

nox medical



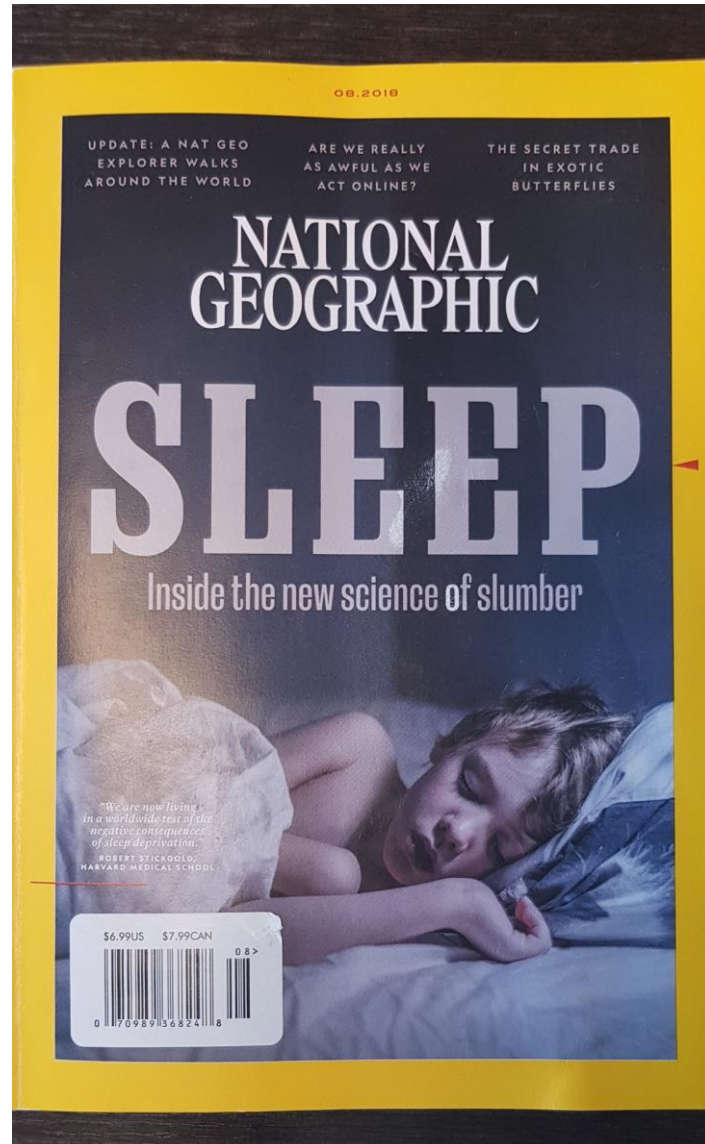
MÓTUM FRAMTÍÐINA SAMAN

Framtíðaráskoranir

Harpa 7. nóv 2018

*Pétur Már Halldórsson
Nox Medical*

National Geographic (August issue 2018)

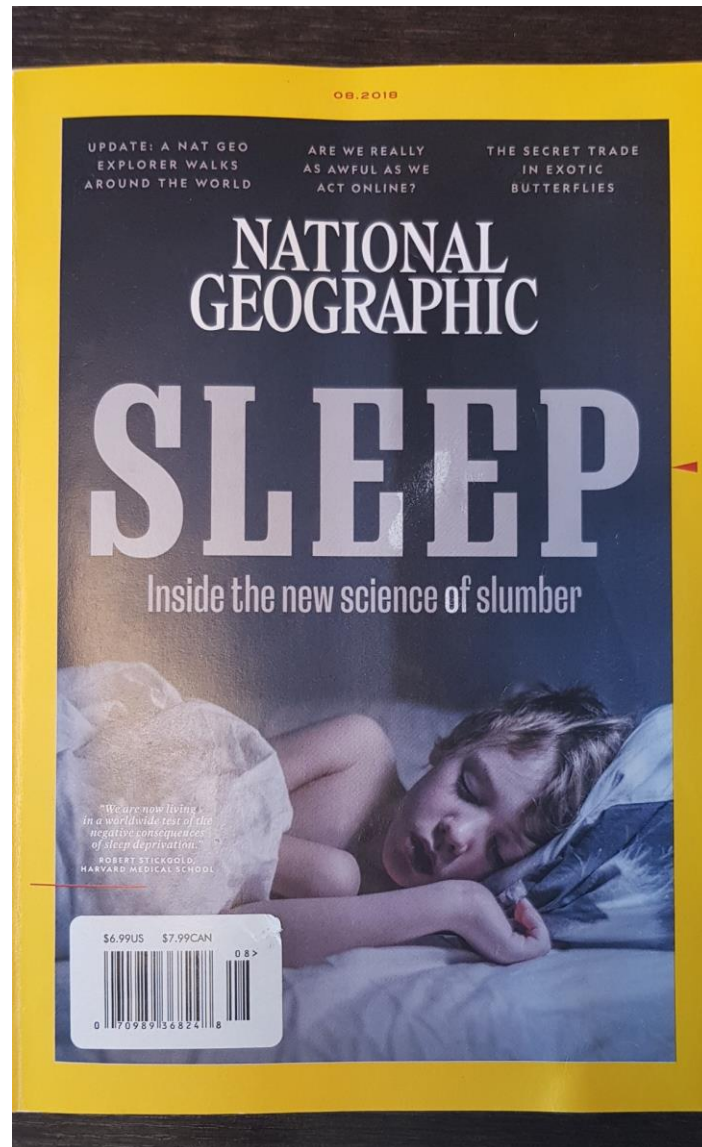


„We are now living in a worldwide test of the negative consequences of sleep deprivation“

