# Quality measurement for the project motivation

How stillness impacts productivity of a knowledge worker with proof?

To measure a progress of a person with long short term monitoring

With a game sequence: **attention** – stimulus – **decision** – action – analysis measure *time of reaction* and *quality of decision*

Monitor from two months to a year to show the connection of neuroplasticity and mechanical training.
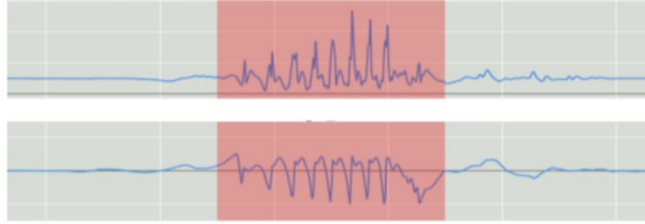
How it works for the manual labor with A/B test:  measure **amount of delivered product** before and after deployment, compare to a control group
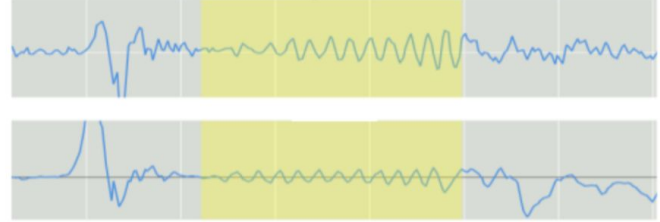
# Labor workers install a partition wall

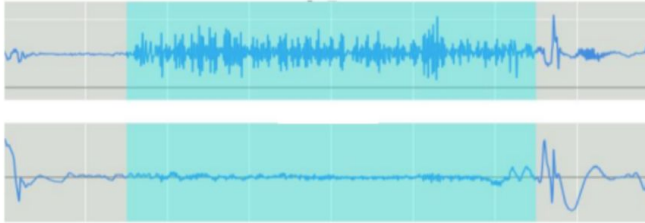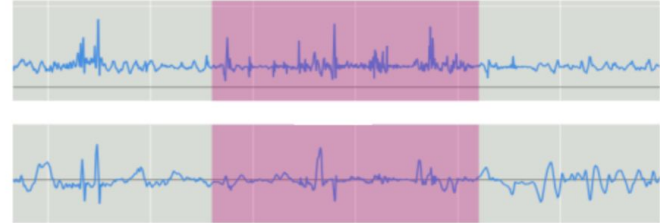# One class versus the rest: manual labor monitoring
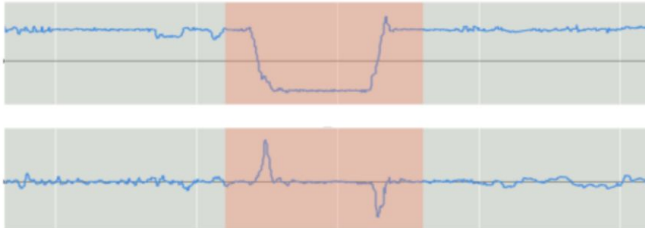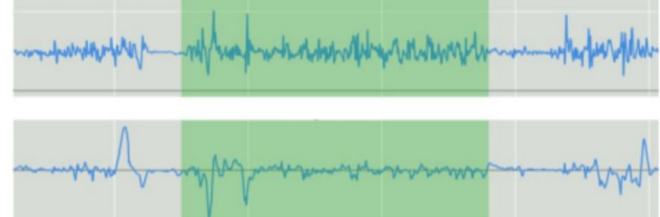
# Classification accuracy, mark-up surervised learning
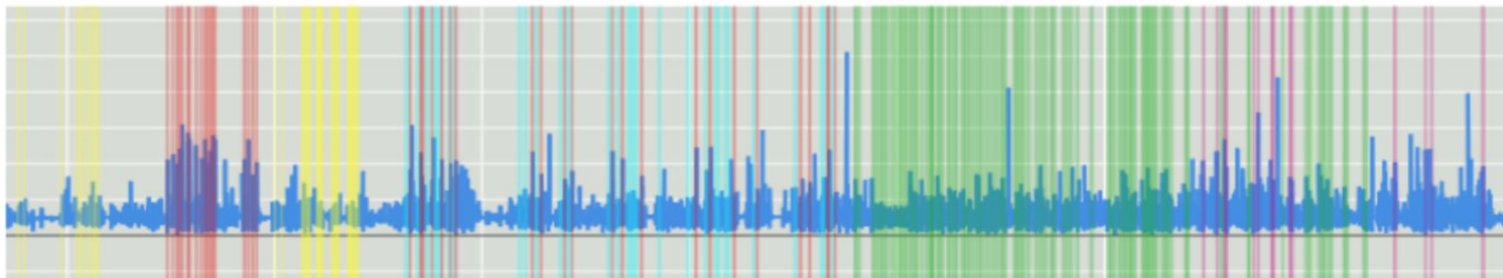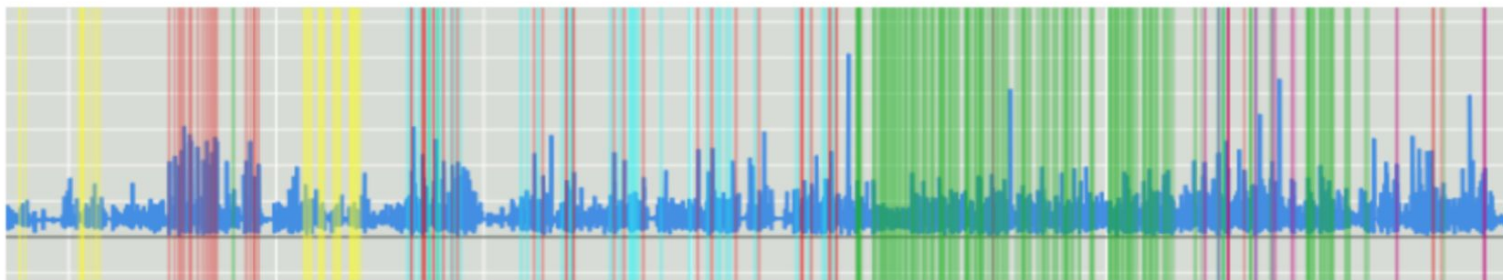


