

technological innovations

a silicon valley perspective

Anshuman Roy, PhD
CEO, Rhombus Power Inc.



technology is part of the 1540 puzzle



focus on enforcement officers
familiarize them with materials
reduce complexity of control lists
train the trainer approach





cargo monitors

portal monitors

vehicle monitors

handhelds

paggers

CBP's experience
DEFENSE-IN-DEPTH

The
ONION
Approach



40 pounds of gear

long work shifts

can you see the
problem here?

“multiple false positives a day”

“stops working in 1 year”

technology matters

a not-so-handy nuclear material detector!



"It often **doesn't work**. When it works, you **can't trust it**. And maintenance costs a fortune..."

can you see the problem here?

technology matters

"Consumes **too many batteries**, and we have to send it for **calibration too often**."

can you see the problem here?

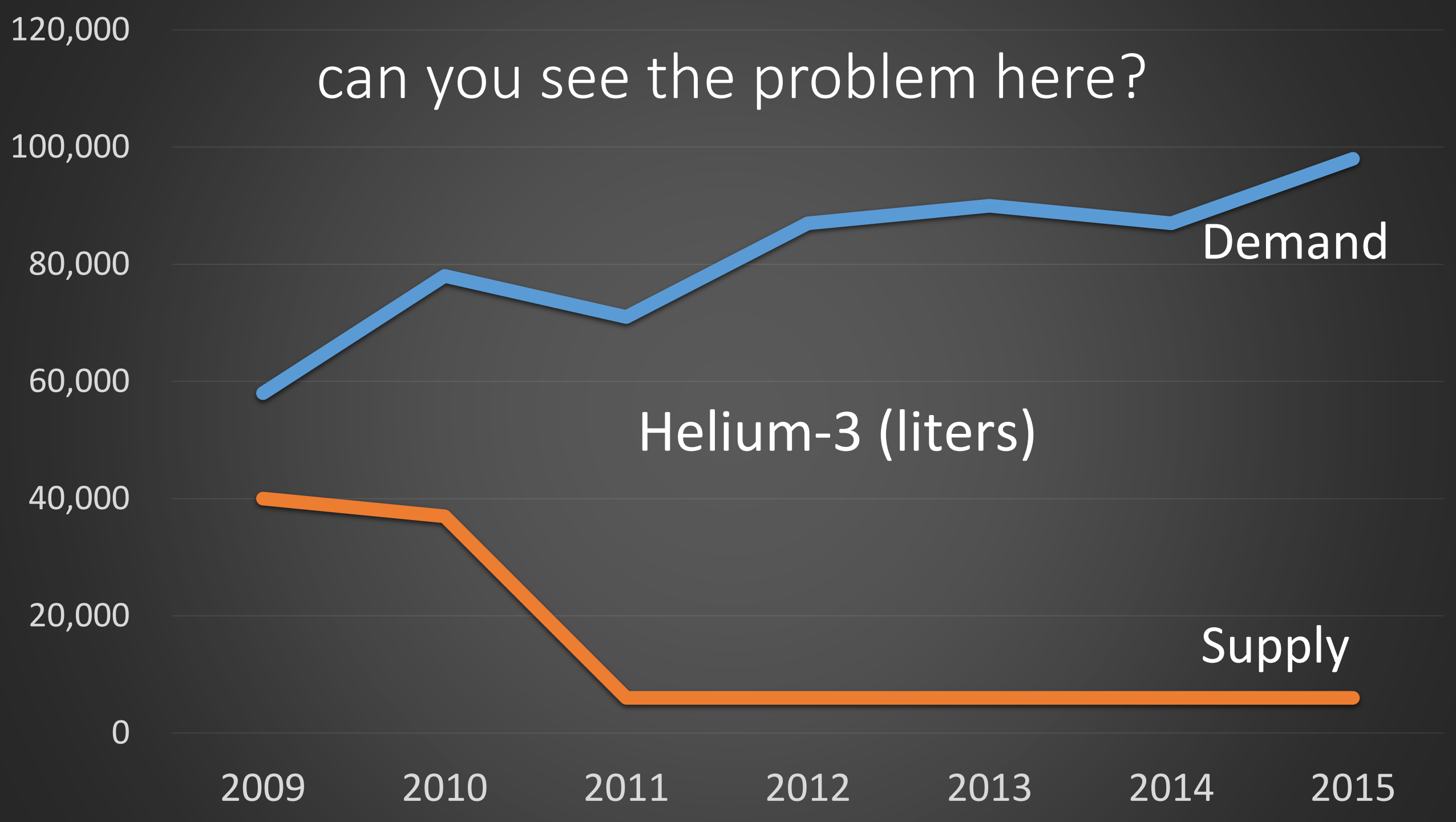
technology matters

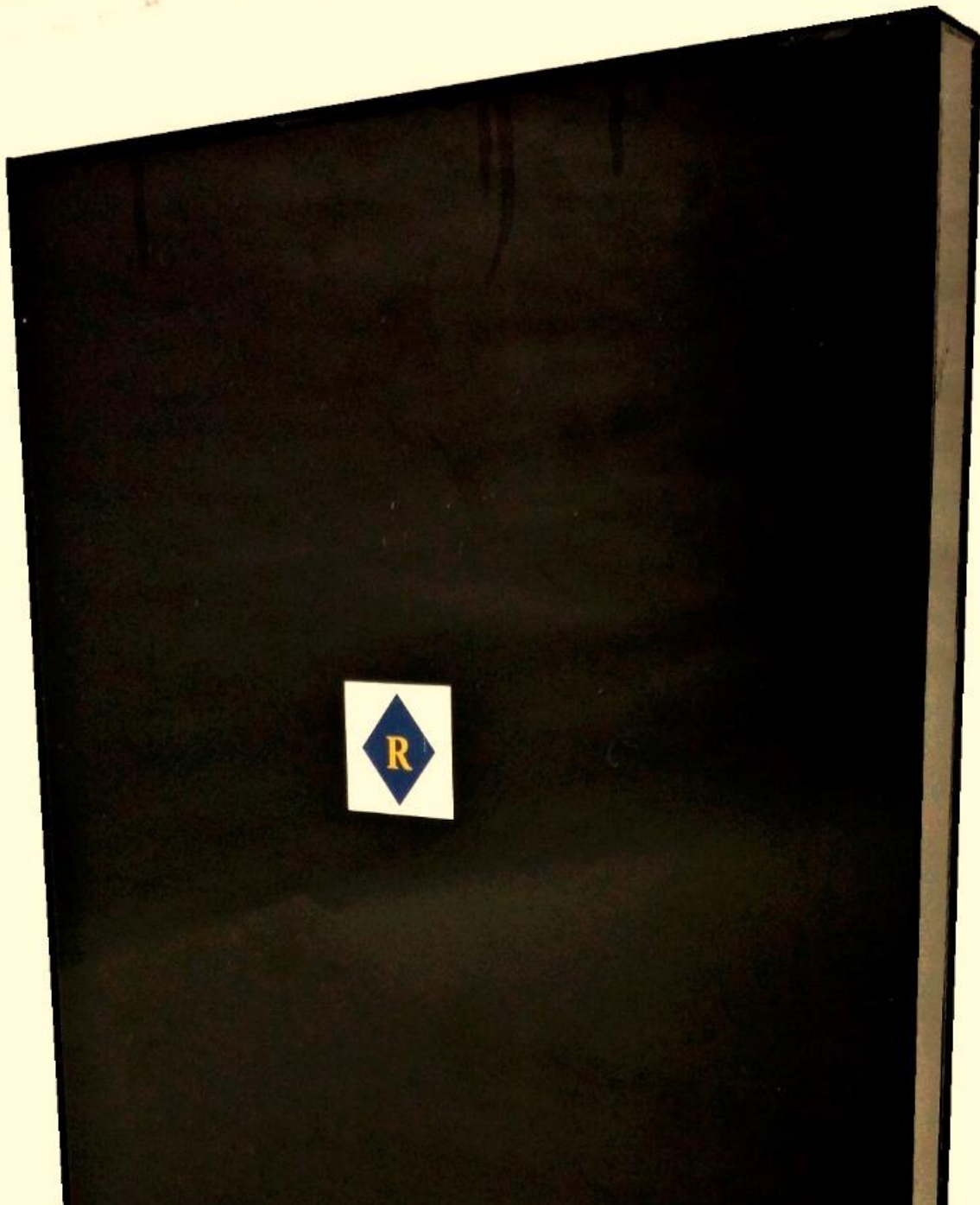
“...the Port of Los Angeles – Long Beach, our nation’s largest seaport, adjudicated nearly 115,000 radiological alarms last year, which translates into between 400 and 600 alarms on a typical weekday.”

