

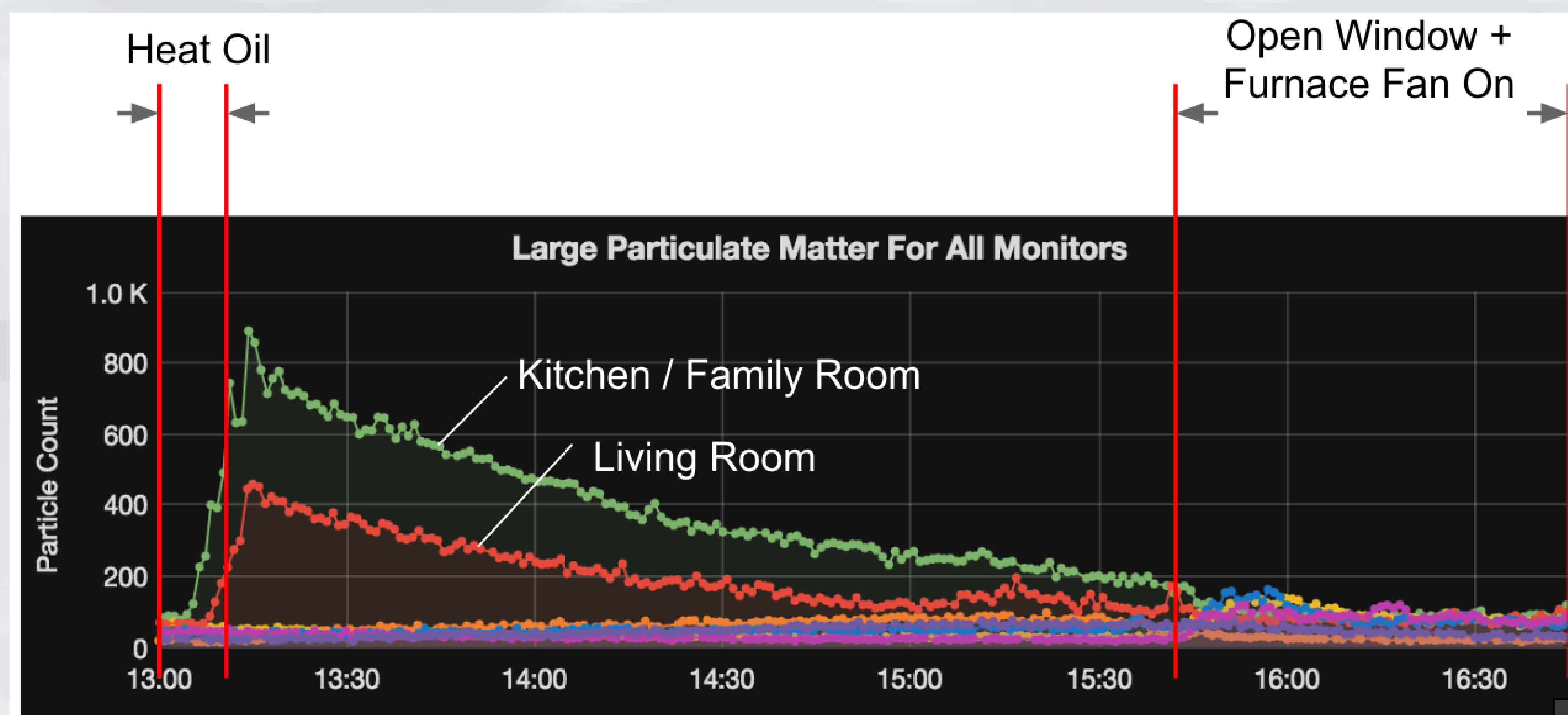
# Distributed Indoor Air-quality Sensing (DIAS)

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## Why Indoor Air Quality Matters

Americans typically spend 90% of their day indoors where air quality is frequently worse than outside.



## Instrumentation

Sensor technology has advanced to the point where consumers can reasonably afford off-the-shelf air quality sensors to measure and characterize air quality in their home.



