Lewis Shepherd
Microsoft Institute for Advanced Technology in Governments

Where's the Manhattan Project in cybersecurity research?

A Washington Meme

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Despite that funding, a government review of its **cybersecurity** efforts last year **...** **cybersecurity** defenses, but said the Appropriations Committee **needs** to provide **...** can't solve **cybersecurity** problems on **its own**, Schmidt said his agenda is to **....** a "dashboard" pilot **project**, measurements of hiring effectiveness, **...**
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What's Up with the Secret **Cybersecurity** Plans, Senators Ask DHS ...
May 2, 2008 **...** The government's new **cyber-security** "**Manhattan Project**" is so **...** the Air Force is hyping **its own** efforts at cyber defense and offense. **.....** Posted by: New Obama cyber czar must balance security/economic **needs** - Telecom

Hallmarks of the Original

- **Project Secrecy**
- **Handpicked participants**
- **No collaboration with outside groups**
- **One single goal (with end-result for use against one of two known opponents)**
- **Essentially unlimited government funds**

Better Approach for Cybersecurity

- **Manhattan-Project-scale collaborative research**
- **Open sharing of research goals, project designs, results**
- **Viral spread of research work**

Better Approach for Cybersecurity

Research Questions within the 3 Themes are all excellent candidates for viralness and collaboration

- **Tailored Trustworthy Spaces**
- **Moving Target**
- **Cyber Economic Incentives**

Examples of corporate commitment to collaboration

- Deep community engagement MSR and Trustworthy Computing researchers
- Salutary but not lone example: **Yi-Min Wang,** Director of the MSR Internet Services Research Center (ISRC), and IEEE 2010 Fellow for contributions to Dependable Computing and Web Security
- Microsoft **BlueHat Security Forums** – no longer just internal, no longer Redmond only.
  - Attendees span local and regional business and industry, government, academia, CERTs and security researcher communities
  - March 2010 – BlueHat Forum in Brazil (100 attendees with us here today from across Latin America)
- Increased volume of publishing, e.g. papers this week
- Aligned with open-skies approach on SDL, vulnerabilities/patches

Government/Academia/Industry

- **The Manhattan Project for cybersecurity already exists**
- **Government's role in funding and guiding research is appropriate and welcome**