

Global Health Challenges

Private Sector Innovations to Keep Us Healthy (while Profiting From Each Step We Take)

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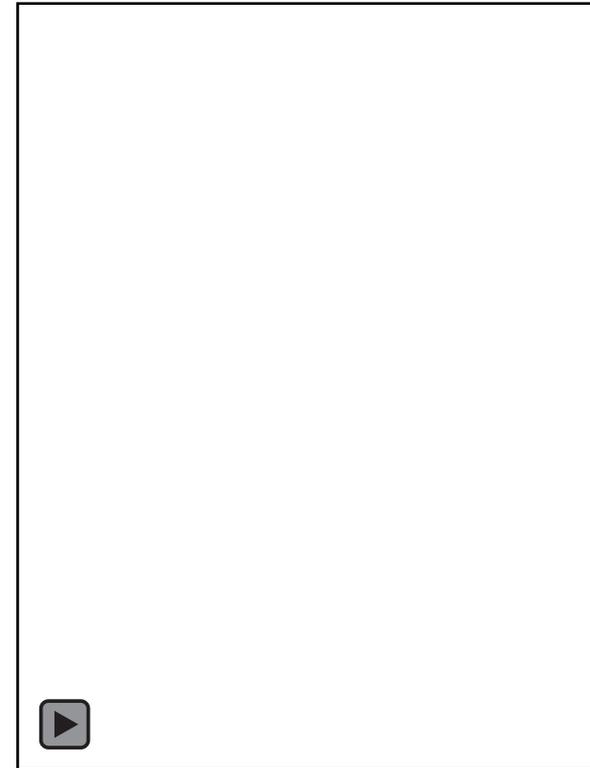
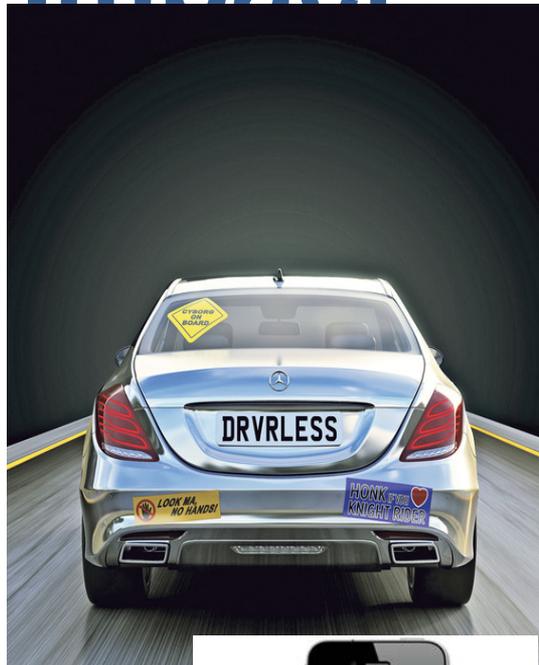


European
Network of
Living Labs



UNIVERSITÉ
DE GENÈVE

Tremendous Speed and Impact



\$3398
10MB

THE HARD DISK YOU'VE BEEN WAITING FOR

MORE SOFTWARE
Included with the system is software for testing, for CP-M[®] drivers for CP-M[®], plus an automatic formatting program. Support software and CP-M driver attach program. Support software and CP-M driver attach program. Support software and CP-M driver attach program.

WARRANTY
The system has a full one-year warranty on parts and workmanship.

ALSO AVAILABLE FROM XCOMP
General Purpose controllers (8 bit interface), with microprocessor based systems.

XCOMP introduces a complete micro-size disk subsystem with more...

