

Kaiser Permanente Today....





The **LARGEST** nonprofit health plan in the United States

More than **9 million** members

Nearly **17,000** physicians

Serving **9 states** and the District of Columbia

37 hospitals

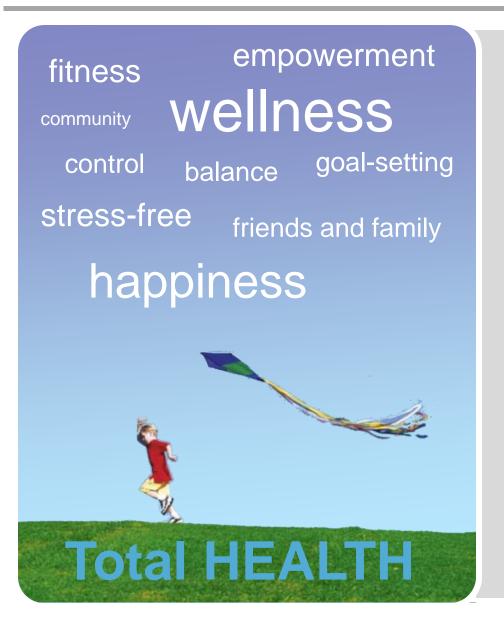
600+ medical offices

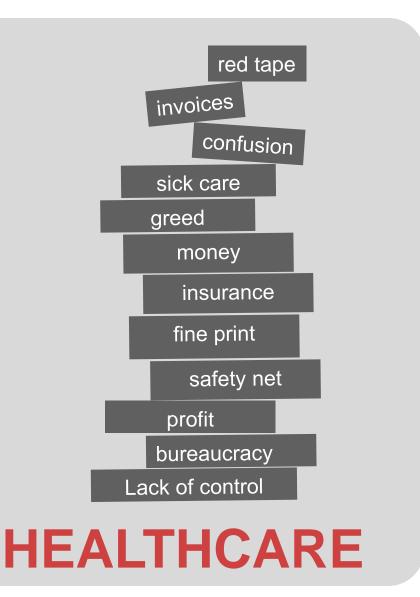
60 million+ square feet

The **LARGEST** private electronic health record deployment **in the world**

What is the Kaiser Permanente Brand?







Industry Recognition (opinion makers acknowledge our progress)



Look who's noticed...

