

# Snohomish County Hazards Mitigation Plan

Planning Committee Meeting



February 25, 2013



# Today's Agenda

- **9:00 – 9:05 AM** Welcome and Introductions
- **9:05 – 9:10 AM** Plan Development & Schedule
- **9:10 – 9:20 AM** Results of October Kick-off Meeting
- **9:20 – 9:50 AM** Goals and Objectives
  
- **9:50 to 10:00 AM** **BREAK**
  
- **10:00 – 10:20AM** Description of Public Process
- **10:20 – 10:30 AM** Closing & Next Steps

# 2015 Plan Development Schedule

October 2013 - Kickoff Meeting



January 2014 - Discovery Meetings - obtain background information



February 2014 – Planning Partners Meeting – agreement on hazards, goals and objectives



April 2014 – Regional Meetings– present hazards, risks, goals and objectives, develop mitigation strategies; introduce annex template



July 2014 – Regional Meetings - refine mitigation strategies in context of approved plans



September 2014 – Planning Partner Meeting - unveil draft plan



October 2014 – Public Meetings to present draft plan



**Nov/2014 –Finalize draft plan for regulatory agency submission**



Jan 2015 – Submit to Washington EMD for review and approval



Mar 2015 – Submit to FEMA for review and approval

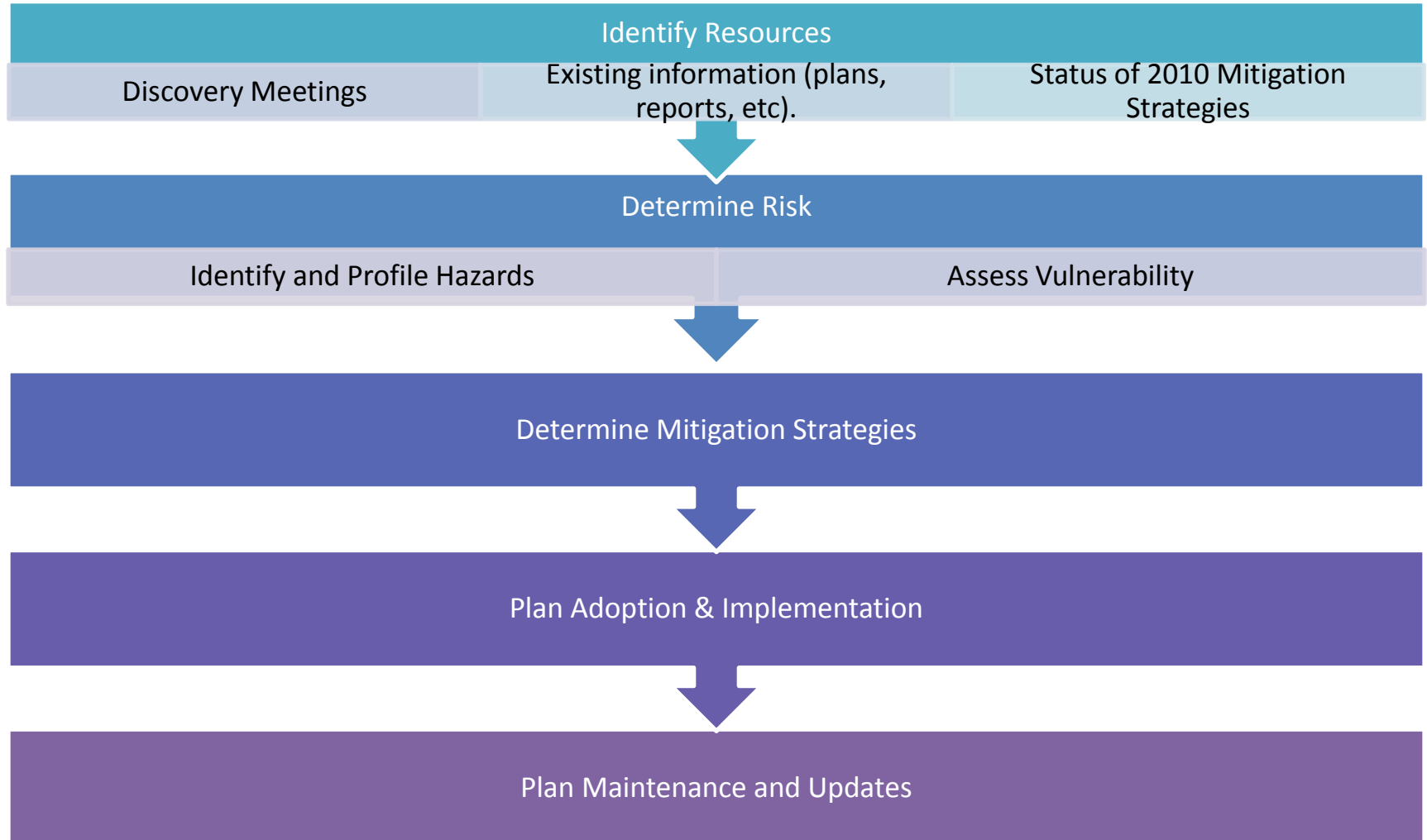


May 2015 –Plan adoption by planning partners



June 2015- 2020 – Plan Implementation and Maintenance

# Planning Process



# Snohomish County HMP Planning Regions



# Results from kick-off meeting

- Hazards Ranking
- Impacts Ranking

# Hazards Ranking

Rank	Snohomish County Overall	Southwest	Snohomish	Stillaguamish
1	Earthquake	Earthquake	Earthquake	Flooding, Dam (Levy) Failure
2	Severe Weather	Severe Weather	Severe Weather	Earthquake, Climate Change, Volcano
3	Flooding	Landslide & Mass Movements	Flooding/Landslide & Mass Movement	Landslide & Mass Movement/ Wildland Fire
4	Landslide & Mass Movements	Flooding	Climate Change	Severe Weather/Tsunami/Seiche/ Avalanche
5	Climate Change	Tsunami/Seiche	Dam Failure	
6	Dam Failure	Dam Failure, Avalanche	Tsunami/Seiche	
7	Tsunami/Seiche	Volcano	Wildland Fire	
8	Wildland Fire	Climate Change	Avalanche, volcano	
9	Avalanche, Volcano	Wildland Fire		
<b>Other hazard mentioned</b>	Hazardous Materials - Tier II & Pipelines	Pandemic/ Infectious Disease	Pandemic/ Infectious Disease	Levy Failure
<b>Other hazard mentioned</b>	Levy Failure		Hazardous Materials- railroad and pipelines	

# Impacts Ranking

## Stillaguamish

1. Resilience of infrastructure, Isolation, Mitigation projects not being cost effective
2. Disruption of local government operations, Threatened natural values (ecosystem goods and services), Threats posed by competing floodplain management and agricultural objectives
3. Reliability of local emergency operations, Vulnerability of structures, Reduced available open space
4. Insufficient warning of damaging events, Insufficient actionable risk reduction information available to public



# Impacts Ranking

## Snohomish

1. Resilience of infrastructure
2. Insufficient warning of damaging events
