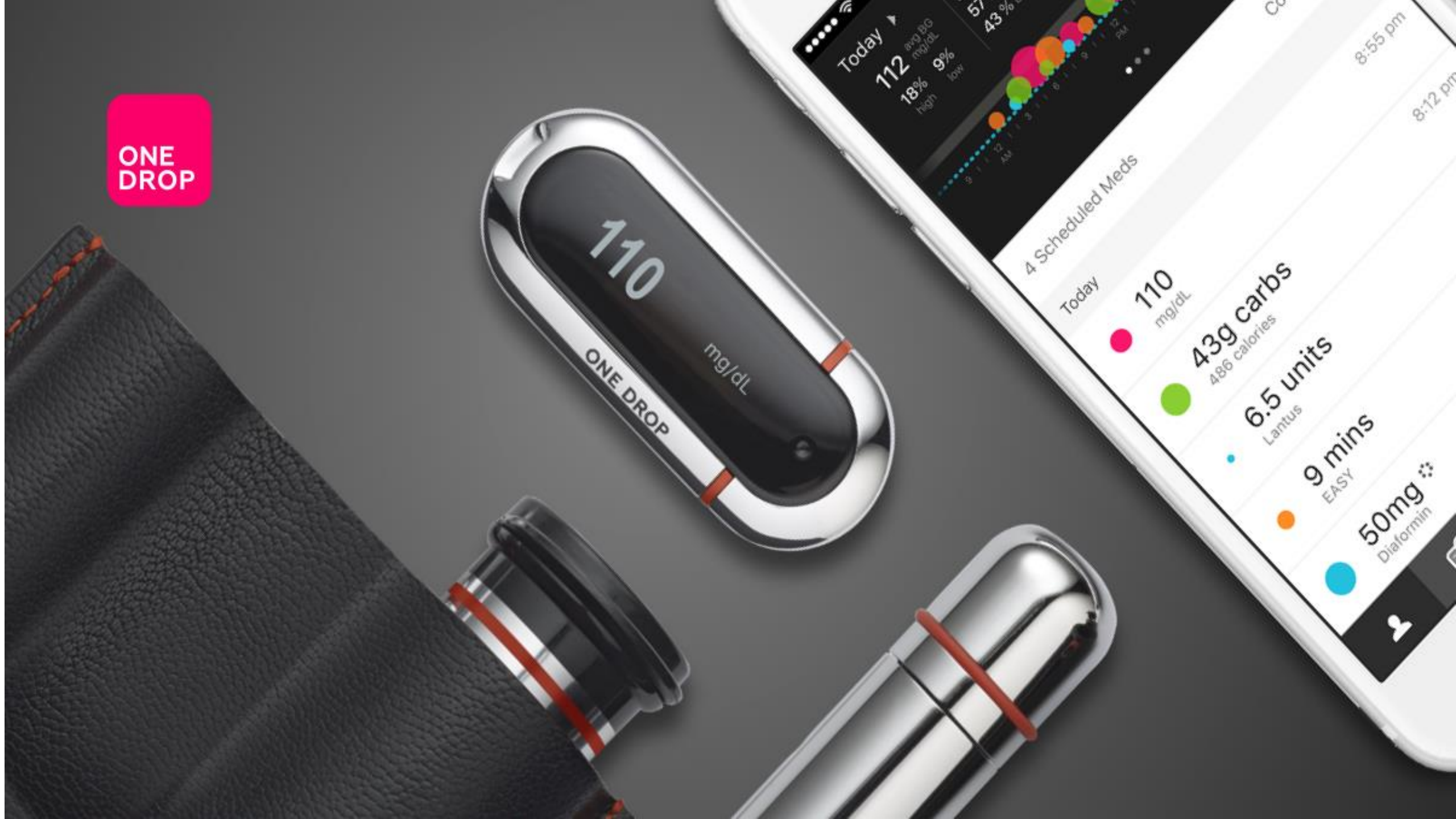
welcome ancestry how it works research buy help

Find out what your DNA says about you and your family.