The New York Times

FAST @MPANY















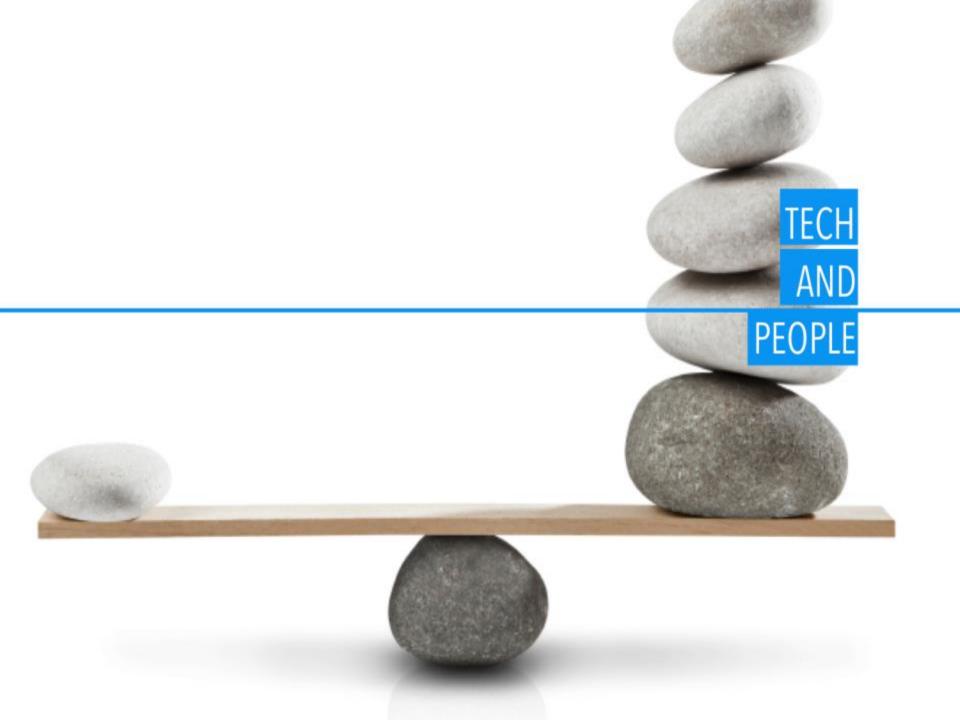






Healthcare IT News

MercuryNews.com



Digital Health Trends



Health plan competitors are adopting digital health technologies to transform customer engagement and business models

Integration

Legislation and greater outcomes focus catalyzing providers and payers to invest in integrated models (e.g. ACOs) and supporting technology

Aetna's Digital Health Strategy

Connecting providers and patients to influence behaviors



Web / Mobile

Digital devices and applications allowing for augmented member engagement, analytics-based care delivery, and real-time and continuous data capture

Humana's MyHumana and Humana Fit

These two mobile apps combine patient services with wellness engagement





Social

Social networking playing an increasing role in how patients manage their health, as a lever to improve health habits and attract new customers

Aetna's "Aetna Everactive" social community

Brings together virtual health and fitness resources with opportunities to participate in real-life events



Virtual Care

Payers using technologies to improve access and outcomes by connecting providers and patients wherever they are located

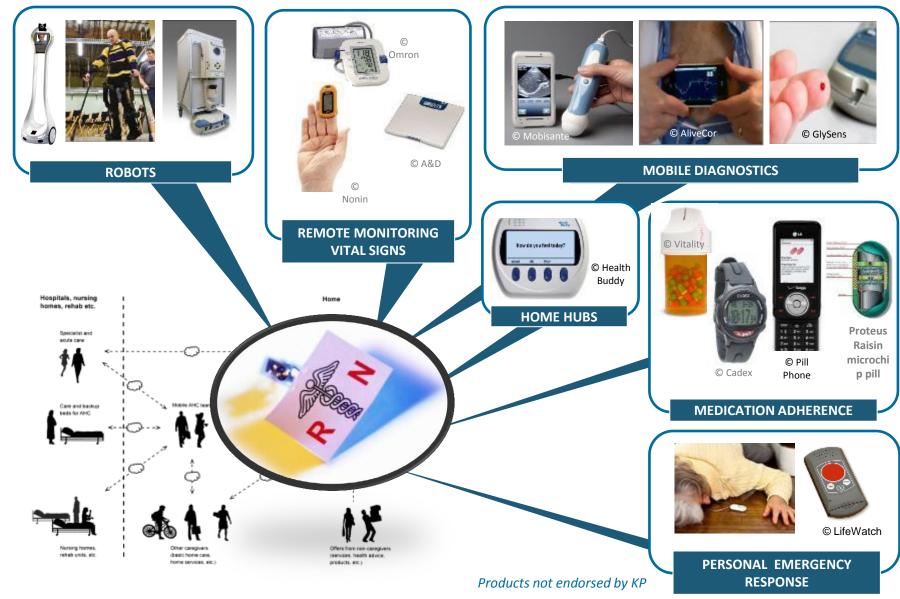
UnitedHealth NowClinic

24/7 live chat/video physician visits with electronic medical record integration offered in over 22 states



Innovation & emerging technology is supporting care anywhere...





The future is here...