- US Customs & Border Patrol



can you see the problem here?





Mercury

noise free

calibration free

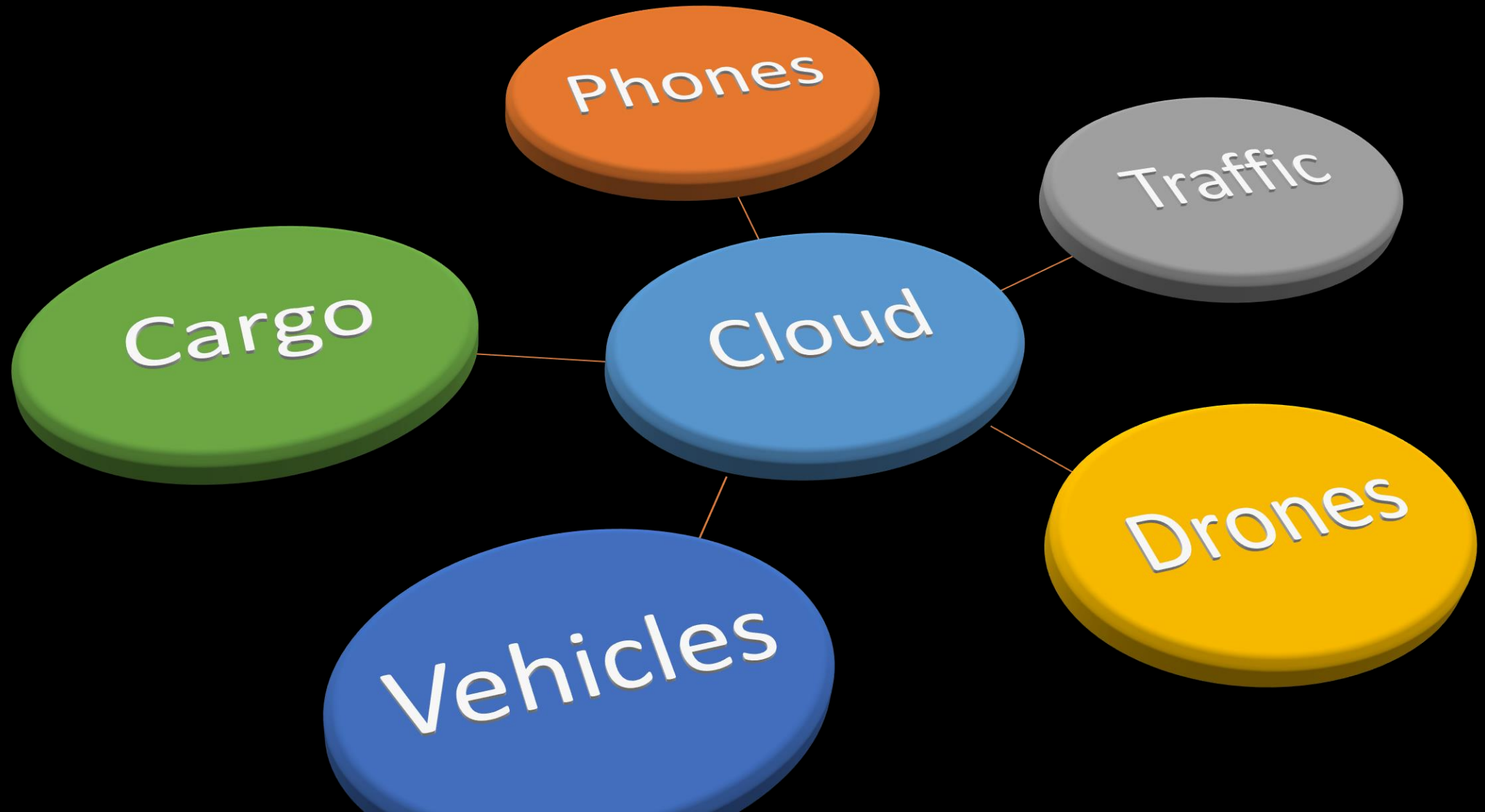
exceeds ANSI requirements

iPad size and weight

solid state

cost-effective

Where are we headed?





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