

October 10, 2018

TO: Members of the MAG Active Transportation Committee

FROM: Jose Macias, El Mirage, Chair of the MAG Active Transportation Committee

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Tuesday, October 16, 2018 - 1 p.m.  
MAG Office, Ironwood Room, Second Floor  
302 North First Avenue, Phoenix

A meeting of the MAG Active Transportation Committee will be held at the time and place noted above. If you are attending in person, please park in the garage under the building. Bring your ticket to the meeting as parking will be validated. For those using transit, the Regional Public Transportation Authority will provide transit tickets for your trip. For those using bicycles, please lock your bicycle in the bike rack in the parking garage.

Committee members may attend the meeting either in person, by video conference or by telephone conference call. Those attending by videoconference must notify the MAG site three business days before the meeting. Those attending by telephone conference call please contact MAG offices for conference call instructions.

Pursuant to Title II of the Americans with Disabilities Act (ADA), MAG does not discriminate on the basis of disability in admissions to or participation in public meetings. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting Jason Stephens at the MAG office. Requests should be made as early as possible to allow time to arrange the accommodation.

Please be advised that under procedures adopted by the MAG Regional Council on August 21, 2013, all MAG committees need to have a quorum to conduct business. A quorum is a simple majority of the membership based on the attendance of the three previous Active Transportation Committee meetings. If the Active Transportation Committee does not meet the quorum requirement, members who have arrived at the meeting will be instructed that a legal meeting cannot occur and will subsequently be dismissed. Your attendance at the meeting is strongly encouraged. If you are unable to attend the meeting, please make arrangements for a proxy from your jurisdiction to represent you. Please contact Jason Stephens at (602) 452-5004 (office)/(602) 327-1819 (cell) or [jstephens@azmag.gov](mailto:jstephens@azmag.gov) if you have any questions or need additional information.

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50 Years of Serving the Region

## TENTATIVE AGENDA

### COMMITTEE ACTION REQUESTED

1. Call to Order

Quorum is required at all times to conduct the meeting. For the October 16, 2018, meeting, the quorum requirement is 12 committee members.

2. Approval of Draft September 18, 2018, MAG Active Transportation Committee Minutes

2. Review and approval.

3. Call to the Audience

An opportunity will be provided to members of the public to address the committee on items not scheduled on the agenda that fall under the jurisdiction of MAG, or on items on the agenda for discussion but not for action. Members of the public will be requested not to exceed a three minute time period for their comments. A total of 15 minutes will be provided for the Call to the Audience agenda item, unless the Committee requests an exception to this limit. Please note that those wishing to comment on action agenda items will be given an opportunity at the time the item is heard. Please fill out blue cards for Call to the Audience and yellow cards for Action Items.

3. Information.

4. Staff and Member Agency Reports

Staff and committee members are invited to provide an update of active transportation-related activity in their agencies.

4. Information and discussion.

5. Pedestrian and Bicycle Facilities Design Assistance Program Evaluation Criteria and Application Review

In response to an Active Transportation Committee request, a working group was assembled to review the Design Assistance evaluation criteria and application. MAG staff will provide a presentation outlining the proposed revisions to the criteria, application and score sheet.

6. Request for Future Agenda Items

Topics or issues of interest that members would like to have considered for discussion at a future meetings.

7. Next Meeting and Adjournment

Next meeting will be Tuesday, November 13, 2018, 1 p.m. in the Saguaro room.

5. Information and discussion and possible action to recommend approval of updated evaluation criteria for the Pedestrian and Bicycle Facilities Design Assistance Program and modifications to the policy and application, as appropriate.

6. Information.

## MINUTES

### MARICOPA ASSOCIATION OF GOVERNMENTS

#### ACTIVE TRANSPORTATION COMMITTEE

Tuesday, September 18, 2018 at 1 p.m.

