**MAG Transportation Funding Concept Report**

This application is used to supply MAG and committee members with information pertaining to projects requesting MAG transportation funding. Answers should have enough technical detail as warranted to aid in the decision-making process. Always enter "NA" rather than leave an answer blank.

**Code to Unlock Form**

This document is locked in MS Word to allow for filling out the form only. If you need to make adjustments, to unlock the protected sheet, in MS Word go to the "Review" tab, click "Restrict Editing," click "Stop Protection," enter code 0000

**Supplemental Information**

As part of this report, submit supporting documentation including maps, diagrams, charts, cost estimates, etc. to allow MPO staff and committee members to make an informed decision regarding the proposed project. Keep Supplemental Information submittals to 8 pages total.

**Concept Report Submittal**

To facilitate the distribution of the Concept Reports and any supplemental information, all Concept Reports shall be combined with any supplemental information and saved in PDF format as one document. Please note that this might create a large data file that might be too large to email. Plan accordingly to submit your report in electronic format by the required due date.

**Deadlines to Remember**

Essential dates for concept submittal are as follows:

* Draft Concept Report is due February 10, 2022, 5pm.
* Sponsor/MAG staff review meetings February 21-24.
* The final Concept Report is due March 17, 2022, 5pm.

Questions, contact Bob Allen | o.801/229-3813 | c.801/836-2823 | rallen@mountainland.org

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1. **| Project Summary Information**

|  |  |
| --- | --- |
| **Project Name**  Keep it short 35 letters max | **enter name** |
| **Project Type** | **choose type** |
| **Limits**  Intersections, place names, landmarks, etc. | **enter limits** |
|  |  |
|  |  |
| **MPO Funding Request** | **enter amount** |
|  |  |
|  |  |
| **Project Description**  Give details of work to be done | **enter description** |
|  |  |
|  |  |
| **Project Purpose and Regional Objective** Give details of problem to address and how it is regional in nature | **enter description** |
|  |  |
|  |  |
| **Sponsor**  Jurisdiction, agency name | **enter name** |
| **Project Manager** | **enter name** |
| **Phone** | **enter number** |
| **Email** | **enter email** |
|  |  |

**2.0 | Project Ranking**

The project ranking process produces a Project Priority List used to fund projects. There are two steps in the process; first, to develop an MPO Technical Score List; second, to create an MPO TAC Committee Ranking List. MPO staff create the Technical Score List. Their analysis uses the sponsor's answers from section 2 of this report. The points associated with each category show the total points MPO staff can give. The MPO TAC Committee uses the Technical Score List and a field review to evaluate the projects before creating the MPO TAC Committee Ranking List. Once complete, each ranking weighs 50% toward the total score. This total score becomes the Project Priority List.

Only answer questions pertaining to the proposed project type (transit, highway, its, active transportation, etc.). **Please note, if a question pertinent to the project is not answered, zero points are given. Answer NA if not applicable.**

**2.1 Congestion Relief | Highway Projects (25 Points)**

Answer these questions for highway projects.

1. How does the project provide additional capacity that corrects an identified congestion problem? | enter text

* Describe existing conditions. | **enter text**
* Existing ADT? | **enter text** 10-years out ADT? | **enter text**
* Existing level of service (LOS)? **enter text** 10-years out LOS? | **enter text**

1. Explain how the project adds to the highway grid. | **enter text**

* How does the project disperse traffic? | **enter text**

1. Describe any traffic management measures designed into the project. | **enter text**

* Describe any traffic improvements. (i.e., lanes, signal coordination, roundabout, new signals, ITS, turn lanes, bus pullouts, etc.) | **enter text**

1. Explain how the project provides an improvement on a larger, regional facility. | **enter text**

* What is the highway's [state functional class designation](https://uplan.maps.arcgis.com/apps/OnePane/basicviewer/index.html?appid=4c1915628beb4ce0b71b22175a2fa1c5)? | **enter text**

1. If an intersection project, describe any improvements to a congested intersection. | **enter text**

**2.2 Mode Choice | Transit, Active Transportation, ITS Projects (25 points)**

Answer these questions for transit and active transportation projects. Highway projects that have major transit or active transportation elements can also answer applicable questions.

1. Describe how the project benefits multiple transportation systems (complete streets design, first mile/last mile, intermodal/transit center, transit to highway, transit to AT, etc.). | **enter text**
2. Explain how the project manages or reduces Single Occupancy Vehicle (SOV) trips in the peak hour. | **enter text**
3. How does the project add capacity to non-highway facilities? | **enter text**

*Answer the following if applicable:*

* Current transit ridership: | **enter text** 10-years out ridership: | **enter text**
* Current active trans. count: | **enter text** 10-years out count: | **enter text**
* Current Park and Ride usage: | **enter text** 10-years out usage: | **enter text**

1. What amenities and elements are in the project to attract users (separation from traffic, serves disadvantaged or underserved populations, adds informational services, user amenities, etc.)? | **enter text**

* What services are provided in the operating of this project? | **enter text**
* Describe any equipment to be purchased (buses, ITS, etc.). | **enter text**

1. How does the project aid to complete the regional transit, AT, or ITS system? | **enter text**

**2.3 Environmental Quality (15 points)**

Answer for all projects.

1. What is the level of emission reduction (CMAQ eligible project, answer from section 3)? | **choose item**
2. Explain how the project incorporates environmental impact mitigation strategies (i.e., wetland bank, sound walls, natural environment avoidance, significantly reduces pollution, etc.). | **enter text**
3. Explain how the project incorporates mitigation strategies to minimize or avoid existing neighborhoods/commercial areas (minimal relocations). | **enter text**
4. What type of environmental work will most likely be needed? | **choose item**

**2.4 Safety (15 points)**

Answer for all projects.