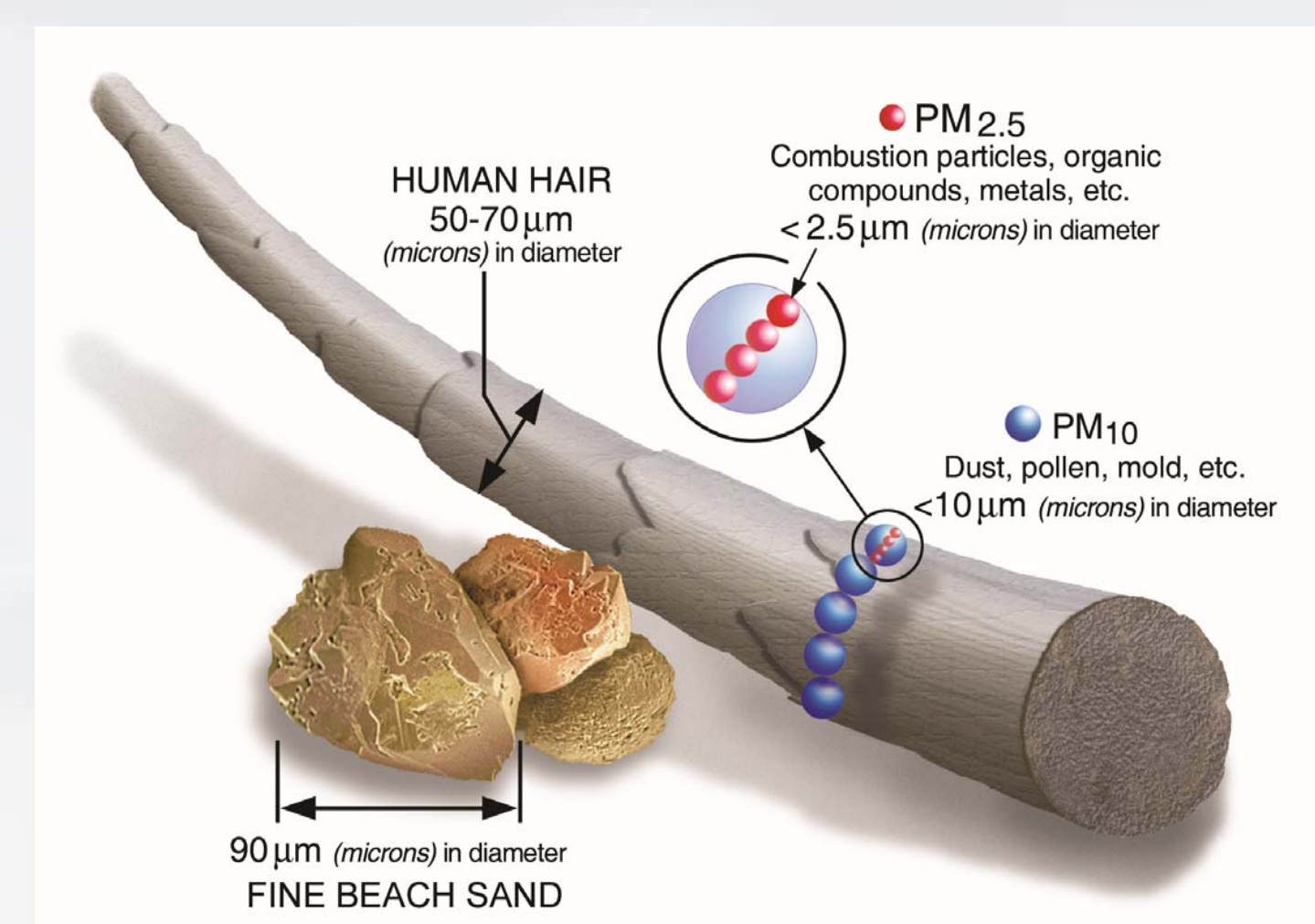
## Impact

Our research explores ways of wirelessly instrumenting homes, empowering homeowners to know more about the air they breathe, how their daily activities, and those of others, affect their air quality, and giving them opportunities to positively influence their respiratory health.

## Particulate Matter: Cause and Effects

Particulate Matter (PM) is a component of air pollution describing suspended particles:

- Dust
- Aerosols
- Mold spores
- Noxious chemicals



These irritants aggravate respiratory ailments and are linked with developmental problems in early childhood

PM is known to be detrimental to respiratory health, regardless of its concentration.