Speech & Gesture Based Interfaces



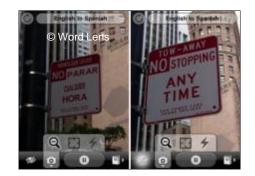




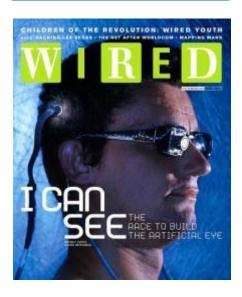
Augmented and Virtual Reality







Implant & Brain Computer Interfaces



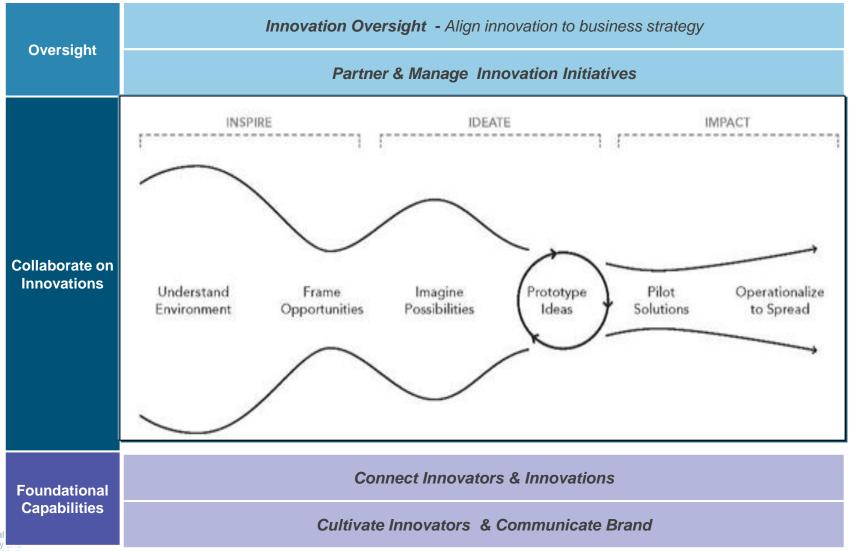


Products not endorsed by KP

Innovation Framework

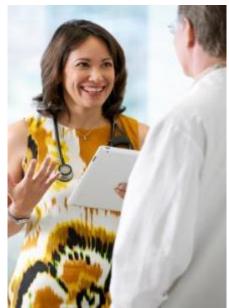


Innovation Framework has been developed as a consistent taxonomy in partnership with KP Innovation Consultancy, Garfield Innovation Center, NFS and various KP innovators.



MEMBERS' NEEDS ARE CHANGING

















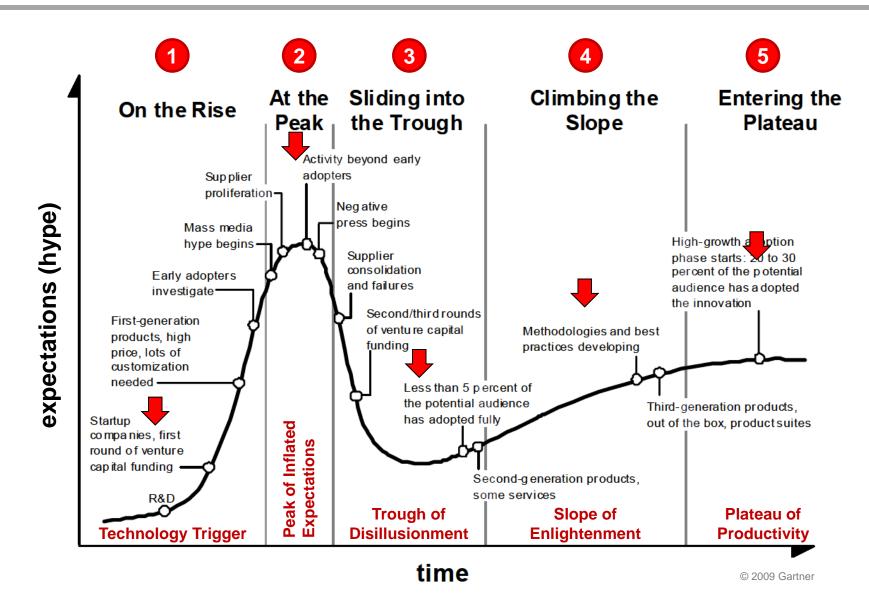
CLINICIANS' NEEDS ARE CHANGING TOO KAISER PERMANENTES