- Learn what percent of your DNA is from populations around the world
- Contact your DNA relatives across continents or across the street
- Build your family tree and enhance your experience with relatives

order now $149

IBM WATSON HEALTH PREDICTIVE ANALYTICS $1B


ONE DROP
110
mg/dL
ONE DROP
Today
112 avg BG mg/dL
18% high
9% low
4 Scheduled Meds
Today
110 mg/dL
43g carbs
486 calories
6.5 units
Lantus
9 mins
EASY
50mg
Diaformin
8:55 pm
8:12 pm

How to use the FreeStyle Libre System

1.
Apply sensor
with applicator

2.
Scan sensor
using FreeStyle Libre Reader

3.
Get reading
on the reader

FOR FULL INSTRUCTIONS

www.freestylelibre.co.uk ›

En la Transformación Digital
la palabra clave no es
Digital,
la palabra clave es
Transformación

1717

HEALTH
INSURANCE
DATA
ANALYTICS
Ai

flatiron

ACQUIRED IN THE ALLEY

BY

Roche

$1.9 BILLION

¿Por qué Big Data en Salud?

Gran Dispersión de Información

Agentes y Actores no conectados

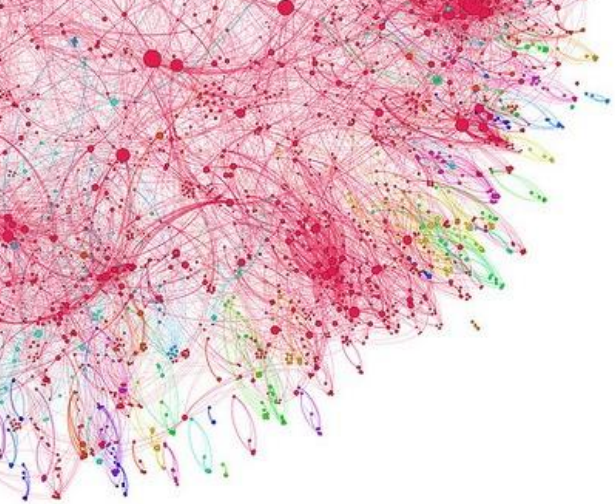
Mucha información clave no estructurada

Los usuarios generan su propia información

Información relevante fuera de los sistemas sanitarios

¡Qué pobre memoria es aquella que sólo funciona hacia atrás!

Lewis Carroll
Alicia en el país de las maravillas



Predictive Analytics
Evolución desfaborable
No Show
Urgencias
Workload
Evaluación Riesgo
Desarrollo patologías graves
Re-Ingresos

THE DIGITAL HOSPITAL: 100+ COMPANIES REINVENTING THE PRACTICE OF MEDICINE

CARE MANAGEMENT

caremerge, DASH, HEALTH GORILLA, wellframe, Alignment Healthcare, lumiraDx, SILVERVUE, PATIENTPING, HealthLoop, PIECES, MEDISAS

EMR/ PRACTICE MANAGEMENT

MODERNIZING MEDICINE, pokitdok, CareCloud, Cedar, practicefusion, medCPU, FLATIRON, AUGMEDIX, PointClickCare, eso, drchrono

COMMUNICATION

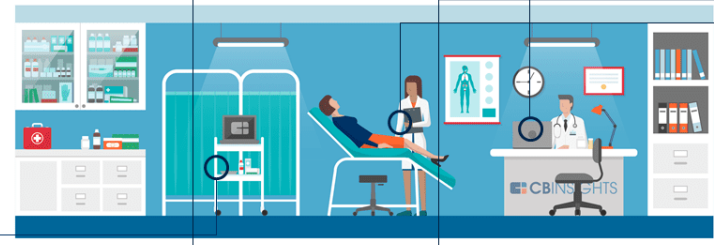
DrFirst, voalte, cureatr, Stitch, patientsafe solutions, tigertext

