

## Climate Change Checklist for TAC Committees

1. Have you considered projects your committee could undertake to address climate change issues (such as mitigation efforts and, or, adaptation activities)?
2. Have you ensured that the climate change component of your project is not duplicating material covered in previous projects, or other initiatives being carried out by other councils and committees? Have you considered other organizations that may have related initiatives underway?
3. Have you consulted with other councils and committees on your project for synergy on climate change initiatives (such as mitigation efforts and, or, adaptation activities)?
4. Have strategic transportation initiatives, emerging technologies and best practices relating to climate change been considered as part of your project?

5. Have you identified the following, and other, more likely effects of climate change and how your project or product could make a difference including adapting to such changes?

- |  |   |
|--|---|
| <input type="checkbox"/> Changing water levels | <input type="checkbox"/> Extreme precipitation events |
| <input type="checkbox"/> Hotter drier summers  | <input type="checkbox"/> Coastal erosion              |
| <input type="checkbox"/> Melting permafrost    | <input type="checkbox"/> Warmer winters               |

6. Have you considered the following causes of climate change and what advice your project/product could offer?

- |   |  |
|---|--|
| <input type="checkbox"/> Deforestation        | <input type="checkbox"/> Urban sprawl    |
| <input type="checkbox"/> Land surface changes | <input type="checkbox"/> Fossil fuel use |

7. Will your project/product provide data or methods to help mitigate the impacts of future climate change?

- |   |  |
|---|--|
| <input type="checkbox"/> Various design options       | <input type="checkbox"/> Low/lower carbon fuel usage |
| <input type="checkbox"/> Use of recycled materials    | <input type="checkbox"/> Optimized mix designs       |
| <input type="checkbox"/> Adoption of new technologies | <input type="checkbox"/> Other                       |

8. Will your project/product provide data or methods about location and design considerations, and other means to;

- A) minimize the impact of climate change well into the future?
- B) reduce the vulnerability of development to climate change?
- C) quantify climate change impacts and benefits (e.g. economic)?

**Mitigation:** Actions or measures taken to reduce the impact the transportation system has on our climate (e.g. use of roundabouts vs. traffic signals to reduce greenhouse gas emissions).

**Adaptation:** Approaches and measures aimed at modifying transport activities and infrastructure in response to current and anticipated impacts of climate change. These can be either or both proactive and reactive, and may involve innovations that improve current practices.

**Vulnerability:** Susceptibility of infrastructure to conditions it was not originally designed to withstand (thereby reducing lifespan resulting in economic loss, disruptions, increased risks to public health and safety).