Risk & Action Assessment Recap

- **Steps 1-2:** Define project area, gather stakeholders and establish goals [*July-September 2016*]

- **Step 3:** Identify how climate opportunities and risks affect goals [*October 2016*]

- **Step 4:** Assess risks (probability, consequence, extent, time horizon) [*November 2016*]

- **Step 5:** Compare risks (put in Consequence/Likelihood matrix) [*December 2016*]

- **Step 6:** Evaluate strategies (take action or accept risk) and potential actions and partners [*January 2017*]

- **Step 7:** Evaluate actions [*February-May 2017*]
Evaluating Risks

- Put the net 126 risks into a Consequence/Likelihood Matrix (*right*)
  - 53 risks fall in the upper-right third (RED)
    - These are of *most* consequence and likelihood
  - 41 risks fall in the middle third (YELLOW)
    - These are generally of *lesser* consequence or likelihood
  - 32 risks fall in the lower-left third (GREEN)
    - These are of *least* consequence and likelihood

<table>
<thead>
<tr>
<th>Likelihood</th>
<th>Consequence</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>38, 39, 40, 41, 42, 93, 98, 108, 109, 122, 123,</strong></td>
<td>6, 11, 14, 20, 21, 29, 30, 31, 32, 43, 61, 63, 78, 79, 82, 90, 92, 137, 138,</td>
<td>3, 7, 8, 10, 12, 13, 22, 24, 25, 26, 27, 28, 52, 54, 55, 58, 59, 62, 75, 76, 81, 83, 101, 102, 103, 104, 114,</td>
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<td><strong>4, 5, 45, 46, 47, 66, 68, 94, 95, 96, 97, 111, 112, 124, 125, 126,</strong></td>
<td>9, 15, 16, 17, 18, 19, 23, 33, 35, 36, 37, 64, 69, 80, 84, 86, 88, 89, 91, 105, 106, 107, 121, 132, 133, 139</td>
<td>56, 57, 77, 85, 87, 115, 120,</td>
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<tr>
<td><strong>51, 67, 71, 72, 74, 99, 110, 113, 118, 119, 129, 135, 136,</strong></td>
<td>1, 50, 65,</td>
<td>60, 116, 117, 131,</td>
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<td></td>
</tr>
</tbody>
</table>

*#s correspond with Risk Analysis Table*
Selecting Strategies

- Project team selected a strategy for all 126 risks:
  - **Take Action**: Lower the consequence and/or likelihood of the risk
    - Includes continuing effective actions, recommending new actions, or assisting responsible partners (e.g., transferring to state or federal agencies)
  - **Accept**: Run the risk — accept that consequences may occur, monitor and reevaluate strategy periodically.

- Stakeholders reviewed and revised strategies for the 53 red risks of highest consequence and likelihood
  - 47 risks received a “Take Action” strategy.
  - 6 risks received an “Accept” strategy.

Source: Bournemouth University: http://blogs.bournemouth.ac.uk/research
Evaluating Actions

- **Project team:**
  - Consolidated or reworded several risks to eliminate redundancy, enhance clarity.
  - Drafted 129 actions to address all red risks with a “Take Action” strategy.
    - Identified all other risks each action would address.
    - As a result, every risk with a “Take Action” strategy (green and yellow included) is addressed by at least one action.
  - Developed 5 screening criteria to prioritize actions (right).
**Next Steps**

**Group Exercise:**

**Step 1:** Today, break into five groups to review and revise the actions, grouped by theme (*right*).

Consider the following questions:
- Should some actions be reworded, consolidated or split?
- What additional actions are needed?

**Step 2:** On March 23 (*Meeting 8*), use screening criteria to evaluate revised list of actions.

**Step 3:** On April 27 (*Meeting 9*), incorporate additional actions and general feedback from April 17 public forum.

**Step 4:** On May 11 (*Meeting 10*), use screening criteria to prioritize actions and select some for Benefit-Cost Analysis.

<table>
<thead>
<tr>
<th>Theme</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Habitat, Animals, Plants, and Agriculture</td>
<td>19</td>
</tr>
<tr>
<td>Infrastructure, Roads, Energy, and Pollution</td>
<td>28</td>
</tr>
<tr>
<td>Stormwater, Flooding, Erosion, and Landslides</td>
<td>25</td>
</tr>
<tr>
<td>Water Use and Water Conservation</td>
<td>25</td>
</tr>
<tr>
<td>Wildfire and Hazard Response</td>
<td>32</td>
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</table>