Tackling Local Challenges through Smart Cities

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A Strategy for American Innovation

A STRATEGY FOR AMERICAN INNOVATION

National Economic Council
and
Office of Science and Technology Policy

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White House Smart Cities Initiative

Summary: $160 Million in Federal research investments and more than 25 new technology collaborations to help cities solve problems.

“Every community is different, with different needs and different approaches. But communities that are making the most progress on these issues have some things in common. They don't look for a single silver bullet; instead they bring together local government and nonprofits and businesses....”

– President Barack Obama
Examples of Federal Smart Cities Activities

Smart City Application Areas

- Built Environment
- Energy
- Government Ops.
- Health
- Human Services
- Public Safety
- Public Engagement
- Telecommunications
- Transportation
- Climate
- Water

Federal Agencies and Programs

- DOE: Smart Building Technologies
- DOE: Smart Grid
- NSF/HHS: Smart and Connected Health
- NSF: Cross-Cutting Research
- NIST: Cyber Physical Systems Standards
- NIST: Global City Teams Challenge
- NSF: U.S. Ignite
- NTIA: Community Broadband
- EPA: Air Monitoring
- EPA: Water Resilience and Security
- DOT: Connected Vehicle Research
- DOE: Connected and Automated Vehicles Research
- HHS: Community Health IT Adoption
- DHS: Urban Security
- HUD: Block Grants
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- NIST: Global City Teams Challenge

Research R&D  Testbed  Pilot Deployment  Scale  TA / Capacity Building / Financing
Next Steps/Seeding Discussion

• Interactions between humans and CPS: How do we bring the human element more deeply into CPS?

• Are there ways that the CPS research community can target research projects that face the fewest institutional barriers to adoption (i.e., possess a high potential for impact in theory and practice)?

• How does the CPS community most effectively engage with other disciplines and how do you build a community of reviewers for these projects?

• What linkages or complementary efforts – Federal or otherwise – would be instrumental in ensuring that your research advances gain adoption?
For follow up, I am available at:

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