Federal Efforts in Smart Cities R&D

Erwin Gianchandani

National Science Foundation

CRA's Snowbird Conference

July 18, 2016

White House "Smart Cities" Initiative Launched
September 2015

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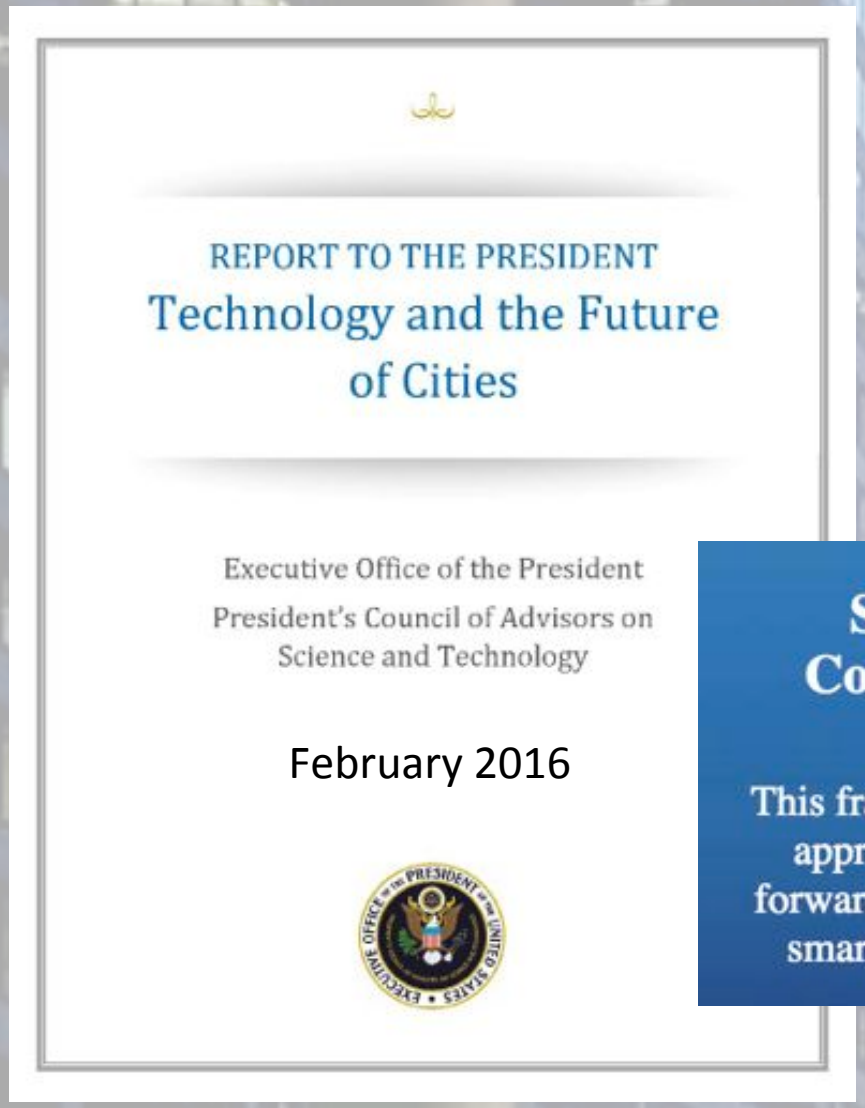
Launching a Smart Cities Initiative to Tackle City Challenges with Innovative Approaches

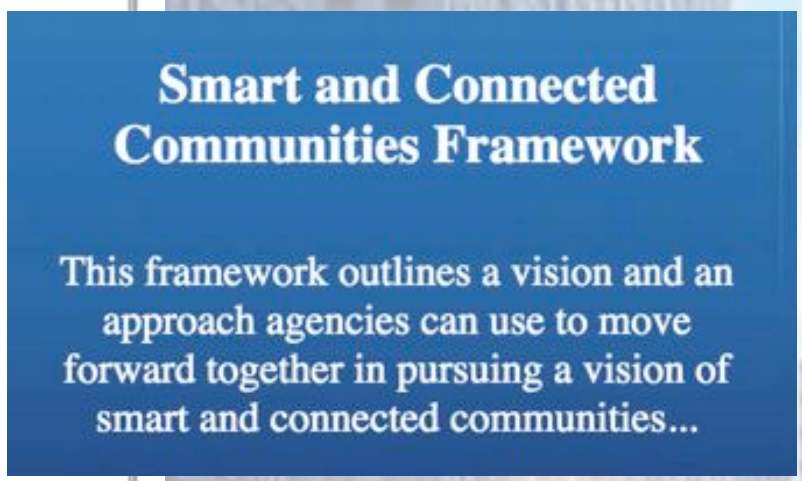
SEPTEMBER 16, 2015 AT 3:03 PM ET BY DAN CORREA

Summary: Over $160M in Federal research investments and more than 25 new technology collaborations to help cities solve problems announced at the Smart Cities Forum this week.

Over $160 million in federal research investments.
Over 25 new technology collaborations.

PCAST Report Calls for Federal Coordination to Identify Opportunities for Collaboration and Synergy





Agency Investments Align with their Mission
Collectively Spanning Research and Development to Deployment

GLOBAL CITY TEAMS CHALLENGE

NIST

usignite

NSF

Smart City Challenge

Columbus, Ohio, named winner of $50M prize, combined with nearly $100M in non-federal dollars raised.

DEPARTMENT OF TRANSPORTATION · UNITED STATES OF AMERICA

Array of Things (Chicago)

Douglas Pancoast & Satya Mark Basu,
School of the Art Institute of Chicago

Fundamental Research

- Cyber-Physical Systems, Advanced Networking, BIGDATA, Sociotechnical Systems

Building Community

- Workshops

NSF

NSF Provides the Foundation of Knowledge for Smart & Connected Communities

Cyber-Physical Systems

Human-Technology Interaction

Resource Optimization

Data analytics

Resiliency

Sociotechnical Systems

Security and Privacy

Urban Science

Smart Health

Advanced Networking

Cyber Learning

Education and Workforce Training

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