

Unleashing American Innovation

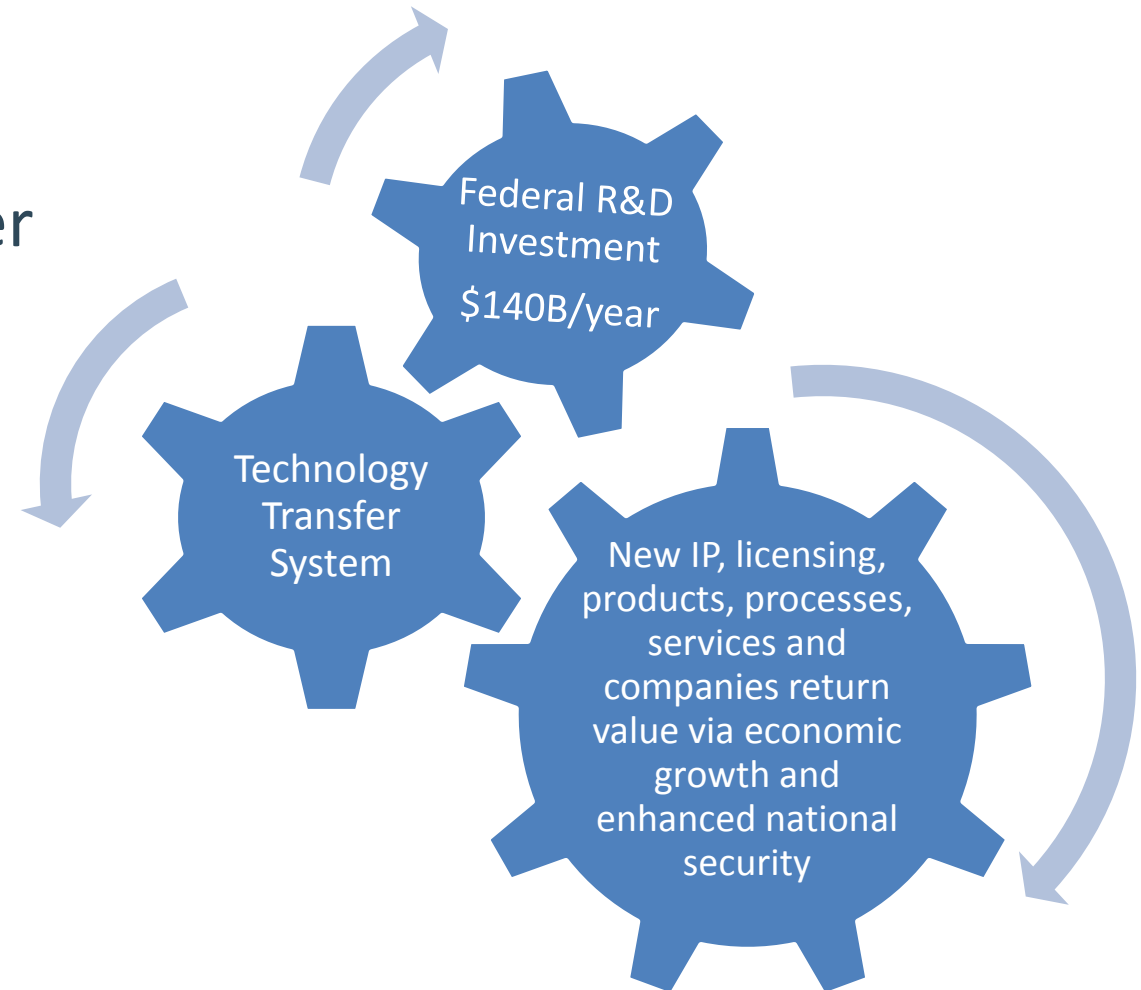
Return on Investment Initiative

Walter G. Copan, Ph.D

Undersecretary of Commerce for Standards and Technology

NIST Strategy for Federal Technology Transfer: **The ROI Initiative**

A comprehensive initiative to assess Federal technology transfer efforts, policies, and practices to ensure greater **Return on Investment (ROI)** from the Federal Government's nearly \$140B annual investment in research and development.



ROI: Administration Priorities

- R&D Priority Area
 - American Prosperity
- R&D Priority Practices
 - Increasing Government Accountability and Efficiency
 - Supporting Innovative Early-Stage Research
 - Maximizing Interagency Coordination



EXECUTIVE OFFICE OF THE PRESIDENT
WASHINGTON, D.C.



August 17, 2017

M-17-30

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: MICK MULVANEY *Mick Mulvaney*
DIRECTOR, OFFICE OF MANAGEMENT AND BUDGET

MICHAEL KRATSIOS *Michael Kratsios*
DEPUTY ASSISTANT TO THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY

SUBJECT: FY 2019 Administration Research and Development Budget Priorities

American leadership in science and technology is critical to achieving this Administration's highest priorities: national security, economic growth, and job creation. American ingenuity combined with free-market capitalism have driven, and will continue to drive, tremendous technological breakthroughs. American inventions have fundamentally changed the course of human history: the incandescent light bulb, the airplane, satellite navigation, and the internet have improved the lives of millions of Americans and billions around the world. In spurring future advances, Federal funding of research and development (R&D) programs and research infrastructure can play a crucial supporting role.

This memorandum highlights the Administration's R&D priority areas for formulating FY 2019 Budget submissions to the Office of Management and Budget (OMB). These priorities should receive special focus in agency budget requests. This memorandum also provides additional guidance on balancing new priorities with existing demands, encouraging agencies to focus on R&D investments that best serve the American people and are budget neutral.

ROI Vision and Goal

- **Vision**

- Unleash the innovation power of America into our economy

- **Goal**

- Implement changes necessary to **streamline** and **accelerate** transfer of technology from Federal laboratories and Federally-funded R&D at universities and research organizations that will:
 - promote U.S. economic growth and national security
 - attract greater **private sector investment** to create innovative products, processes, services, as well as new businesses and industries

ROI Objectives

- Identify **critically-needed improvements** to Federal technology transfer efforts by seeking broad input and participation from Federal R&D, intellectual property, and technology transfer stakeholders.
- **Specific objectives** are to identify:
 - **Core Federal technology transfer principles and practices** that should be protected, and those which should be adapted or changed.
 - Approaches to **improve efficiency and reduce regulatory burdens** of technology transfer to attract private sector investment in later-stage R&D, commercialization, and advanced manufacturing.
 - **New partnering models and technology transfer mechanisms** with the private sector, academia, other Federal agencies, State, and other public-sector entities to support technology development and maturation.
 - New approaches that will reduce or remove barriers, and enable accelerated technology transfer, with **focus on areas of strategic national importance**.
 - Better **metrics and methods** to evaluate the ROI outcomes and impacts arising from Federal R&D investment.
 - New approaches to **motivate significantly increased technology transfer outcomes** from the Federal sector, universities, and research organizations.

ROI: Partnering and Coordination

- Whole-of-Government effort with NIST as convener
 - Closely coordinate with the White House, OSTP, and NEC
 - Engage Federal agencies with R&D and technology transfer-related equities
- Broad stakeholder engagement
 - Industry (e.g., LES, IRI, COC, Think Tanks)
 - Academia (e.g., AUTM, COGR, AAU, APLU)
 - State and local government (e.g., Technology-Based Economic Development Organizations)
 - General Public
- Leverage existing interagency structures
 - Lab-to-Market NSTC efforts
 - Cross Agency Priority Goal
 - Interagency Working Group for Technology Transfer
 - Interagency Working Group for Bayh-Dole
 - Federal Laboratory Consortium

ROI: Timeline and Milestones