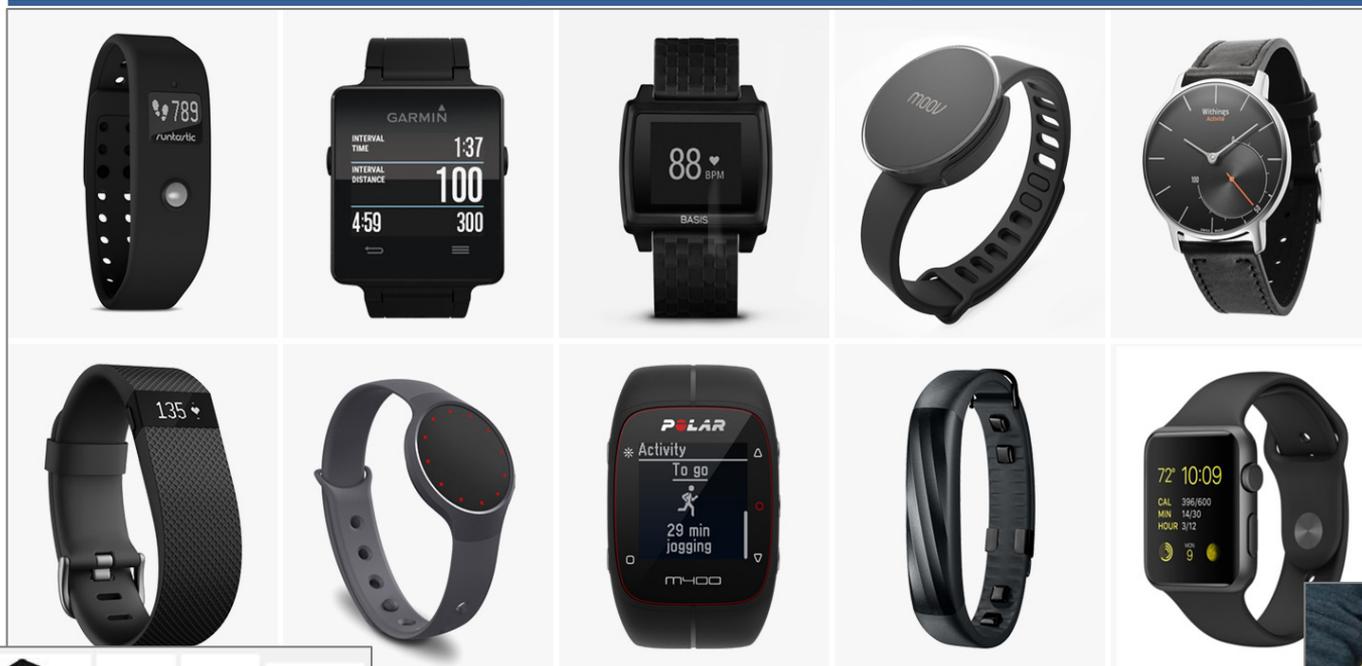
- MORE STORAGE
- MORE SPEED
- MORE VALUE
- MORE SUPPORT

\$100 users... The XCOMP subsystem is now available with 10 megabytes of storage; 5 megabytes also available at \$2,998.00. Compare the price and features of any other 8 1/4-inch or even 8-inch disk, and you'll agree that XCOMP's value is...

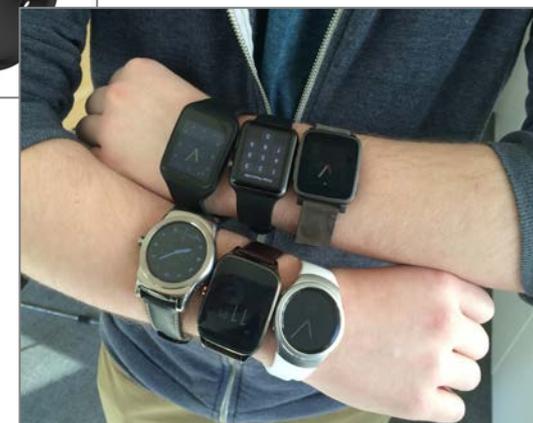


Digital Health for Healthy Lives and Wellbeing for All
A high-level Policy Dialogue on Digital Health
Geneva, 23-24 May 2016

Bracelets, Bands, Smart Watches (And Weight Scales)

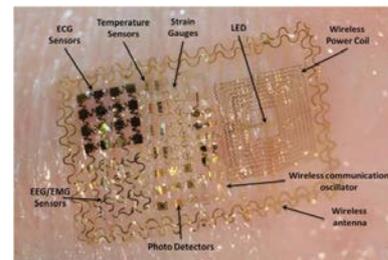


Steps (kcal)
Activities
Sleep
HR, Temp, GSR
Phone notifications



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Keeping Us Engaged



Digital Health for Healthy Lives and Wellbeing for All
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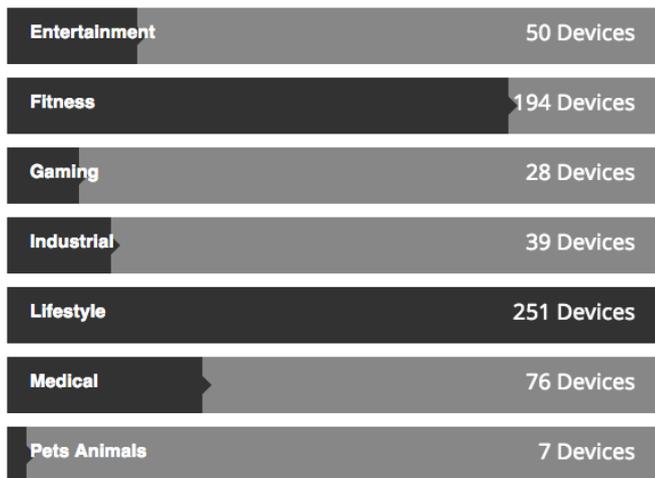
WEARABLE TECH MARKET

