



# **STAC Review of the CBP Partnership's Climate Change Assessment Framework and Programmatic Integration and Response Efforts**

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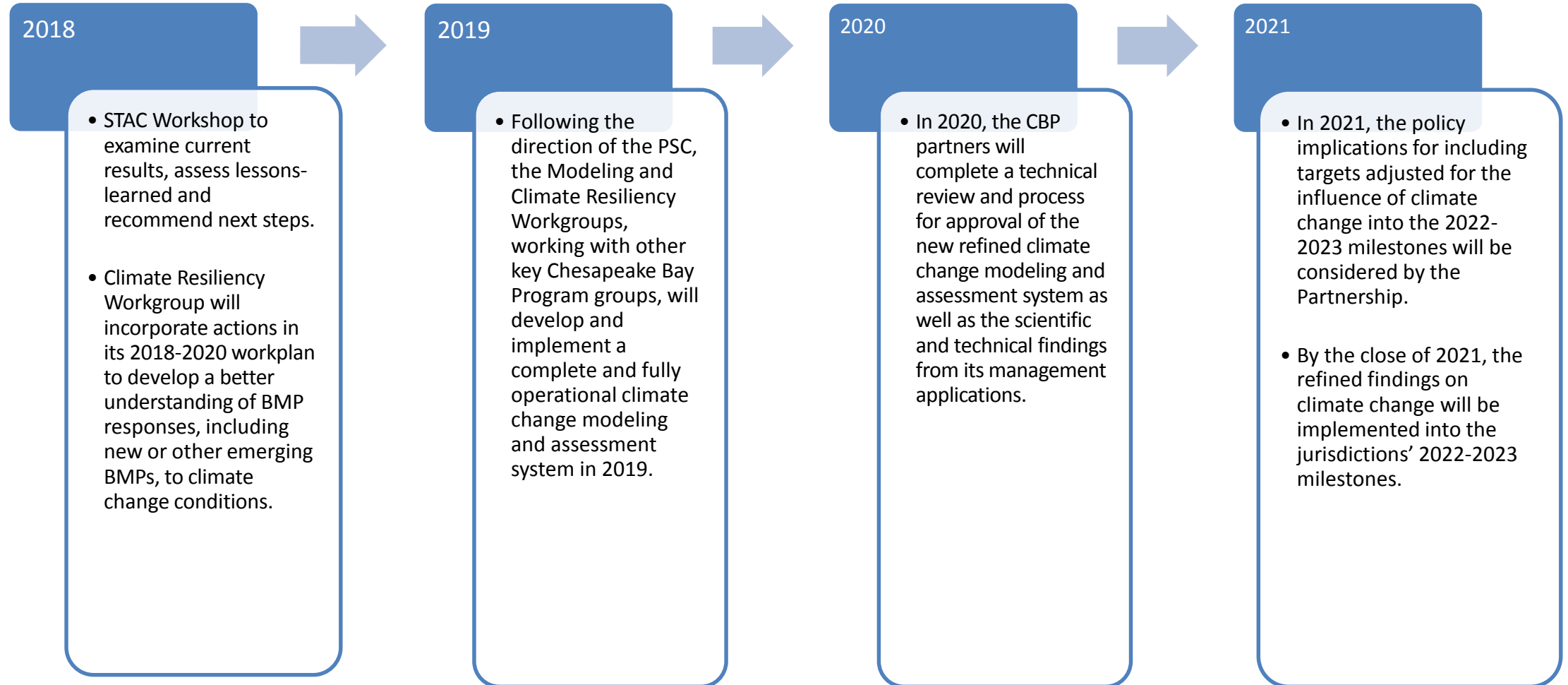
## Excerpt from Response Letter to STAC

“The influence of climate change on Chesapeake water quality is a key aspect of the 2017 Midpoint Assessment of the Chesapeake TMDL progress, and indeed, it will be an ongoing multigenerational issue of the Chesapeake Bay Program (CBP) going forward. As an indication of the importance of the ongoing assessment, the Principal Staff Committee (PSC) in December 2017 directed the CBP, through the Modeling and Climate Resiliency Workgroups, to direct immediate efforts toward a more refined analysis of climate change influence on Chesapeake water quality, to be delivered as a complete and fully operational modeling system by the close of 2019.”