Robert Stickgold, Harvard Medical School

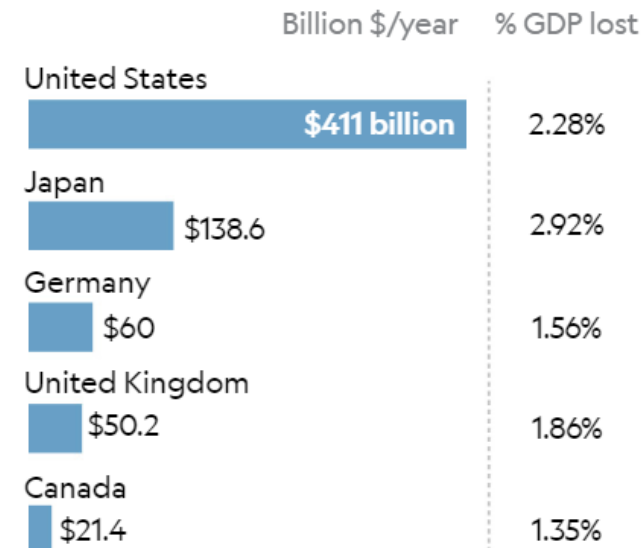
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National Geographic (August issue 2018) USA CDC



THE COST OF SLEEPLESSNESS

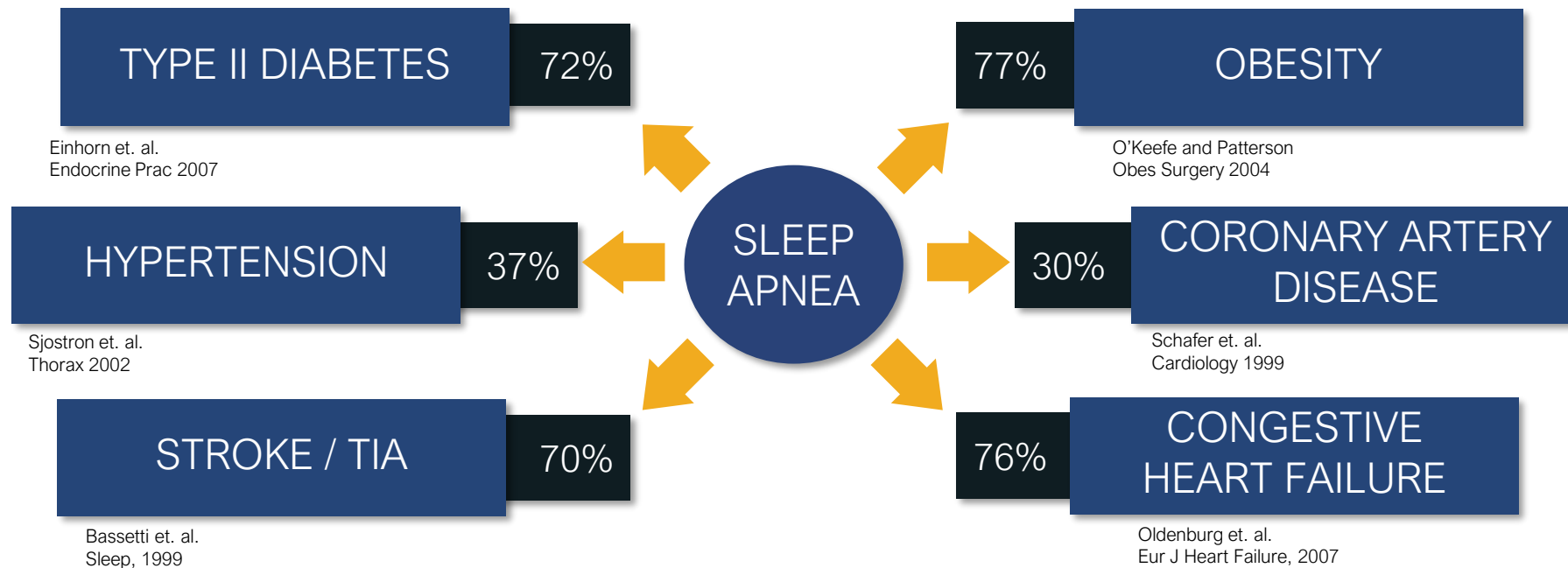
A 2017 Rand study found that lack of sleep can result in reduced productivity as well as more work absences, industrial and road accidents, health care expenses, and medical errors.



Sleep Apnea – The Silent Killer

Obstructive Sleep Apnea (OSA)

Public Health Problem of Epidemic Proportions



OSA and Sleep Related Chronic Diseases (SRCD)
Cost \$1 Trillion Annually - OSA Alone Accounts for \$165B



