



Kenai Peninsula Borough Community Resilience Workshops

August 22nd, 23rd, and 24th



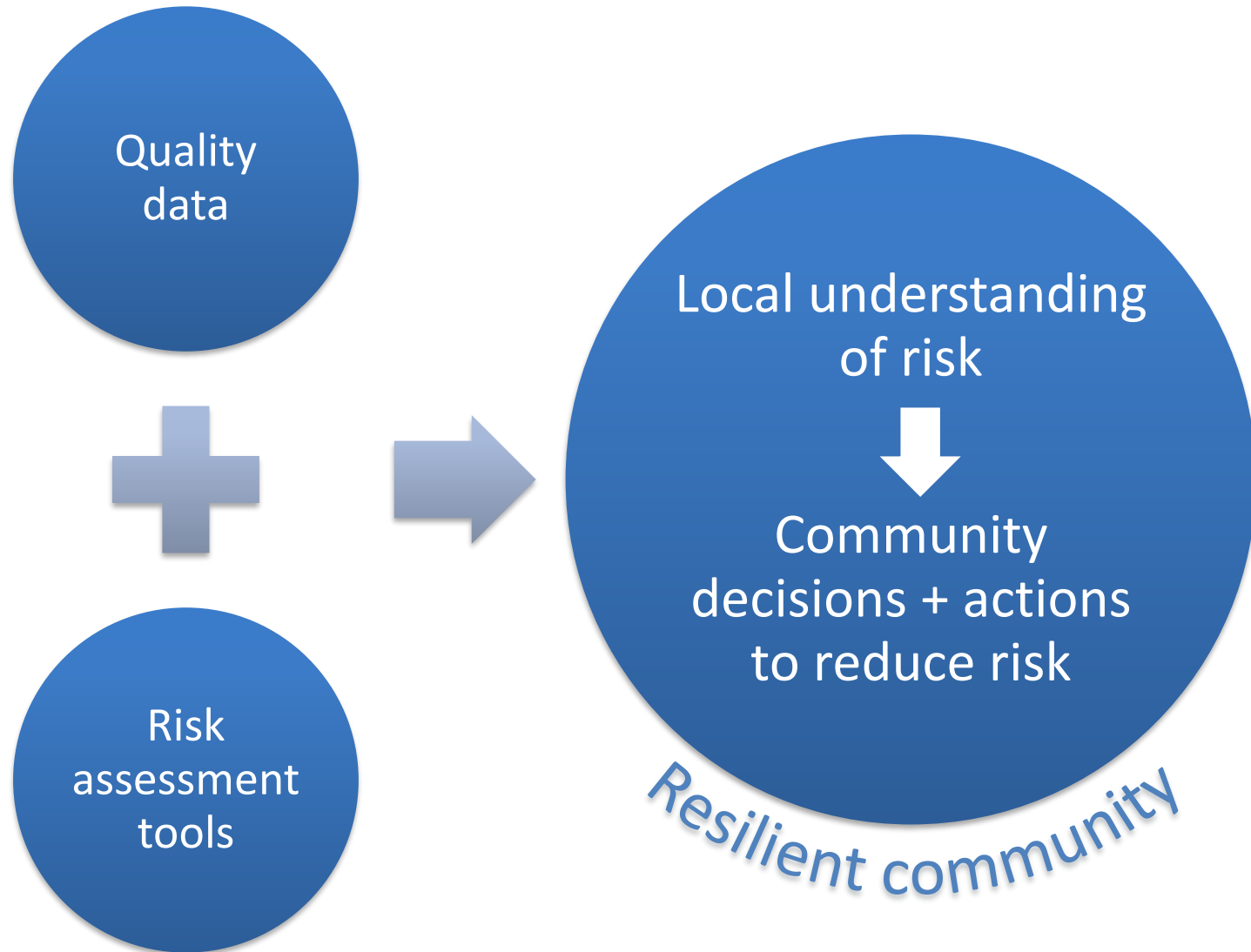
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DCRA's Mission

