



# Sustainability Strategy for the Department of Defense

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# Overview

Acquisition, Technology and Logistics

- Sustainability Executive Orders
- Strategic Sustainability Performance Plan (SSPP)
- Objectives, Goals, and Sub-Goals
- Governance Structure and Charter
- Next Steps



# Sustainability Executive Orders

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- **Executive Order (EO) 13514 represents a decisive move by the Obama Administration to instill sustainability into government operations**



- **Agency Requirements:**

- Establish Sr. Sustainability Official
- Establish GHG emission reduction targets
- Prepare a Strategic Sustainability Performance Plan



# Sustainability Executive Orders

Acquisition, Technology and Logistics

## ➤ Topical Requirements

- GHG emission reductions
- Increase energy efficiency
- Improve water efficiency
- Minimize generation of hazardous & non-hazardous waste
- Advance sustainable acquisition
- Sustainable Communities (coordination / planning)



EO 13423 "Strengthening Federal Environmental, Energy, and Transportation Management"

Signed January 24, 2007

Remains in Effect



# What is Sustainability to DoD?

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- The Department's vision of sustainability is to maintain the ability to operate into the future without decline – either in the mission or in the natural and manufactured systems that support it.
- DoD embraces sustainability as a means of improving mission accomplishment.
- Sustainability is not an individual Departmental program; rather, it is an organizing paradigm that applies to all DoD mission and program areas.





# What is Meant by “Sustainability”?

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➤ To DoD that means:

*Reducing  
Costs*

**Consideration of  
sustainment  
implications –  
readiness &  
warfighting**

*Addressing  
Mission  
Needs*

*Evaluating  
Trade offs*

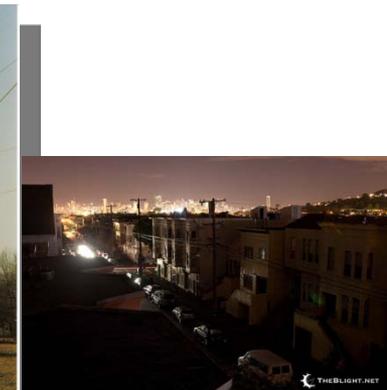
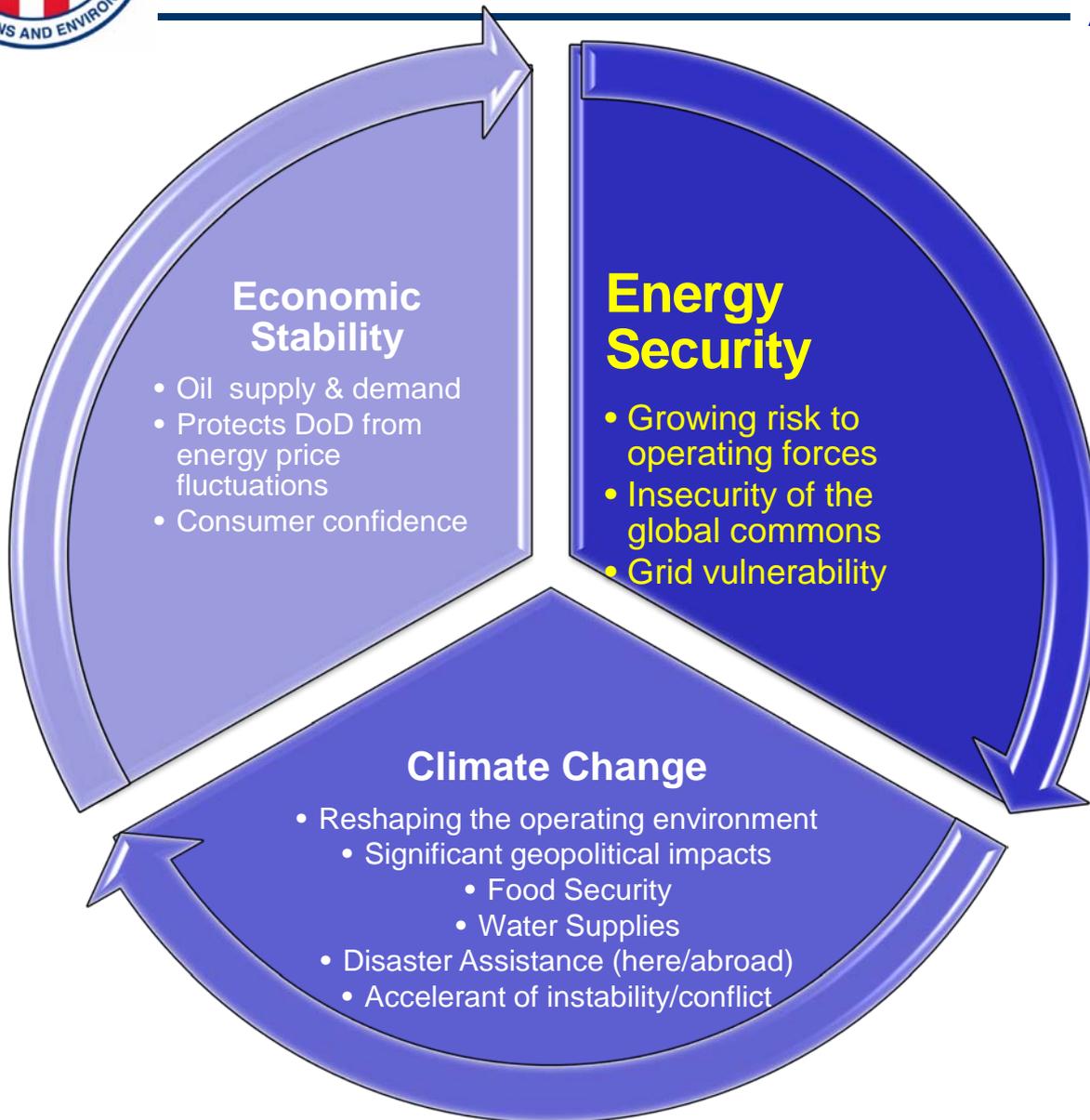
**Consideration of life  
cycle implications**

