

# Presidential Innovation Fellows and Innovation in the Government

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# Introduction

Worked on ARPAnet

Helped design IPv6

Created 6LowPAN

Founder of Zigbee Alliance

Founder & BoD of IPSO Alliance

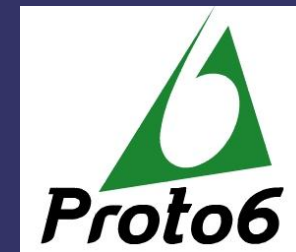
President Proto6 – Internet Tech Consultants

Co-creator of White House SmartAmerica Challenge

Presidential Innovation Fellow - IoT

US Representative ISO Smart & Sustainable Cities

Chairman LoRa Alliance



# Government Innovation



# The White House and Tech

President Obama

First President to write code

Loved makers

Trivia Question

**The Talent Act**



# Presidential Innovation Fellows

- Created by Todd Park – Second US CTO
- Bring outsiders to US government
- Short term (6 – 12 month)
- Working with agencies across government
- Open Data Initiative
  - Make government data available to create business opportunities

<https://presidentailinnovationfellows.gov>

# The SmartAmerica Challenge

- Launched at White House in December 2013
- Completed June 2014
- 24 teams with over 100 organizations
- The projects needed to show:
  - Job Growth
  - Economic Development
  - Create new business opportunities
  - Improve or save lives of Americans
- Not technology for technology sake
- Light the imagination of what is to come from the IoT



[www.smartamerica.org](http://www.smartamerica.org)

# The Projects

- Healthcare
- Disaster Response
- Environmental
- Energy Management
- Building Control
- Smart Cities

# Project Deeper Dive

- Crash to Care
- Smart Emergency Response System
- Water Distribution Systems
- Wounded Soldier Transportation
- Safe Community Alert Network



# Crash to Care

Can we leverage the IoT to improve disaster response?

- Getting TO the scene
- Triage
- Getting TO the right hospital
- Improve the Emergency Room

# Smart Emergency Response System

Combine IoT tech to help with disaster

- Finding survivors or problems
- Communication
- Recovery

# Water Distribution System

Reduce water loss and waste

- Condition monitoring of water distribution
- Telemetry communications
- Early alerts

# Wounded Soldier Transportation

Improve effectiveness wounded in battlefield transportation

- Reduce risk of others
- Medical telemetry data
- Field triage

# Safe Community Alert Network

Better are for elderly and house bound

- In home network
- Learn typical daily activities
- Identify anomalies
- Communicate with first responders

# Lessons Learned

- CyberPhysical Systems
- Concerns surround privacy
- Security is not privacy
- Technologies are available now
- Lots of stove-pipes
- “One-off” designs – over and over again
- Need for harmonization

Insanity: doing the same thing over and over again and expecting different results.

- Einstein

Doing the same thing over and over again and  
expecting different results - Optimism

- Geoff