Gartner Hype Cycle for Technology







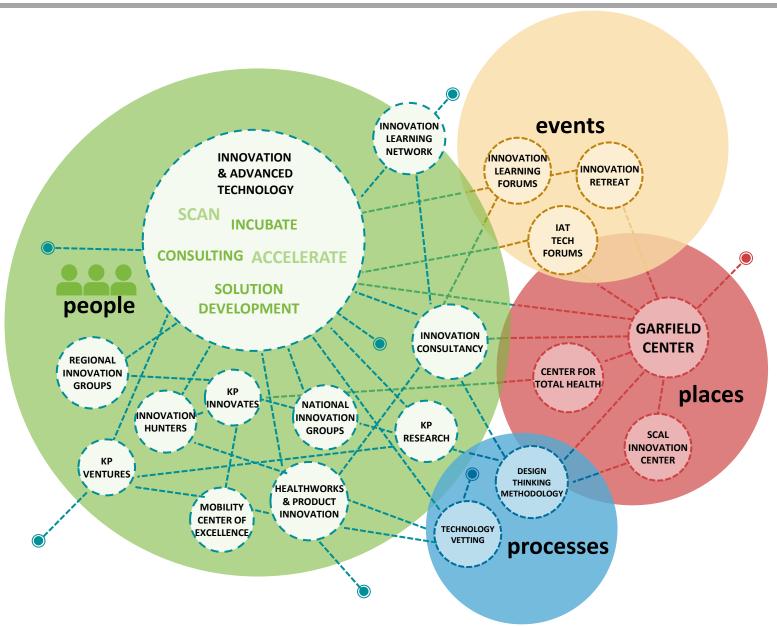




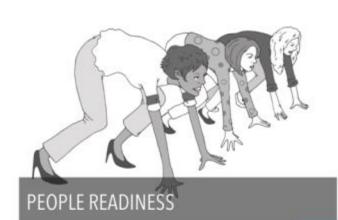


How do we fit into the KP Innovation Universe?











ORGANIZATIONAL WILL

WHAT IT TAKES
TO SPREAD
INNOVATION



SPONSORSHIP



TECHNOLOGY FIT









SOW, CULTIVATE, CONNECT





Digital Health Technology and



SPARKING CONVERSATION & IDEAS



















Imagining Care Anywhere
places the member at the
center and shows how
technology might enable
health anywhere, anytime.







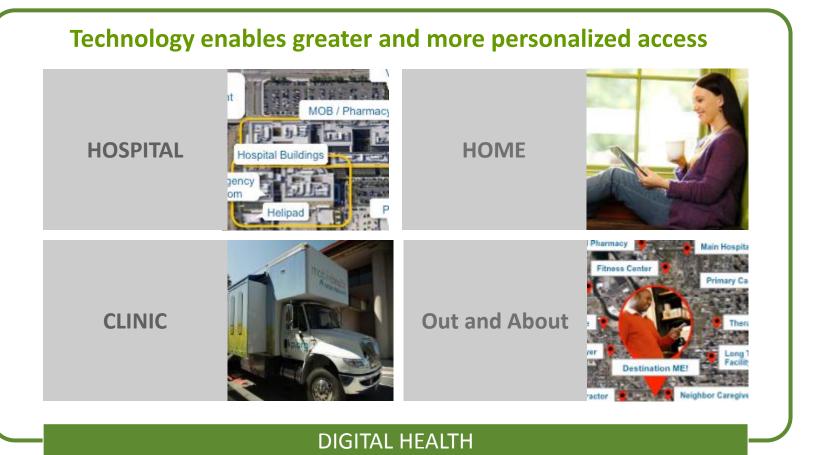
Imagining care anywhere



Imagining Care Anywhere



Care in the future will be delivered anywhere which are incredibly and increasingly well supported with great technology



