Adapting to Accelerating Technological Change

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We Are Living In The Future

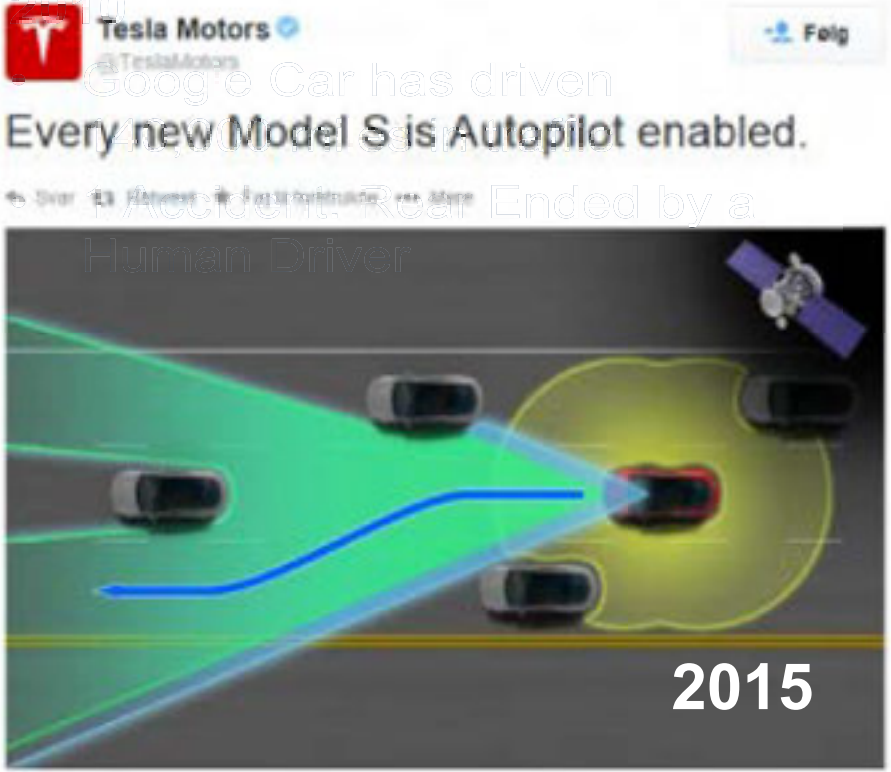
Apollo Guidance Computer

- Speed = 1 MHz
- Memory = 4 kB

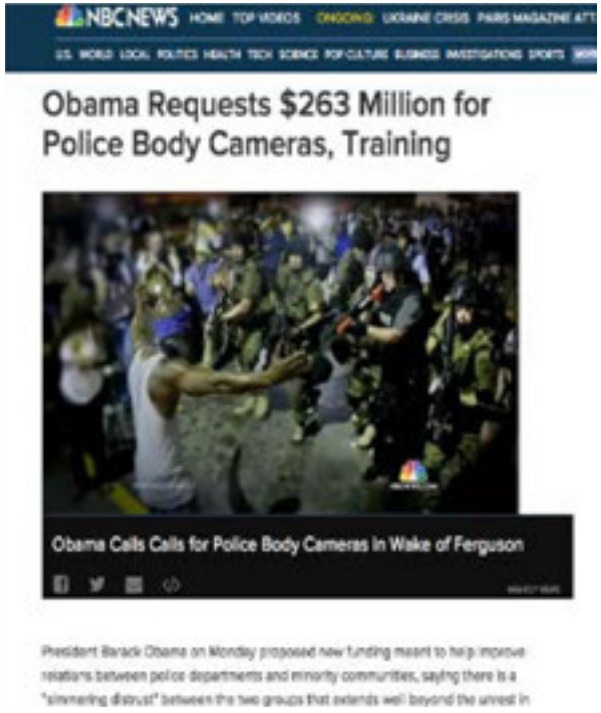
- Speed = 1,000+ MHz
- Memory = 16 GB
- Price = < $400