To promote strong communities and healthy economies



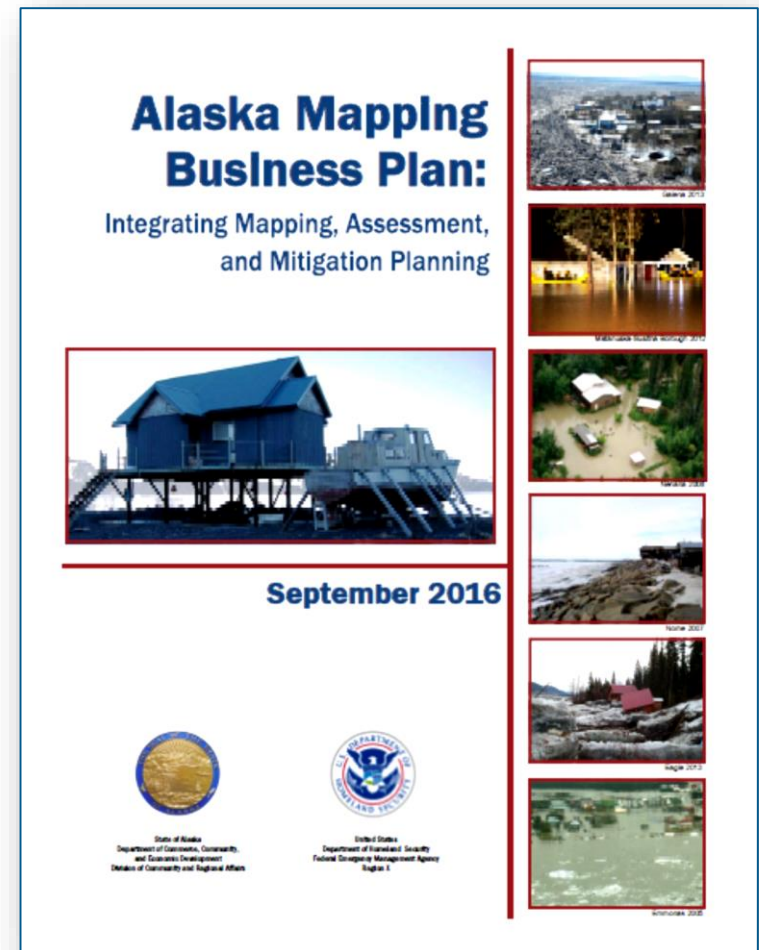
Strong communities are resilient communities



