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# I SING THE BODY ELECTRIC

Wearable Technology for  
Health and Medicine,  
Now and in the Future



*Health Tech Insider*

THE INSIDE WORD ABOUT MOBILE HEALTH TECHNOLOGY

Presentation for BCUG 9/18/15  
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# I SING THE BODY ELECTRIC

Alfred Poor, PhD, Editor



Health Tech Insider

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# Notes About These Slides

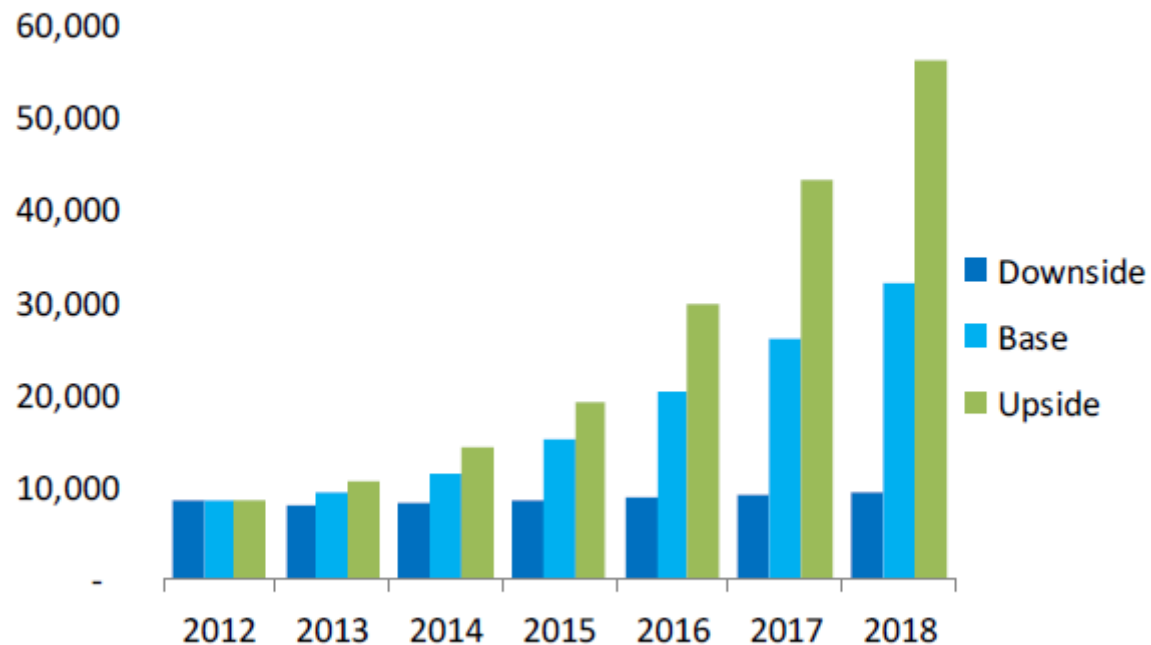
These are the slides that I used to accompany my presentation to the Brookdale Computer Users Group on September 18, 2015.

All of the items mentioned on these slides are covered by articles on **Health Tech Insider**, at [www.healthtechinsider.com](http://www.healthtechinsider.com).