MAG Office Building, Ironwood Room

302 North First Avenue, Phoenix

#### **MEMBERS ATTENDING**

Jose Macias, El Mirage, Chair of Active  
Transportation Committee

Susan Conklu, Scottsdale, Vice Chair

#Larry Kirch, Apache Junction

\*Ken Galica, Avondale

#Robert Wisener, Buckeye

\*Stacy Bridge-Denzak, Carefree

\*Ian Cordwell, Cave Creek

\*Jason Crampton, Chandler

#Nikki McCarty, Gilbert

#Marilu Garcia for Patrick Sage, Glendale

\*Christine McMurdy, Goodyear

#Maria Deeb for Jim Hash, Mesa

Kathy Borquez, Pinal County

Bob Beane, Coalition of Arizona Bicyclists

Reed Kempton, MCDOT

\*Randy Proch, Peoria

Joe Perez for Katherine Coles, Phoenix

Steven Ester, Queen Creek

Stephen Chang, Surprise

#Robert Yabes, Tempe

#Grant Anderson, Youngtown

Tiffany Halperin, Arizona Society of  
Landscape Architects

John Nixon for Bryan Hughes, Florence

\*Mike Gillespie, Litchfield Park

#Ryan Wozniak, Maricopa

Kenneth Steel, MCDPH

Jeff King, FHWA

**\*Members neither present nor represented by proxy.**

**#Attended via audio-conference**

## OTHERS PRESENT

Jason Stephens, MAG

Chris Milner, TY Lin

Teri Kennedy, MAG

Justin Feek, CivTech

Stephanie Stearns, MAG

Amy Garringer, Kimley Horn

Audra Koester Thomas, MAG

Dawn Fortuna, Rick Engineering

Margaret Boone, MAG

Jason Simmer, Kittelson

Tanner Christensen, Coffman Studio

Sanjay Paul, Rick Engineering

Omar Peter, Valley Metro

Randy Dittberner, J2 Design

Suzanne Day, Valley Metro

Daksha Masurleav, AECOM

Justin Azevedo, Coffman Studio

Anita Joheri, Wood

Mark Poppe, J2

Dean Chambers, J2

John Federico, VMAAC

### Call to Order.

Chair Jose Macias of El Mirage called the meeting to order at noon. A roll call was taken by Mr. Jason Stephens of MAG to confirm attendance.

### Approval of Draft August 21, 2018 MAG Active Transportation Committee Minutes.

Chair Macias asked the committee if there were any questions in regard to the minutes. There were no questions or comments. Reed Kempton of MCDOT moved to approve the minutes. Maria Deeb of Mesa seconded motion. The motion passed unanimously.

### Call to the Audience

An opportunity was provided to members of the public to address the MAG Active Transportation Committee on items not scheduled on the agenda that fall under the jurisdiction of MAG, or on items on the agenda for discussion but not for action. Members of the public were requested not to exceed a three minute time period for their comments. A total of 15 minutes was provided for the Call to the Audience agenda item, unless the Active Transportation Committee requests an

exception to this limit. Chris Milner of TY Lin stated that there will be a Bicycle Data for Planning in Arizona meeting and he encouraged everyone to attend.

### Staff and Member Agency Reports

Joe Perez of Phoenix stated that there are 50 new bike racks to be installed. He said there are three at Majerle's and three at the Arizona Center. He said if you ride your bike to these locations, use the bike racks. Jason Stephens of MAG asked committee members for before and after photos of any projects that came through MAG for social media purposes. He then asked members for volunteers to be on a working group to review and possibly revise the Design Assistance application. Randy Proch of Peoria, Kenneth Steel of MCDPH, Nikki McCarty of Gilbert, Maria Deeb of Mesa and Chair Jose Macias of El Mirage volunteered.

### Active Transportation Plan Update

Michael Hintze of Toole Design Group presented the committee with an update of the status of the MAG Active Transportation Plan (ATP) effort. He talked about the ATP Workshop that took place the day before. He stated there are preliminary corridors identified and a preliminary ATP Toolbox. He said the focus is on activity centers where investments in higher quality walking and biking infrastructure will pay off. He said the plan will address all areas of the region, but also focus on a "supergrid" framework that is more centralized. He said that preliminary evaluation criteria also has been developed and that criteria will be critical as it will determine, eventually, which corridors are selected. He said it will also possibly be used as the criteria for selecting active transportation projects in the future. He stated there will be a toolbox training in February for all members and any other agencies that would like to attend and talk more about active transportation infrastructure design concepts.