RADIOLOGY

BUTTERFLY Network, Inc., zebra, eagleyemed, ARTERYS, enlitic, lifeIMAGE, Trice, HeartFlow, Lunit, aidence, AMBRA

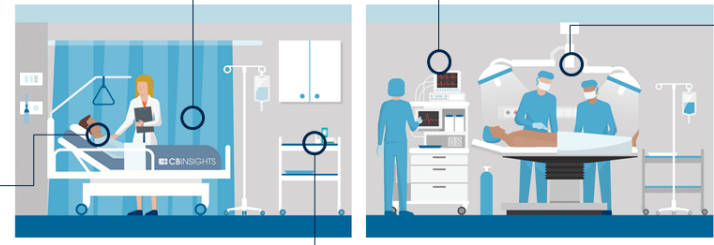
DIAGNOSTICS

GRAIL, freenome, mindstrong, GUARDANT HEALTH, BLUEBEE, Genalyte, BASIL LEAF TECHNOLOGIES, Singulex, twoporeguys



PATIENT MONITORING

VitalConnect, MediBeacon, Glytec, OptiScan, Ornim medical, EarlySense, endotronix, AliveCor



SURGERY

gausssurgical, ORTHOSENSOR, AURIS, TOUCHSURGERY, CMR, intellijoint surgical, SURGICAL THEATER, OSSOVR

PHARMACY

proteus, Pill Pack, TALYST, ZappRx, phil, CAPSULE, RxRevu, PerceptiMed, MYRA

APPOINTMENTS & REFERRALS

aidin, AristaMD, GRAND ROUNDS, KYRUUS, practo, Healthify, SOLERA, Doctolib, evariant, amino

HOSPITAL NAVIGATION

Connexient, GOZIO Health, locatible

CLINICAL DECISION SUPPORT

Oncora MEDICAL, HUMAN LONGEVITY, INC., HealthCatalyst, FABRIC GENOMICS, OM1, lu, syapse

