Challenge Led Applied Systems Programme

Taking STFC sponsored science to address Global Challenges
A SHORT history

First PNPAS General Call in 2009

CLASP Healthcare 2010 (5 projects)
Security 2011 (6 Projects)
Detection of Contraband, imaging and x-ray production
Environment 2012 (7 Projects)
Energy 2013 (4 Projects)
Health 2014
The Basic Rules

• A realistic chance of the project being demonstrated or prototyped
• Route to Market identified
• Size of Market identified
• How does it change capability?

Blue sky research and very low TRL projects are unlikely to get funded

• This is a Competition
Challenges

• Last time we looked mainly at detecting Chemical, Biological, Radiological, Nuclear and Explosives.

• Increasingly our security is threatened by activity in Cyberspace.

• Can we exploit developments such as “Big Data” and the “Internet of Things” for security purposes?
Priority Areas

- Data Analysis for Identification of Threats
- Chemical Sampling
- Sensor Integration
- Power Management
- Detecting Intrusion by Small UAVs
- Any other smart ideas?

Batteries and Fuel Cells  X  Machine Learning, AI etc.  X
Detection and/or characterisation of SNM  X
Thank You

Any Questions?