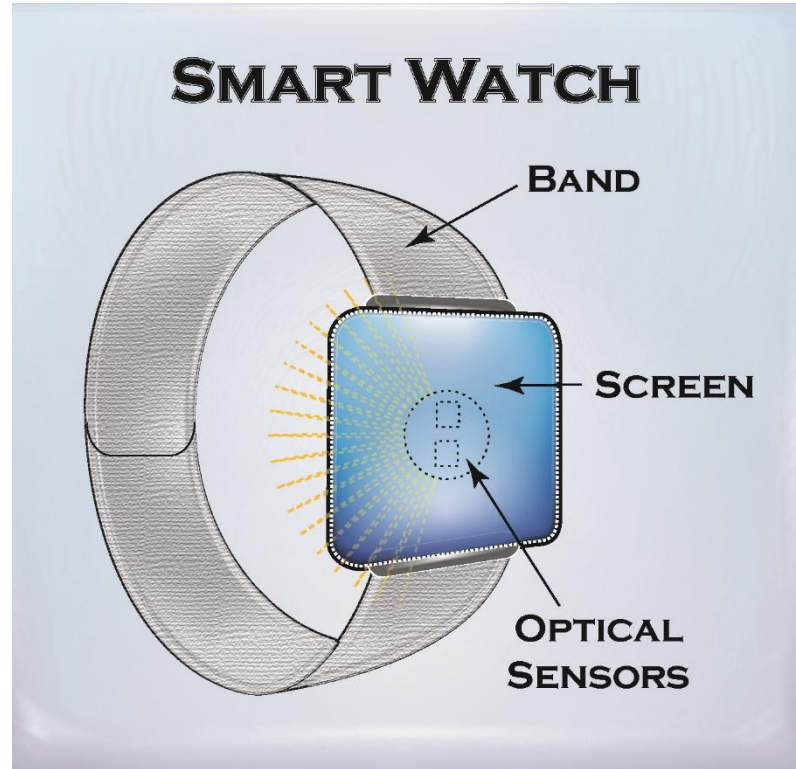
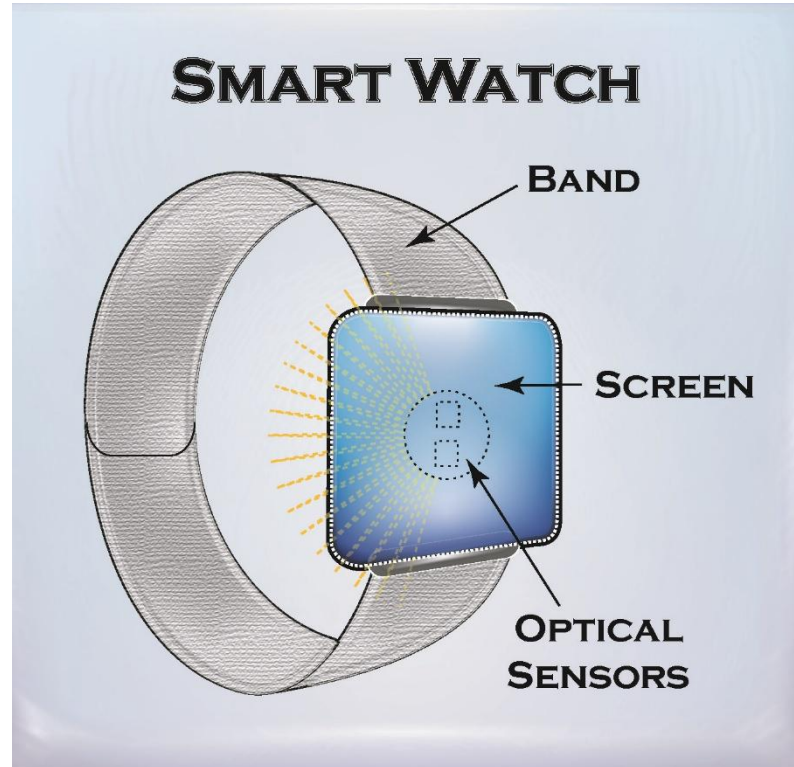


