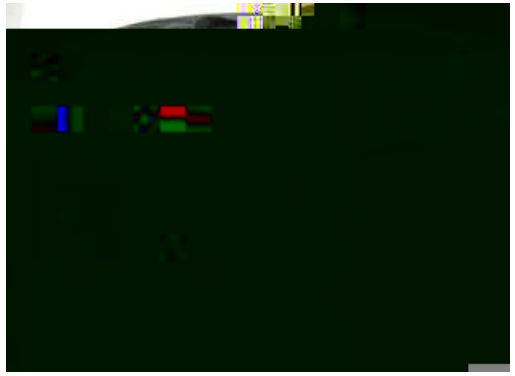
Deploying a Physiological Status Monitor

2007 AFG Project Skidmore/Globe

Field-Based Study

24 hours of monitoring PSM
Wearable baselayer



CV strain

Alarm response
Firefighter activities
Recovery

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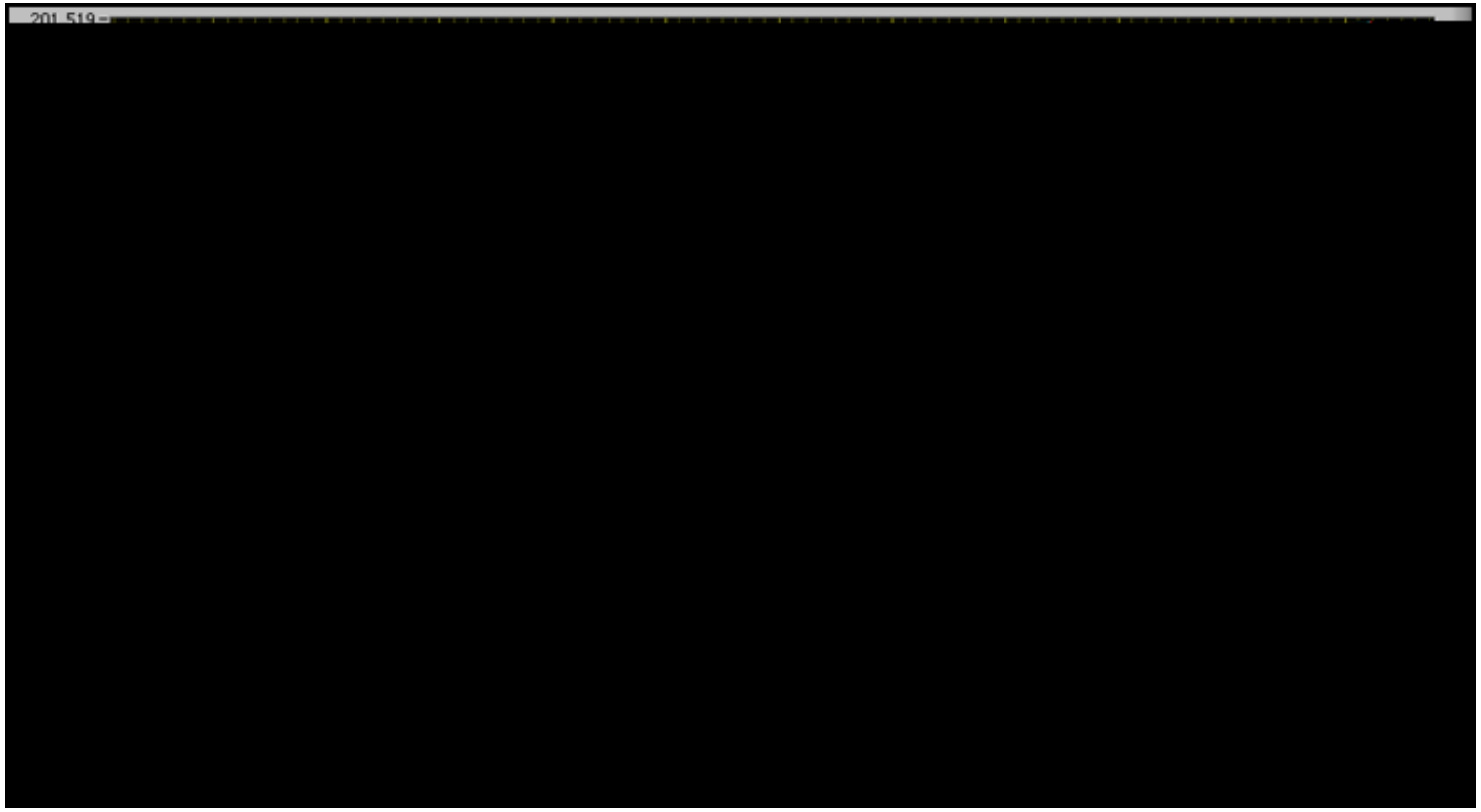
Training