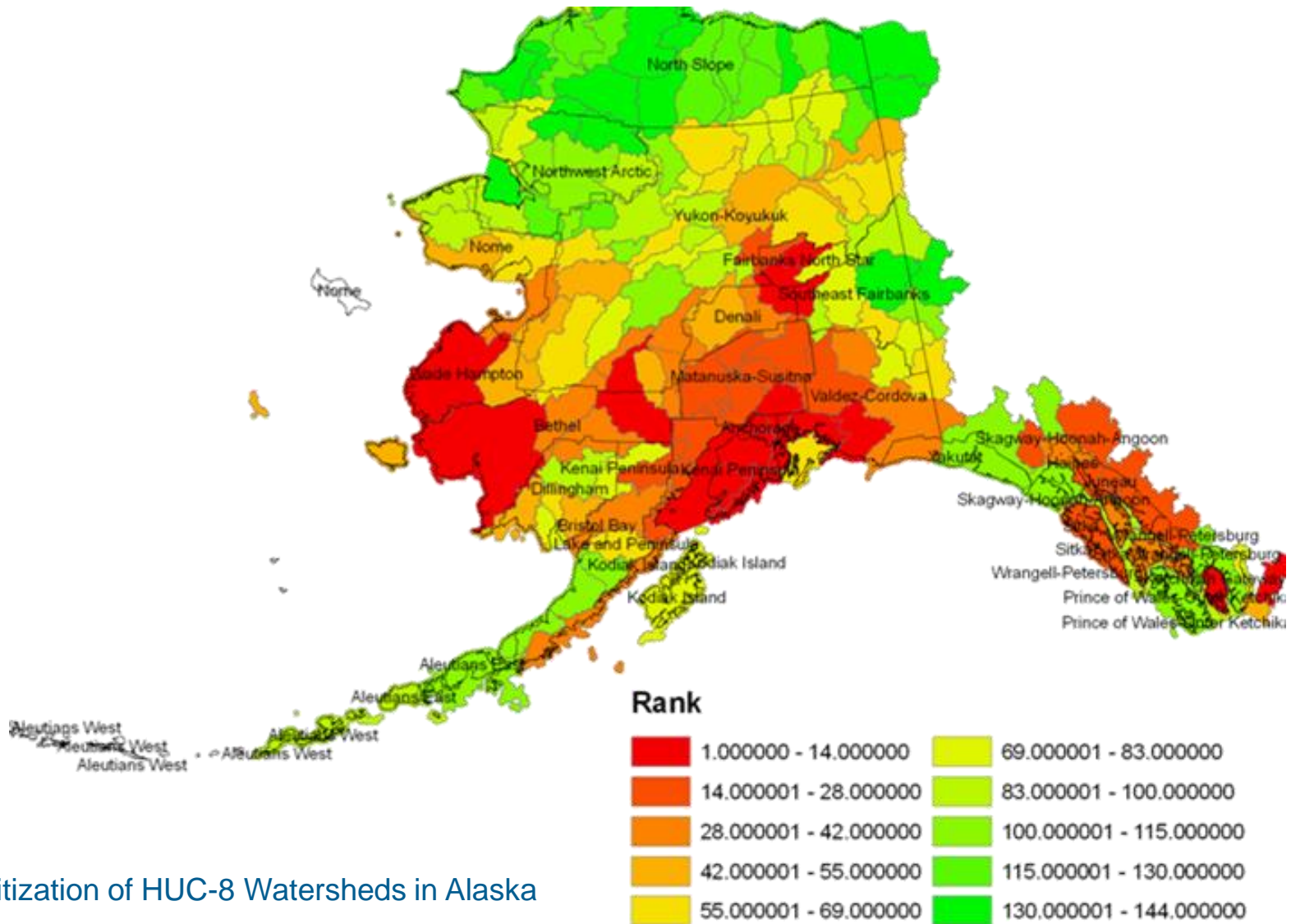
Setting Alaska's Mapping Priorities

Some of the criteria determining Alaska's priorities:

- Local Hazard Mitigation Plan
- Participation in the NFIP Community Rating System
- Number of Disaster Declarations
- In-House GIS Capabilities
- Planned Future Development



How communities are selected for Alaska Risk MAP Studies



Prioritization of HUC-8 Watersheds in Alaska

Today's Goals

1

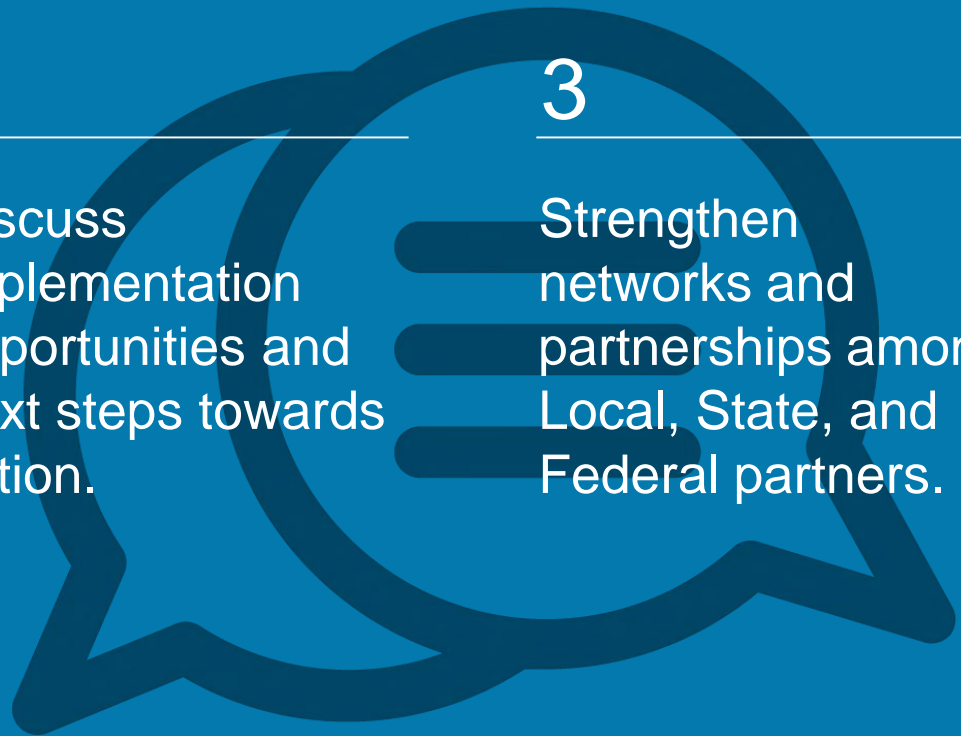
Identify one to two feasible actions to protect Infrastructure and reduce risk in your jurisdiction.

