



City of Mountain View Public Works Department
Mountain View Automated Guideway Transportation Feasibility Study
Scope of Services

This study is intended to give the City and its community a clearer understanding of what is feasible with regard to AGT technologies currently available and in development within the constraints of the current and planned environment.

Task 1 – Study Area Characteristics

In developing the study area characteristics, the team will utilize relevant base data and findings from previous studies, taking into consideration updates resulting from ongoing studies. As the characteristics established in Task 1 will guide Tasks 4, 5, and 6, it is crucial that the effort is comprehensive of all planned developments, modifications, and improvements in the corridor.

Deliverables:

- List of study area characteristics

Task 2 – Community Outreach and Meetings

The study will kick-off with a team meeting with the Project Manager and City staff to review the proposed study approach and deliverables and schedule. Regular team and coordination meetings with the Project manager and City staff will be scheduled for a successful project.

Outreach to the community, agency stakeholders, and City Council is key to gaining not only local support, but local project champions for potential future project implementation. All meetings will be strategically coordinated with the meetings for the Transit Center. Two community meetings are anticipated, with the possibility of adding a third if needed. Three City Council Study Sessions are anticipated to keep the City Council informed of the Study's progress and findings, to address and discuss their questions or concerns, and to obtain necessary input to ensure the study continues in the right direction. Meetings with other agencies (e.g., Santa Clare County, Caltrain, VTA, CHSRA) will begin during Task 1 to ensure that up-to-date information, regarding any planning effort and projects that impact the study area, is adequately considered and incorporated into the AGT Feasibility Study from the beginning.

Supplemental to the community outreach meetings, a study website will be established to provide up-to-date information and materials regarding the study, as well as links to other relevant projects.

Deliverables:

- Agendas and minutes for all meetings, including relevant presentation materials
- Website design
- Mailers/surveys, as needed

Task 3 – Potential Passenger Demand/Market

The AGT system will need to meet the demands of a growing Mountain View and an increasingly robust transit system. The team will use its personal knowledge, supplemented by existing data and information readily available from previous and ongoing projects, to develop initial market demand patterns in the study area, as well as further projections, as needed, for corridor passenger demand.

Identifying the future needs for transportation within Mountain View will be a key component of this task. This will be an iterative process with City staff to ensure that the final developed demand and market assumptions are well correlated with current planning.

Deliverables:

- Summary of the calculations, assumptions, and final passenger demand estimates

Task 4 – Potential System Design/Characteristics

This task will identify the drivers and key influences to the AGT system, including the required station stops based on the demand and planned developments, influences on alignment structure and locations based on current and future planned roadways, coordinated transfers between existing and future planned transit in addition to those at the Transit Center, and the identification of different types of potential system operations best suited for the varying development types along the corridor. Impacts to traffic on and surrounding the corridor must also be considered.

Deliverables:

- List of required characteristics and operations parameters for the AGT system.

Task 5—Transportation Technology Alternatives

Task 5 will drive the identification of the best available AGT technologies for the corridor. The automated transportation technology industry is currently in a state of perpetual change and improvement. The team will identify the technology alternatives best fit for the Mountain View AGT project based on the system design characteristics identified in Task 4, the study area characteristics identified in Task 1, and the general development progress of autonomous and automated vehicle technologies available.

Deliverables:

- List of potential technologies, including key characteristics
- System configuration and alignment alternatives

Task 6—Evaluation of Transportation Technologies

The evaluation will be a combination of qualitative and quantitative analyses that ties the operational characteristics of technologies and preferred system configurations with bigger picture impacts and benefits. The goal of this task is to provide a high-level, yet comprehensive, evaluation of the suitability of the technologies identified in Task 5 against the system characteristics and configurations and alignment options developed in Task 4.

Along with the evaluation criteria provided in the RFP, the following elements will also be evaluated and discussed:

- **Adaptability and Phasing:** In order to justify the significant investment required for an advanced AGT system, the system should be adaptable in order to meet the changing and growing demand for the corridor. An immediate implementation of an AGT system may not be sensible or practical, as continued projected growth in the North Bayshore area is needed in order to justify an AGT system. Review of the flexibility of infrastructure for potential transitions between various technologies and uses will be part of the overall phasing analysis.
- **Traffic Benefits and Impacts:** A high-level review of potential traffic impacts to the main corridor and will be developed in order to understand the peripheral effects of an AGT system.

- **Safety and Compliance:** For technologies that do not yet have an established commissioning process, a high level review of benchmarks for existing applications and pilots, as well as any governmental guidelines will be integral in understanding technology feasibility.

Deliverables:

- List of evaluation criteria
- Matrix summarizing evaluation of AGT technologies

Task 7—Prepare Draft Final Evaluation of Alternatives/Feasibility Report

The draft report will summarize the evaluation process and findings, including highlighting key inputs and assumptions, and input from the community and stakeholders. The goal is to provide the City and City Council with enough information to make an informed decision regarding the feasibility and benefit of moving forward with an AGT system to serve the corridor between North Bayshore and the Transit Center.

Deliverables:

- Draft report for Project Manager and City staff review and comment
- Final Draft report for City Council review and comment

Task 8—Prepare and Present Final Evaluation/Feasibility Study Report

The team will work with the Project Manager and City staff on the presentation of the study results to the City Council. After the City Council session, the team recommends a debrief with the Project Manager and City staff to confirm relevant council input and changes that are required to ensure the final report is comprehensive and accurate.

Deliverable:

- Final City Council presentation
- Final Report

Project Contingency

In order to build in flexibility to the project, a portion of the budget has been identified for tasks that may be needed or would benefit the project, but that were not foreseen and included in the Scope of Services. These additional services may include further engagement with key stakeholders to build the necessary relationships to gain support for the project for the future, development of an implementation and phasing schedule, and review of a financing plan for the project.

The scope, timing, and budget for any additional tasks will be discussed and agreed upon with the Project Manager. This contingency budget is separate from the project budget. Should no additional tasks be identified, this project contingency will not be used.