The Flood Risk Management Life-Cycle

When the unexpected begins to transition to routine you need to adapt without delay. Applying AECOMs Flood Risk Management Life Cycle can help.

1&2 Hazard Identification Risk Assessment

Get Smart: Analyze the current and future hazards and risks so you have the data you need for floodplain management, emergency management, and infrastructure investments

3&4 Risk Communication & Community Engagement Mitigation & Adaptation Planning

Create Information: Transform the data into information consumable by the public and decision makers and engage them in dialogue to develop actionable plans they support.

5&6 Project Design, Construction, Funding Risk Monitoring & Adaptation

Act: Making things happen demands more than good ideas, you need resources to reduce, avoid and openly transfer risks to levels acceptable given the benefits being gained by taking them. Moreover you need to monitor your progress and adapt to changing conditions.

A Risk Mitigation Actions

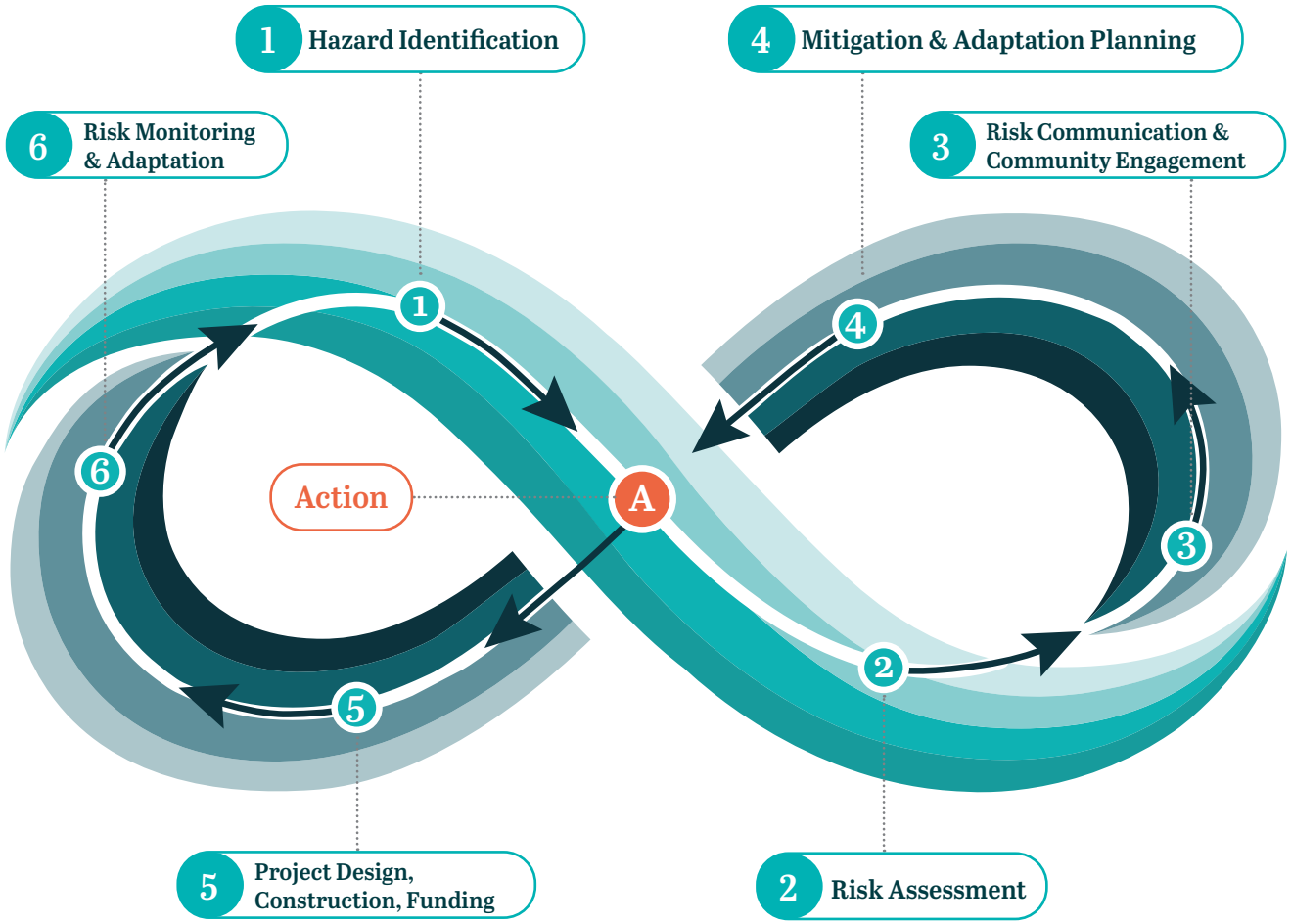
AECOM helps clients take appropriate actions when determining the best course of action to mitigate risk.