2004

- "Computers cannot easily substitute for humans in jobs like driving
- DARPA Grand Challenge:
  - 150 Mile Off Road Course
  - Winner took 8 hrs, less than 8 miles



National Attention



Rialto PD / Cambridge Study

Cameras Are Not The Challenge

The Challenge

250 Officers

Over 3 Years

=

2,332,800 Videos

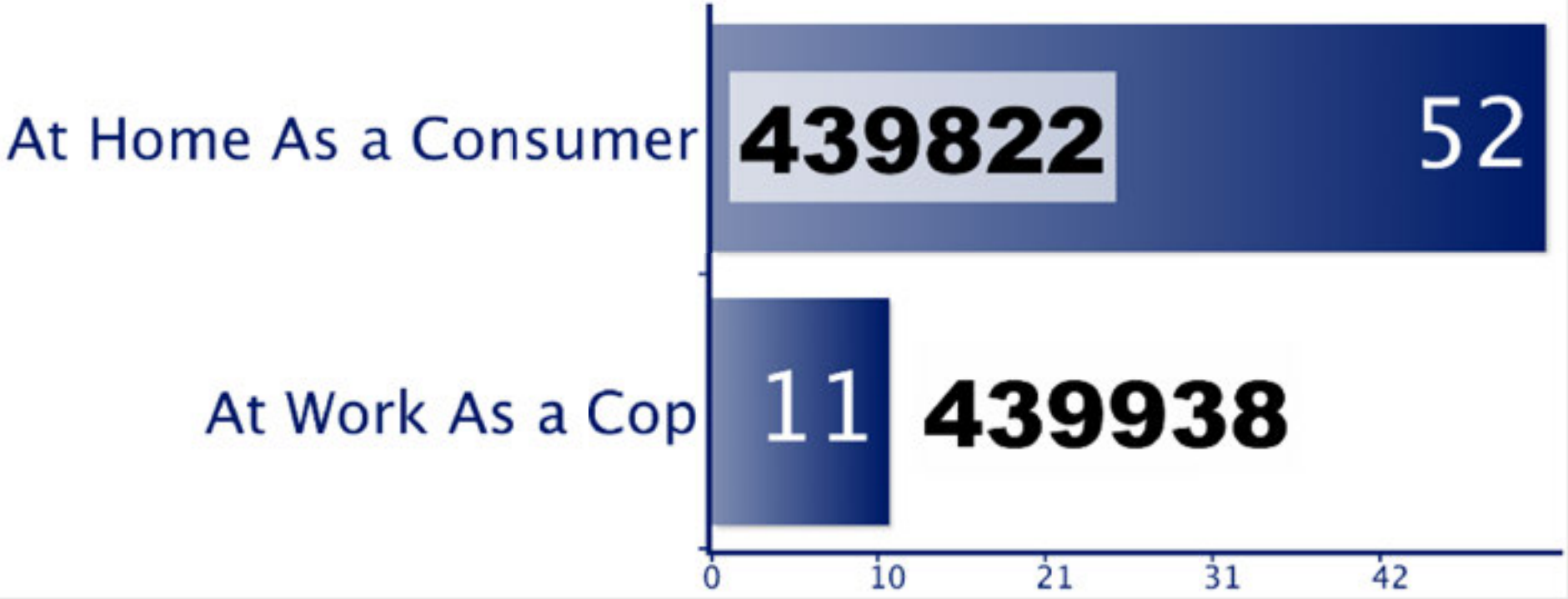
155,520 GB of Data

Can agencies' processes keep up?

Where do you believe your officers have more advanced technology?