Home



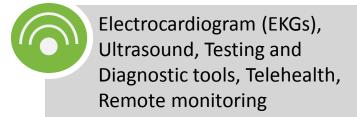
The home becomes the primary site for care and care tools will be onsite in many people's homes











Supported by Electronic Medical Records (EMR) and Technology

Clinics



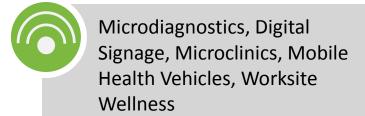
Diagnostic, therapeutic, communicative, remediative and with full EMR connectivity and linked to patient-specific care plans









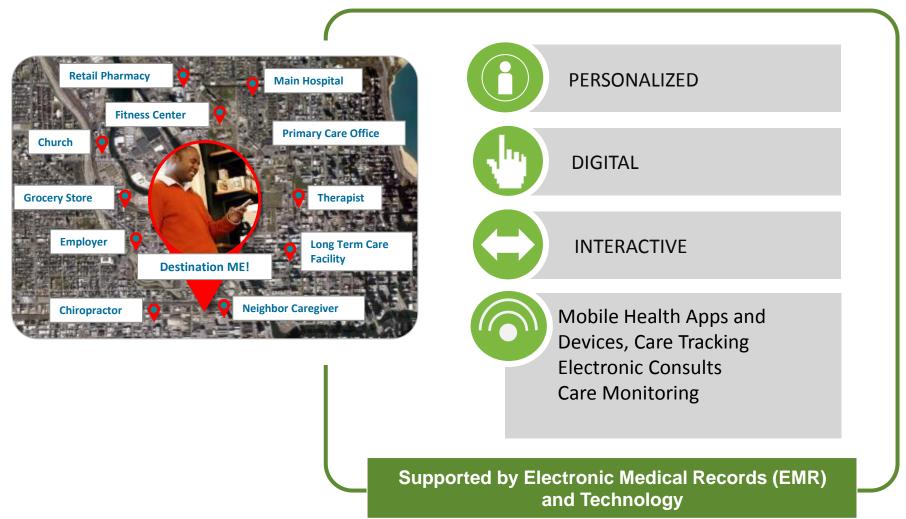


Supported by Electronic Medical Records (EMR) and Technology

Out and About



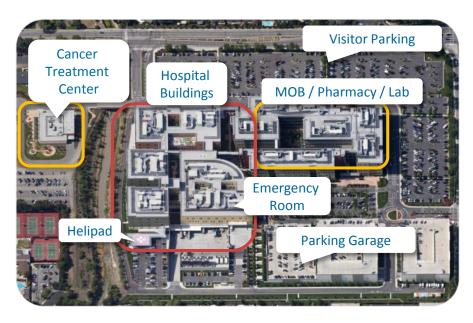
Digital Health will be available wherever you are, all of the time



Hospital



Traditional facility-based care





INTEGRATED



FACE TO FACE, LOCAL



COLLABORATIVE



Electronic Medical Records, Clinical Technology, Smart Surfaces, Interactive Patient Care, Virtual Nurse Assistants, Smart Beds