**Informed decision  
making**



# Energy - What's in it for DoD? National Security!

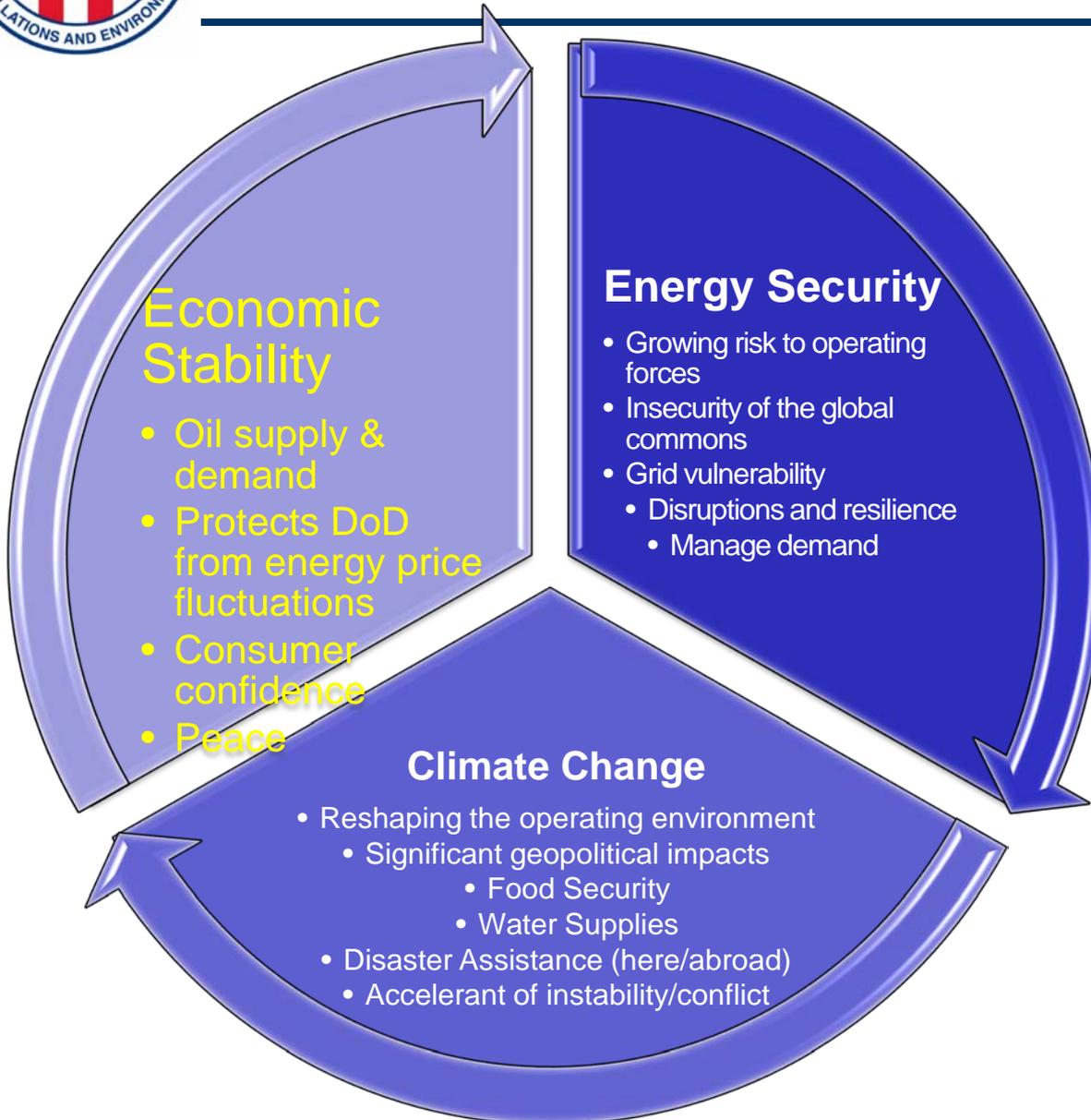
Acquisition, Technology and Logistics





