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Session 9a - Designing and delivering seamless services.

Title: Toward the Implementation of Flood Inundation Mapping Services to the Nation

The NOAA National Weather Service (NWS) has a mission to provide weather, water and climate data, forecasts, warnings, and impact-based decision support services for the protection of life and property and enhancement of the national economy. Emergency Management partners across the nation have expressed a critical need for the provision of more detailed flood forecasts and for event-driven flood inundation mapping (FIM) as a high value source of actionable information for emergency and water resource managers to prepare, mitigate, and respond to flood impacts. In response, the NWS National Water Center, in coordination with River Forecast Centers (RFC) and Weather Forecast Offices (WFO) and Federal and academic partners, has developed high-resolution inundation modeling capabilities providing geo-referenced visualizations of forecast flooding extent at the continental scale. Over the next 4 years, NOAA will revolutionize water prediction capabilities by providing forecast FIM services for nearly 100% of the U.S. population, covering over 3 million miles of the national stream network.