### WAYMO Presentation on the Interaction of Autonomous Vehicles with Pedestrians and Bicyclist

Dezbah Hatathli of WAYMO stated that the Phoenix Metro area is a good area to work on testing. She said WAYMO sees a lot of crashes caused by human error. She said WAYMO is looking at how to solve the problem. She said WAYMO looks at three different areas when it comes to transportation: safety, time and mobility (including people who may not be able to drive themselves). She said initially the vehicles were designed without pedals or a steering wheel. She said currently they are using the Chrysler Pacifica. She said they recently signed a partnership deal with Jaguar and they are working on where the sensors will be placed on the vehicle. She said they will be on the freeways in the Valley in late 2018. She said there are five different levels to autonomous vehicle automation. She said levels one to three is what we're most familiar with driver assisted technology such as cruise control and lane detection.

She said WAYMO began in level three then went into level four automation. She said in 2012 WAYMO employees were being trained in the vehicles. She said many of the employees weren't following protocol when it came to safety issues: sleeping, putting on makeup, looking for their phone. She said WAYMO shifted gears since then and have accumulated more than nine million

miles of driver assisted travel on the roads. She said they use radar and lidar. She said they can see three hundred yards in front and around the vehicle. She said they build a detailed map in house that situates the vehicle in the "world". She said they classify 10,000 different types of objects for the car to perceive when cruising down the roadway. She said the car then determines the best behavior with which to take when encountering the objects. She said if a pedestrian steps out onto the road, the car will slow down automatically, then determine whether to stop or go around the person based on the path the person is taking. She said the cars will react similarly to cyclists, though cyclists and pedestrians are classified differently. She said when encountering a pack of cyclists, the car sees it as one large object because a pack of cyclists will stay together generally and move as one. She said WAYMO is looking to open a ride-share business very soon. She said WAYMO is testing in 25 cities nationally. She said they do rain and snow testing in Michigan and Washington state. She said they are also doing self-driving semis to see how those vehicles move goods and services. She said they worked with Valley Metro on a first mile, last mile study. She said they have started doing a fully driverless vehicle test in Chandler. Mr. Perez asked how the vehicle determines a car door opening and pedestrian stepping out and how does a vehicle react if there's no safe exit. She said the car is able to classify a parked car versus a car that is running. She said the car will see that a car has pulled over and it will slow down in anticipation of someone exiting the vehicle. She said the car can also differentiate between an adult and child. She said the car will take more aggressive evasive reactions based on the situation.

Mr. Perez asked if there is a technology that WAYMO would like to see cities investigate to help WAYMO's car. She said WAYMO has not asked cities to conform to any infrastructure needs. She said they have their own mapping techniques. She said they are willing to meet with any jurisdictions to discuss this topic. She said they are also working with police and fire departments on driverless cars that have been in accidents. Bob Beane of the Coalition of Arizona Bicyclist said that the cars will be much safer at night in relation to cyclists and pedestrians. He said everyone should go try and see the cars in person. He asked how the car will react in a construction zone. She said the car will slow down and try to work out the situation, but will also send a report to the fleet responders. The fleet responders can get into the cars camera systems and find out a way around the construction. Susan Conklu of Scottsdale asked how the car scores or decides the importance if avoidance isn't possible. Ms. Hatathli said that because the vehicle is seeing 300 years ahead and all around, the vehicles ability to predict and classify the situation should keep the vehicle out of those situations. Margaret Boone of MAG asked what the depth of the radar system is. Ms. Hatathli stated that the car can project through solid objects and can tell whether or not to proceed through a left turn and determine oncoming traffic.

