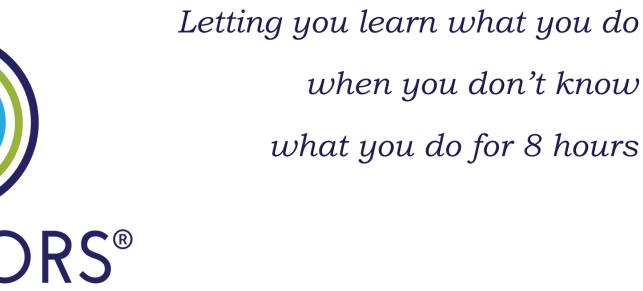
Sleep sensing





Know Yourself

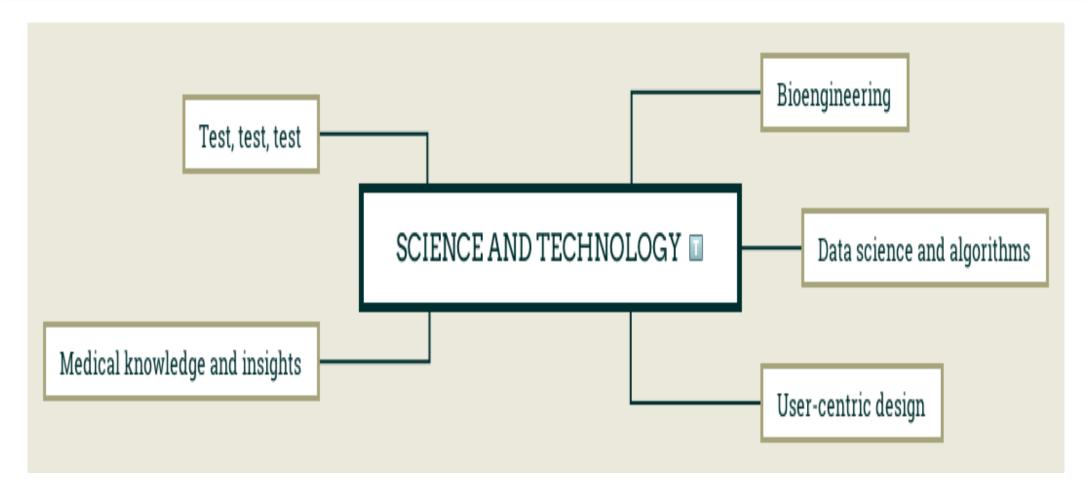


Zansors is...

- A personal health analytics company
- Helping you know yourself
- Using tools, not toys
- Creating evidence-based products



Zansors is ...





Sleep, the next frontier

- When you sleep, you can't observe yourself
- You need tools to learn about your sleep
- We recognize that sleep is extremely important to health



Sleep problems

- Apnea
 - over 80% undiagnosed
 - Implicated in heart disease, heart failure, stroke
 - Obvious impact on productivity
 - How do you comfortably measure apnea?
- Insomnia
 - How do you know how much you've really slept?
- Snoring
 - Risk for high blood pressure
 - Impacts during pregnancy
 - Treatable.



Sleep apnea, or not breathing for a while

• Not breathing for at least 10 seconds, at least 5-10 times per hour

- Need to figure out if you're doing it
- Usually bed partner complains of snoring and disturbed sleep
- No one really wants to get tested
 - Costs \$1-3 K