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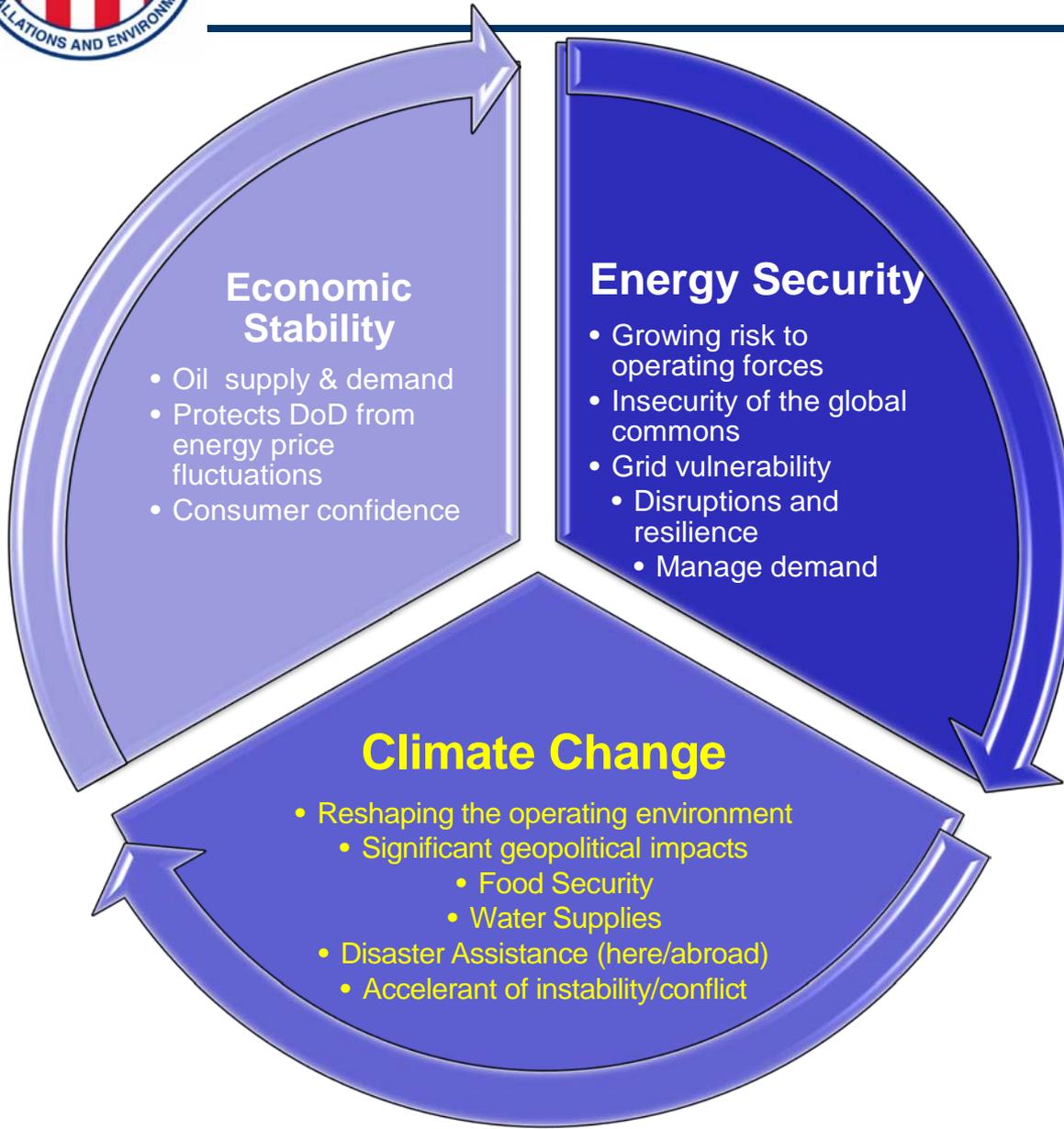
Acquisition, Technology and Logistics