**How Could
Smart Watches
Replace Phones?**



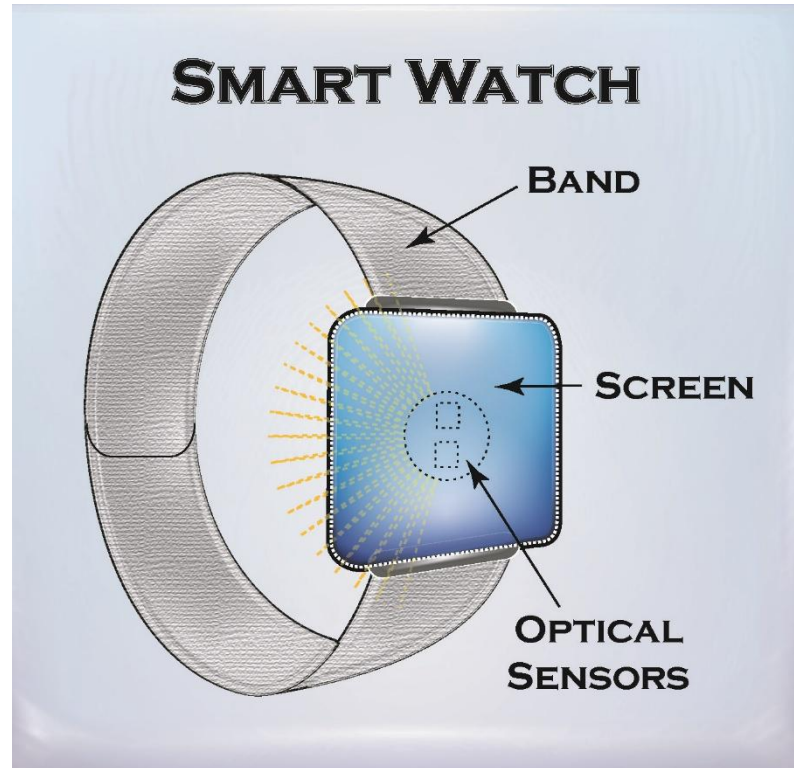
Key Watch Components:

- ◆ Screen
- ◆ Band
- ◆ Sensors (Optical, Motion, and EM)



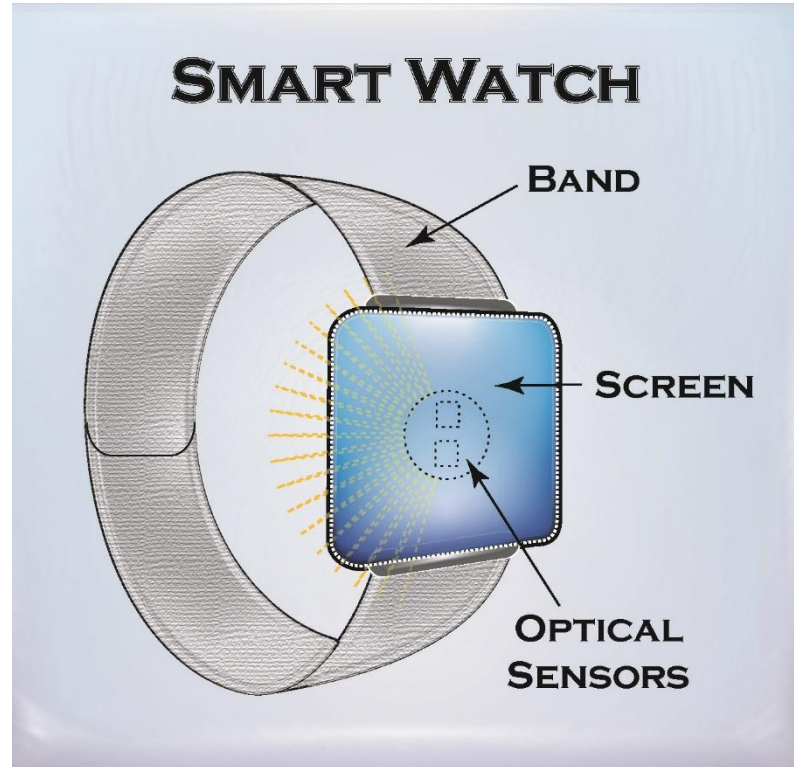
Smart Watches Have Some Advantages Over Phones:

- ◆ Continuous Biometric Sensing
- ◆ Hands-Free Portability



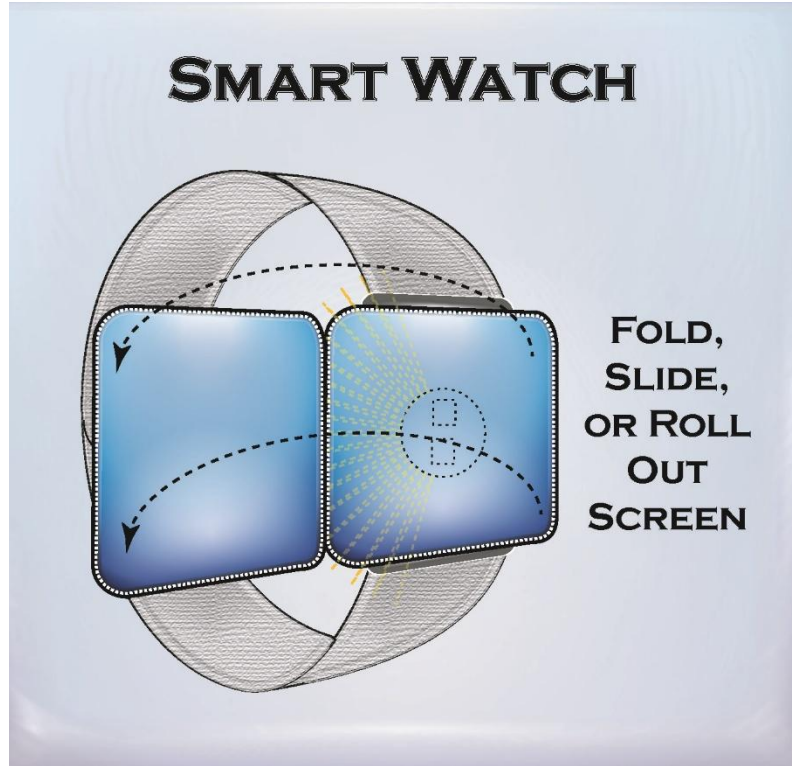
Some Hardware Challenges for Smart Watches:

- ◆ Small Screen Size
- ◆ No Outward-Facing Camera
- ◆ Shifting Band and Air Gaps



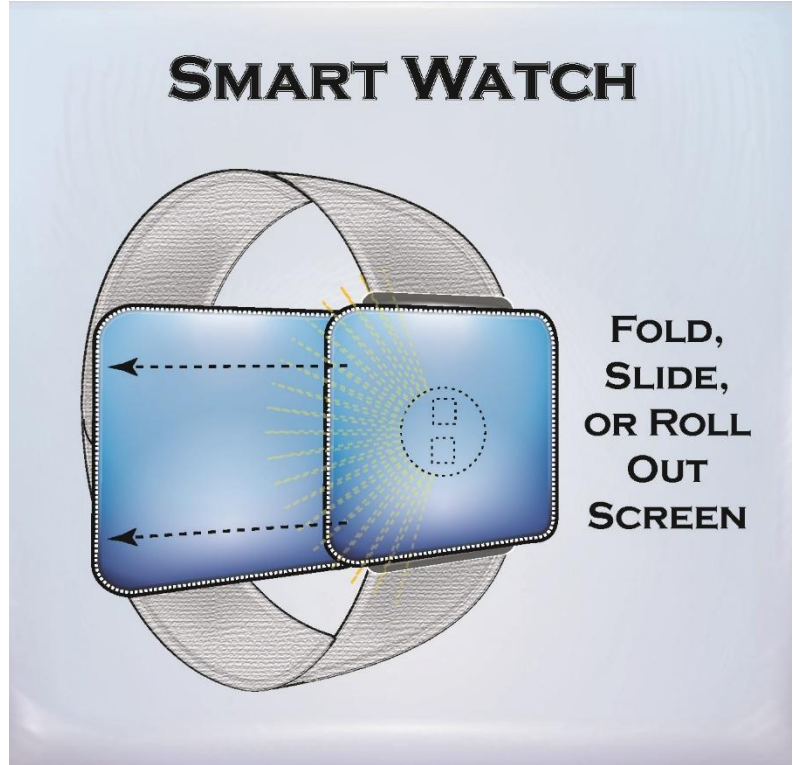
Addressing Small Screen:

◆ Flip Out
or Fold Out
Extendable
Screen



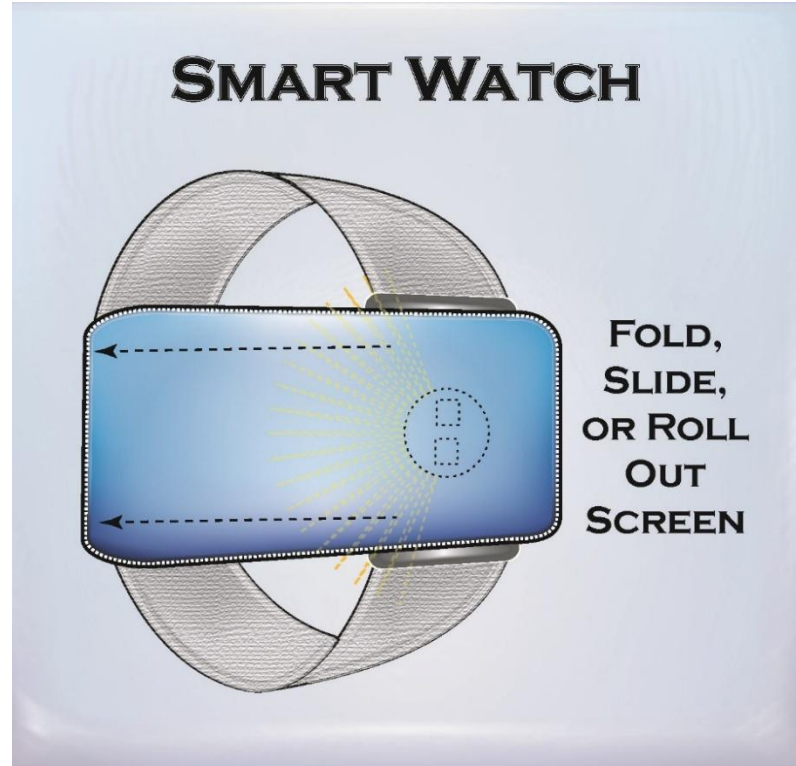
Addressing Small Screen:

- ◆ Slide Out
Extendable
Screen



Addressing Small Screen:

- ◆ Continuous (Roll Out)
Extendable
Screen



Addressing Camera:

- ◆ Camera on
Ventral Side
of Band



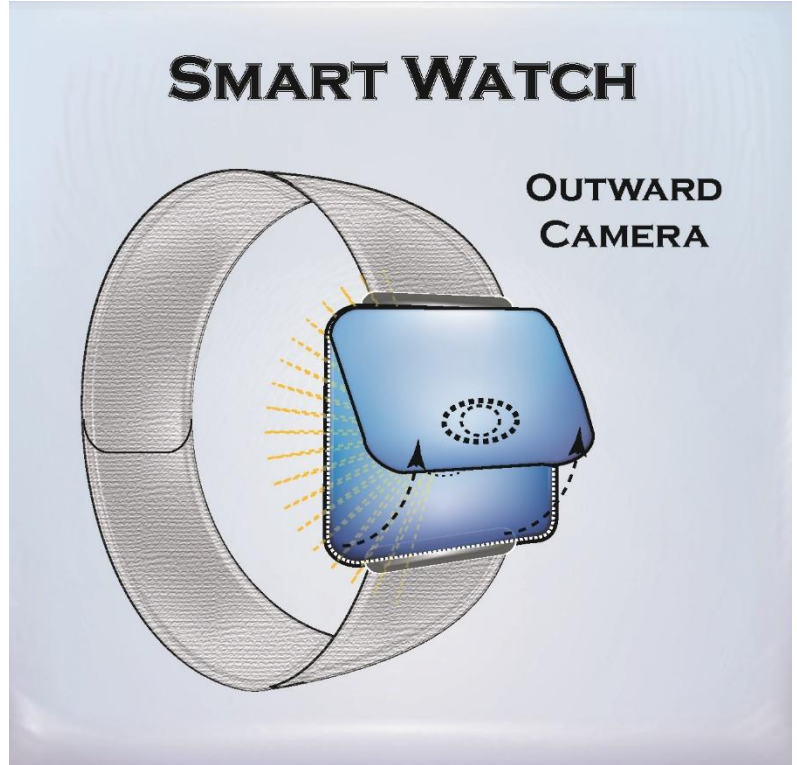
Addressing Camera:

- ◆ Camera on
Band Between
Dorsal and
Ventral Sides



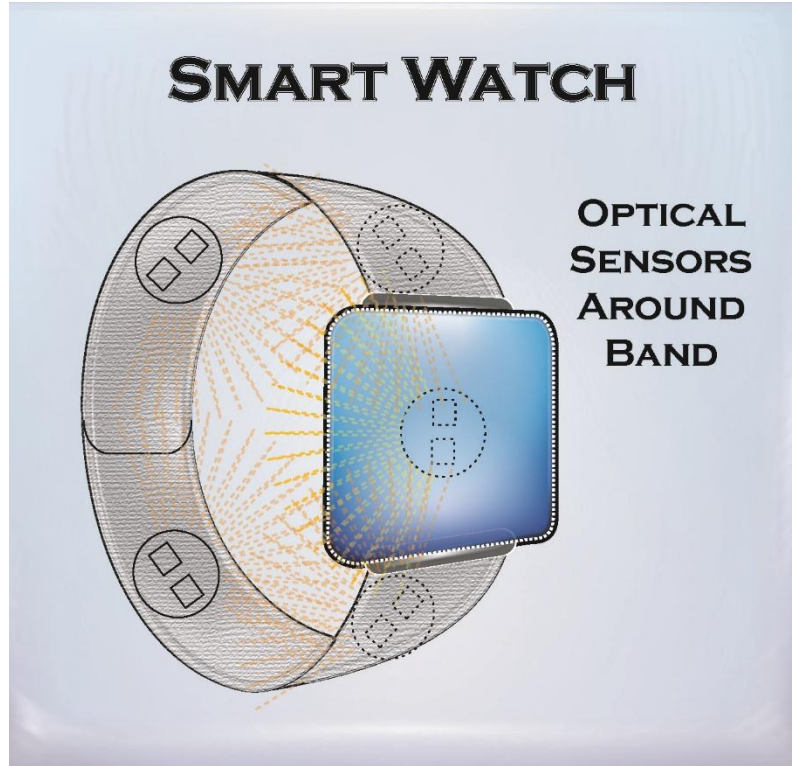
Addressing Camera:

- ◆ Flip Up or Tilt
Out Camera



Addressing Shifting Band and Air Gaps?

- ◆ Optical Sensors Around the Circumference
- ◆ Compressible Layer or Auto-Adjusting Size



**What Will Replace
Smart Phones?**

Smart Watches?

Smart Rings?

Smart Glasses?

Nothing?