# The Next BIG THING!

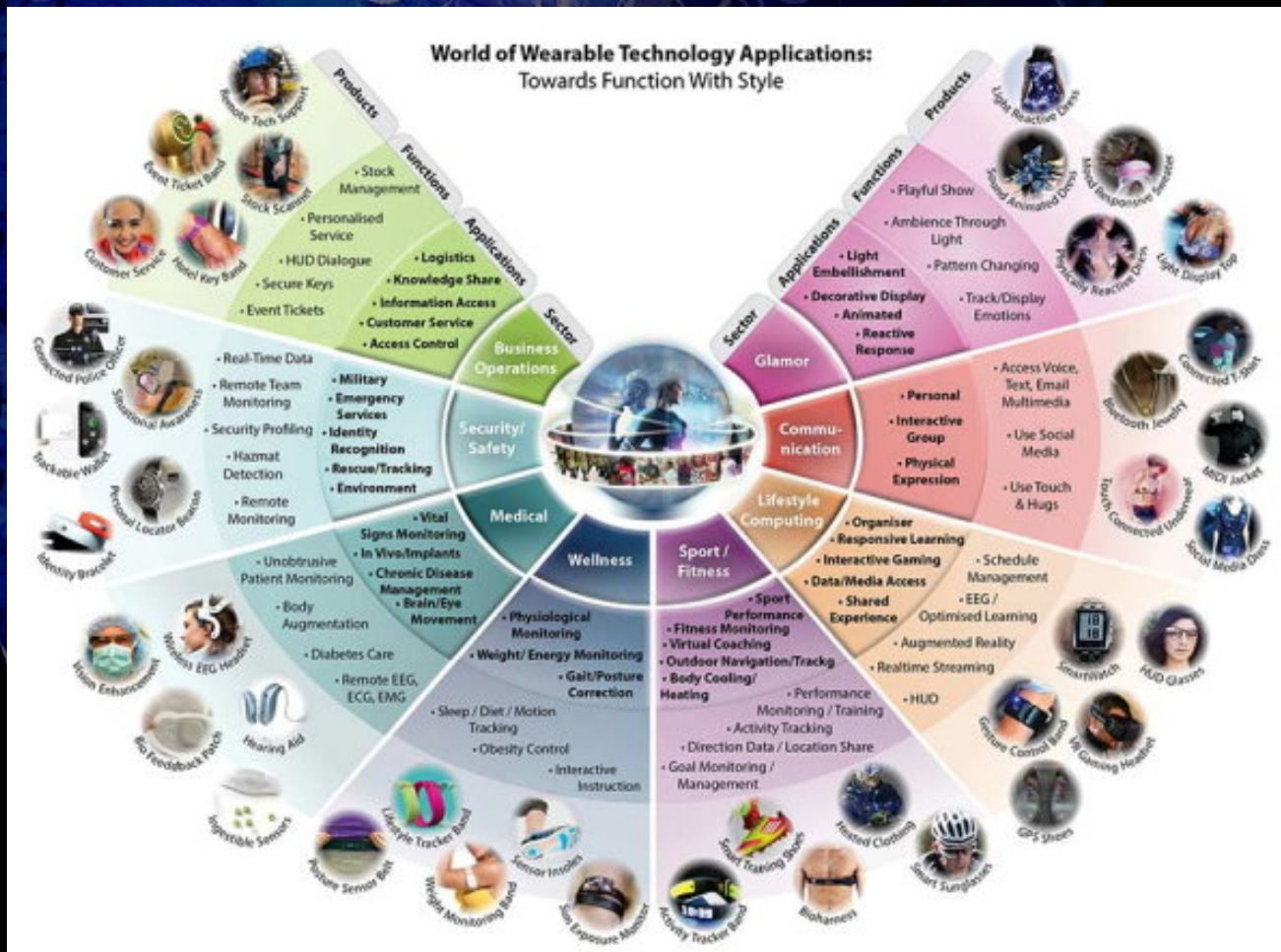
## Preliminary Scenario Forecast - Wearable Technology

Millions \$US



Source: IHS Inc. September 2013

# Making Sense of the Market



# Making Sense of the Market



## What we cover:

- Primarily wearable devices (some “just” mobile)
- “Beyond” the fitness band
- Health applications
- Medical applications
- Enabling technology