The Nox entrepreneur's



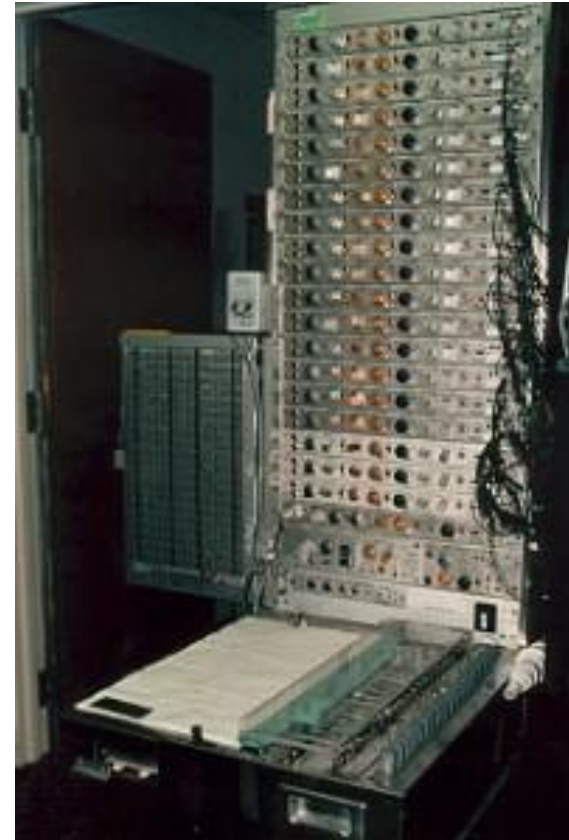
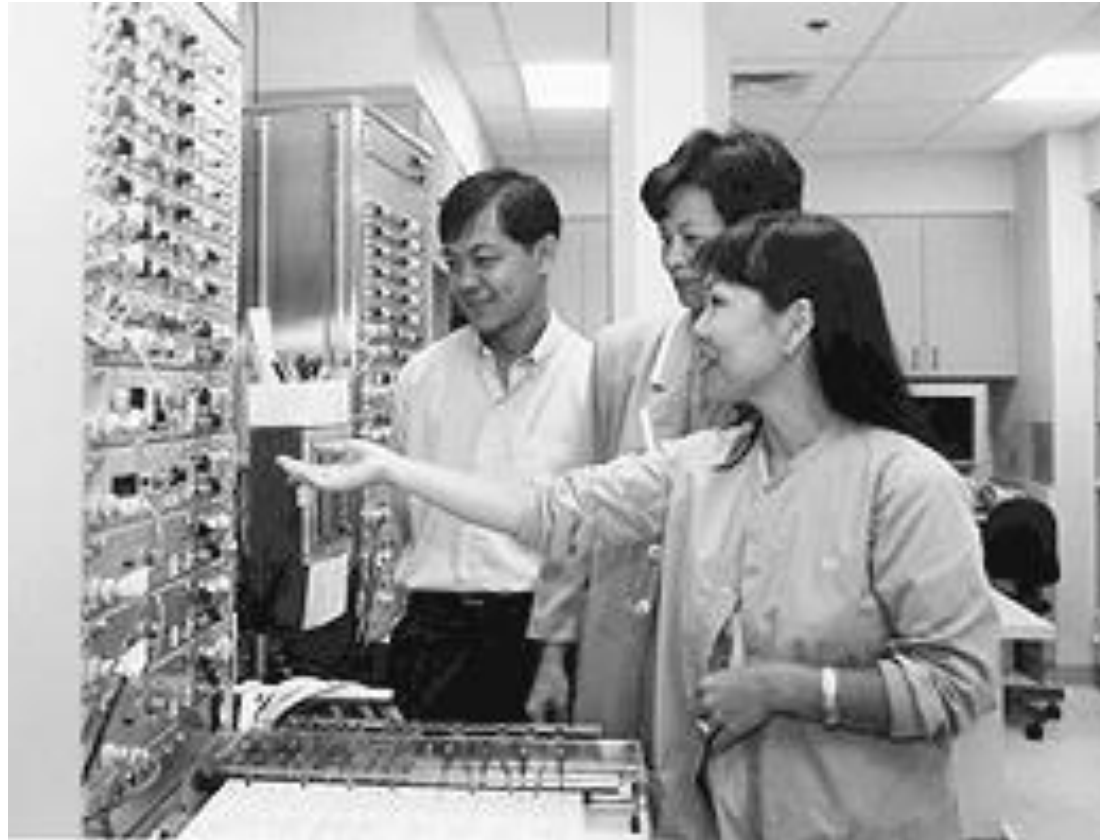
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Our People



- More than 50 employees
- Expertise and experience in medical engineering and software development
- High level of domain knowledge
- Tight knit group with a diverse set of qualifications and skills