1. Explain how the project corrects/improves a verified or potential safety or accident problem (use statewide safety data to answer). | **choose item**

* Describe any safety improvements for vehicular, transit, and pedestrian traffic. (i.e., raised median, channelization of turn movements, barriers, parkway strips, etc.) | **enter text**

1. Describe how the project improves information/communications for traffic operations and emergency responders. | **enter text**
2. Describe how the project enhances safe movement of pedestrian, bicycle traffic. | **enter text**

**2.5 Other Considerations (20 points)**

Answer for all projects.

1. How is the project cost-effective for the benefit being proposed? | **enter text**

* If a phased or segmented project, describe how the phase has logical termini and what future phases will consist of. | **enter text**
* What right-of-way is already secured, what is needed? | **enter text**
* Describe utility work to be performed and indicate who will do the work. | **enter text**

1. What amount of additional funding above the required match is pledged toward the project (including any soft match, excluding betterments)? | **enter text**
2. Explain if and how the project traverses between major regional activity centers. | **enter text**
3. Is the project a numbered project within the current regional transportation plan TransPlan50? | **choose item**

* Describe how the project is consistent with local or agency plans. | **enter text**

**3.0 | Air Quality Report**

All projects eligible for CM/AQ and CM/AQ-PM2.5 funds must complete this report. Generally, all non-highway single occupancy projects should complete this section. These funds are eligible for projects and programs countywide. Contact Shauna Mecham at Mountainland AOG if you need help completing 3.4 Quantitative Analysis below, 801/229-3838 or smecham@mountainland.org.

**3.1 Eligibility**

CM/AQ funds can only be used for projects and programs that can directly benefit air quality. Highway expansion, such as new single-occupancy vehicle lanes, is not eligible. **Turn lanes at congested intersections, transit programs, pedestrian and trail projects, signal modernization, ITS, and IM programs are typical eligible CM/AQ projects.**

**3.2 CM/AQ Program**

The purpose of the CM/AQ program is to fund transportation projects or programs that will contribute to attainment or maintenance of the National Ambient Air Quality Standards (NAAQS) in Ozone (O3), Carbon monoxide (CO), Particulate Matter (PM10), and PM2.5 non-attainment and maintenance areas. Provo is a maintenance area for CO, Utah County is a maintenance area for PM10 and is in the process of becoming a maintenance area for PM2.5. Utah County is also designated marginal non-attainment for Ozone.

**3.3 Completing this Report**

All projects eligible for CM/AQ funds must complete this report. Completing this report can be quite technical. Shauna Mecham at MAG can help with filling out this report. Contact her at 801/229-3838 or [smecham@mountainland.org](mailto:smecham@mountainland.org)

**3.4 Quantitative Analyses**

A quantitative assessment of how a proposed project or program is expected to reduce emissions is important to assist in selecting the most effective use of this fund. List below all travel benefits directly related to this project. Air quality benefit calculations must utilize the latest EPA-approved emission model. The air quality analysis should include assessing emission reductions of transit, traffic flow improvements, ITS projects and programs, ridesharing, bicycle, and pedestrian improvements. Complete at least one of the sections below. If quantitative analyses cannot be done, do a qualitative assessment in 3.5.

**a) Vehicle Miles Traveled**

Number of Vehicle Miles Traveled reduced (VMT): | **enter text**

Average distance of trips reduced: | **enter text**

Emission reduction per average weekday: | **enter text**

**b) Idling Time**

Average idling time per vehicle reduced: | **enter text**

Number of vehicles with reduced idling time: | **enter text**

Emission reduction per average weekday: | **enter text**

**C) Vehicle Speed**

Average change in vehicle speed (speed before and after): | **enter text**

Number of vehicles affected: | **enter text**

Emission reduction per average workday: | **enter text**

**3.5 Qualitative Assessment**

Although quantitative analysis of air quality impacts is required whenever possible, some improvements may not lend themselves to rigorous quantitative analysis because of the project's characteristics or because practical experience is lacking for analyzing the project adequately. In these cases, a qualitative assessment is appropriate, based on a reason and logical examination of how the project or program will decrease emissions and contribute to the attainment or maintenance of a NAAQS. Please explain your analysis. | **enter text**

**4.0 | Project Cost Estimate**

To develop a project cost estimate, please supply a detailed cost breakdown of your unit costs, inflation, equipment, right-of-way, contingency, etc. Use the Concept Costs Estimate Excel form provided by UDOT (available on Mountainland.org website). Projects that do not lend well to the estimating tool, such as non-construction projects (equipment purchases, operations, administration programs, studies, etc.), can use other methods to develop estimated costs. All sheets or methods used should be submitted as part of the Supplemental Information accompanying the Concept Report.

Please note, all MAG funds have a matching funds requirement from the sponsor. The match rate is 93.23 MAG / 6.77% local match. The project sponsor must provide 6.77% of the total MPO funded amount if awarded funding. If the total amount awarded is $1,000,000, MAG will pay $9,323,300, the sponsor will pay $67,700.

**4.1 Cost Summary**

Summarize the information from the Costs Estimate Excel form or another method. Enter NA for items that do not apply to the project.

All costs should be inflated to 2026 dollars

All costs should be in total dollars, including the required 6.77% local matching funds.

1. Total Project Cost | **enter text**
2. **Total MPO Funding Request** | **enter text**
3. Additional Funds Pledged to Project **enter text**
4. Preliminary Engineering Cost **enter text**
5. Environmental Cost **enter text**
6. Construction Engineering Cost **enter text**
7. Right of Way Cost **enter text**
8. Utility Costs **enter text**
9. Other Costs **enter text**