24hr Monitor

Heart Rate Response to an Alarm, Enroute, and During the Incident



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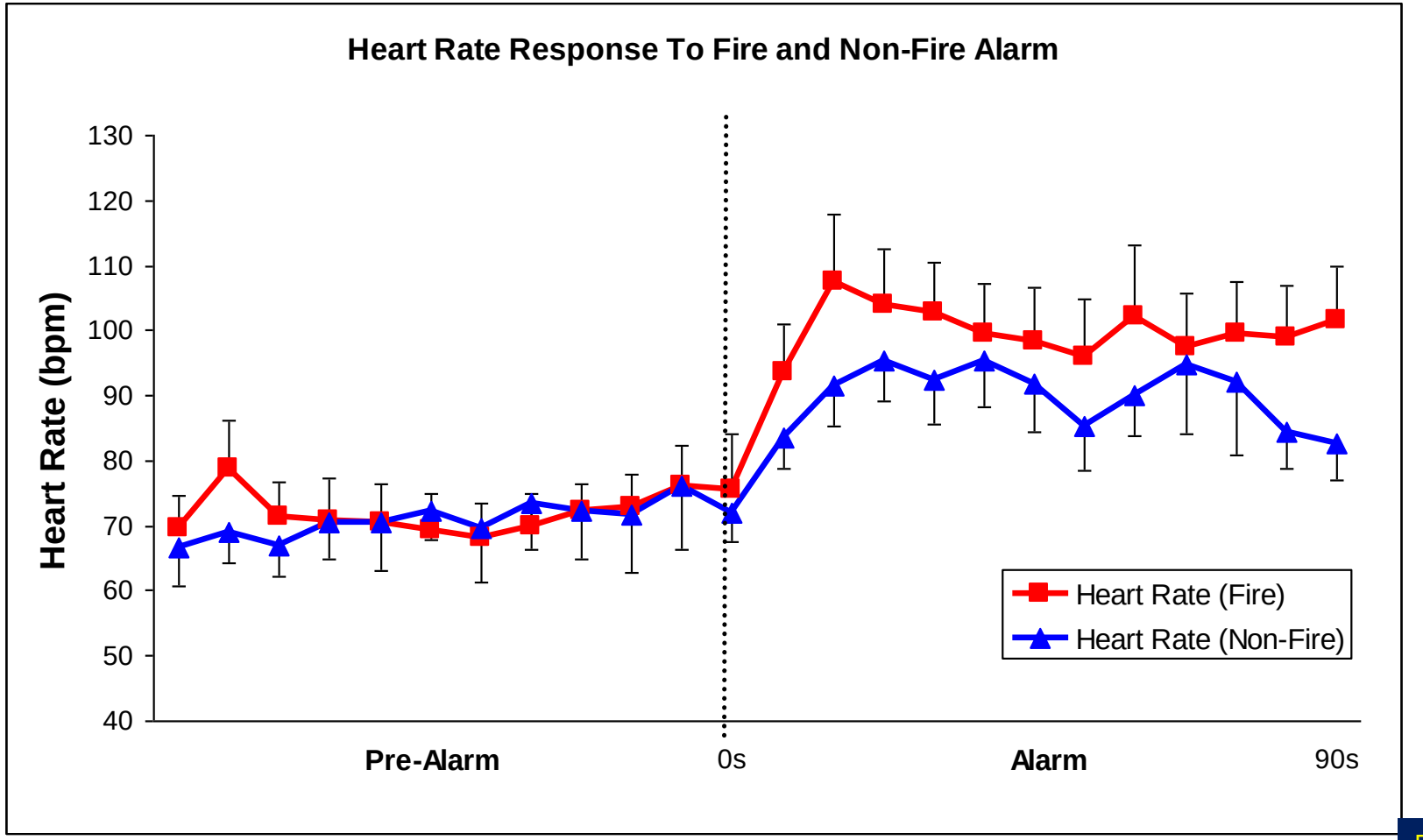
Heart Rate Responses to Fire and Non-Fire Alarms



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Challenges

Matching physiological/medical info to technology
- What we can do vs. What we need to make decisions

Individual Variability

Technological/Durability

Practical (union, admin, privacy, liability)

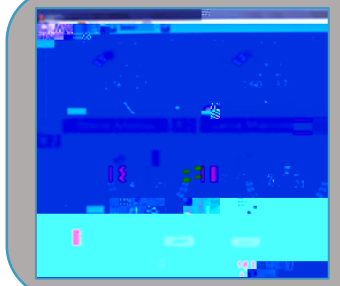
Making sense of data
- Amount of data
- Display
- Prediction accuracy

Interpretation (who, when)

Meaningful PSM

Physiology
Clinical

Fire
Service



Technology
& Computing

Commercial
Partners