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Innovation in the Changing Landscape of Defending Information

A Washington Meme

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[RSA: Chertoff Likens U.S. Cyber Security To 'M](#)
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[Homeland Security secretary proposes 'Manhattan Project' | News ...](#)
Apr 8, 2008 ... Homeland Security Secretary Michael Chertoff says Silicon Valley should send ... that the country **needs** a "Manhattan Project" for network security, ... national **cybersecurity** initiative...almost like a **Manhattan Project**. ... computer security is to unask your **own** question because **it's** so clueless. ...
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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 three most promising themes for new Information Security advance are all excellent candidates for viralness and collaboration

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

Examples of one company's corporate commitment to collaboration

- Formation 2004 of MS Institute, substantial engagements with USG
- Deep government & community engagement by our MSR and Trustworthy Computing researchers
- 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
 - Since March 2010 also open to 5-eyes community for info-sharing
- Increased volume of publishing, e.g. papers this week at <http://research.microsoft.com>

10th and most important

- **The Manhattan Project for information security already exists,** in public/private partnerships among government, academia, industry
- **Government's role in funding and guiding research is appropriate and welcomed by all players**
- **Government will rarely play the sole thought-leadership role in continuing technological advance**