



# WEATHER PROGRAM OFFICE

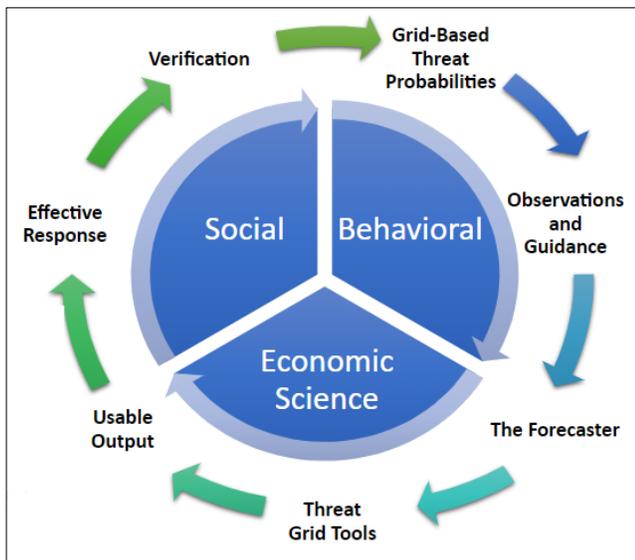
National Oceanic and Atmospheric Research

## Who We Are

The **Weather Program Office (WPO)** supports world-class weather and air quality research to save lives, reduce property damage, and enhance the national economy. In pursuit of its vision and mission, OWAQ works closely with the weather enterprise and the National Weather Service (NWS) to develop and transition weather and air quality research from minutes out to seasons, including hurricanes, severe thunderstorms, heavy precipitation, and air pollution.

## FACETs Program

**Forecasting a Continuum of Environmental Threats (FACETs)** is an evidence-based framework that modernizes the creation, communication, and dissemination of risk-based, probabilistic hazard information to inform effective response. The seven FACETs include: **Grid-based threat probabilities, observations and guidance, the forecaster, threat grid tools, usable output, effective response, and verification.**



**The FACETs Paradigm** is rigorously informed by the social, behavioral and economic sciences (SBES). Through this SBES research, FACETs is improving the efficacy and utility of model output, visualizations, graphics, and messaging. The result is improved risk-based decision making by emergency managers, emergency responders, schools, medical facilities and the general public. The FACETs framework includes development and application of superior model input, superior model output, products, services, and the alignment of the associated hardware, software, system viewers, forecaster process, and presentation of the hazard information.

**The WPO FACETs Program** is invested in the expansion of the FACETs concepts to all weather hazards within a time and space continuum of data and information by establishing strategic science and technical goals which will guide the research efforts in alignment with operational feasibility. The FACETs Program vision is to build a community of interdisciplinary experts (researchers, forecasters, modelers, physical and social scientists, programmers, policymakers, etc.) that modernizes environmental information (weather, water, climate) through characterizing probabilistic information that when integrated with the end-user decision context produces meaningful information that helps save lives, reduces property damage, and enhances the national economy. The FACETs vision can only be realized through strong coordination and collaboration between OAR and NWS FACETs Teams and Working Groups working in parallel to expand the FACETs Paradigm.



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