# Beyond the Fitness Band





# Beyond the Fitness Band



# Health



# Health



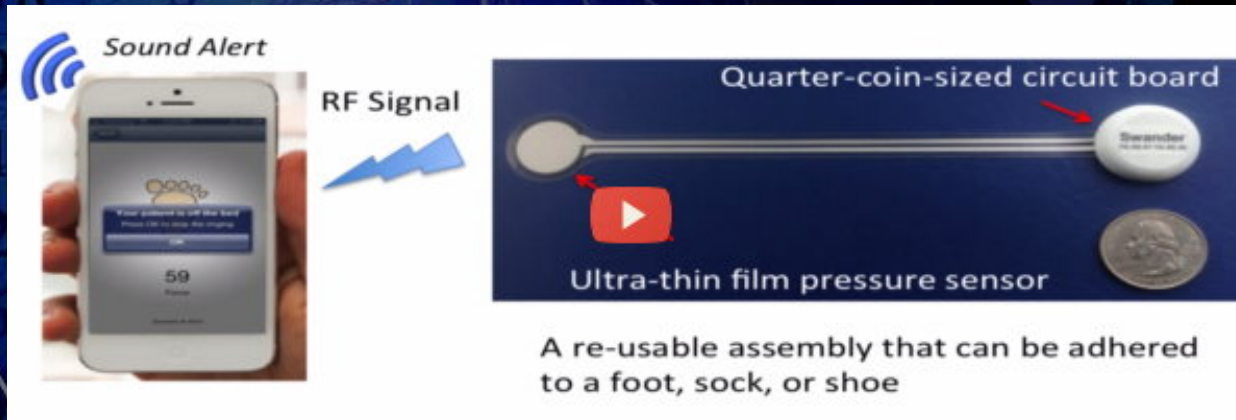
# Health



# Health



# Health



**Sound Alert**

RF Signal

Quarter-coin-sized circuit board

Ultra-thin film pressure sensor

A re-usable assembly that can be adhered to a foot, sock, or shoe

The image is a composite graphic. On the left, a hand holds a white smartphone displaying a notification titled "Sound Alert" with a speaker icon and the text "Your system is off the line! Please call us now. An engineer is on the way." Below the notification, the number "59" is visible. To the right of the phone is a blue lightning bolt icon labeled "RF Signal". Further right is a dark blue rectangular area containing a "Quarter-coin-sized circuit board" which is a long, thin strip with a circular sensor at one end and a coin at the other for scale. A red arrow points to the sensor, which is labeled "Ultra-thin film pressure sensor". A red play button icon is overlaid on the circuit board. Below this area, text reads "A re-usable assembly that can be adhered to a foot, sock, or shoe".