READMISSIONS / EMERGENCY DEPARTMENT

Qventus, jvion, AMBIENT CLINICAL ANALYTICS

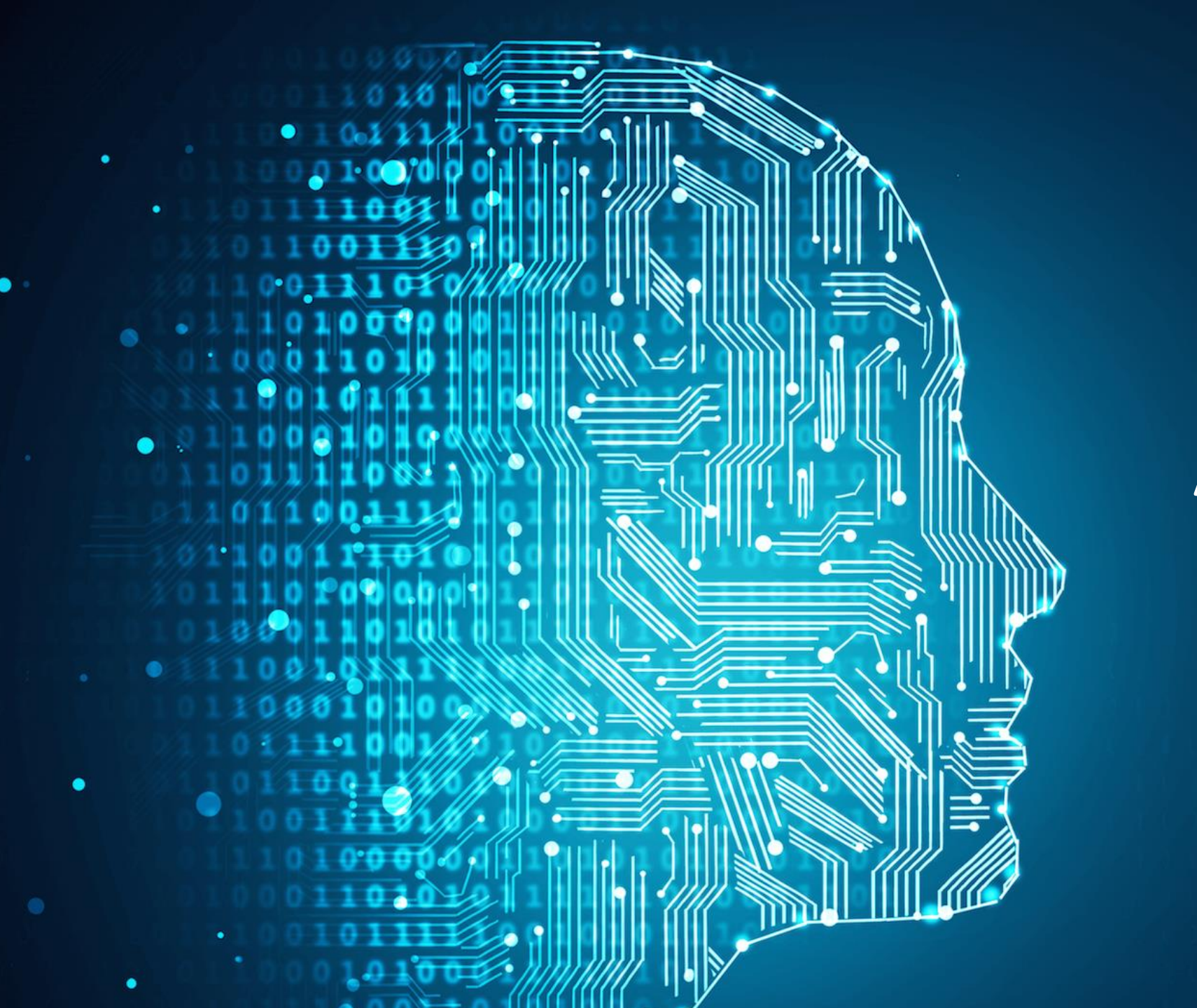
INFECTION CONTROL

XENEX GERM-ZAPPING ROBOTS, SWIPE SENSE, Hand-in-Scan hand hygiene control

PATIENT EXPERIENCE

Outcome HEALTH, NarrativeDx, medStatix, appliedVR, Bivarus Patient-Centered Analytics, patientslikeme

CBINSIGHTS



Artificial Intelligence

Top 10 AI Applications

Robot-Assisted Surgery**

$40B

Virtual Nursing Assistants

$20B

Administrative Workflow Assistance

$18B

Fraud Detection

$17B

Dosage Error Reduction

$16B

Connected Machines

$14B

Clinical Trial Participant Identifier

$13B

Preliminary Diagnosis

$5B

Automated Image Diagnosis

$3B

Cybersecurity

$2B

AI in Healthcare

Patient-Facing

AI Chatbots

buoy, Your.MD, med what, GYANT, Dr.AI

Wearables & Devices

phys iQ, QARDIO, sano, QUANTTUS, DietSensor, kiwi.ai, BIOSERENITY, Jodytrak, Magnea, kinsa, aira, SCANADU, AliveCor, 19 Labs, CliniCloud

Personalized Genetics

iCarbonX, rthm, CG, DAY TWO, Positive, LIFE NOME, MEDICUS, 23andMe, VITAGENE, Arivale, habit, Suggestic, VIOME

Mental Health

Woebot, TOUCHKIN, BIOBEATS, Ginger.io, NeuroLex, AURA, koko

Women's Health

CYRCADIA HEALTH, bloomlife, celmatix, flutter, eva, Clue, elyse, 28, Natural Cycles

Skin

SkinVision, skinIO, skin analytics, SCANZ, skin, DOCTOR HAZEL, FIRST DERM

Telehealth

Telemedicine

ada, SENSELY (how are you feeling today?), babylon, anamnèse, Remedy, pager, MDLIVE, spruce, Z