Supported by Electronic Medical Records (EMR) and Technology

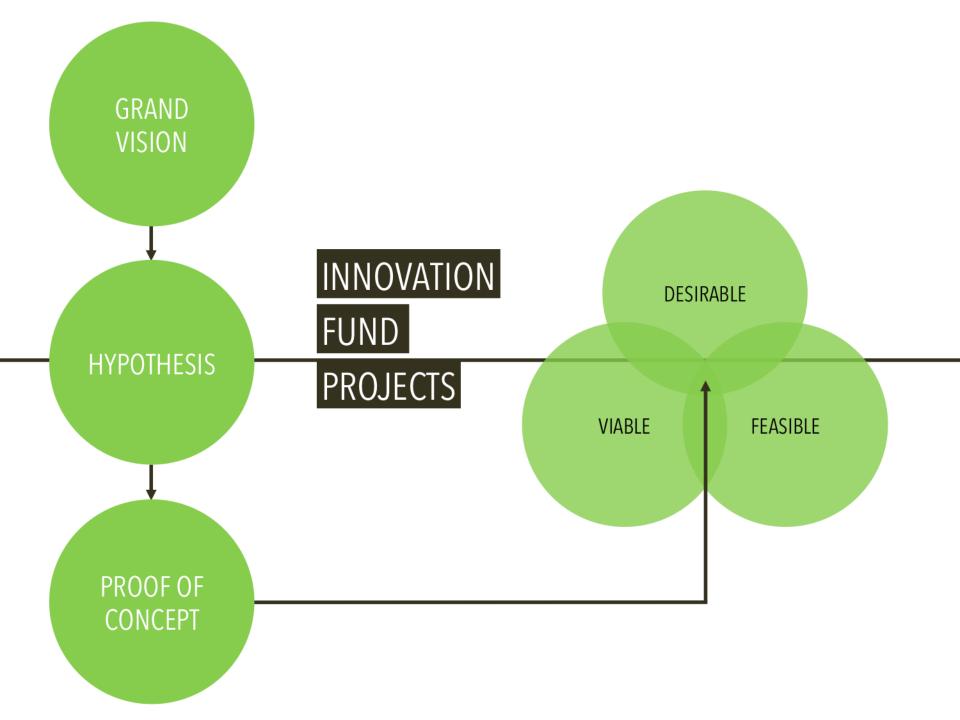
PEOPLE LOVE IMAGINING CARE ANYWHERE











Engagement Process: Innovation Fund for Technology



KP IT established an innovation fund in 2008 to bring innovation to the top of KP employees' minds by providing incentives and pathway to launch creative new ideas