This is not from ancient times



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The early days

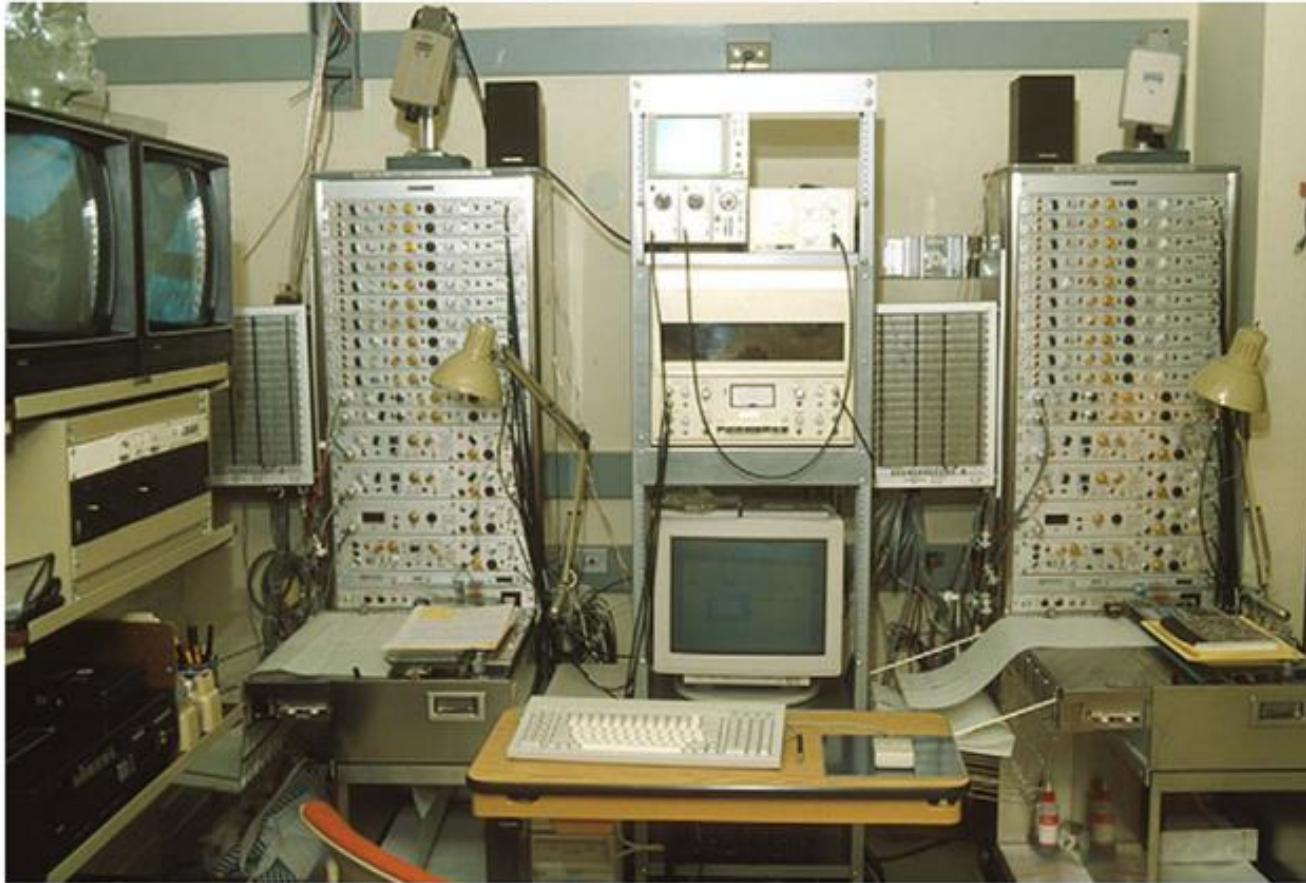


Fig. 5. Analog sleep system. Two-bed sleep laboratory at the University of Wisconsin, 1988. (Courtesy of S. Weber, Madison, WI.)

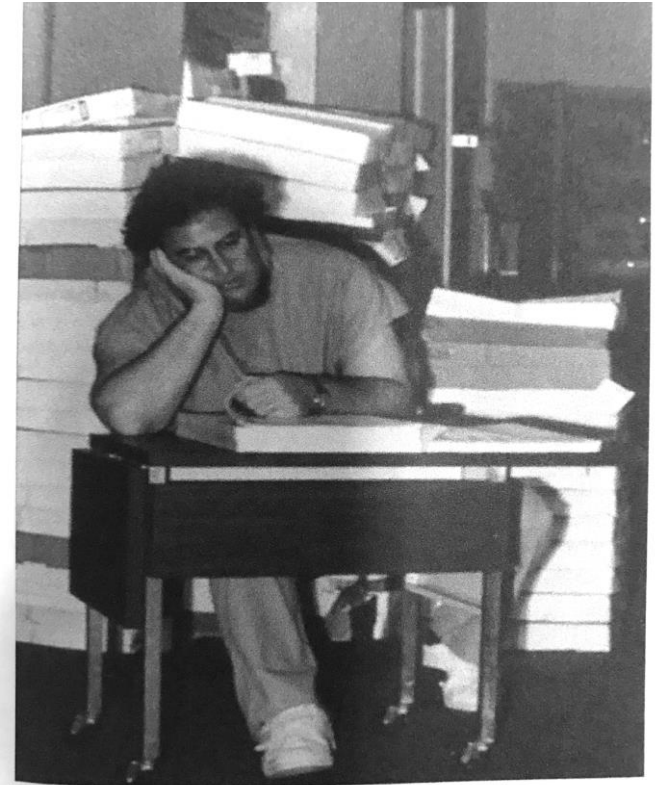


Fig. 4. Author surrounded by a sea of paper polysomnograms.





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up until 2018

5 Million lives

Affected with Nox Medical
technology world wide

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AI and 4th industrial revolution in HealthCare