# Health



# Health





# Health



# Medical



# Medical



# Medical

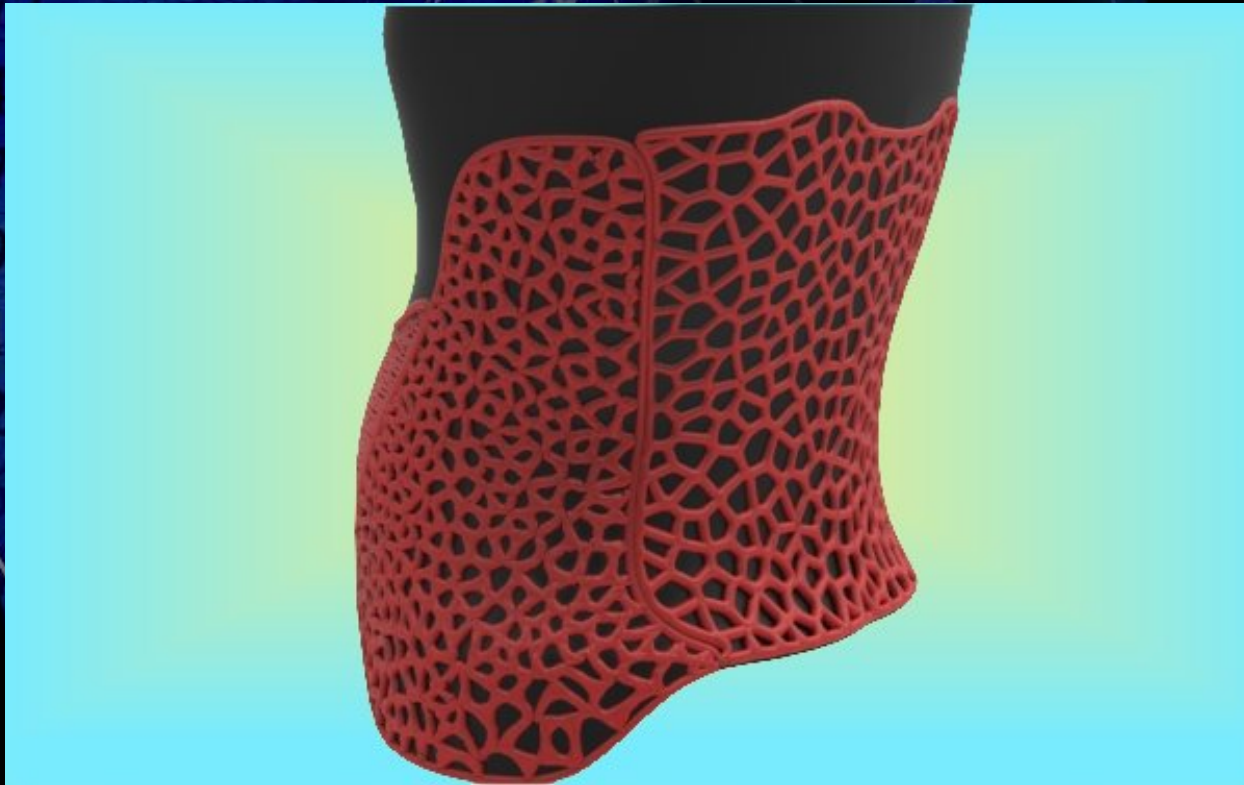


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# Medical



# Medical



# 3D Printing

# Medical



# Medical

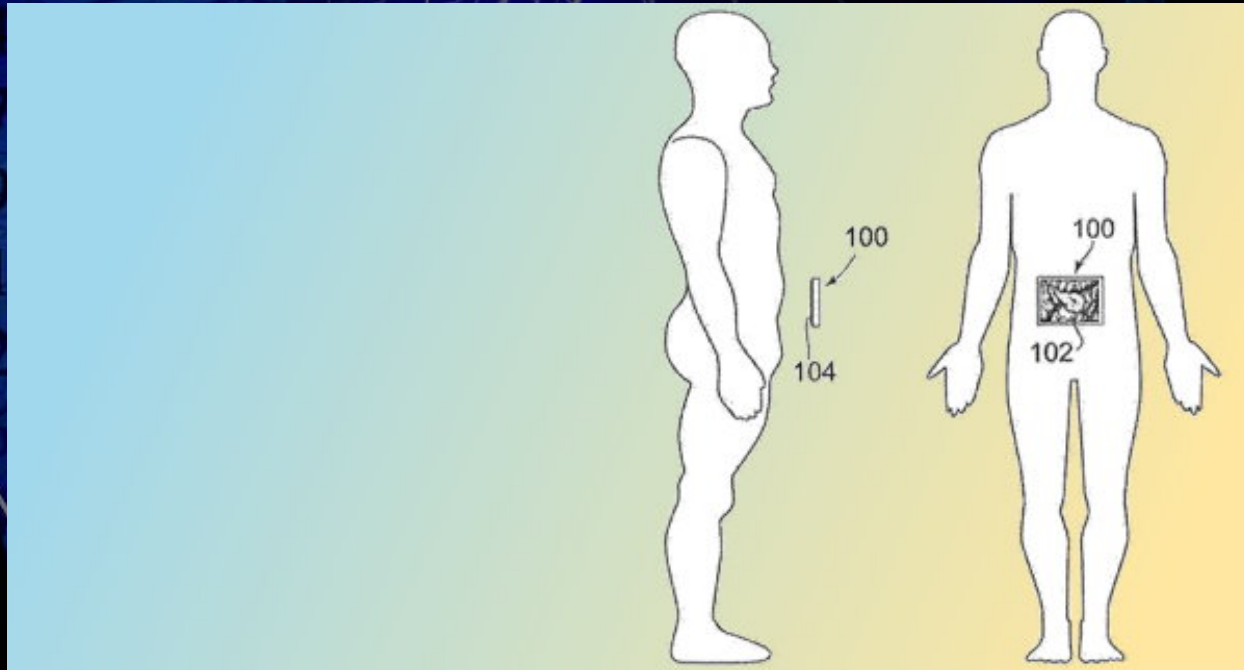




# Medical



# Medical



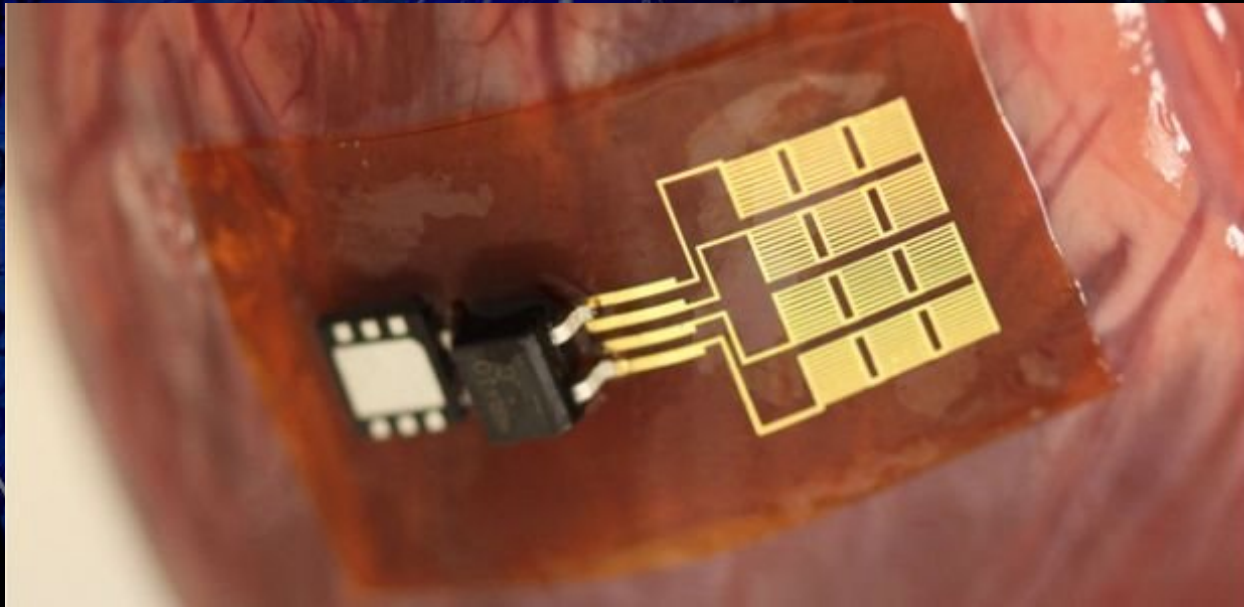
# Medical



# Enabling Technology



# Enabling Technology

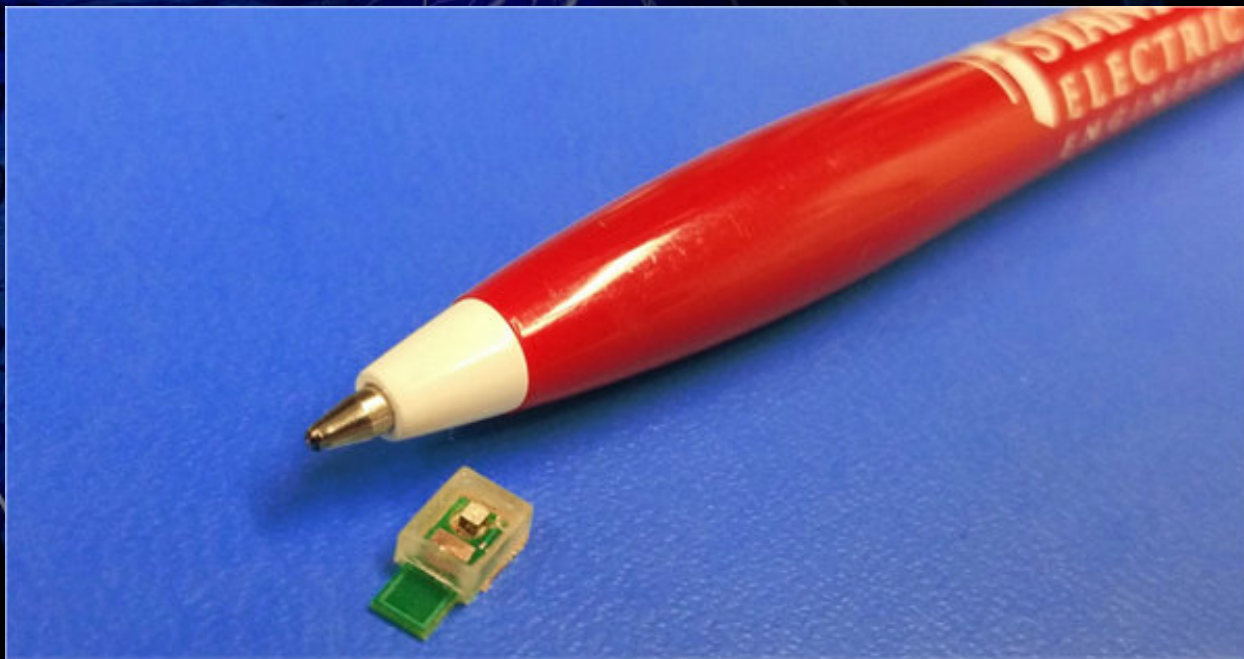