2

Discuss implementation opportunities and next steps towards action.

3

Strengthen networks and partnerships among Local, State, and Federal partners.



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Introductions

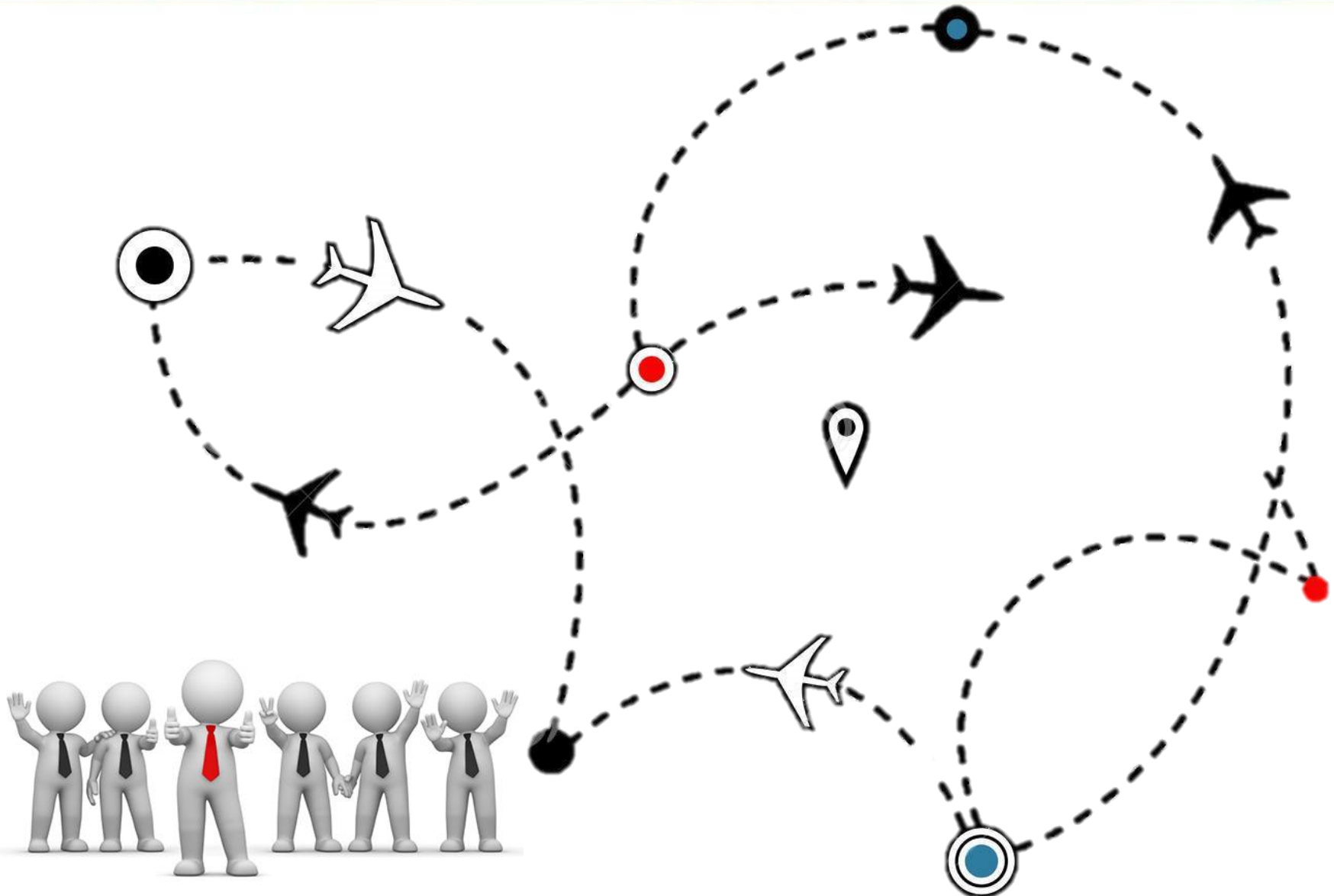
► Name, Title + Organization

Bonus Question:

Have you experienced a disaster?