| | Drawing | Hammering | Drilling | Cutting | Alignment |
|---|---|---|---|---|---|
| Recall | 0,85 | 0,98 | 0,98 | 0,95 | 0,81 |

# Partition wall construction time
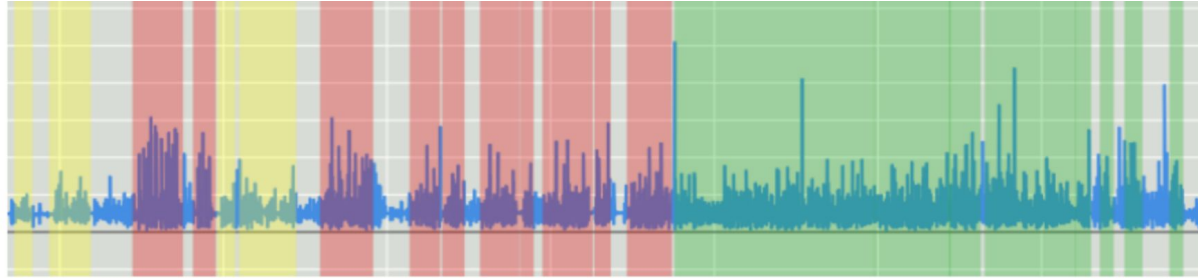


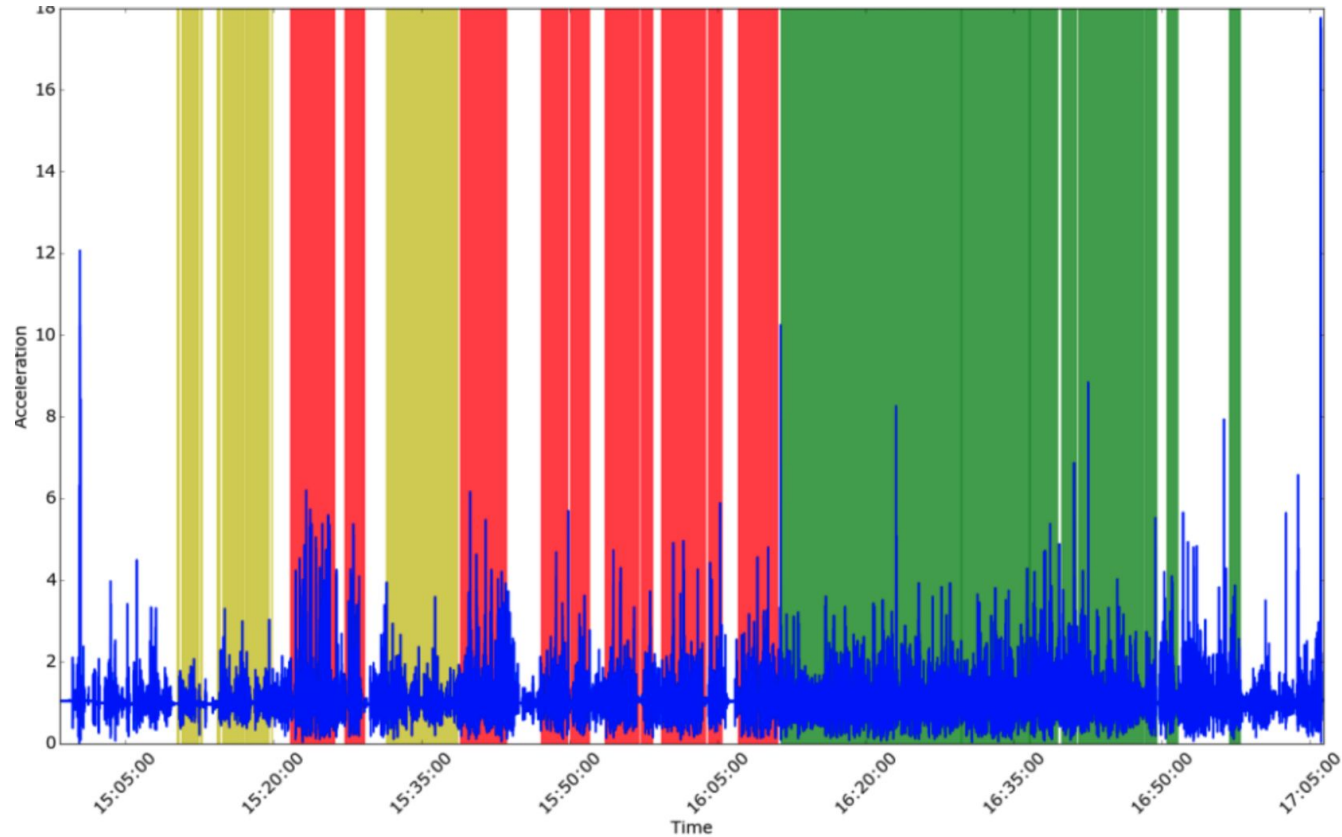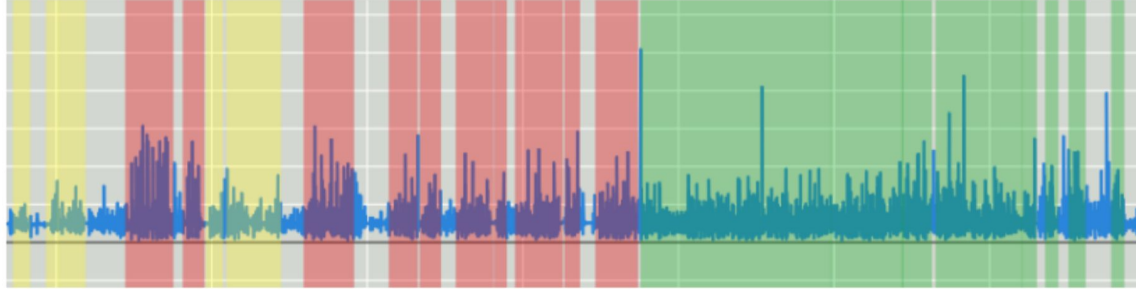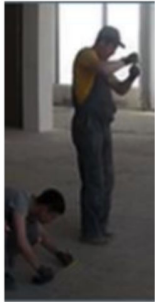| | Markup | Horizontal profiles installation | Vertical profiles installation | Idle |
|---|---|---|---|---|
| Duration | 11% | 23% | 31% | 25% |

# Tasks: measurement, support installation, wall mounting

# Installation of a partition wall



| Layout mark-up | Drilling, fixing horizontal elements | Cutting, fixing vertical elements | Inactivity |
|:---:|:---:|:---:|:---:|
| 11% | 23% | 31% | 25% |

# How this applicable for a knowledge worker?

Apply productivity a labour worker to a knowledge worker

**Daily setup** for for a knowledge worker: a person
– listens in an advanced headset (**EEG**)
– wears a watch (**IMU**)
– has a mobile (**monitor**)
– with 5G (**AI model**).

What regular type of equipment could fit the description?