# Enabling Technology

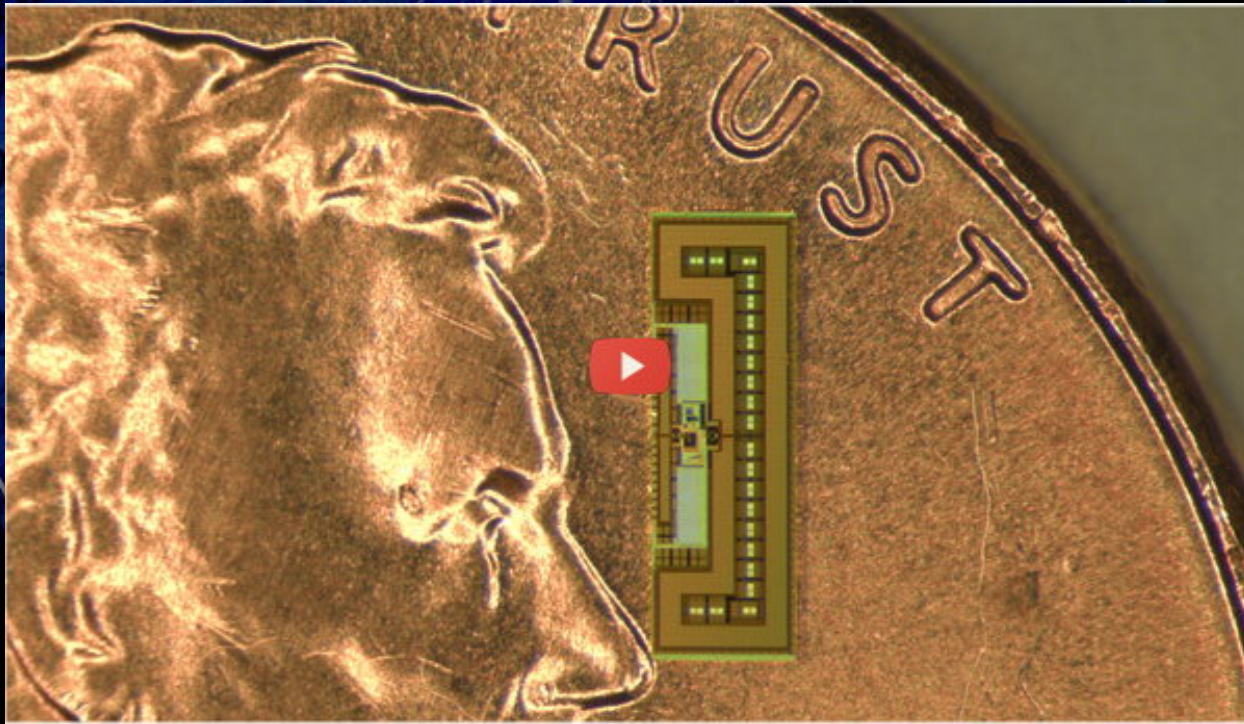
**KAIST**



# Enabling Technology



# Enabling Technology

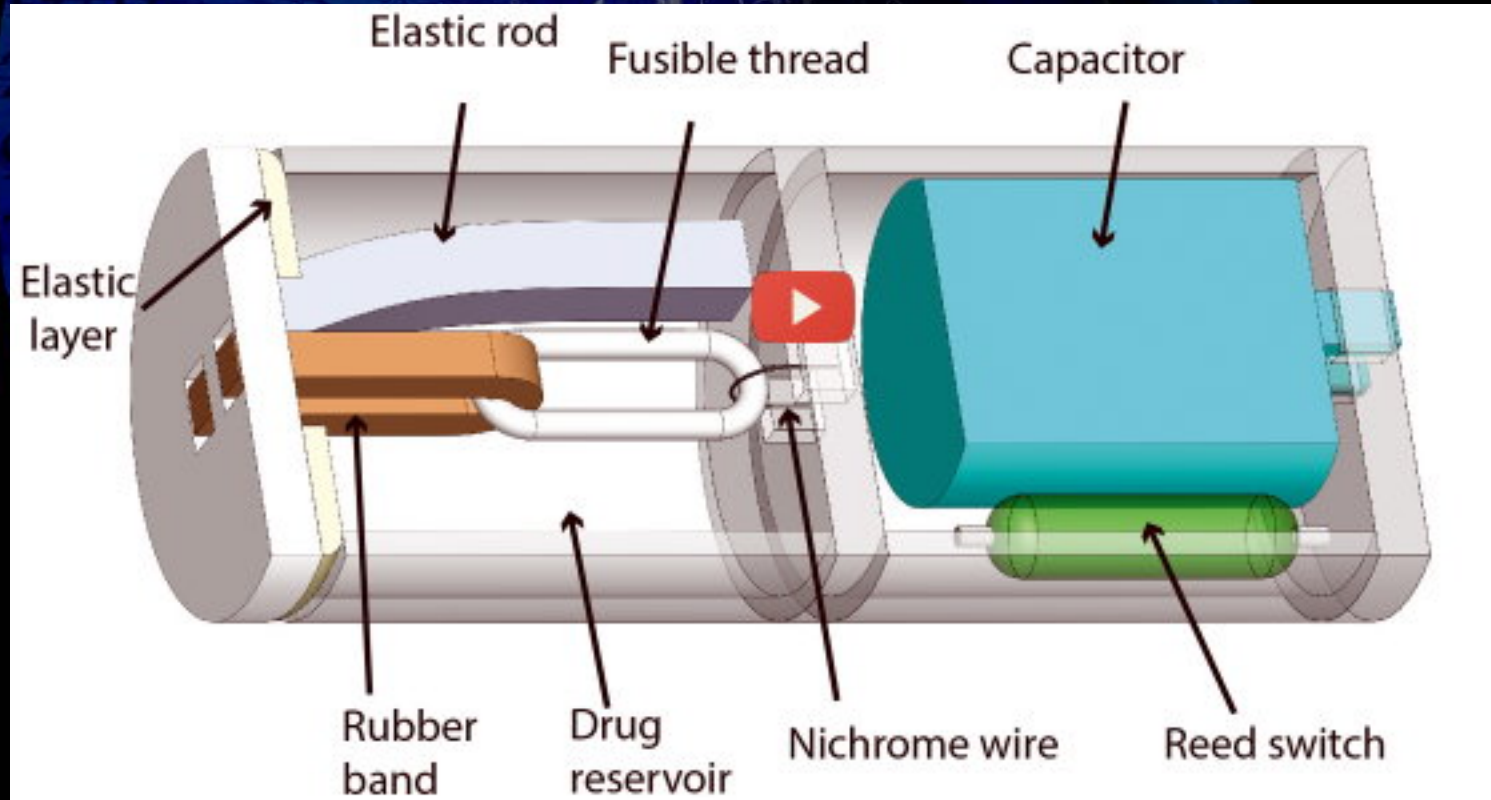




# Enabling Technology



# Enabling Technology



# Applications



# Applications



Courtesy of Argo Medical Technologies

# Applications



High-definition Camera



Digital Processing



Near-to-eye Screens



# Applications



# Applications



**Multiple Attachments**  
Fork, soup spoon, keyholder,  
and more are coming soon.

**Battery**

Ultra-thin rechargeable  
battery will last for  
several days on a charge.

**Stabilizing Technology**

Cutting-edge electronics will  
work to actively detect and  
stabilize your tremor.

# Roll Your Own





# Roll Your Own



# Any Questions?



Want More?



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[www.thecenterforsmallbusiness.com](http://www.thecenterforsmallbusiness.com)

**Available to speak at association meetings**

# The Wearable Revolution

- ▣ More data about individuals and populations
- ▣ Better identification and diagnosis
- ▣ More effective treatments
- ▣ Better outcomes
- ▣ Lower healthcare costs

**The Bottom Line:**

**People will live longer and healthier lives.**



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