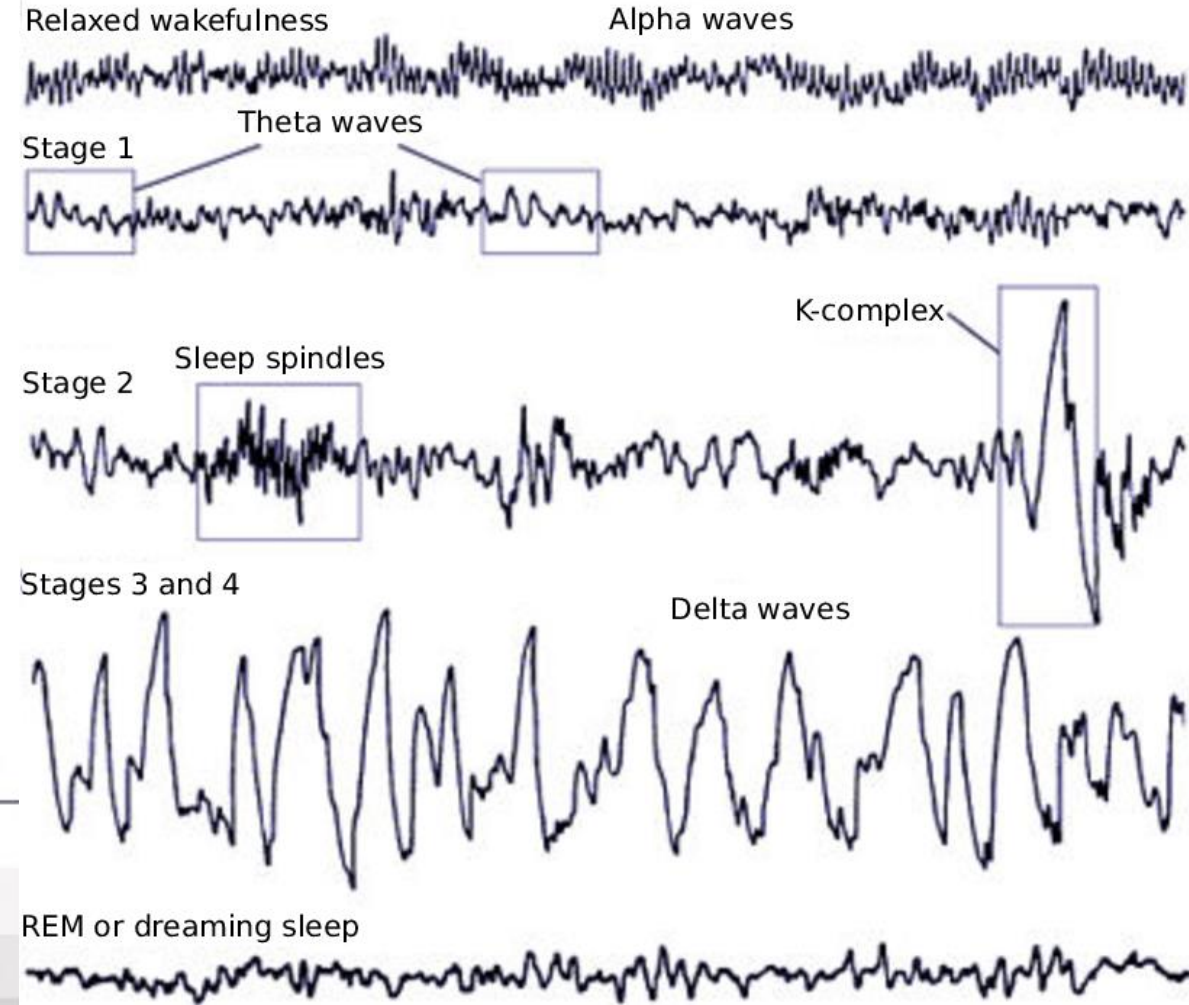
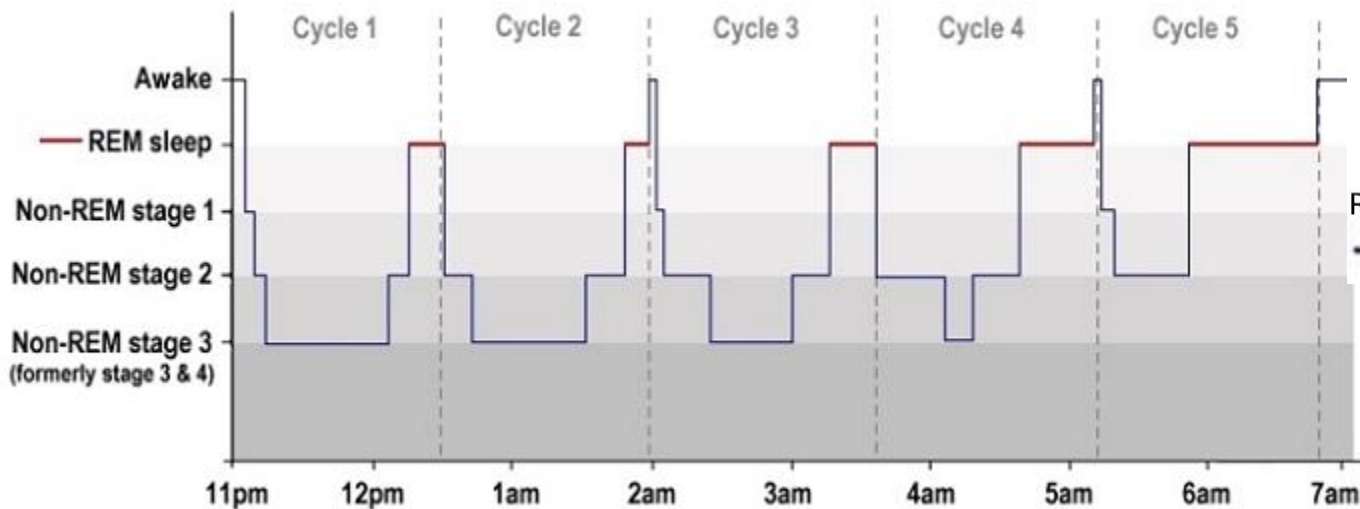
Sleep stages