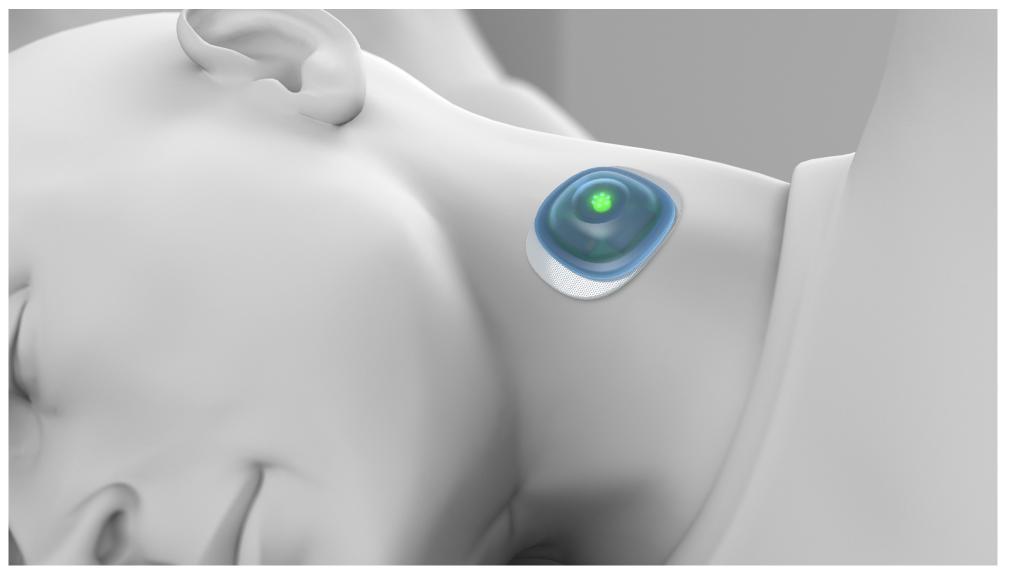








New world of sleep screening



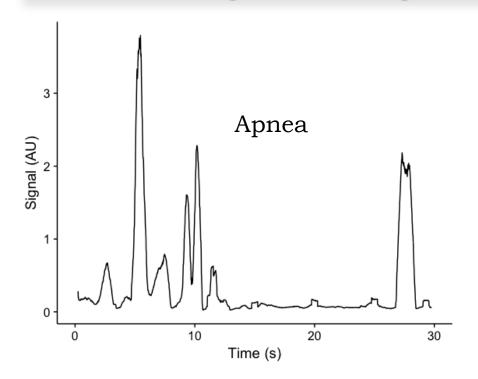
New world of sleep screening

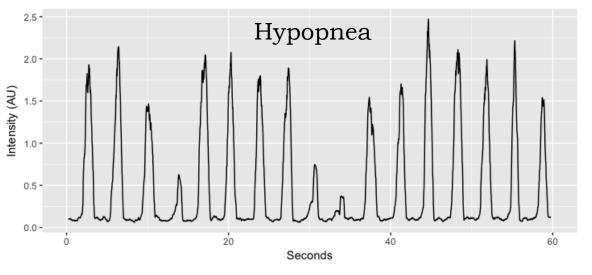
- Recording sleep "in the wild"!!
- Using sound and motion

- Leveraging signal processing and algorithms
- Bluetooth connectivity
- Potential for other sensors



Looking for signatures







Test, Test, Test

- Based on NIH/NIMHD STTR funding (Phase I + II)
- Collaborating with University of Michigan Sleep Center
- Going head to head with
 - Polysomnography (inpatient sleep study)
 - Home sleep testing
- Phase I showed 80% specificity to detect apneas (50+ patients)
- Phase II will look at 100+ patients
 - Accuracy
 - Usability



Insomnia

How efficiently you sleep is crucial

Need to know when you go to sleep, when you wake up

•How do you do that yourself?!!



Insomnia

• Next generation treatment delivery

Cognitive behavioral therapy

Through mobile apps



Our playground

- Alcohol and drug sensing (funded by NIAAA)
 - Blood
 - Sweat
- Microneedle glucose monitoring in neonates (funded by NICHD)
- Smoking tracking and cessation apps
- Secure telemedicine and analytics (funded by NCI)



Our vision and path

Create tools, not toys

 Make sure we can ensure quality and trust through validation and peer review

• Create quality, reliable, accurate products



Our vision and path



Know Yourself



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