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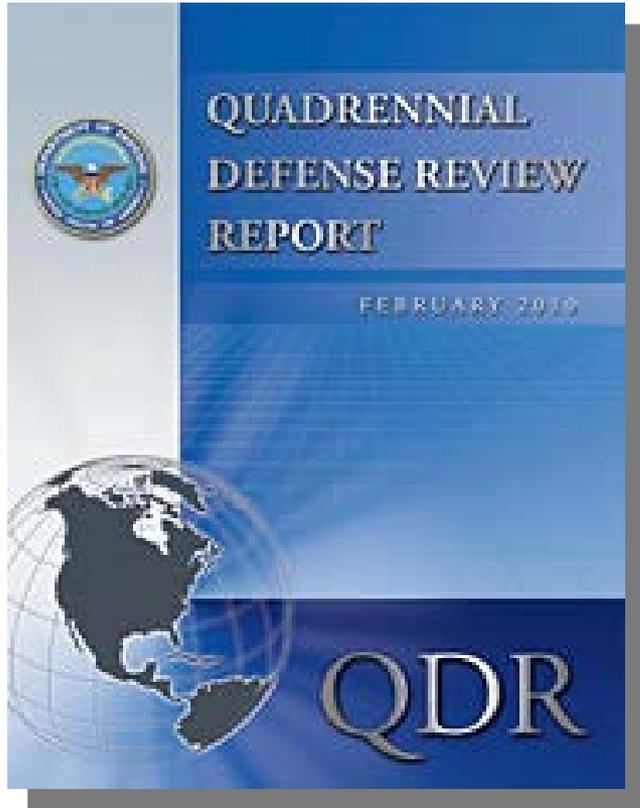
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# Sustainability – Strategic Drivers

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Climate Change and energy are two key issues that will play a significant role in future security environment. Although they produce distinct types of challenges, climate change, energy security and economic stability are inextricably linked. The actions that the Department takes now can prepare us to respond effectively to these challenges in the near term and in the future... DoD will need to adjust to the impact of climate change on our facilities and military capabilities... **The Department is increasing its use of renewable energy supplies and reducing energy demand to improve operations effectiveness, reduce greenhouse gas emissions in support of US climate change initiatives, and protect the Department from energy price fluctuations.**

*QDR Feb 2010*



# Strategic Sustainability Performance Plan



# DoD's Strategic Sustainability Performance Plan

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**Vision:** Maintain our ability to operate into the future without decline - either in the mission or in the natural and manufactured systems that support DoD's mission.

Built on  
4 Key  
Mission  
Oriented  
Themes

Continued Availability  
of Resources

DoD is a US Gov't  
Leader in reducing  
GHGs



Minimize Waste &  
Pollution

Mgm't & Practices  
Built on Sustainability  
and Community



# DoD Sustainability Goals

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## Reduce Use of Fossil Fuels

- Reduce energy intensity
- Increase use of renewable sources



## Reduce Greenhouse Gas Emissions

- Scope 1 and 2 by 34%
- Scope 3 by 13.5%

## Improve Water Resources Management



## Minimize & Optimally Manage Solid Waste



## Minimize Chemicals of Concern



## Sustainability is Built into DoD Mgmt Systems & Becomes the Norm





# DoD Objectives, Goals and Sub-Goals

Acquisition, Technology and Logistics

## Objective #1: The Continued Availability of Resources Critical to the DoD Mission is Ensured

### GOAL #1: The Use of Fossil Fuels Reduced

1.1	Energy Intensity by DoD Facilities Reduced by 30% of FY 2003 Levels by FY 2015 and 37.5% by FY 2020
1.2	18.3% of Energy Consumed by DoD Facilities is Produced or Procured from Renewable Sources by 2020
1.3	Use of Petroleum Products by Vehicle Fleets Reduced 30% by 2020 Relative to 2005