433 NUMBER OF DEVICES

\$290 AVERAGE PRICE (USD)

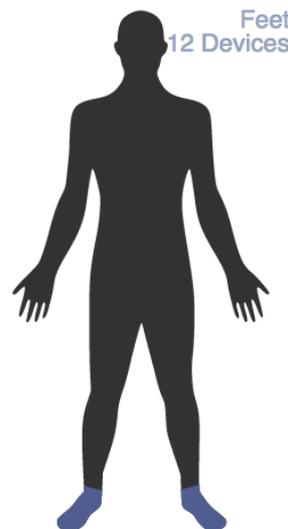
ACCELEROMET MOST POPULAR COMPON

AREAS OF MARKET FOCUS



Note: Some devices fall into more than one category.

DEVICES BY LOCATION



Note: Click on an area of the body.

THE IDEAL WEARABLE DEVICE



WEARABLE

Device must be worn on the body throughout its use; it should not be carried.



CONTROLLABLE

Device must be controllable by the user; this could be done either actively or passively.



ENHANCING

Device must augment knowledge, facilitate learning or enhance experience.

The following is a list of devices used for medical care. The devices are used for medical exams.

CODE4A
WORN ON THE WRIST AND USED FOR FITNESS APPLICATIONS.
The Code4A is a smartwatch with NFC-capable features.

MONICA
WORN ON THE WRIST AND USED FOR FITNESS APPLICATIONS.
This small, voice-enabled smartwatch has no belt.

OM BRA
WORN ON THE TORSO AND USED FOR FITNESS, MEDICAL AND ENTERTAINMENT APPLICATIONS.
The OMBra is a high-performance sports Bra that records heart rate for fitness and everyday use. The wearable device...

EMPATICA
WORN ON THE WRIST AND USED FOR ENTERTAINMENT, FITNESS AND GAMING APPLICATIONS.
The E4 wristwatch is extremely accurate and has voice and gesture control. The...

EMPATICA
WORN ON THE WRIST AND USED FOR ENTERTAINMENT, FITNESS AND GAMING APPLICATIONS.
The Embrace Bluetooth smartwatch is a smart watch designed from the start as a IP66 water resistant and it has a built in...

QMEDIC
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The QMedic smartwatch is a "3-in-1 wireless activity tracker" with a convolutional neural network for logging your calories, steps, meals, and sleep...

INSULET
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The Omnipump is an insulin pump that is able to be used with a smartphone.

BODYTE
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The Pressur is a smartwatch that is able to be used with a smartphone.

QUELL
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The Quell is a smartwatch that is able to be used with a smartphone.

NOVII W
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The Monica is a smartwatch that is able to be used with a smartphone.

UNALIW
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The Kanega is a smartwatch that is able to be used with a smartphone.

TZOA EN
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
TZOA is the successor to the Garmin Vivosmart HR also offers heart rate tracking, the Vivosmart HR also offers heart rate...

SMART D
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The Smart Device is a smartwatch that is able to be used with a smartphone.

NETATM
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The Netatm is a smartwatch that is able to be used with a smartphone.

SUNFRIE
WORN ON THE WRIST AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The SunFrie is a smartwatch that is able to be used with a smartphone.

The following is a list of devices that have been geared towards fitness applications. Fitness applications are defined as providing sports-related and/or non-sports-related benefits to the user. This includes activity monitors and heart-rate monitors. The devices are used for fitness and lifestyle applications.

KINEMATIX TUNE
WORN ON THE FEET AND USED FOR FITNESS APPLICATIONS.
TUNE is a unique wearable device for runners providing real-time information on your running form. It makes visible the often...

INBODY
WORN ON THE WRIST AND USED FOR FITNESS APPLICATIONS.
The InBody Band is a wearable device that tracks the steps, calories you burn and your active time. It uses...

OM BRA
WORN ON THE TORSO AND USED FOR FITNESS, MEDICAL AND ENTERTAINMENT APPLICATIONS.
The OMBra is a high-performance sports Bra that records heart rate for fitness and everyday use. The wearable device...

OMATE TRUESMART+
WORN ON THE WRIST AND USED FOR ENTERTAINMENT, FITNESS AND GAMING APPLICATIONS.
The Omate TrueSmart is a wearable smartwatch with cellular connectivity, resistant and has voice and gesture control. The...

MYKRONOZ ZESPLASH2
WORN ON THE WRIST AND USED FOR FITNESS & LIFESTYLE APPLICATIONS.
The ZeSplash2 is a smart watch designed from the start as a IP66 water resistant and it has a built in...