Lifestyle Management

AiCure, MedAware, ovia health, next IT, Catalia Health, Healthcare lucina, Health Next Gen, Doctella, NarrativeDx, cardiogram, wellframe, Welltok, CareAngel

Disease Management

prognos, INFOBIONIC, HealthReveal, HEALTH FIDELITY, DIABNEXT, SENTRIAN, TEMPUS, dreamed, Healint, WIKAYA, FLASHBACK TECHNOLOGIES, RxPREDICT, BELONG

Doctor-Facing

Medical Records

APIXIO, AUGMEDIX, clinithink, MODERNIZING MEDICINE, saykara, nimblr, emr.ai, WellSheet, hCue, patientory, SANSORO HEALTH, PROTENUS, BloomAPI

Data Analytics

ZEPHYR HEALTH, burst iQ, MD.ai, Infermedica, CLOUDMEDX, jvion, CareSkore, flatiron, ROAM, Hindsait, Oncora MEDICAL, lumiata, GRAIL, MEDALOGIX, ensodata, pulseData, healthcare.ai, KenSci, COMBINOSTICS, impacthealth, LYTICS

Medical Imaging

VIZ, AMARA HEALTH ANALYTICS, enlitic, zebra MEDICAL VISION, 推想科技 infervision, CureMetrix, BAYLABS, VUNO, ADVENIO, koios, BUTTERFLY Network, Inc., SIGTUPLE, Behold.ai, imagia, ARTERYS, IMAGEN, Mindshare MEDICAL, aidence, aidoc, Lunit, Cardiologs, Genetesis, HubMedX, DIA IMAGING ANALYSIS, SemanticMD, Blackford analysis

Hospital

FORWARD, Qventus, MedyMatch, gauss, orgo.ai, MEDASENSE, P3d, AURIS, VERB SURGICAL, Qualaris

Research

Drug Discovery

Mind the Byte, SaaS for Drug Discovery, DATAVANT, QUANTITATIVE MEDICINE, Standigm, ENVISAGENICS, BERG, RECURSION, BenevolentAI, Athelas, Exscientia, NuMedii, healx, transcriptic, Numerate, twoXAR, Atomwise (Better medicines faster.), INSILICO MEDICINE, CloudPharmaceuticals, Globavir

Information & Clinical Trials

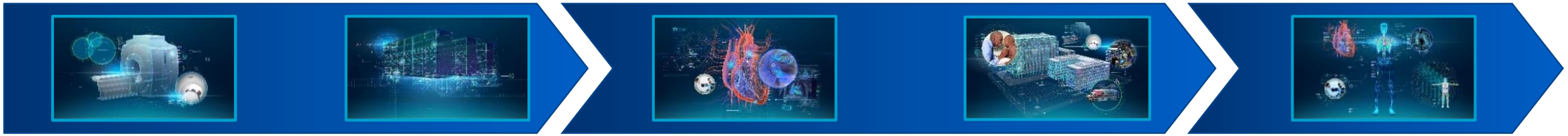
trials.ai, PathAI, BenchSci, CYCLICA, Mendel.ai, Qrativ, peptone, Brite Health, IPLEXUS, antidote, Plex Research, nference, RESULTCARE