### GOAL #2: Water Resources Management Improved

2.1	Potable Water Consumption Intensity by Facilities Reduced by 26% of FY 2007 Levels by FY 2020 (contributes to energy goals)
2.2	DoD Industrial and Irrigation Water Consumption Reduced by 20% of FY 2010 Levels by FY 2020 (contributes to energy goals)
2.3	All DoD Development and Redevelopment Projects of 5,000 Square Feet or Greater Maintain Pre-Development Hydrology to the Maximum Extent Technically Feasible



# DoD Objectives, Goals and Sub-Goals, cont.

Acquisition, Technology and Logistics

## Objective #2: DoD is a U.S. Government Leader in Reducing Greenhouse Gas Emissions

3	Reduce Greenhouse Gas Emissions from Scope 1 and 2 Sources 34% by 2020, Relative to FY 2008
4	Reduce Greenhouse Gas Emissions from Scope 3 Sources 13.5% by 2020, Relative to FY 2008
4.1	Greenhouse Gas Emissions from Employee Air Travel Reduced 15% by FY 2020 Relative to FY 2011 (contributes to national energy goals)
4.2	30% of Eligible Employees Teleworking at Least Once a Week, on a Regular, Recurring Basis, by 2020 (contributes to national energy goals)
4.3	50% of Non-Hazardous Solid Waste Diverted from Disposal in Landfills Not Owned by DoD by 2015 and Thereafter Through 2020 (contributes to energy goals)



# DoD Objectives, Goals and Sub-Goals, cont.

Acquisition, Technology and Logistics

## Objective #3: The Ongoing Performance of DoD Assets Ensured by Minimizing Waste and Pollution

### GOAL #5: Solid Waste Minimized and Optimally Managed

5.1	All DoD Organizations Implementing Policies by FY 2014 to Reduce the Use of Printing Paper
5.2	50% of Non-Hazardous Solid Waste Diverted from the Waste Stream by 2015 and Thereafter Through 2020
5.3	60% of Construction and Demolition Debris Diverted from the Waste Stream by 2015, and Thereafter Through 2020
5.4	Landfills Recovering Landfill Gas for Use by DoD: Two by FY 2012 and Ten by 2020 (contributes to energy goals)

### GOAL #6: The Use and Release of Chemicals of Environmental Concern Minimized

6.1	15% Reduction of On-Site Releases and Off-Site Transfers of Toxic Chemicals by 2020, Relative to 2007 (can contribute to energy goals)
6.2	100% of DoD Excess or Surplus Electronic Products Disposed of in Environmentally Sound Manner
6.3	100% of DoD Personnel and Contractors that Apply Pesticides Properly Certified Through 2020



# DoD Objectives, Goals and Sub-Goals, cont.

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## Objective #4: Continuous Improvement in the DoD Mission Achieved through Management and Practices Built on Sustainability and Community

### GOAL #7: Sustainability Practices Become the Norm

**7.1 95% of Procurement Conducted Sustainably (can contribute to energy goals)**

**7.2 15% of Existing DoD Buildings Conform to the Guiding Principles on High Performance and Sustainable Buildings By FY 2015, Holding Through 2020 (contributes to energy goals)**

### GOAL #8: Sustainability Built into DoD Management Systems

**8.1 All Environmental Management Systems Effectively Implemented and Maintained (should assist energy goals)**

**8.2 The Sustainability of Transportation and Energy Choices in Surrounding Areas Optimized by Coordinating with Related Regional and Local Planning (contributes to DoD and national energy goals)**

**8.3 All DoD Installations Have Integrated Pest Management Plans Prepared, Reviewed, and Updated Annually by Pest Management Professionals**



# Senior Sustainability Governance Structure



# Governance Structure

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Non-tactical  
Fleet

Facilities  
Infrastructure

DoD  
Energy

Green  
Procurement

Chemical  
Mgmt



# Next Steps

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## Next Steps

- Additional formal direction to Military Departments to implement the objectives, goals, and sub-goals
- Develop a portal to manage
  - Starting to track budgets and baseline
  - Capture success stories
- Outreach on the plan





# Conclusion

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*Services, programs, and DoD offices will need to work together to fulfill the goals outlined in the new Executive Order*



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