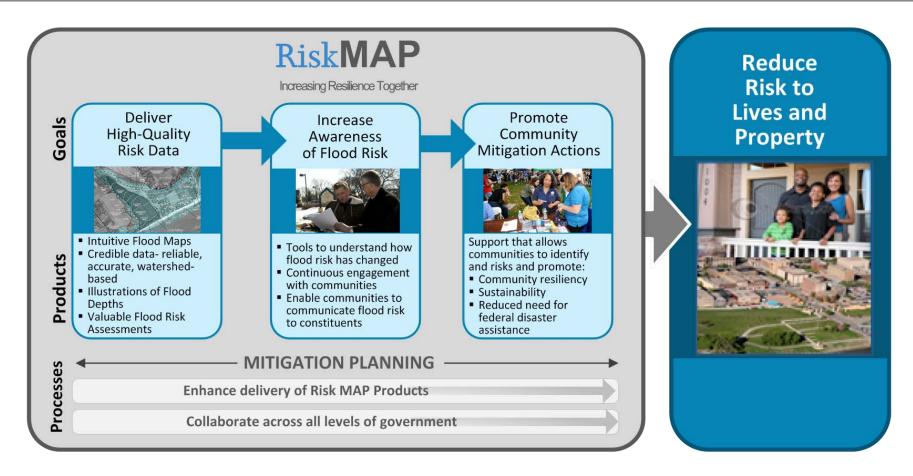


Flood Risk Review | March 21, 2022



#### RiskMAP, The NFIP & Hazard Mitigation Planning





## Risk Mapping, Assessment & Planning (MAP)



FEMA works with the State.

support the community in risk

reduction and resilience efforts.

community, and tribes to understand

needs, resources, and capabilities to

NEW REGULATORY FLOOD MAP NOT NEEDED

for a Regulatory Flood Map project, the final Discover Report is updated to reflect that decision. In lieu of a

Rood Map, State, local and tribal officials may request

FEMA and the State meet

and tribes to gather

information on their

perspective about local natural hazards and their risk. This information is used to prioritize future

mapping, risk assessment, and mitigation planning assistance

Stakeholder Coordination

Data Analysis

in-person with communities



## NFIP and the Kenai Peninsula Borough

- Kenai Peninsula Borough participates in the National Flood Insurance Program as well as the Community Rating System
- KPB floodplain maps are not all updated by this study:
  - 1981: Original FIS and mapping
  - 1999: First revision, Big Eddy area
  - 2016: Third revision, Coastal Hazard Analysis

- Purpose of the NFIP: reduce economic loss caused by flood events
- 257 NFIP policies
- \$73 million in property covered
- 75 paid losses (since 1978)
- \$600,000 paid (since 1978)
- CRS Class 9, 5% discount to all policyholders



## **Study Progress**

#### Flood Risk Review Meeting Objectives

- Review methodology, analysis and draft maps
- Discuss Next Steps







## **Key Responsibilities for NFIP-participating Communities**

- Determine whether proposed development activities are in SFHAs
- Review development proposals to ensure compliance with requirements of floodplain management regulations
- Require new subdivisions and development proposals with more than 50 lots, or larger than 5 acres, to include BFEs
- Issue or deny permits for floodplain development
- Inspect all development in SFHAs to ensure compliance
- Maintain records of issued permits, elevation data, inspections and enforcement actions
- Assist in preparation and revision of floodplain maps
- Help residents obtain information on flood hazards, floodplain map data, and compliant construction measures



#### **Scope of Work**

#### **USACE – Alaska District**

- 1-D detailed analysis for 47 miles, outlet of Skilak Lake to mouth of Kenai River
- Multi-frequency analysis (10%, 25%, 50%, 1% and 0.2%)
- Water surface elevation and depth grids
- 1-ft increment inundation (for gages)

#### STARR II

Floodway modeling and mapping



National Weather Service developed calibrated model with 1995 and 2012 flood events.



## **Benefits and Uses of Completed Analysis**

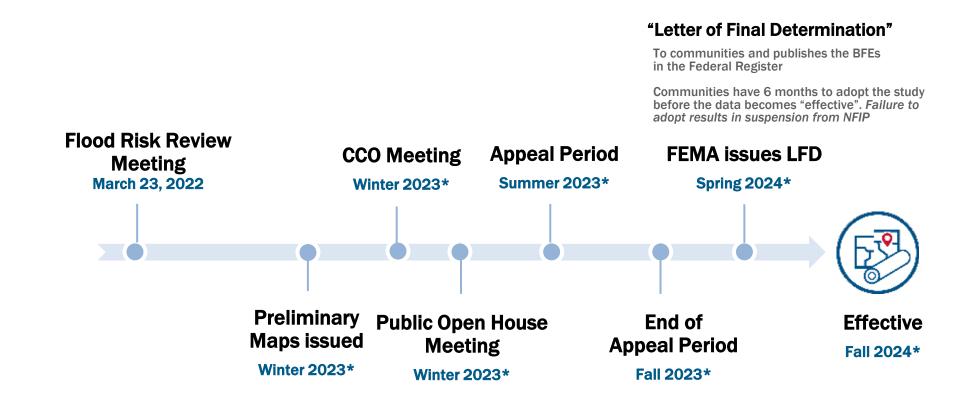
- Supplement regulatory products (FIRM/FIS)
- Best available information for BFE determinations for development and Letter of Map Amendments.
  Possibly Letters of Map Revision.
- Can be used for planning efforts emergency, mitigation, preparedness, land use, and capital improvements
- Provide data to inform Hazard Mitigation Plans
- Models are intended to be upgradable or enhanced. No need to start from scratch.







#### **Project Timelines Toward Map Adoption**





# **Review Questions**

- □ Are the new or revised floodplains consistent with your local knowledge of the flooding sources?
- □ Is water going somewhere it physically can not go?
- ☐ Are important map elements missing (roads, structures, bridges, culvert, etc.)?
- Are streams and significant features labeled correctly

Submit comments by March 31, 2022 to:

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