Genetic Research

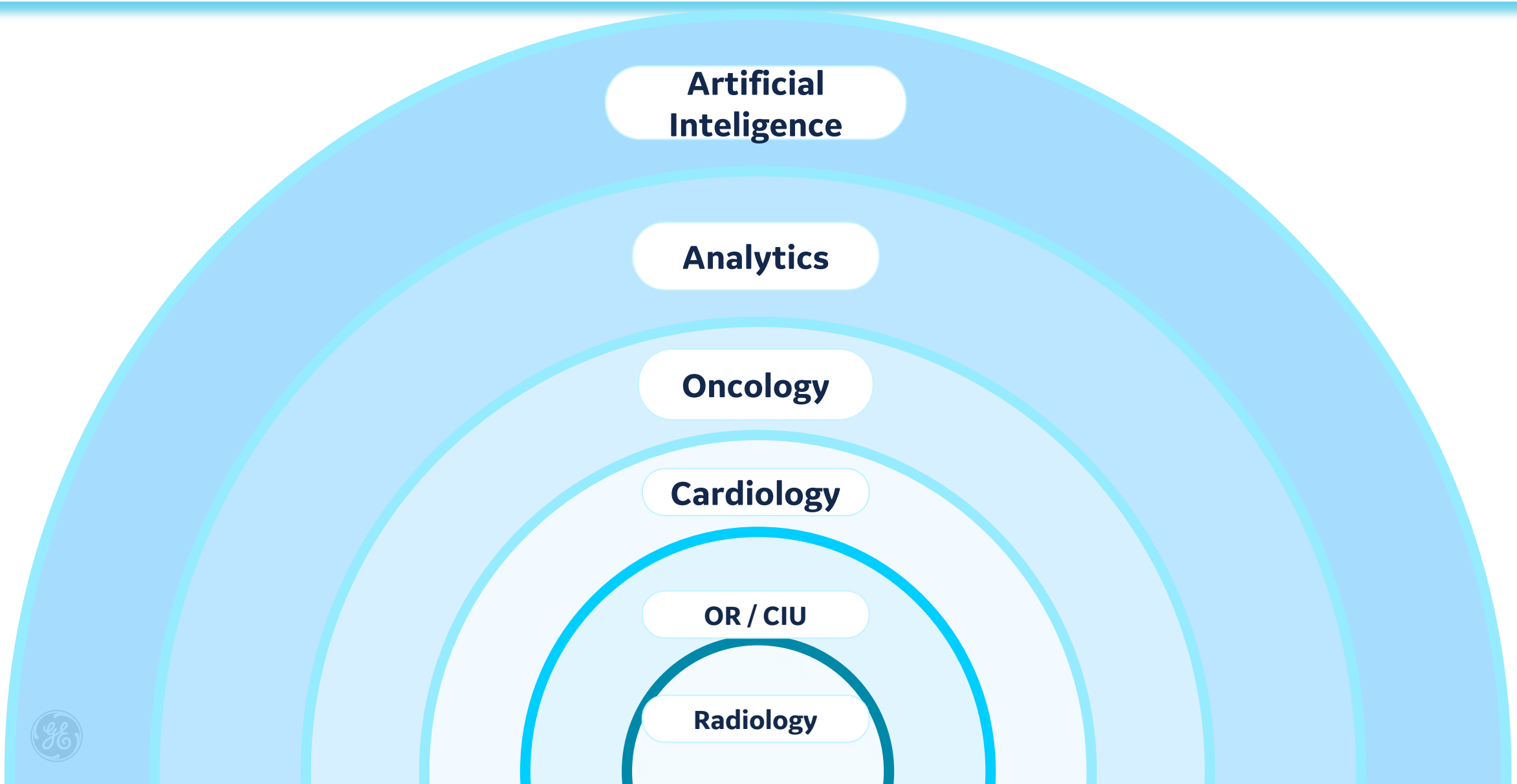
MolecularMatch, Blueprint Genetics, VERGE GENOMICS, NURITAS, diploid, HUMAN LONGEVITY, INC., SOPHIA GENETICS, freenome, FDNA, PATHWAY GENOMICS, deep genomics, DESKTOPGENETICS

GE Healthcare
Nuestra Visión..... Nuestras Soluciones

Precision Diagnostics | **Precision Therapeutics** | **Precision Monitoring**



In-Vivo + In-Vitro	Decision making	Therapy innovation	Therapy delivery	Monitoring
Protocol driven	Fragmented, manual	Costly & risky R&D	Complex, unguided	Focused on the sick
Highly personalized	Integrated & AI enabled	Precisely targeted	Simplified & precise	Focused on health

GE HEALTHCARE VISION - Enabling Precision Health

GE Healthcare
Nuestra Visión..... Nuestras Soluciones