IFIT VUE
WORN ON THE WRIST & BODY (ANYWHERE) AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
The iFit Vue is a "3-in-1 wireless activity tracker" with a convolutional neural network for logging your calories, steps, meals, and sleep...

MYKRONOZ ZEFIT2 PULSE
WORN ON THE WRIST AND USED FOR FITNESS & LIFESTYLE APPLICATIONS.
MyKronoz's ZeFit2 pulse is the upgraded version of the ZeFit2. It features, but with heart rate monitoring. The ZeFit2...

MYKRONOZ ZEFIT2
WORN ON THE WRIST AND USED FOR FITNESS & LIFESTYLE APPLICATIONS.
MyKronoz's ZeFit2 is the second version of MyKronoz's ZeFit2. It features a touchscreen that can display the time, number of steps,...

CHIARO ELVIE
WORN ON THE PELVIS AND USED FOR FITNESS APPLICATIONS.
Elvie is a high tech wearable device for personal fitness and health. It is accompanied by an app to provide women with real-time guidance...

JAWBONE UP
WORN ON THE BODY (ANYWHERE) AND USED FOR FITNESS AND LIFESTYLE APPLICATIONS.
UP is a wearable device that allows tracking of the user's sleep activity, including steps taken and calories...

EMPATICA EMBRACE WATCH
WORN ON THE WRIST AND USED FOR FITNESS, LIFESTYLE AND ENTERTAINMENT APPLICATIONS.
The Embrace watch is a wearable device which is linked to a smartphone via Bluetooth connection. This device has event detection,...

GARMIN VIVOSMART HR
WORN ON THE WRIST AND USED FOR LIFESTYLE & FITNESS APPLICATIONS.
The Garmin Vivosmart HR is the successor to the Garmin Vivosmart HR tracking, the Vivosmart HR also offers heart rate...

MOTO 360 SPORT
WORN ON THE WRIST AND USED FOR FITNESS APPLICATIONS.
The Moto 360 Sport is Motorola's new fitness focused smartwatch with a large display and the same robust functionality as the...

VOICE CADDIE D1
WORN ON THE WAIST AND USED FOR FITNESS APPLICATIONS.
The Voice Caddie D1 is a wearable device that can be clipped to a belt. It provides voice caddie course guidance systems like the VC300...

VOICE CADDIE VC100
WORN ON THE BODY (ANYWHERE) AND USED FOR FITNESS APPLICATIONS.
The Voice Caddie VC100 is a wearable device that can be clipped to a belt. It provides voice caddie course guidance systems like the VC300...

Angels...



- Design Principles

- Miniaturized, wearable, (always) connected wirelessly, waterproof
- ~ Personalized, fashionable
- ~ Easier to use, relatively cheap
- ~ Battery-efficient
- Gamification to increase “compliance” (→ smartphone)
- Towards: actionable feedback addressing psychological biases
 - e.g., myopia (“short-term vs. long-term” state)
 - overconfidence (“not me”)



...or Devils?

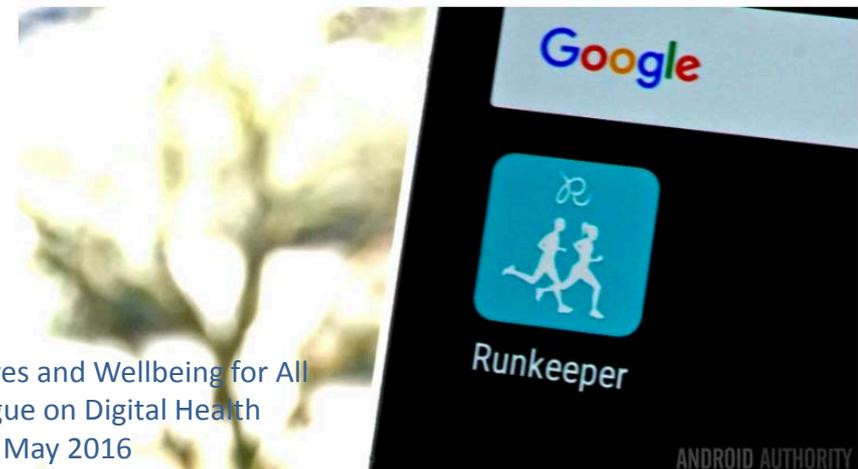


- “Colonization phase”
 - Unreliable (‘what is a step?’) vs. ground truth
 - Data is locked in, not standardized, no interoperable
 - Privacy & Security: tracking you anywhere, selling data for profit
 - Not clinically validated (vs. liability, standardization)
 - Diagnosis, rehabilitation, treatment support?

Runkeeper is secretly tracking you around the clock and sending your data to advertisers

by: KRIS CARLON
MAY 13, 2016

1.4K
shares



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