3. Reliability of local emergency operations
4. Vulnerability of structures
5. Reduced available open space, Insufficient incentives for Hazards mitigation
6. Isolation, Mitigation projects not being cost effective
7. Disruption of local government operations, Insufficient actionable risk reduction information available to public
8. Threats posed by competing floodplain management and agricultural objectives
9. Threatened natural values (ecosystem goods and services)

# Impacts Ranking

## Southwest

1. Resilience of infrastructure
2. Vulnerability of structures
3. Reliability of local emergency operations
4. Insufficient incentives for Hazards mitigation
5. Disruption of local government operations
6. Mitigation projects not being cost effective
7. Isolation
8. Insufficient actionable risk reduction information available to public
9. Insufficient warning of damaging events
10. Threatened natural values (ecosystem goods and services)
11. Threats posed by competing floodplain management and agricultural objectives
12. Reduced available open space

# Impacts Ranking

## All Snohomish County

1. Resilience of infrastructure
2. Reliability of local emergency operations
3. Mitigation projects not being cost effective
4. Vulnerability of structures
5. Disruption of local government operations
6. Isolation
7. Insufficient warning of damaging events
8. Threatened natural values (ecosystem goods and services),  
Insufficient incentives for Hazards mitigation
9. Threats posed by competing floodplain management and  
agricultural objectives
10. Insufficient actionable risk reduction information available to  
public
11. Reduced available open space

# Revised Objectives

1. Reduce the disruption of local government operations caused by hazards to the extent practicable (examples: placement of Emergency Operation Centers, assured routes to vulnerable populations).
2. Reduce the vulnerability of critical infrastructures to hazards (examples: roads, non redundant facilities, pipelines, water and sewage treatment facilities, hospitals, schools, emergency support facilities).
3. Enhance, conserve and protect the ability of natural resource lands to reduce adverse effects of disasters. (examples: floodplains, forests).
4. Increase resilience by expanding the ability of communities to respond and self-organize. (examples: community walkability, mixed land uses, and other objectives promoted by the Snohomish County General Policy Plan, such as Safe Urban Centers, Transit Pedestrian Villages, Urban Villages, Manufacturing/Industrial Centers initiatives).
5. Support mitigation measures, including on resource lands (floodplains, agricultural lands, etc.), where the uses do not place occupants at extensive risk or represent an adverse impact to others (examples: elevate home on stable river bank, install "critter pads", etc.).
6. Expand tools to remove or relocate vulnerable uses that present risk to others or degrade natural and beneficial functions (example: transfer and purchase of development rights).