Avoidance: Land use and building codes help prevent future losses and help deliver equity to the community.

Reduction: Flood risk reduction projects mitigate risk to the community, environment and infrastructure.

Transfer: Insurance, catastrophe bonds, and fees can transparently transfer existing and potential risks.

Acceptance: Experienced risk managers properly balance the expected benefits with the risks being taken.



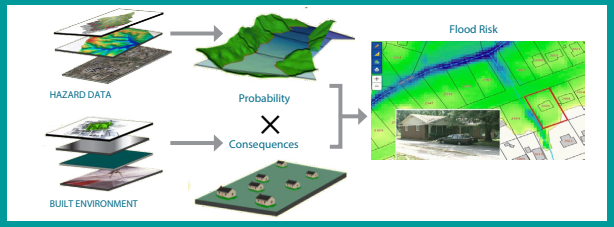
Breaking the 'Damage-Rebuild-Damage' Cycle

Bounce Forward: Modern building codes, sound land use practices and projects that deliver economic, environmental and social value position you to emerge from the next disaster stronger than you were before.

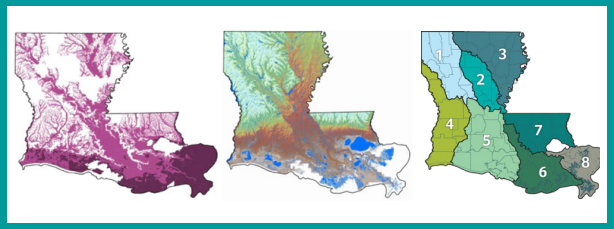
Get Stronger: Take what you learn from managing flood risk well and parlay it into managing other natural hazard risks like heat waves, wildfires, and earthquakes with skill and confidence.

Flood Risk Management Solutions

Rebuild by Design, Hudson River Project
AECOM improved physical, ecological, economic, and social resilience in Essex County, New Jersey severely impacted by Superstorm Sandy.



Mecklenburg County, NC, Flood Risk Reduction
AECOM developed of a community flood risk guidebook and integrated measures to provide storm-event flood inundation mapping and impact analysis.



Louisiana Watershed Initiative
AECOM transformed water resources management from geopolitical to a hydrologically-based system that supports the needs of the state's primary watersheds.

Learn more about AECOM's Flood Risk Management Services

To learn more about how AECOM can help manage flood risk in your community or state, contact one of our floodplain experts shown below.

Contacts:

- **Doug Bellomo, PE, PMP,** leads AECOM's flood risk and resilience practice and has more than 20 years of experience in hydrology, hydraulics, coastal storm surge, wave modeling, and map production, including topographic mapping, geographic information system applications, and web mapping services. *Reach out to Doug at (703) 859-1544 or doug.bellomo@aecom.com.*

- **Andrew Hadsell, PE,** is a flood risk solutions program manager and has more than 20 years of experience providing services including program and policy development, asset management, comprehensive watershed management, hazard mitigation and flood risk management, and development master planning. *Reach out to Andy at (919) 810-5762 or andrew.hadsell@aecom.com.*

Project References:

- **New Jersey, Rebuild by Design:** https://www.nj.gov/dep/floodresilience/rbd-hudsonriver.htm
- **Mecklenburg County, Flood Risk Assessment and Risk Reduction Plan:** https://charlottenc.gov/StormWater/Flooding/Documents/Flood_RARR_Plan-Final.pdf
- **Louisiana Watershed Initiative:** https://watershed.la.gov/

Flood Risk Management Services

North Area Flood Reduction Project, Sacramento CA

Green Brook Flood Reduction, Somerset County, NJ

Luce Bayou Flood Reduction, West Harris County, TX

James Creek Flood Reduction, Boulder County, CO

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