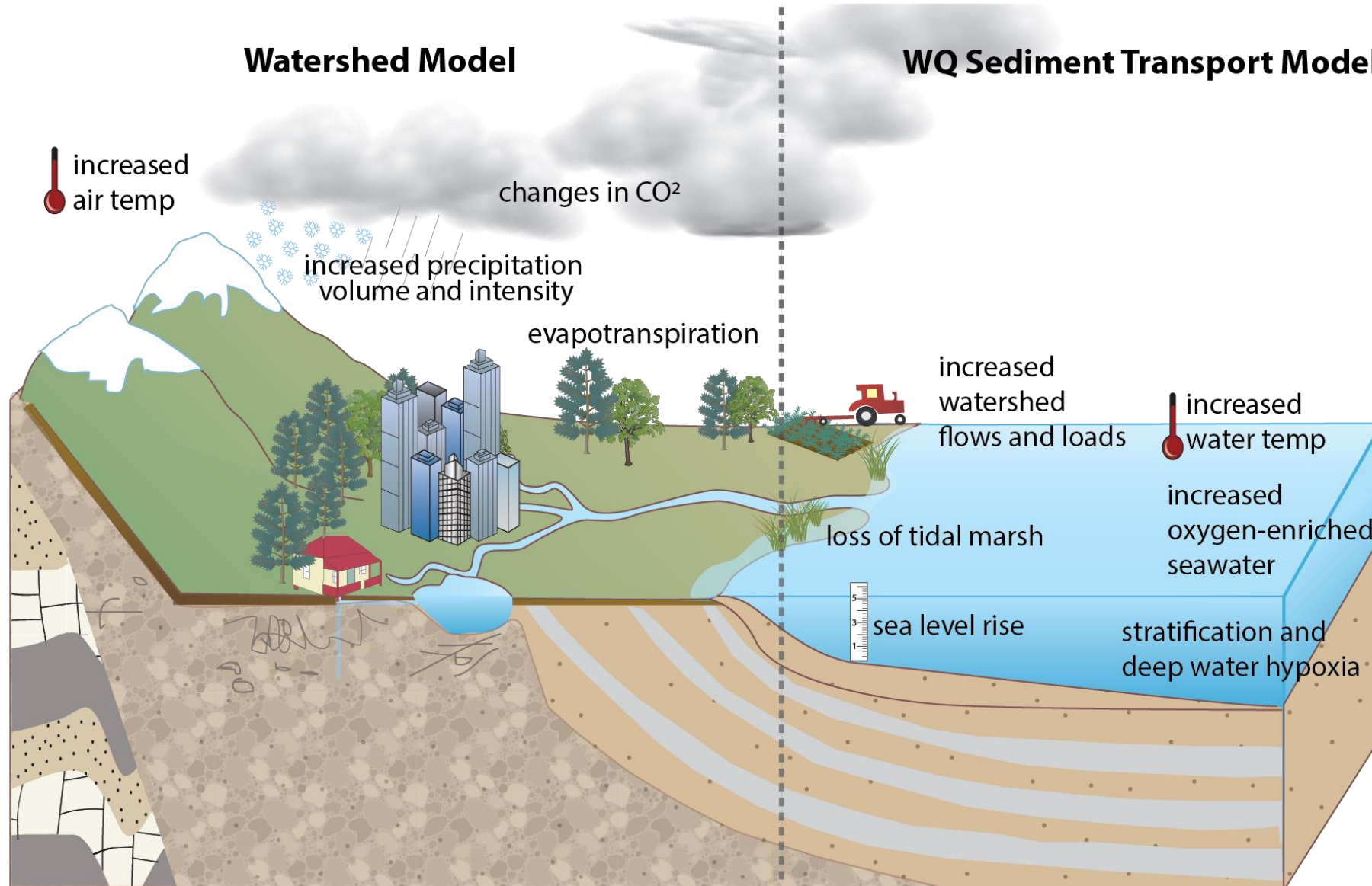
## Excerpt from Response Letter to STAC

STAC's peer review of the CBPs 2017 assessment of climate change has made a substantial contribution to the CBP as part of STAC's essential ongoing advice on the state of the science in the field, and particularly with respect to watershed and coastal water restoration in the Chesapeake region. In this sense, the 2017 peer review is unique in that it provides the next step of what could be best seen as the ongoing, long-term, important technical and strategic support by STAC for CBP decision making on climate change going forward.