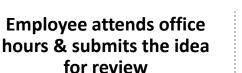


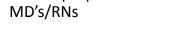


- 700+proposals received
- All regions represented









39% of proposals from

for review

- 32% from admin/business
- 24% from IT staff
- 5% Pharm/Lab









Projects screened by fund team and reviewed by Board for approval

Innovation fund provides capital and supports the program

83 projects funded

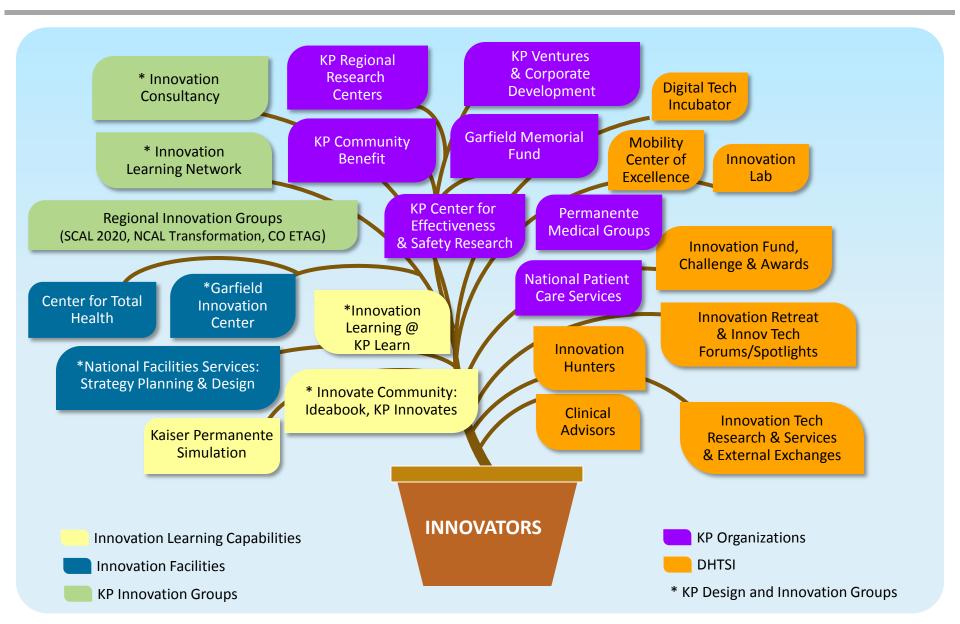
Program **Objectives**

- Support innovators from anywhere in KP
- Reinforce the importance of and accelerate innovation within KP
 - Focus on rapid prototyping, failing fast



Kaiser Permanente Innovation Ecosystem - sampling





External Innovation Exchanges



Knowledge sharing with innovators across industries

Open Innovation Exchanges are opportunities for Kaiser Permanente and other industry-leading organizations to exchange best practices and learn from one another about cultivating innovation within our corporate environments.

Details:

- Ideation sessions with Singularity Univ., Apple, Google, Parc, and PWC
- Upcoming: Kholsa Ventures



























The Innovation Learning Network



Challenges



COSt fraud integrity nonadherence weighting compliance evidence reimbursement synthesis data-mining interoperability standard-of-practice security technical-difficulties analytics EHR-integration service-level-agreement analytics prescriptive-analytics big-data confidentiality metrics prescriptive-analytics behavioral-drivers ethics meaningful-use behavioral-drivers ethics meaningful-use caregivers digital-divide maintenance reliability statistical-significance motivation risk