You may respond at **PollEv.com/taser** when the presenter pushes this poll

Text a **CODE** to 22333



Upgrade Velocity

Upgraded: Every Day

Upgraded: 5 Years

Technology Evolution

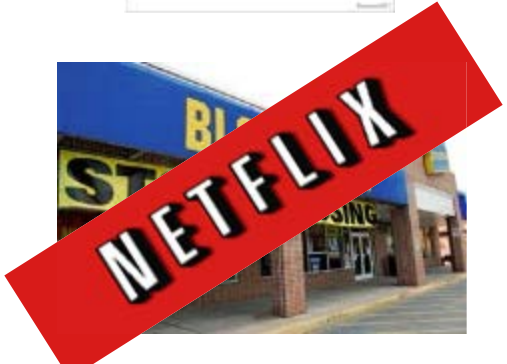
Mainframe

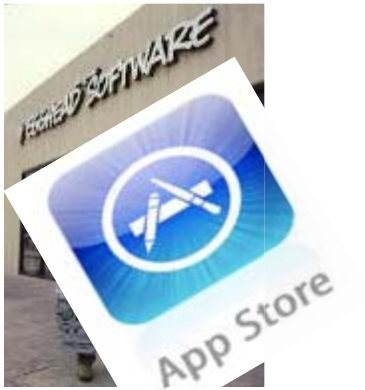
PC

Cloud & Mobile

1960s → 1980s → Today

Long Distance Calling





Leveraging the Internet / Cloud

ADVANTAGES:

- Speed
- Scale
- Security
- Cost

1. Speed

Upgraded: Every Day

Upgraded: 5 Years

2. Scale

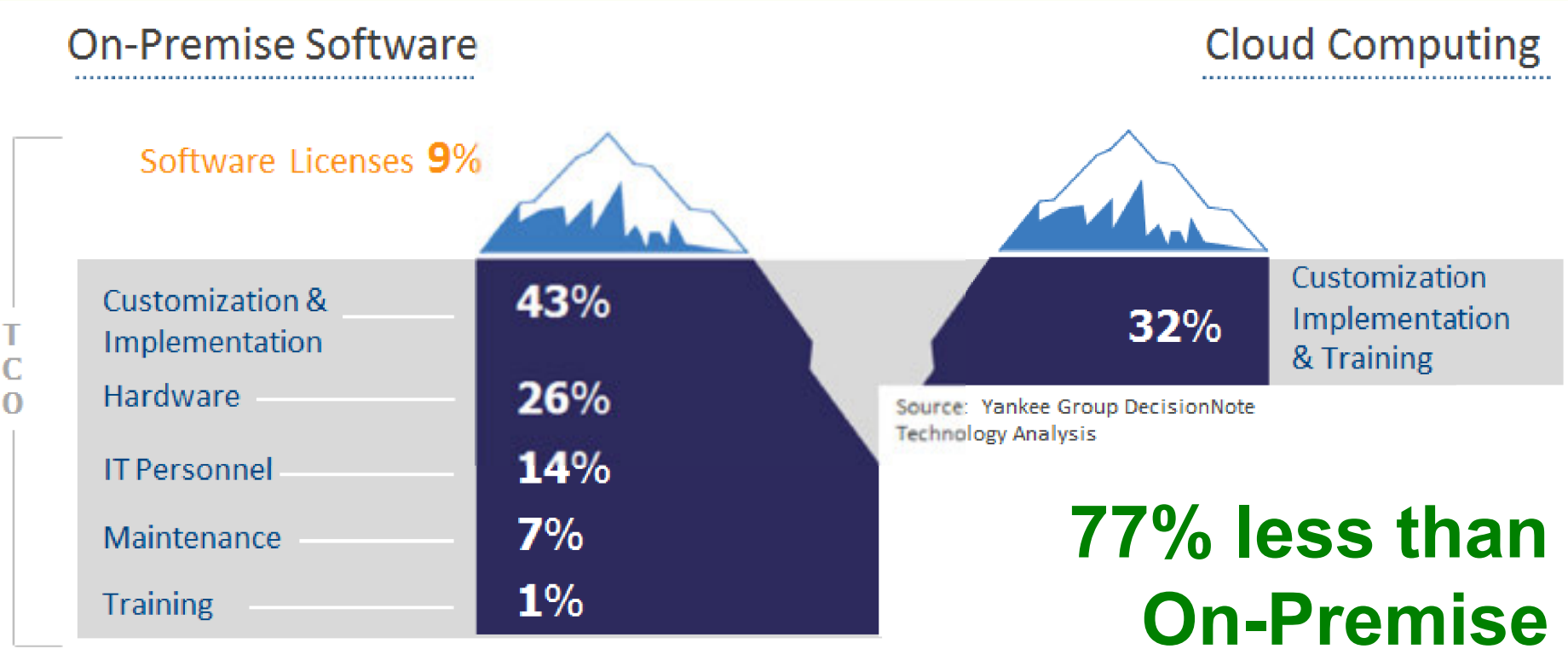
Massive Data Centers

IT Room

3. Security

CIA Awards $600 Million Data Center Contract to Amazon Web Services

4. Cost



77% less than On-Premise

Evaluate the Ecosystem (Not just the hardware)

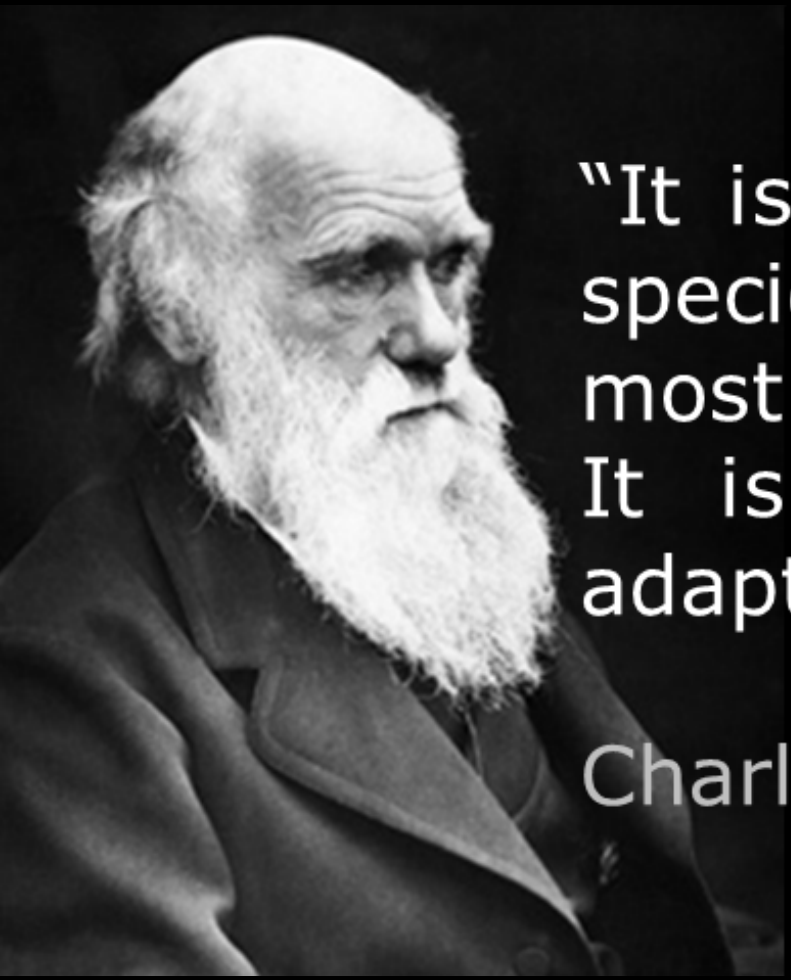
2. Features vs. Partners

Technology Partner Checklist

- ❑ People
- ❑ Facilities
- ❑ Financial Stability
- ❑ Strategic Roadmap
- ❑ Security

Security Checklist

- ❑ Dedicated Security Leadership
- ❑ Security Technology
- ❑ Regular Penetration Tests
- ❑ Maturity of Info Sec Program
- ❑ Compliance Documentation
- ❑ Encryption Usage
- ❑ Robust User Permissions
- ❑ Audit Trails
- ❑ Chain of Custody for Evidence
- ❑ Deletion Workflow (recovery period, rec retention integration)
- ❑ Disaster Recovery



"It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is most adaptable to change."

Charles Darwin (1809 – 1882)

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