# Revised Objectives, cont'd

7. Provide actionable guidance to the public that increases their resilience or ability to self organize and respond to disasters (examples: anchoring water heaters, using natural vegetation to stabilize riverbanks).

8. Support actions that mitigate the causes of climate change and adapt to expected impacts (examples: urban villages, LEED, etc.).

9. Provide incentives that support the mitigation critical to manufacturing and manufacturing support facilities and operations (example: business continuity planning, reducing vulnerability of publicly-owned manufacturing support facilities, etc.).

10. Reduce risks and vulnerability to isolated populations in Snohomish County (example: mixed used urban communities, rural areas, etc.).

11. Reduce the adverse impacts, and exploit beneficial functions, attributable to agricultural and forest resource lands (Examples: water detention, erosion, etc.).

12. Support community resilience through economic diversification.

# Ranking of Objectives

- Group Discussion
- Information needed from planning partners:
  1. Which objectives are the most important?
  2. Comments/changes to objectives
  3. Broad mitigation statements that address objectives

**BREAK**

(10 minutes)

# Community Involvement Process

## Final Product

- HM Action items, including implementation measures

## Workshop 1: (regional community workshops - April)

- Suggest new action items
- Suggest/amend/remove/assemble past action items

## Workshop 2: (regional community workshops - July)

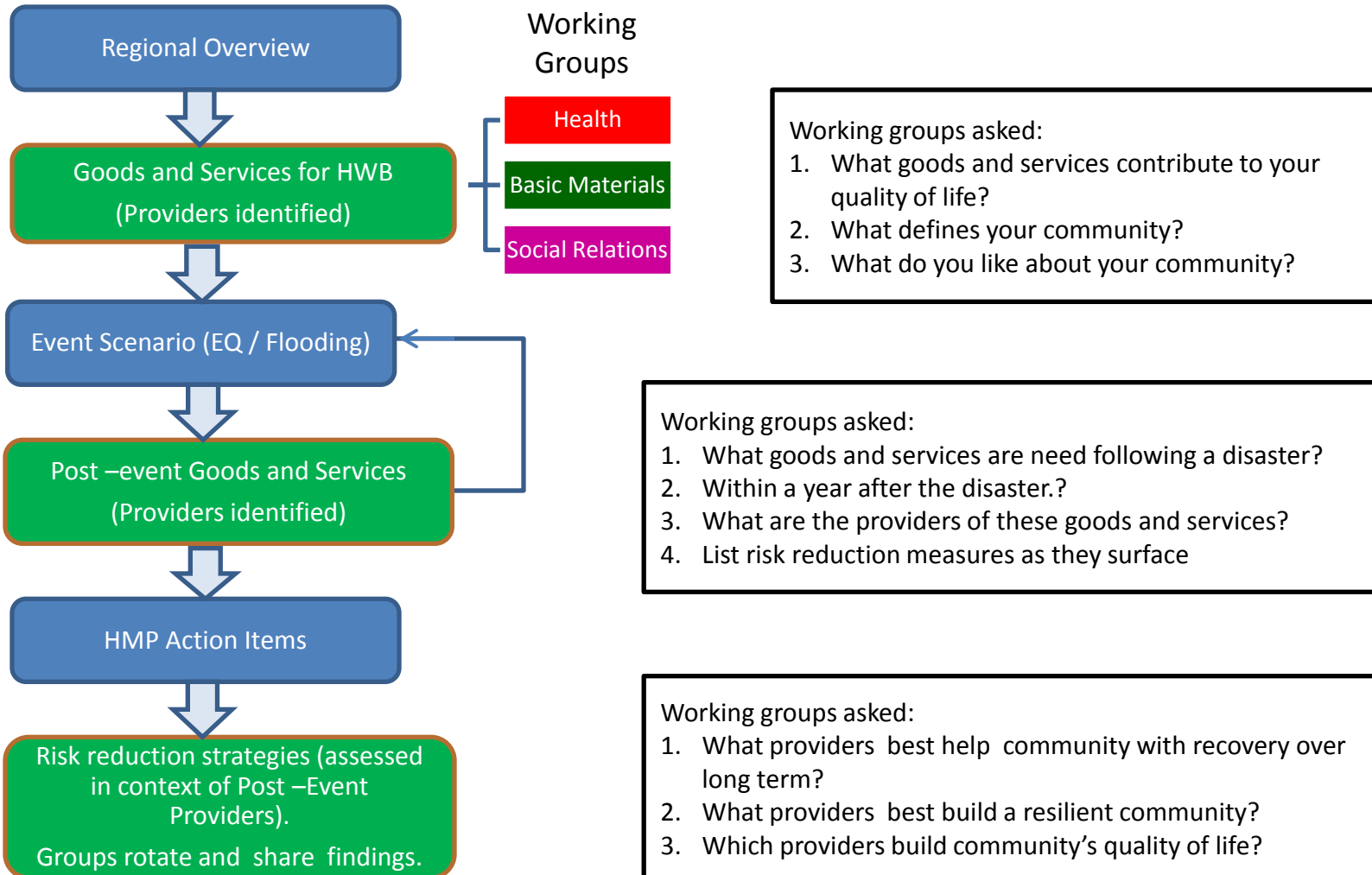
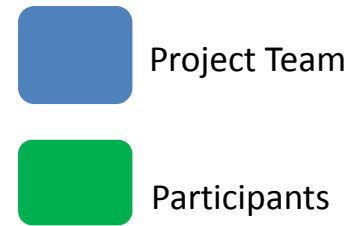
- Refine action items within context of vetted plans, plans in development, alternative futures, methods of implementation and strategy frameworks