#### FHWA's Strategic Agenda for Pedestrian and Bicycle Transportation

Jeff King of FHWA said that the agenda is a framework to guide FHWA's pedestrian and bicycle investments during the five year period from FFY 2016-17 to 2020-21. He said there is also a wealth of additional information on the FHWA Bicycle and Pedestrian program page and provided you the link. He said if committee members click on the see more publications link they will also find the agenda. He said there are four goals were identified in the agenda; Networks, Safety, Equity and Trips. He said within each of these goals there were several priorities identified: Create

a Center for Pedestrian and Bicycle Excellence focused on implementation and innovation at the State DOT level; develop a charter to expand on the existing efforts of the Pedestrian and Bicycle Safety Action Team and formalize a structure for coordination on pedestrian and bicycle issues across the Department which may include re-designating the Team as a Pedestrian and Bicycle Coordinating Committee; and to establish a new Transportation Pooled Fund Study to support State, Metropolitan Planning Organization (MPO), and local pedestrian and bicycle experimentation with, and evaluation of, projects that promote design flexibility, contribute to connected networks, and encourage collaboration among a wide range of local, regional, State, and Federal partners. He said all research projects should maintain and enhance accessibility, even if they are experimental. He said right now Arizona does not have a pooled fund.

He said that he is not aware of any movement to create a specific Center for Pedestrian and Bicycle Excellence, but noted that the Center for Environmental Excellence by AASHTO (the American Association of State Highway and Transportation Officials) does include Active Transportation as a topic, and includes Bicycle and Pedestrian Activities in the work plan. He said the Pedestrian and Bicycle Information Center also acts as a national clearinghouse of pedestrian and bicycle information. He said the Pedestrian and Bicycle Coordinating Committee of U.S. DOT agencies has been established and the charter was approved. He said the Fostering Innovation in Pedestrian and Bicycle Transportation Pooled Fund Study has been established with commitments from 13 State departments of transportation and FHWA. He said the first round of projects are currently in procurement. He said a call for Round 2 funds will go out soon, with the kick-off meeting for Round 2 projects will take place in the late summer or early fall.

He said Every Day Counts (EDC 5), Safe Transportation for Every Pedestrian (STEP) 2.0 continues work from EDC 4 and adds two additional countermeasures: Rectangular Rapid Flashing Beacons (RRFB) and Leading pedestrian intervals. He said there is an upcoming webinar and provided a link. Ms. Boone asked about crash modification factors for bicycle countermeasures. Mr. King said there is a study going to take place for curb extensions and bicycle intersections markings. Mr. Perez stated that Arizona is a focus state and Phoenix is a focus city. He said he was hopeful that in the future there would be federal money for safety to reduce bicycle and pedestrian crashes.

#### Request for Future Agenda Items

Ms. Conklu asked that Mr. Perez provide a presentation on working with annual trip reduction survey data. She said she would like to learn more about the process and what he plans to do with it or if he's already utilizing it.

#### Adjournment/Next Meeting Date

Chair Macias stated that the next meeting will be on Tuesday, October 16, 2018 at 1 p.m. in the Ironwood Room, then he adjourned the meeting.

# Active Transportation Committee

## INFORMATION SUMMARY

### AGENDA ITEM # 5

#### DATE

October 10, 2018

#### SUBJECT

Pedestrian and Bicycle Facilities Design Assistance Program Evaluation Criteria and Application

#### CONTACT

Jason Stephens, Active Transportation Program Coordinator, (602) 452-5004.

## SUMMARY

At the conclusion of the Pedestrian and Bicycle Facilities Design Assistance programming process in 2017, members of the MAG Active Transportation Committee requested a review of the Pedestrian and Bicycle Facilities Design Assistance evaluation criteria and application, as the most recent review occurred in 2010.

At the September 2018 Active Transportation Committee meeting, a request was made for working group to review and possibly revise the evaluation criteria and application for the FY 2020 process and beyond. The working group met twice in September and ultimately recommend revising the application and criteria by combining some questions, eliminating others, while adding additional demographic data points.

In addition, the working group proposed that the intent of the program be clearer in its goal to fund project assessments (15% plans) for cities and towns that do not already have funds allocated. The group surmised that if a community was already going to build the project with or without MAG Design Assistance funding, that priority should be given to projects that would not otherwise progress without funding support.

The proposed application is attached for review.

## PUBLIC INPUT

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None

## PROS & CONS

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PROS: Approval of the new evaluation criteria and application will continue the Active Transportation Committee's goal of funding more Pedestrian and Bicycle Facilities Design Assistance projects that meet the intent of the program.

