



# Building a Climate-Ready Nation: Service Evolution and the Importance of Partnerships

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NOAA



# The Science is Clear and Compelling

**Human-induced climate change *is already* affecting many weather and climate extremes** in every region across the globe. Evidence of observed changes in extremes such as **heatwaves, heavy precipitation, droughts**, and tropical cyclones, and, in particular, their attribution to human influence, has strengthened in recent years.

Many changes in the climate system become larger in direct relation to increasing global warming. They include **increases in the frequency and intensity of hot extremes, marine heatwaves, heavy precipitation**, and, in some regions, agricultural and ecological **droughts**; an **increase in the proportion of intense tropical cyclones**; and **reductions in Arctic sea ice, snow cover and permafrost**.

# ...and is Driving US Climate Action

- **Executive Orders, incl. EO 14008 *Tackling the Climate Crisis at Home and Abroad***
  - Leverage the Federal Government's Footprint and Buying Power to Lead by Example:
  - **Sec 211:** Every agency to **develop a plan to increase the resilience of its facilities and operations** to the impacts of climate change and directs **relevant agencies to report on ways to expand and improve climate forecast capabilities – facilitating public access to climate-related information** and assisting governments, communities, and businesses to **prepare for and adapt to the impacts of climate change.**

# 211D Report

## Opportunities for Expanding and Improving **CLIMATE INFORMATION AND SERVICES FOR THE PUBLIC**



REPORT TO THE NATIONAL CLIMATE TASK FORCE • OCTOBER 2021



- **Recommendation 1:** Focus climate services on the challenges that pose the greatest risks and opportunities to society.
- **Recommendation 2:** Foster interagency coordination and strategic public-private partnerships to develop, deliver, and continually advance climate services.
- **Recommendation 3:** Enhance the usability, translation, and relevance of climate services to support use by all Americans.
- **Recommendation 4:** Strengthen core science capabilities needed to expand and improve climate services.



# Recommendations for climate services that address the greatest risks and opportunities to society?



- Inform **drought** preparedness and response
- Inform decision making around current and future **flood risks**
- Improve **coastal resilience** to inundation and hazards
- Improve understanding of, and resilience to, **extreme heat**
- Enhance the resilience of the U.S. to **wildfires**

Build partnerships between providers and users.



# NOAA Priorities

*Science, Service and Stewardship*



## Climate

Advance NOAA's capabilities as a primary authoritative source for climate products and services and apply these to a diverse range of missions in collaboration with a growing and thriving climate service enterprise.



## Balance

Undertake complementary work on environmental stewardship and economic development with a particular focus on the New Blue Economy.



## Equity

Exhibit equity in how we build and provide services. Within NOAA, we will promote diversity, equity, inclusion and accessibility in the workforce. Externally, we will provide equitable access to our products and services.



# Climate-Ready Nation Vision Statement

A thriving Nation whose prosperity, health, security, and continued growth benefit from and depend upon a shared understanding of, and collective action to reduce, the impacts of climate change