scalability

Heat Map: Rethinking the Care Model







Current Virtual Care Models











© Regenstrieff

© Sony

© Getty Images

© Kaiser Permanente

Live Video Consultation

Synchronous

Saves travel time

Improves access

Convenient

Everyone has to show up at the same time



Store & Forward

Asynchronous, send photo or video

Saves travel time and more efficient

Improves access

Convenient

Impersonal



Remote Monitoring

Monitor data

Early intervention

Saves travel time and more efficient

Convenient

Intrusive

Requires engagement



Guided Self Service

Personalized education and guidance

Social networks

Automated rulesbased supervision

Requires engagement



The innovation ecosystem



External Pressures + Internal Alignment=Innovation

Kiosks







© DynaTouch



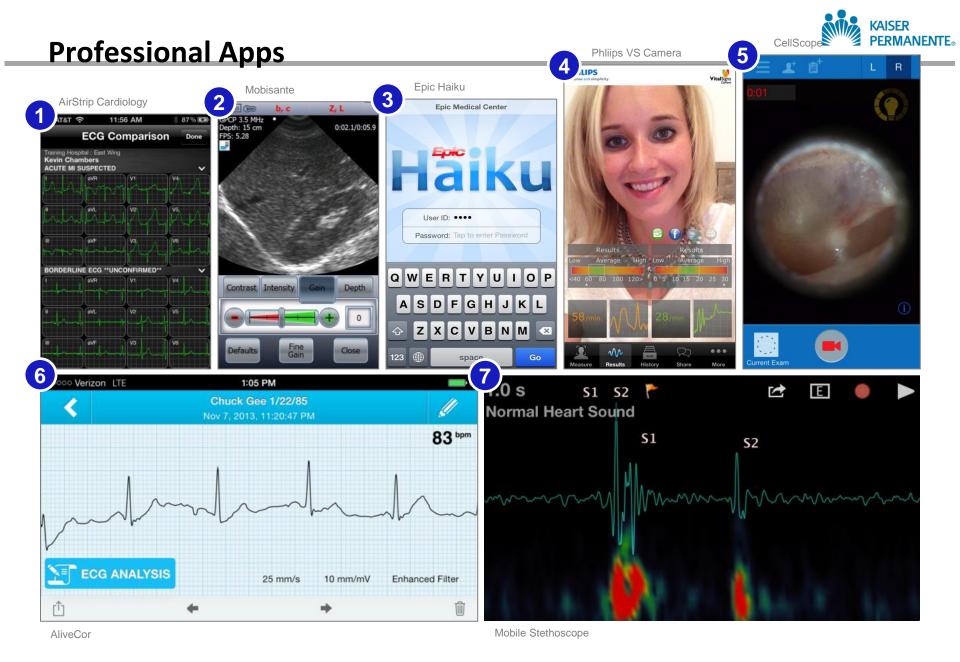


© Phoenix Kiosk





Mobile clinic © Kaiser Permanente



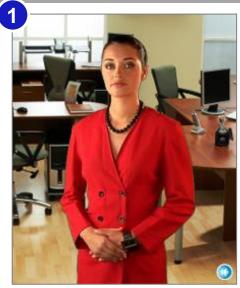
Specialized Sensors







Robots





Autom - weight loss coach © Intuitive Automata

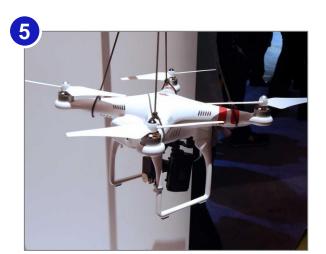
© InteliWISE



Paro – interactive baby harp seal



Legally blind driver in self-driving car @ Google



Phantom 2 Vision quadcopter © DJI





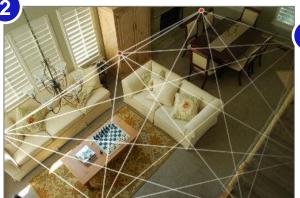
HD projector, audio, app-driven, room temp, CO₂, etc. © Keecker

Environmental Monitoring

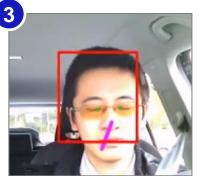




VS sensing at a distance © Kai Medical



Radio nodes for movement tracking © Xandem



CarSafe - drowsiness app © Dartmouth



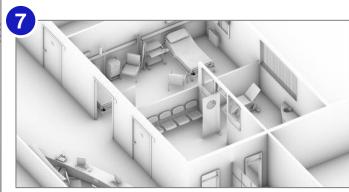
Buttocks ID - Adv. Inst. of Industrial Tech (Japan)



Under-mattress activity and VS sensing © EarlySense



LG - interactive mirror display © TechnoBuffalo

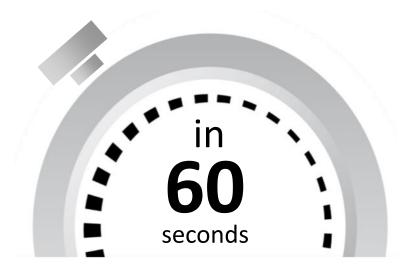


Real-time location system – RFID, Wi-Fi, ultrasound © Red Cell Innovation

The New Normal



Consumers live in a new, digital world and have come to expect the same experience with their health care



In today's digital world...

168,000,000+ emails sent

695,000+ Facebook status updates

370,000+ Skype calls

47,000+ apps downloaded from iTunes



What consumers want...

90 percent access to health info

83 percent access to personal medical info

72 percent manage their appointments

72 percent request prescription refills

...anytime, anywhere

So what is the future of healthcare?



In 2015 Uber, the world's largest taxi company owns no vehicles, Facebook the world's most popular media owner creates no content, Alibaba, the most valuable retailer has no inventory and Airbnb the world's largest accommodation provider owns no real estate.

CELEBRATE

INNOVATION