CONS: Some criteria has been modified, potentially changing project prioritization.

## TECHNICAL & POLICY IMPLICATIONS

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TECHNICAL: None.

POLICY: None.

## ACTION NEEDED

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Recommended approval of updated evaluation criteria for the Pedestrian and Bicycle Facilities Design Assistance Program and modifications to the policy and application, as appropriate.

## PRIOR COMMITTEE ACTIONS

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None.

INSERT PHOTO OF PROJECT AREA  
EXISTING CONDITIONS HERE

DESIGN ASSISTANCE APPLICATION  
for FY 2019

ENTER PROJECT NAME

ENTER MAG MEMBER AGENCY NAME

**Applications are due  
Friday, June 22, 2018 by 10:00 a.m.**

**DESIGN ASSISTANCE FY 2019 APPLICATION**

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**PART A - CONTACT AND PROJECT DESCRIPTION**

**Contact Information**

1. Name of Sponsoring Agency

2. Project Manager Name and Title

3. Phone Number of Project Manager

4. E-Mail Address of Project Manager

5. Mailing Address of Project Manager

**Project Description**

6. Please provide the Project Title.

7. Please provide the amount of funding requested:

8. Please provide a specific description of the project (i.e. bike path or sidewalk, width, length, cement or asphalt, etc.) (250 character limit):

9. Please provide the project limits:

**PART B - PROJECT DESCRIPTION (Please keep descriptions at a reasonable length)**

1a. What type of project is this?

- Bicycle lane
- Shared-use path (10' min.)
- Mobility Share (bikes, scooters, etc.)
- Crossing
- Sidewalk
- Other: \_\_\_\_\_

1b. What features or amenities are included in this project?

- |   |  |
|---|--|
| <input type="checkbox"/> Lighting                     | <input type="checkbox"/> Bike stands/lockers     |
| <input type="checkbox"/> Signals/ITS Technology       | <input type="checkbox"/> Nodes/pedestrian refuge |
| <input type="checkbox"/> Landscaping                  | <input type="checkbox"/> Wayfinding              |
| <input type="checkbox"/> Benches/trash cans/pet waste | <input type="checkbox"/> Other: _____            |

2a. What is the purpose of this project? What needs are being addressed?

2b. Why is this project important to the local jurisdiction? Does it connect to other local facilities?

2c. Why is this project important to the region? Does it fill a gap in the regional system or involve other jurisdictions?

3a. What is the total length of existing contiguous facilities directly connected by this project (in miles)

3b. Describe how this project will improve access to neighborhoods and/or adjacent land uses:

3c. Describe how this project will improve access to transit:

4. Describe how this project will address bicycle/pedestrian/vehicle conflicts (any combination):

:

5a. What are the demographics of the area served:

[MAG Demographic Mapping](#)

- People Per Square Mile
- % Families with Income Below Poverty Level
- % Age 65 Years and Over
- % Age 5 - 19 Years
- % Minority
- % Households with No Vehicle Available

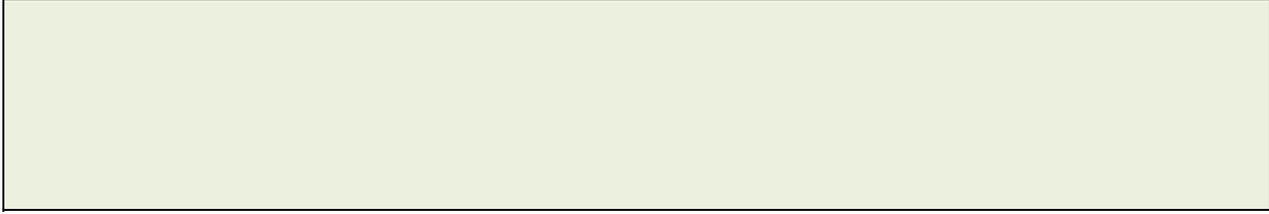
Use the MAG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reports," select "Custom Summary." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census blocks adjacent to your project, left-clicking where needed to change the direction of the line. Double-click to finish drawing the line. The selected census blocks will become highlighted in blue. A pop-up box will appear with "Report Results for Selected Block Groups." Select the "ACS 2016 Data" tab, and use the data found there. You may export the results to Excel (click the Excel icon at the top-right side of the pop-up window) for your records.

