

Planes, Trains and Automobiles: "The Internet of Deadly Things"

By Bryan K. Fite March 17, 2016





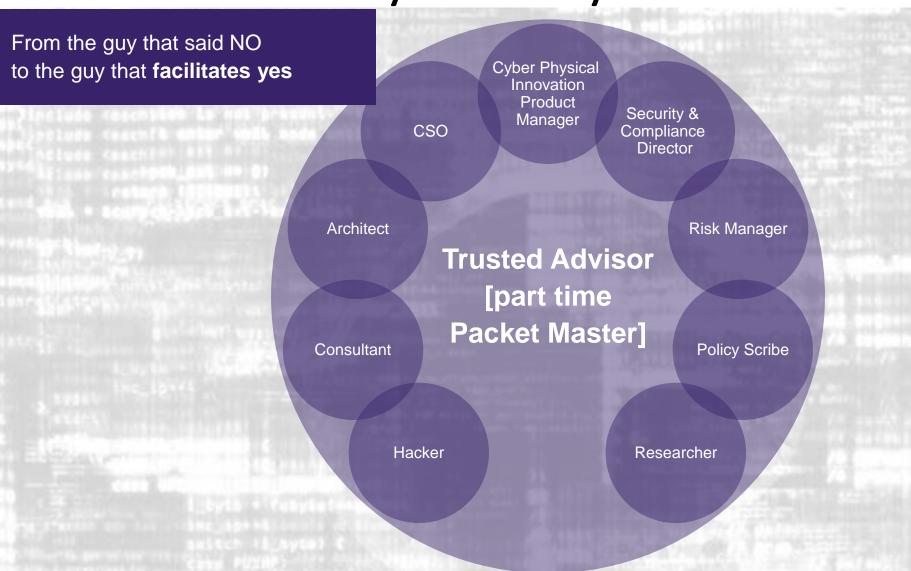
#### Disclaimer

This *presentation* is a Lightning Talk and work in progress. The opinions expressed in this *presentation* and on the following slides are solely those of the presenter and not necessarily those of my employer.





# My Journey







# Cyber Physical Systems (CPS)







#### **Humans Matter**













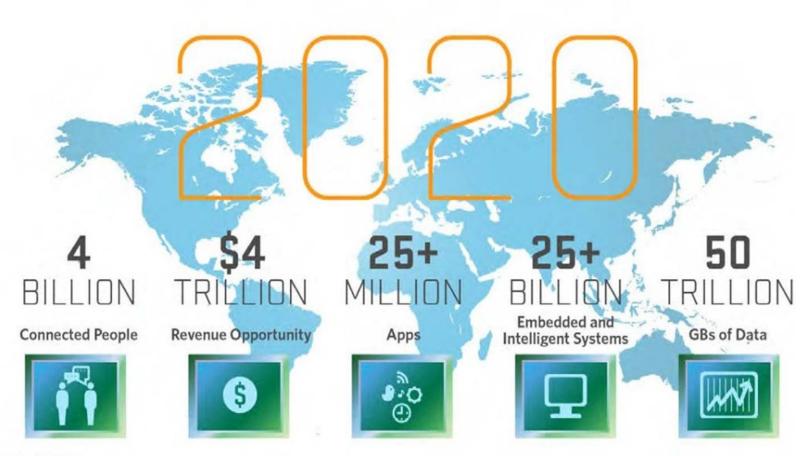
# Safety, Security & Privacy







#### Wicked Problem



Source: Mario Morales, IDC





## Reasonable Response

- Create a Cross Domain Taxonomy
- Develop an Modeling & Assessment capability
- Establish known theoretical attack surface
- Agree relevant threat catalog (by stakeholder)
- Articulate control affinities, countermeasures and failsafes
- Rinse and repeat (life-cycle management)





### Prior Art – Big Props





# I Am The Cavalry





#### **CPS Primitives**















# **Danger Drivers**









SENS<u>ORS</u>







WEAPONS







**SPHEREOFINFLUENCE** 







#### **Confidence Characteristics**





















## Funky Fresh – What's Next?

- White Paper (June-ish)
- Use Cases
  - Hiding From Robots
  - Sophie's Choice
  - Connected Transport
- Tools
  - RRA
  - TERM
  - Danger Index

DCX: Dayton
Security Summit

http://day-con.org

Oct. 13-15, 2016





# Conclusions



"Its inevitable. Prepare accordingly!"



**TROOPERS**