Distribution Statement A: Approved for pubic release





#### TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

#### **Adaptable Chemical Sensing to Meet Evolving Threats**

Dr. Vincent Schnee RDECOM CERDEC Night Vision and Electronic Sensors Directorate



**Chemical Sensors** 







### **Chemical Sensors**





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**Explosive Hazards** 







# **Adaptable Sensor**



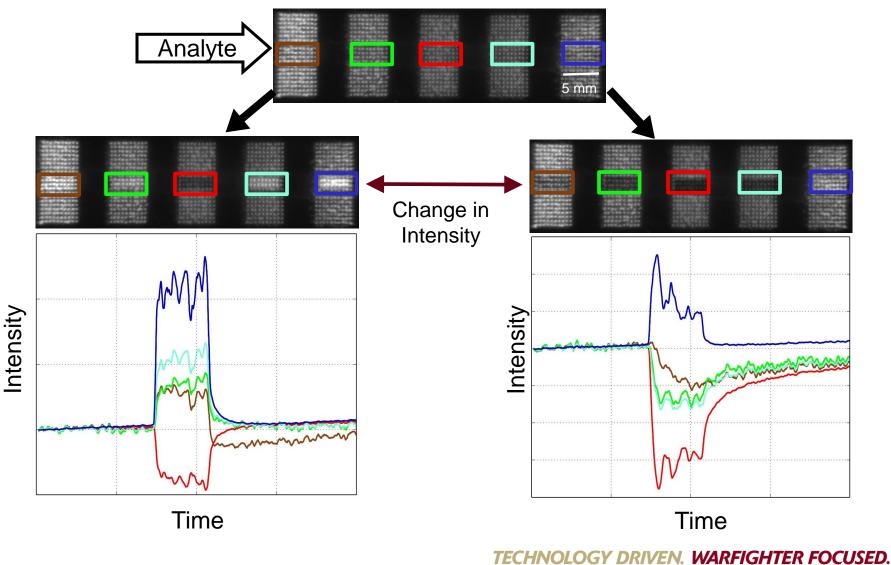




## **QD Cross Reactive Array**



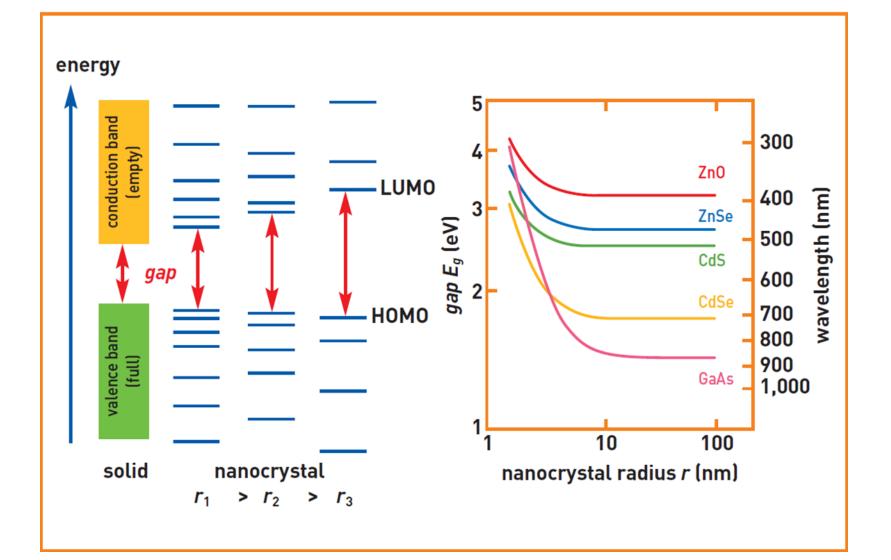
**QD** Fluorescence





What and Why QDs?





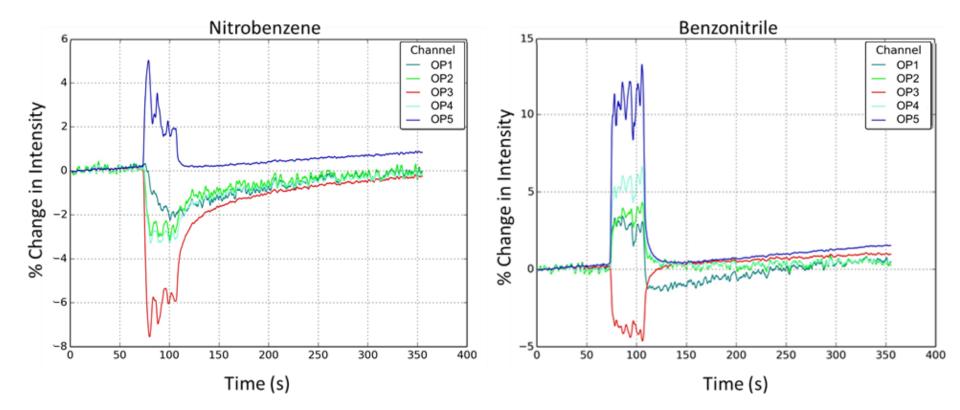
TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.



U.S. ARMY RDECOM

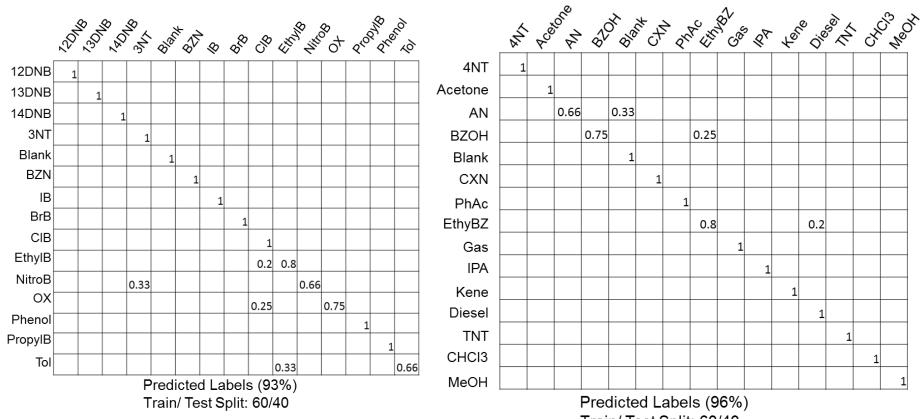
U.S.ARMY











Train/ Test Split: 60/40



### **Conclusions & Questions**





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#### **Response Mechanisms**