5b. How will this project serve the demographics of the area as described above?

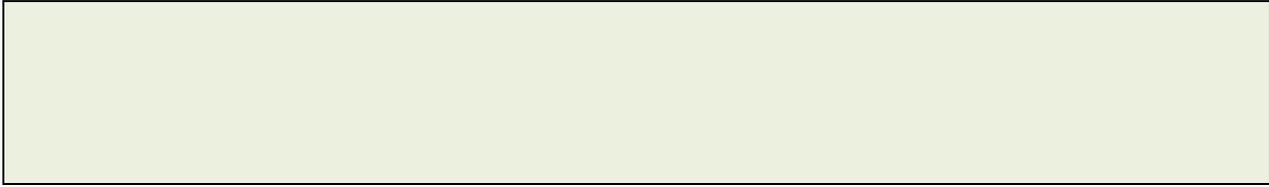
5c. How will this project benefit school children (ages 5-19)? Please list any schools within 1/4 mile of the project.

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6. Is the project in the General Plan or other planning documents? If not, please describe how it is consistent with the local jurisdictions general policies and practices



7. List the community partners that will be supporting the development and promotion of this project. Include city or town departments that will also be supporting the project.



## **Part C - Attachments**

Listed below are the required attachments for this project application. These attachments are intended to demonstrate the need of the project. They should clearly show the segment alignment and features that connect to other bicycle, pedestrian, and/or shared-use facilities, as well as washes, canals, railroad crossings, and other crossing features that may affect the project.

**PLEASE UPLOAD THE FOLLOWING AS A SEPARATE JPEG OR PDF:**

**Vicinity map**

**Project location map**

**Up to 4 context photos with captions**

**Up to 3 letters of support (optional)**

**PART D - SCOPE ESTIMATE BUDGET SHEET (PROJECT COSTS)**

1. What is the approximate cost for 15% preliminary plans\* for this project? Estimate cost for each task below:

	Scope of Work
	Stakeholder and Core Team Meetings
	Data Collection
	Data Analysis
	Project Assessment Report (Draft)
	Project Assessment Report (Final)
	Executive Summary and Regional Significance Report
\$0	<b>TOTAL COST ESTIMATE FOR 15% PRELIMINARY PLANS (SHOULD MATCH PART A, #7)</b>

\*15% Preliminary Plans generally include:

- Project Information (location, description, map)
- Background data including the need for the project
- Project Scope (length, type of work, how it is to be constructed)
- Project Development
- Environmental overview
- Geotechnical and drainage requirements
- Critical outside agency involvement
- Preliminary Right-of-Way requirements
- Preliminary Utility relocation requirements
- Preliminary Traffic requirements
- Seasonal consideration
- Design Criteria
- Itemized Cost Estimate
- Schedule
- Preliminary Plans
- Preliminary Pathway Horizontal Layout
- Typical Sections
- Preliminary Aesthetic Concept
- Information on potential funding sources
- Executive Summary

2. Is there an anticipated cost estimate for the whole project (please break down costs by design, environmental, ROW, utilities, construction, etc)? If not, please explain.

3. If this project is not awarded funding, will the member agency pursue completion of a Project Assessment Report (15% design) in the next year

APPLICATION SPONSOR:

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APPLICATION TITLE:

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**CATEGORY**

**DESCRIPTION**

- This project meet the intent of the Design Assistance program.
- This project serves the local jurisdiction.
- This project serves the region and/or adds a critical link to the overall multimodal transportation system.
- This project improves access to transit.
- This project address bicycle/pedestrian/vehicle safety conflicts.
- This project serves the needs of the demographics.
- This project helps to achieve existing plans and has been included in adopted regional or local plans.
- Community partners provide support to the development and promotion of this project.
- The project scope and estimated budget are feasible.

**POINTS**   **SCORE**   **NOTE (Optional)**

0-10		
0-10		
0-20		
0-5		
0-15		
0-20		
0-10		
0-5		
0-5		

**TOTAL SCORE (out of 100)**

0