# Next Steps Directed by the PSC: Understanding the Science and Refining the Model Estimates



# Accounting for Changing Conditions

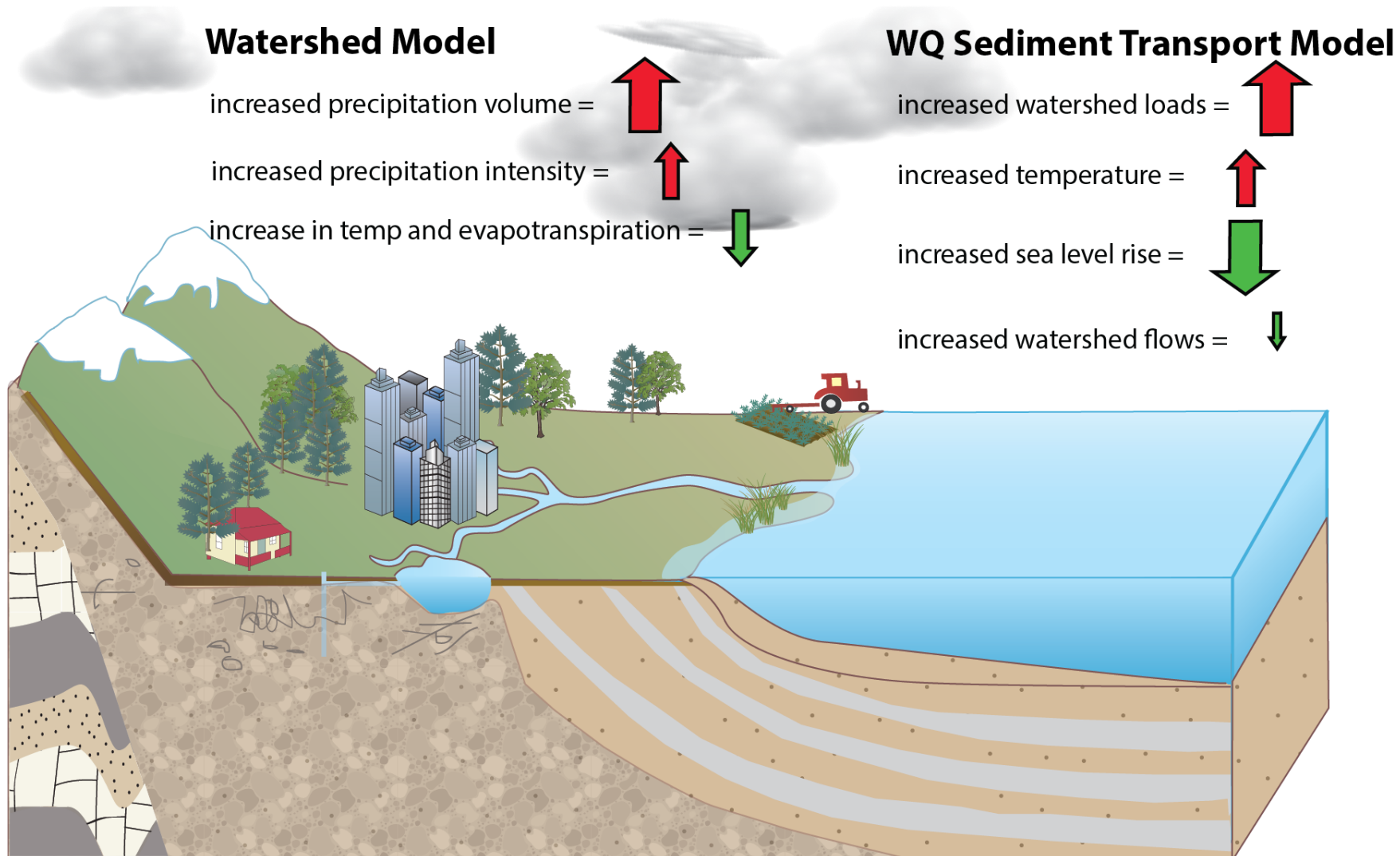


# To Limit Uncertainty

- The Partnership used STAC recommended projections for 2025 that have a high level of confidence<sup>1</sup>
- Selection of projections for sea level rise and precipitation change were based on past records of observed climatic and resultant river flow conditions
- Downscaled temperature projections for 2025 are closely aligned with observed trends

# Accounting for Changing Conditions

## Cumulative Assessment of Bay Low Dissolved Oxygen Impacts



# Next Steps Directed by the PSC: Understanding the Science and Refining the Model Estimates