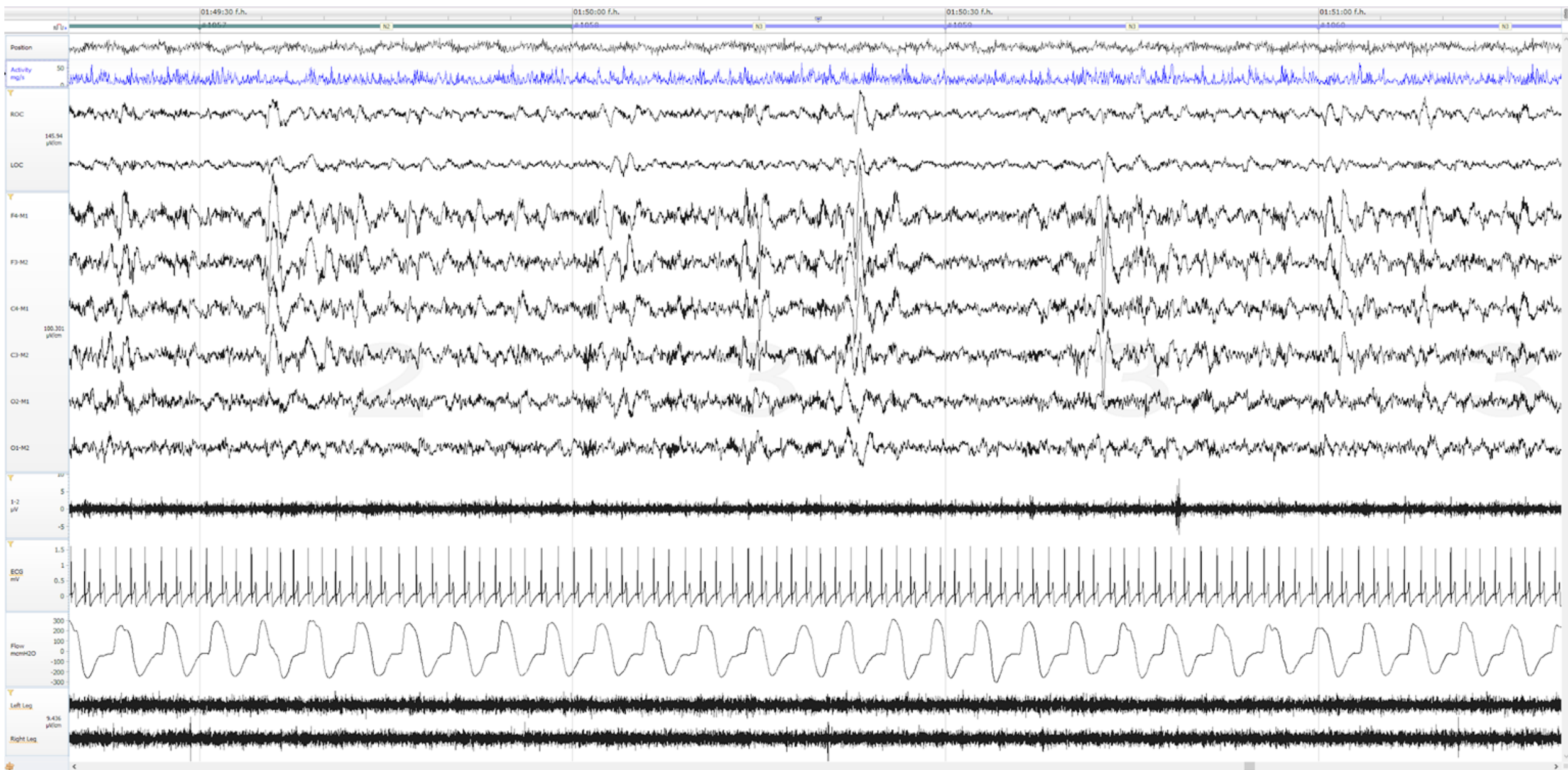
Classify every 30 seconds

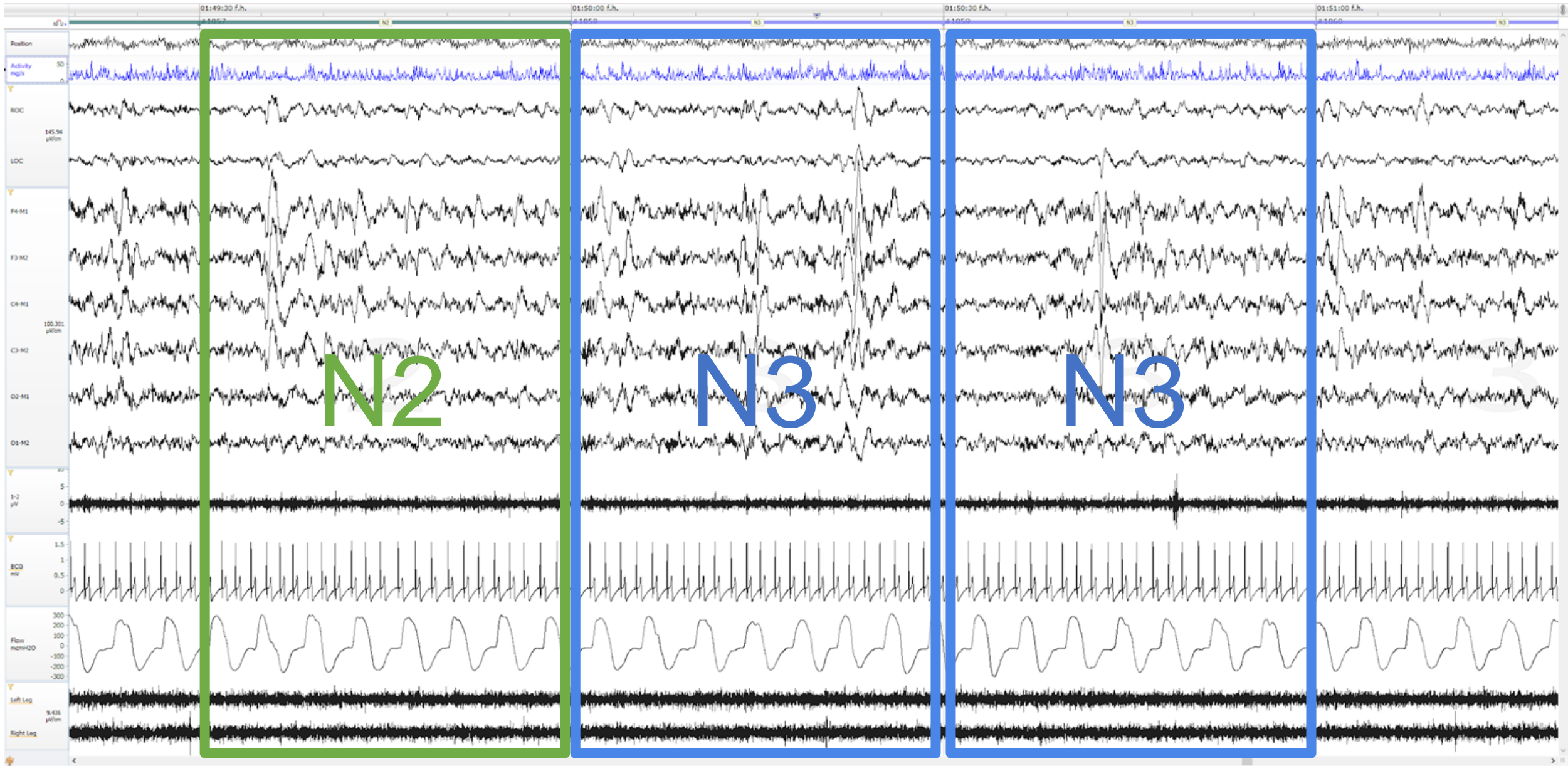
5 Sleep stages

Classification rules

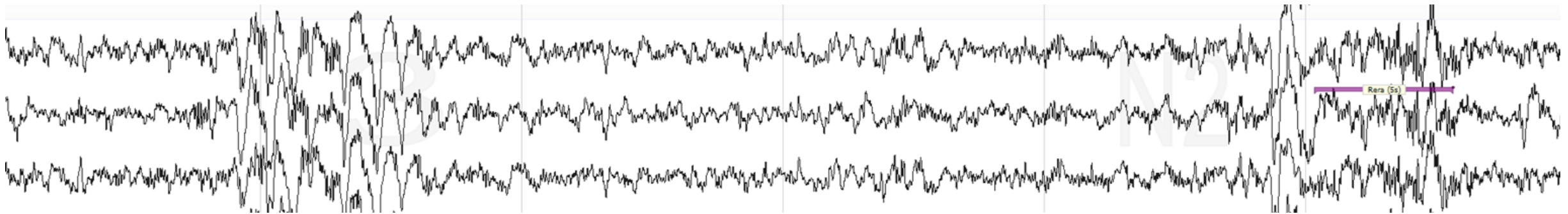
Human experts agree







Arousal detection



Nox Research

Team of scientists

Self funded

External collaborations

Internal projects

Mission

Automation

Enabling Research

Ambition

Convert data to information

Improve patient health



European
Commission

