Attachment A: 2021 VTrans Strategic Actions[1]

1. *Collect data (e.g., right-of-way mapping, precipitation, roadway elevation, etc.) to accurately assess flooding risks for state- and locally-maintained roadways that can be used to identify funding needs and prioritize investment.*
    - Responsible entity(s): VDOT
    - Intent: This action addresses VTrans Risk & Opportunity Register Item #2: Several unknown and unquantified flooding risks are present.

2. *Develop policies, based on robust data collection and analysis, to ensure flooding risks are reflected in transportation asset life cycle and/or transportation project planning processes.*
    - Responsible entity(s): VDOT, DRPT
    - Intent: This action addresses VTrans Risk & Opportunity Register Item #4: Proactively eliminate or mitigate identified flooding risks.

3. *Collaborate with state/regional agencies to systematically identify solutions that facilitate consistent and systematic prioritization and support the allocation of state resources to address flooding risks.*
    - Responsible entity(s): VDOT, DRPT
    - Intent: This action addresses VTrans Risk & Opportunity Register Item #4: Proactively eliminate or mitigate identified flooding risks.

4. Evaluate options to gather vehicle automation and capability data for the state's registered vehicle fleet to develop a more complete and accurate assessment of risks and opportunities associated with automated vehicles.
    - Responsible entity(s): VDOT
    - Intent: This action addresses VTrans Risk & Opportunity Register Item # 7: Improve the state's ability to manage a transportation system with a high number of highly autonomous vehicles.

5. Develop a roadmap for implementing foundational digital practices such as digital as-builts (DABs) and information management processes for capturing asset information for transportation infrastructure.
    - Responsible entity(s): VDOT, DRPT

[1] VTrans Strategic Actions are not listed in any particular order as many of them are interrelated. Some strategies may require adjustment or sequential implementation depending on the status of other strategies.

- Intent: This action addresses VTrans Risk & Opportunity Register Item # 7: Improve the state's ability to manage a transportation system with a high number of highly autonomous vehicles, and VTrans Guiding Principle # 3: Efficient delivery of programs.

6. Evaluate and facilitate desirable deployment of vehicle-to-infrastructure communications along limited-access highways by the private sector.
    - Responsible entity(s): VDOT
    - Intent: This action addresses VTrans Risk & Opportunity Register Item # 8: Maximize safety benefits offered by highly autonomous vehicles, especially those with Automated Driving Systems.

7. Evaluate opportunities to provide access to the available real-time or up-to-date state transportation asset and operations data in digital formats for use by the public and industry partners to support autonomous vehicle deployment.
    - Responsible entity(s): VDOT, DRPT
    - Intent: This action addresses VTrans Risk & Opportunity Register Item # 8: Maximize safety benefits offered by highly autonomous vehicles, especially those with Automated Driving Systems.

8. Identify and develop solutions to address barriers to the installation of electric vehicle charging infrastructure by the private sector.
    - Responsible entity(s): OIPI
    - Intent: Intent: This action addresses VTrans Risk & Opportunity Register Item # 10: Minimize environmental impacts of the transportation system development.

9. Evaluate and establish sidewalk and curb management best practices for state-owned roadways and promote them for locality-owned roadways.
    - Responsible entity(s): OIPI
    - This action addresses VTrans Risk & Opportunity Register Items: # 11: Increased curb access conflicts in urbanized areas due to shared mobility and e-commerce vehicles; #14: Utilize shared mobility services to improve accessibility; and # 15: Improve the state's ability to manage a transportation system with a high number of shared mobility vehicles.

10. Formalize a process for comprehensive needs identification and prioritization for the § 33.2-372: Interstate Operations and Enhancement Program utilizing the transportation planning policies established by the CTB in VTrans.

- Responsible entity(s): OIPI
- Intent: This action addresses: VTrans Mid-term Needs and Priority Locations; CTB Guiding Principle # 1: Optimize return on investment; and Guiding CTB Guiding Principle # 3: Efficiently deliver programs.

11. Evaluate the performance of selected construction projects from the SMART SCALE, Interstate Operations and Enhancement Program, Virginia Highway Safety Improvement Program, and DRPT's MERIT program to determine if the selected projects are providing the anticipated benefits and to support efforts to continue to improve project evaluation criteria and methods.
    - Responsible entity(s): OIPI
    - Intent: This action addresses: VTrans Mid-term Needs and Priority Locations; CTB Guiding Principle # 1: Optimize return on investment; and Guiding CTB Guiding Principle # 3: Efficiently deliver programs.

12. Establish a regular study cycle for Project Pipeline studies, as defined in the CTB Policy for the Prioritization of VTrans Mid-term Needs adopted in March 2021, to include solutions for the most up-to-date VTrans Priority 1 and 2 locations.
    - Responsible entity(s): OIPI
    - Intent: This action addresses: VTrans Mid-term Needs and Priority Locations; CTB Guiding Principle # 3: Efficiently deliver programs and Guiding; and CTB Guiding Principle # 5: Ensure Transparency and Accountability, and Promote Performance Management.

13. Evaluate the feasibility of and alternatives to a combined dashboard to monitor performance and delivery of projects and programs included in the Six-Year Improvement Program (SYIP).
    - Responsible entity(s): VDOT, DRPT
    - Intent: This action addresses CTB Guiding Principle # 3: Efficiently deliver programs and Guiding Principle # 5: Ensure Transparency and Accountability, and Promote Performance Management.

14. Evaluate and, if feasible, integrate the remaining application-based highway and transit capital funding programs and transit operating funding programs administered by OIPI, VDOT, and DRPT into the SMART PORTAL to provide one-stop access to state's funding programs.
    - Responsible entity(s): VDOT, DRPT, OIPI

- Intent: This action addresses CTB Guiding Principle # 1: Optimize return on investment and Guiding Principle # 3: Efficiently deliver programs.

15. Identify and clarify roles and responsibilities of the state transportation agencies related to emerging areas such as curb management, shared mobility, drones, etc., to ensure greater focus.
    - Responsible entity(s): OIPI
    - Intent: This overarching action addresses all items identified in the VTrans Risk & Opportunity Register.

16. To methodically address items in the 2021 VTrans Risk & Opportunity Register, formalize OIPI's role in supporting and advising the CTB in the conduct of CTB business and developing a comprehensive transportation policy as required by 2.2-229.
    - Responsible entity(s): OIPI
    - Intent: This overarching action addresses all items identified in the VTrans Risk & Opportunity Register.