Bringing Subject Matter Experts to You



Community Disaster Resilience

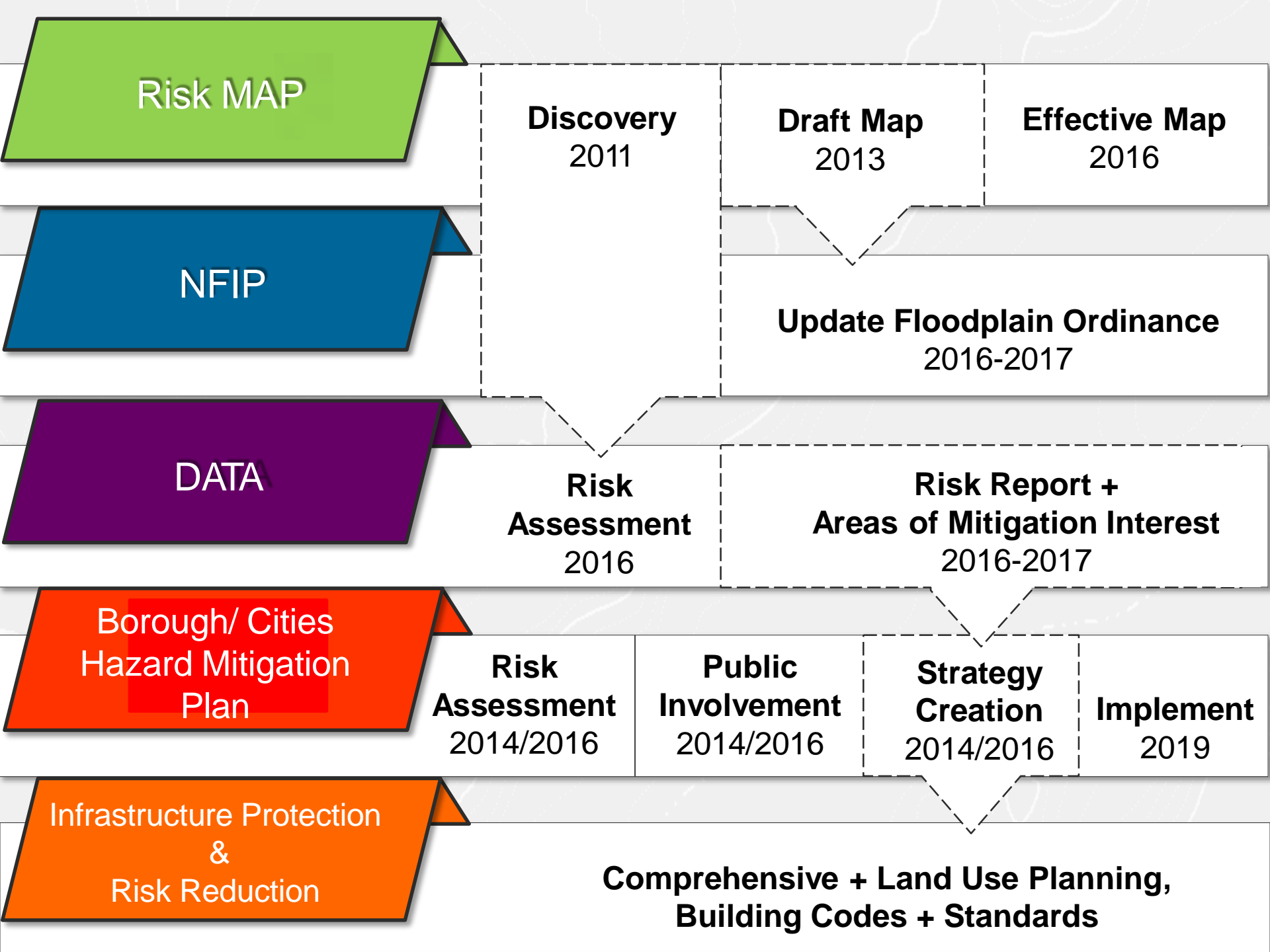
One (of many) definitions :

“Is the capacity of individuals, communities, institutions, businesses, and systems within a [community] to **survive, adapt, and grow** no matter what kinds of chronic stresses and acute shocks they experience.”