## Public Meeting (Open House - October)

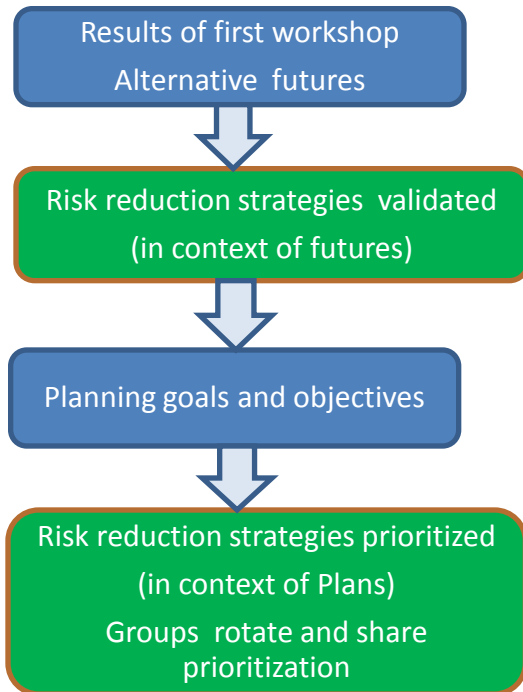
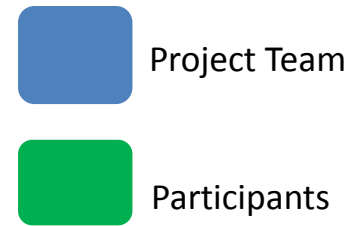
- Unveil draft plan
- Solicit comments



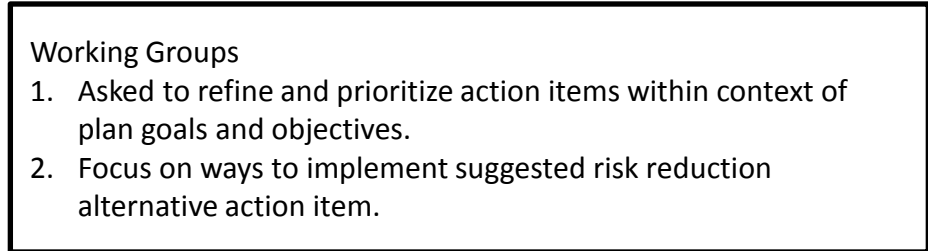
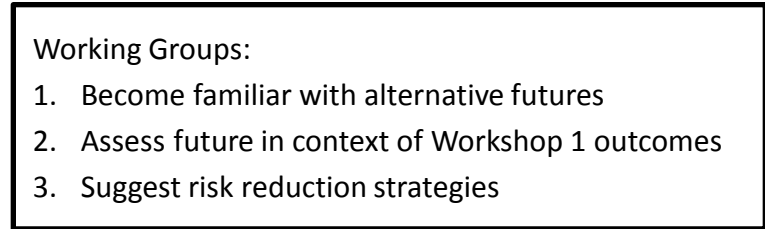
# Workshop 1



# Workshop 2



Working Groups



# Format and Assumptions

- Three geological areas provide better opportunity to solicit public engagement
  - Stillaguamish
  - Snohomish
  - South East
- Two workshops and one open house for each area group totaling 9 engagement activities.
- Steering committee meetings between engagement activities
- Process requires 25 to 30 participants for each workshop
- Open house format will be determined at a later date

# Next Steps

- Complete Risk Assessment
- Prepare for Regional Meetings
- Dates for Regional Meetings:
  - Stillaguamish – April 9, 2014; 6-9PM
  - Snohomish & Central – April 22, 2014; 6-9PM
  - Southwest – April 14, 2014; 6-9PM

# Contact

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