# Climate-Ready Nation Initial Risk and Focus Areas



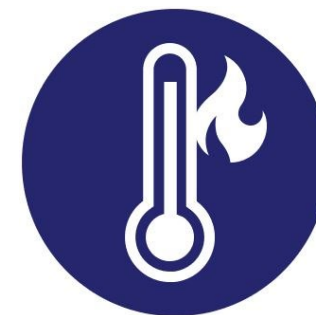
**Wildfire**



**Drought**



**Flood**



**Heat**



**Coasts**



**Marine Resources**

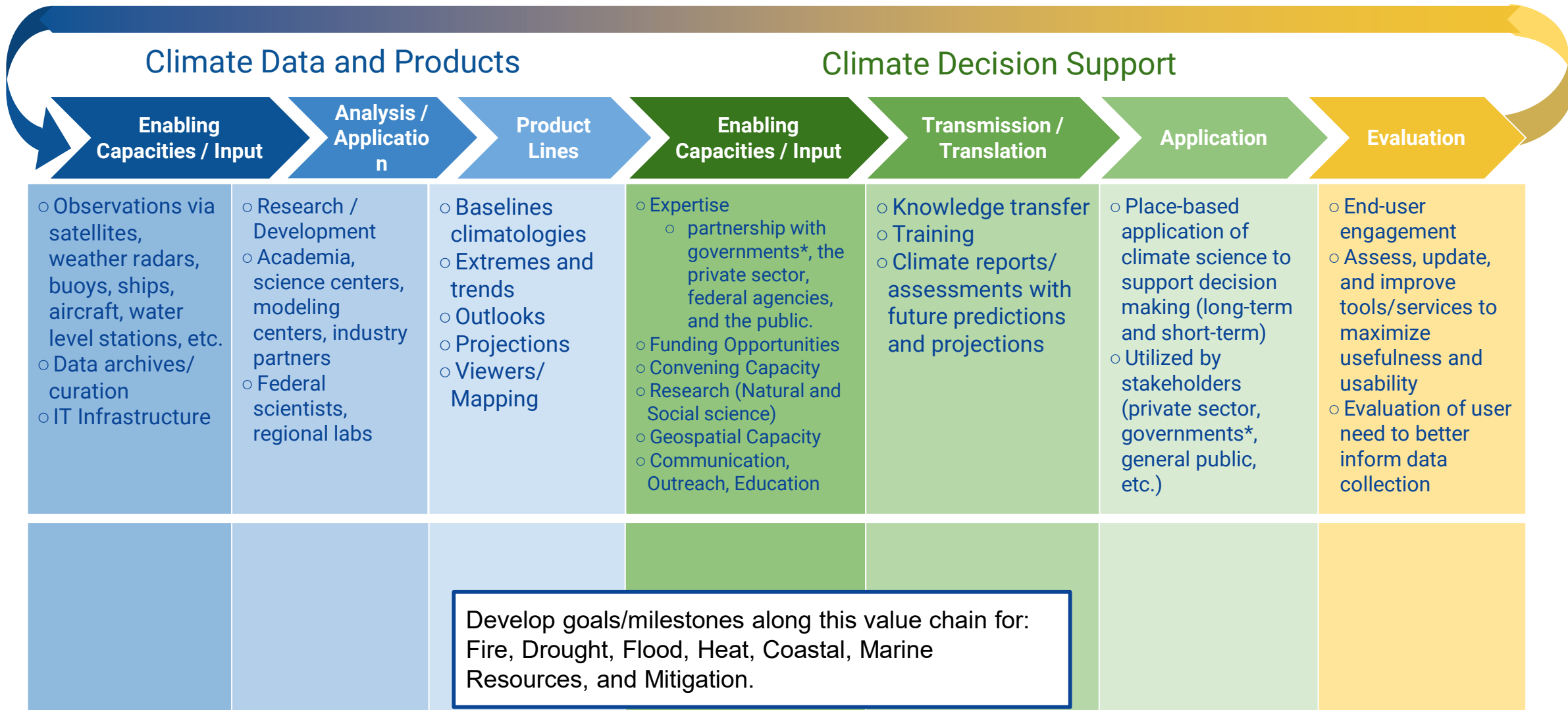


**Mitigation**










# Climate-Ready Nation: an evolution of expertise

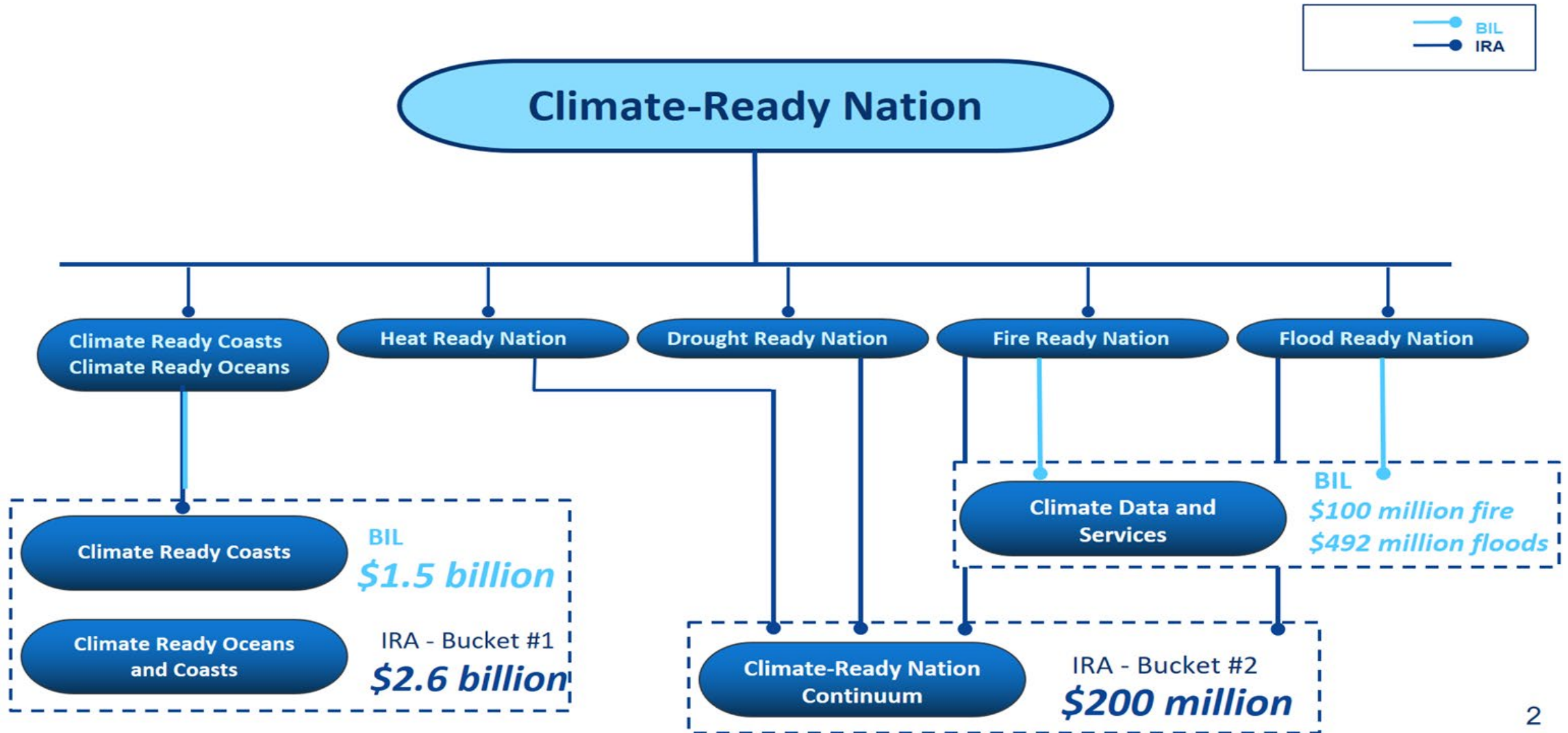




# Partnerships are Essential

- Targeting service delivery to **state and local leaders, including leaders in communities,**
  - Engaging with **Tribal communities** and leaders, recognizing the value of traditional knowledge and, simultaneously, that climate change poses particular threats to indigenous populations
  - Working with **businesses and the private sector** to enable a robust public-private service delivery enterprise;
  - Working with **academic institutions and NGOs**, across the US;
  - Supporting **other members of the Federal government** in climate-proofing their investments; and
  - Empowering **the public** to take action in their own lives.
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# An Unprecedented Opportunity





The ultimate goal is to grow a **Climate Service Enterprise** that provides reliable, fit-for-purpose information and support to decision makers at all levels of society to build resilience to climate change.

# Thank You!