– The Rockefeller Foundation



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Risk MAP

Discovery
2011

Draft Map
2013

Effective Map
2016

NFIP

Update Floodplain Ordinance
2016-2017

DATA

Risk
Assessment
2016

Risk Report +
Areas of Mitigation Interest
2016-2017

Borough/ Cities
Hazard Mitigation
Plan

Risk
Assessment
2014/2016

Public
Involvement
2014/2016

Strategy
Creation
2014/2016

Implement
2019

Infrastructure Protection
&
Risk Reduction

Comprehensive + Land Use Planning,
Building Codes + Standards

Taking Action to Reduce Risk: Risk Report → Hazard Mitigation Plan → Real Life

HAZARD	PLAN LINK	OBJECTIVES, GOALS, & PROJECTS	RISK REPORT LINK	RISK REPORT STRATEGIES (FEMA RECOMMENDATIONS)
Flooding	All-Hazard Mitigation Plan; Goal 6.7	To assess and help identify floodplains.	Incorporate new flood hazard area, depth, and BFE+ grids for local assessments. Use Hazus Flood Output and AOMI section for areas most vulnerable to flooding.	<ul style="list-style-type: none"> • Consider limiting additional development in flood hazard zones. • Develop a priority list for essential facility flood capability enhancements. • Develop a buyout program for repetitive loss properties. • Provide outreach to homeowners and business-owners regarding flood risk.
Flooding	All-Hazard Mitigation Plan; 2.12 Strategy 2	Develop mechanisms to enhance floodplain permit compliance. Develop a project notification process to connect property owners with the appropriate floodplain, utility, and right-of-way construction permit information.	Host or link to new flood hazard data and Hazus flood outputs on local permitting website. Use data to prioritize development standards, code enforcement, NFIP enrollment, and educational outreach.	
Flooding	Comprehensive Plan; Goal 6.7, Objective 2	To increase local participation in decisions regarding development in floodplains and wetlands areas	Promote new flood hazard data to public through existing local events. Show flood hazard areas, the depth of flooding in select locations, and how development	

Characteristics, Needs, Priorities

What would you like to share in 3 minutes or less?

Please share an overview of important background information about your jurisdiction such as:

- ▶ Key infrastructure and risk reduction priorities,
- ▶ Concerns related to emergency management and hazard risk,
- ▶ Community characteristics that relate to risk, etc.

Your feedback will shape conversations throughout the day!



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Break!



Introducing the Experts:

- **What type of questions do you typically get from communities?**
- **What is the value you bring to the meeting today?**



Risk Mapping Assessment & Planning (MAP) Program

Expert: Cynthia McCoy, Risk Analyst, FEMA - Bothell, WA

Typical questions:

- How can you help me update my Hazard Mitigation Plan?
- How do I get funding to develop plans?
- How do I get funding to develop GIS data?
- How do I get funding for risk reduction products?
- What is resilience?

Value at today's meeting:

- Help make linkages between programs to make better use of resources
- Identify how resilience supports existing community land use and development goals

Contact information: Cynthia.McCoy@fema.dhs.gov
425-487-2241



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Natural Hazard Risk Assessments and GIS Data

**Expert: Marshall Rivers,
FEMA Contractor, STARR**



Typical questions:

- What data was used for these risk assessments?
- How were these risk assessments conducted?
- How can I access the data?



Value at today's meeting:

- Can explain risk assessment results from the Risk Report
- Can suggest areas where new data could improve understanding of risk



Contact Information:

George.Plumley@Alaska.gov
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Marshall.Rivers@atkinsglobal.com
425-245-0843

Hazard Mitigation Planning

Experts: George Grady, AK DHS&EM
Dan Belanger, DHS&EM
Toni Marie Pignatelli, FEMA Contractor



Typical questions:

- What are the requirements for a hazard mitigation plan?
- How do I update my hazard mitigation plan?
- What happens if my plan expires?



Value at today's meeting:

- Identify linkages between Risk MAP data and the hazard mitigation plan update
- Provide information on funding, technical assistance, and funding for hazard mitigation plans.
- Demonstrate opportunities for integration of the hazard mitigation plan into existing community plans.

Contact Information:

George.Grady@Alaska.gov
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Dan.Belanger@Alaska.gov
907-428-7034

Toni.Pignatelli@mbakerintl.com
781-370-2242

Alaska Coastal Resilience Strategies

**Experts: Sally Russell Cox, AK Risk MAP Coordinator, DCRA
Davin Holen (AK Sea Grant, University of Alaska)**

Typical questions:

- How can coastal communities increase their resilience?
- What assistance and tools are available to plan for resilience?
- What does planning for resilience mean?