Horizon 2020
European Union funding
for Research & Innovation



Tæknipróunarsjóður



eurostars™ dical

Big Data → Big Dating



Yale University
School of Medicine



HARVARD
UNIVERSITY



Stanford
University



Penn
UNIVERSITY of PENNSYLVANIA



THE UNIVERSITY OF
SYDNEY



LANDSPÍTALI
UNIVERSITY HOSPITAL

BRIGHAM HEALTH



BRIGHAM AND
WOMEN'S HOSPITAL

BRIGHAM RESEARCH INSTITUTE



The Icelandic Institute for
Intelligent Machines

THE UNIVERSITY OF
CHICAGO



HÁSKÓLINN Í REYKJAVÍK
REYKJAVIK UNIVERSITY



COLUMBIA
UNIVERSITY



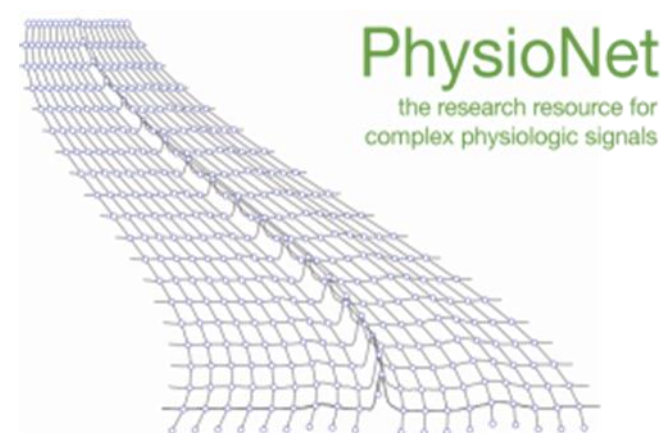
Imperial College
London



AMGEN®

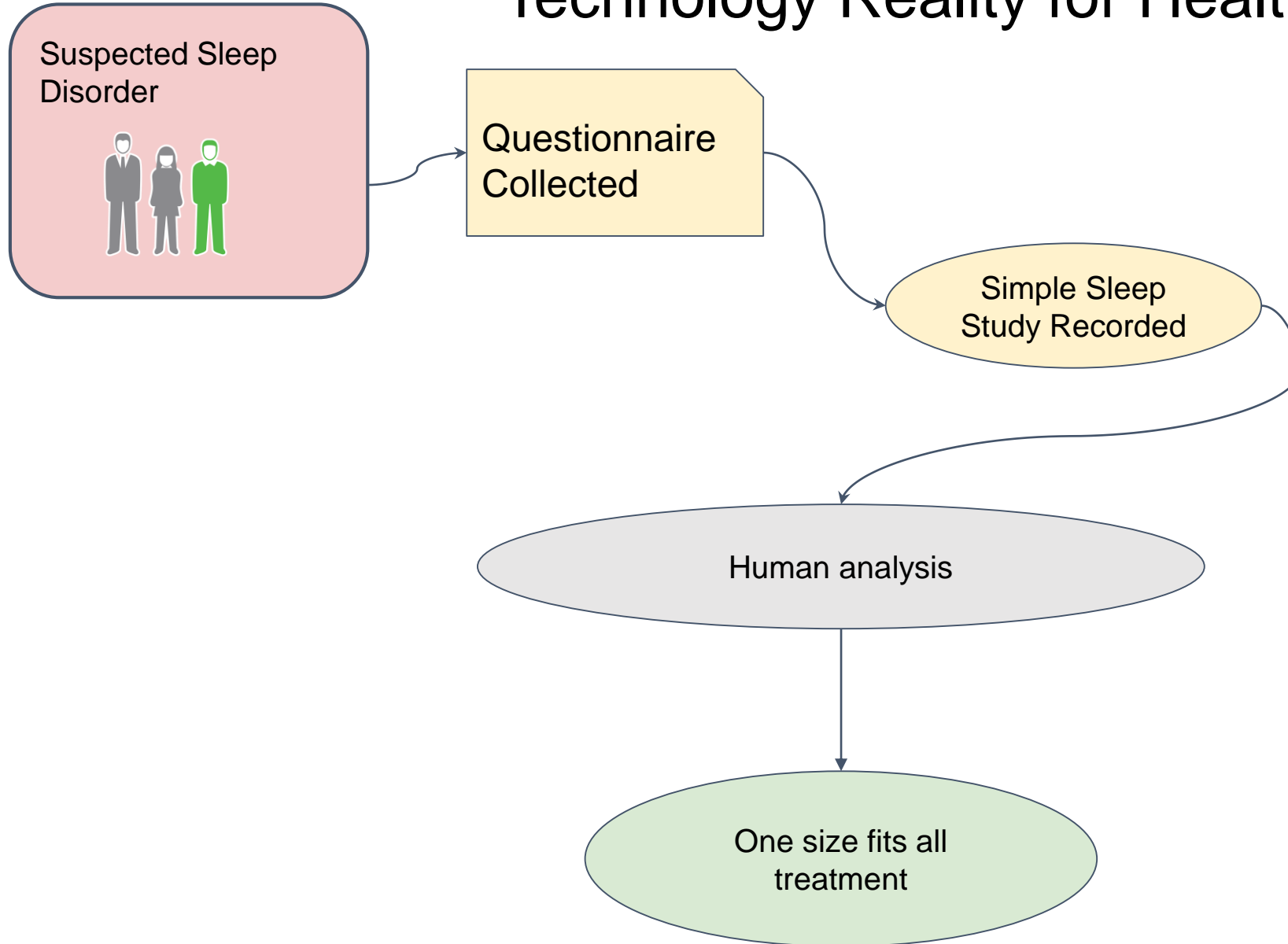
deCODE  genetics

REMOTE 
SmartECG

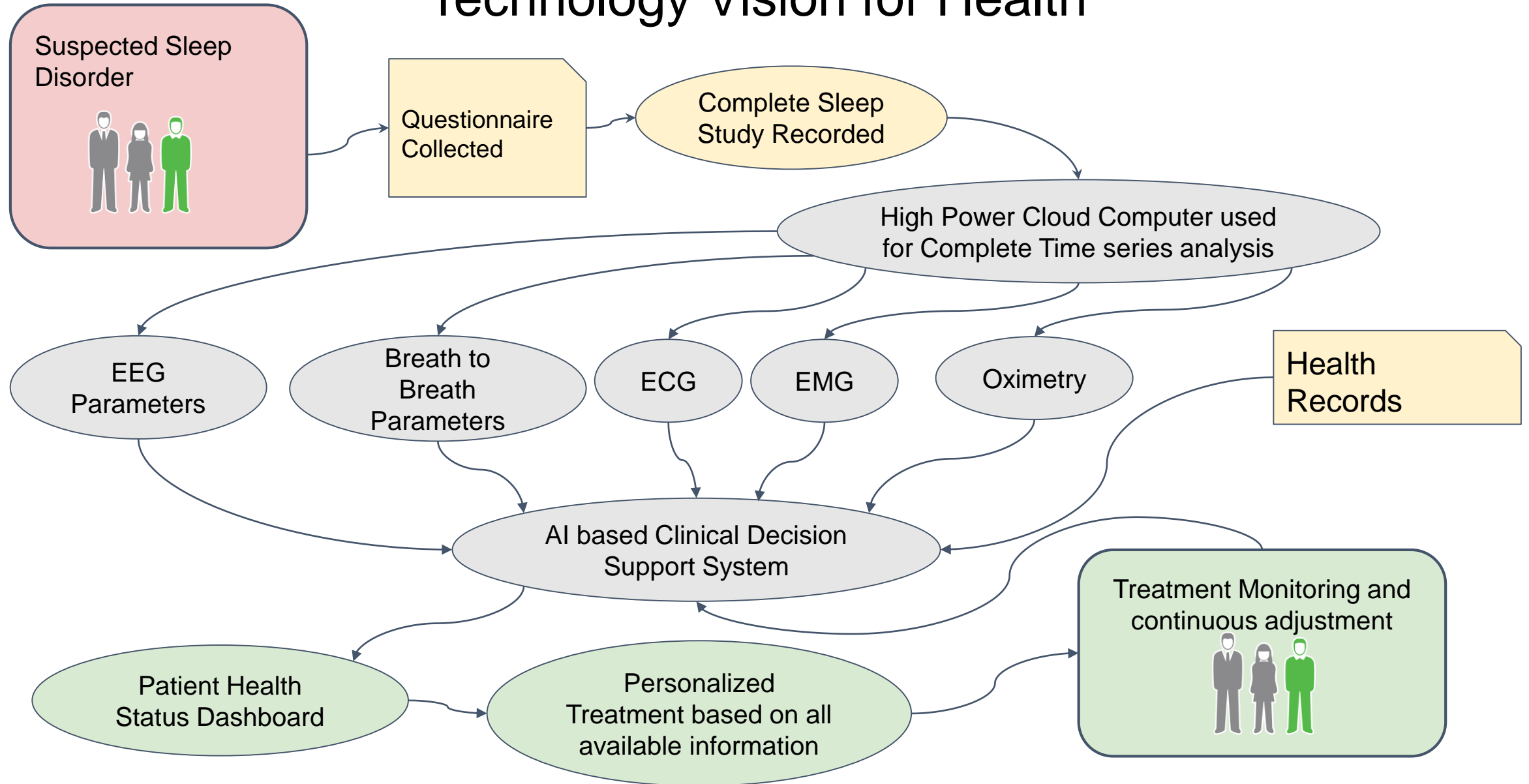


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Technology Reality for Health



Technology Vision for Health



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