Value at today's meeting:

- Can share examples of successful strategies used by other Alaska communities and native villages
- Can connect you with state and federal resources

Contact information: Sally.Cox@Alaska.gov
907-269-4588
dlholen@alaska.edu
907-274-9697



Coastal Resilience and the Coastal Training Program

**Expert: Syverine Abrahamson,
Coastal Training Program, Kachemak Bay National Estuarine
Research Reserve**

Typical questions:

- What research and monitoring is available on local hazards?
- What training and tools are available to plan for coastal resilience?
- Who is working on coastal resilience on the Kenai Peninsula?

Value at today's meeting:

- Can share examples of collaborative adaptation planning, successful adaptation indicators and metrics, and stakeholder engagement
- Can connect you with local, regional and national research and coastal management expertise

Contact information: isabrahamson@alaska.edu
907-235-4791



Floodplain Management and Insurance

Expert: John Graves, FEMA
Jimmy Smith, AK DCRA



Typical questions:

- What tools are available to help me enforce floodplain regulations?
- My community isn't in the NFIP, how do we develop and enforce floodplain regulations?
- How do I reduce flood insurance rates for homeowners in my community?

Value at today's meeting:

- Provide guidance on ordinance development and implementation
- Make available information on the Community Rating System (CRS)

Contact information: John.Graves@fema.dhs.gov
425-487-4737
Jimmy.Smith@Alaska.gov
907-269-4132



Storm Water Management

Expert: Jim Rypkema, AK DEC

Typical questions:

- How do I manage localized flooding caused by rain and snowmelt?
- How do I manage construction and development contaminants from entering local waterbodies?

Value at today's meeting:

- Provide guidance on development of a storm water management plan
- Link infrastructure protection and risk reduction goals with resilience and storm water management programs

Contact information: Jim.Rypkema@alaska.gov
907-334-2288



Risk Reduction Funding Opportunities

Experts: Brent Nichols (State Hazard Mitigation Officer, AK DHS&EM)
Alex Fonteyn (Resilience Specialist, AK DHS&EM)

Typical questions:

- How do I become eligible for FEMA grants?
- What funding opportunities are available for my risk reduction projects?
- How have other communities implemented their mitigation strategies?

Value at today's meeting:

- Provide examples of risk reduction success stories in other Alaska communities
- Clarify grant eligibility requirements and opportunities

Contact information: Brent.Nichols@Alaska.gov
907-428-7085
Alex.Fonteyn@Alaska.gov
907-428-7022





Facilitated Panel Discussion

Subject Matter Experts are Available for your questions!

Discussion Topics:

What resources (training, technical, outreach, funding, etc.) are needed to:

- Develop and implement your hazard mitigation strategies?
- Reduce vulnerability to natural disasters?
- Increase internal capacity?

Who are the responsible Local, State and Federal partners?

What are the (time bound) next steps to implement these measures?



Participant Report Out

- ▶ **Identify one new resource you learned about today.**
- ▶ **Provide one identified primary action item or next step for a prioritized strategy.**
- ▶ **Did you modify any of your mitigation strategies due to today's discussions?**
- ▶ **Did you find today's discussions valuable?**



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Training

- ▶ **Training services organized and coordinated by the State Training Officer**
 - DHS& EM directed training
 - National provider residential training program coordination
 - National provider direct local delivery coordination
- ▶ **For information on upcoming trainings, visit:**
<http://www.ready.alaska.gov/Preparedness/Training>

Eva Edwards: 907-428-7065; Eva.Edwards@Alaska.gov

Upcoming Trainings

Hazard Mitigation Planning

- ▶ G-318 Mitigation Planning for Local Governments
September 27-28, Anchorage, AK
- ▶ G-318 Mitigation Planning for Local Governments
November 1-2, Lakewood, WA
- ▶ [Coffee Break Webinars](#): Aug 25 “Incorporating Climate Adaptation into Hazards Mitigation Planning”

Risk Assessment

- ▶ Earthquake Safety and Mitigation for Schools (FEMA 395), Sept 19, 2017; Palmer, AK



Training

- ▶ **Coastal training services organized and coordinated by the Coastal Training Program:**
 - Workshops and Trainings connecting local science to management
 - Technical assistance in planning and facilitating meetings
 - NOAA Office For Coastal Management delivered trainings
- ▶ **For information on upcoming trainings, visit:**
<http://accs.uaa.alaska.edu/kbnerr/coastal-training-program>

Contact Syverine Abrahamson at 907-235-4791

Follow-up

► Next Steps

- Final Risk Report in Fall 2017
- Follow up actions – Alaska State and Federal Partners



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