

A photograph of a person in a white t-shirt and blue jeans watering plants in a garden. In the background, a white and yellow train is visible through trees. The image is overlaid with a semi-transparent white box containing text.

# Blue-Green-Grey Application for New Ideas Round 4 Project Funding Recommendations

Transportation Public Meeting | October 15, 2024

Devia Joshi, Transportation Planner



*Hatcher Station Community Garden, BGG Round 2 Award (2018)  
Image courtesy of DART*

# Application for New Ideas Round 4

Funding: \$250,000 total (RTC Local); no local match required

Anticipated awards: ~3

Call opened: July 15, 2024

Call closed August 16, 2024 at 5 PM



# Purpose of Initiative

The purpose of the Blue-Green-Grey (BGG) program is to promote the planning and construction of green or sustainable infrastructure in the region

Advance small projects with innovative outcomes that can be scaled and/or replicated regionally

Focus on three elements:



Blue – Water



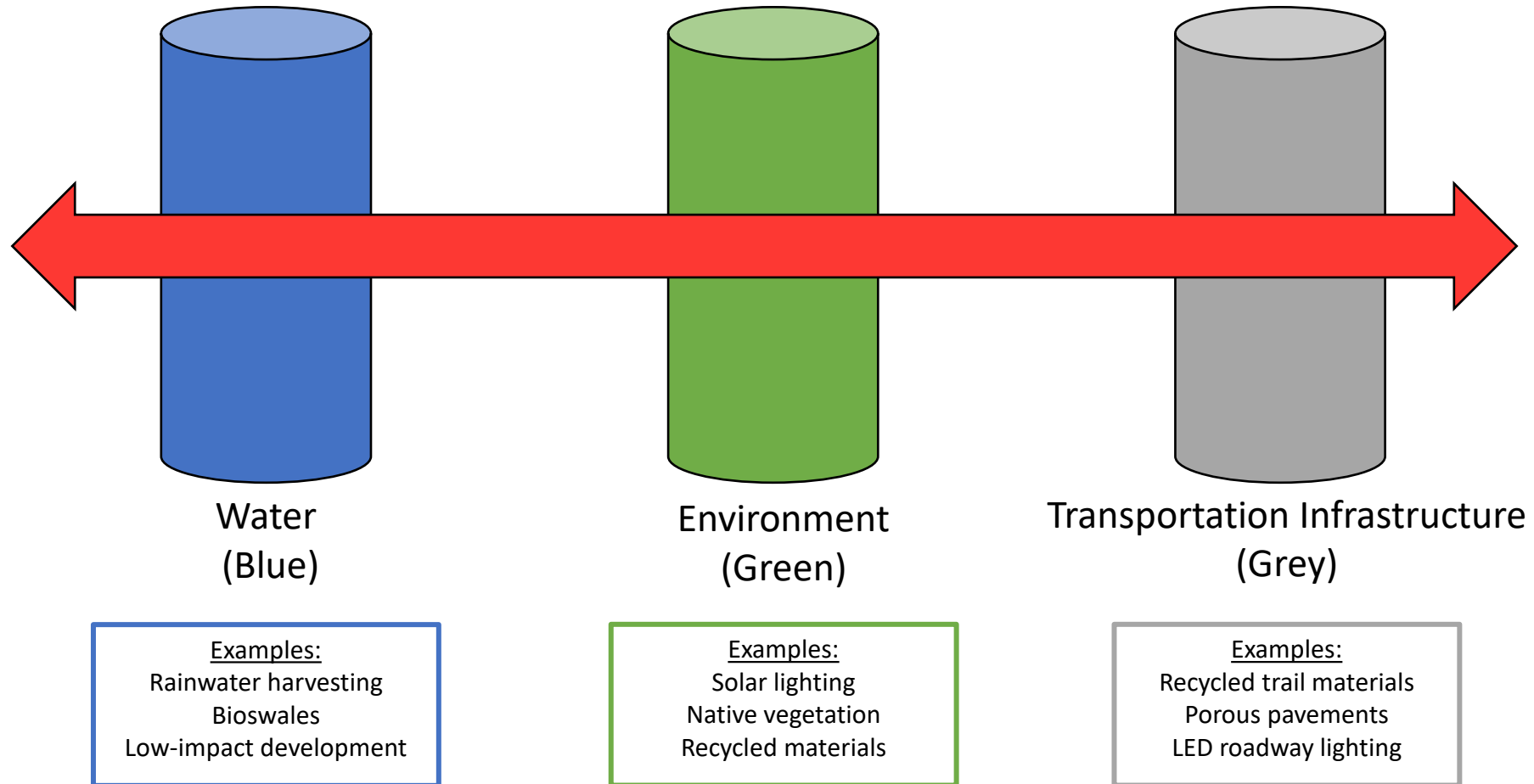
Green –  
Infrastructure



Grey –  
Transportation  
Infrastructure



# Silo Busting Projects



# Previously Funded Projects

## Funding Years

**2017**

DART Hatcher  
Station Community  
Garden Pilot  
Program

Southlake BioPod –  
Burney Lane  
Reconstruction

University Park  
Micro-Detention  
Project

**2018**

Farmers Branch  
Conceptual Bus  
Stop Designs

Bishop Arts Bicycle  
Parking Retrofitting  
Pilot

Watauga  
Biofiltration System

**2021**

City of Allen Inlet  
Floatables Filter

City of Dallas Bottom  
District Green  
Neighborhood  
Design Guidelines

University of  
Arlington  
Biofiltration Swales  
Testing

Project reports can be found here: [www.nctcog.org/greeninfrastructure](http://www.nctcog.org/greeninfrastructure)

# Previous Funding Rounds

Funding awarded to date:

FY 17: \$109,170

FY 18: \$138,500

FY 21: \$201,410



*Bishop Arts Green Bicycle Parking  
BGG Round 2 Award (2018)*

*Image courtesy of Amanda Popken Design*



# Project Examples

Projects may be either a feasibility assessment and/or planning for a Blue-Green Grey project

**OR**

Project is ready for construction/implementation

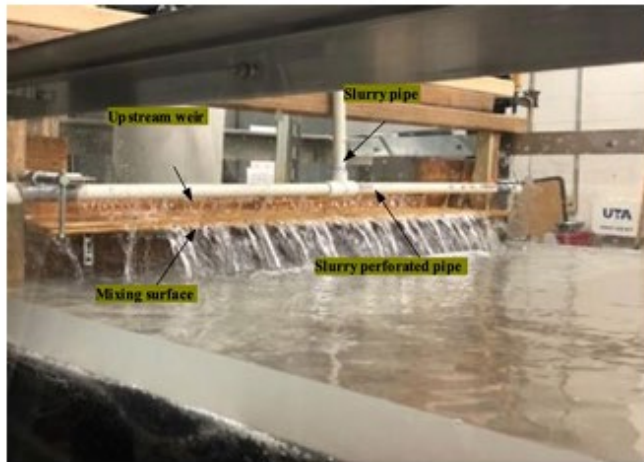
Project deliverables may look like:

- Guidelines for a pilot construction project that other entities can use
- Various test sites for a specific project
- Development/feasibility assessment of new technology or processes that could be integrated into any project
- Planning document outlining potential solutions



# Round 4 Project Review Committee

- Five NCTCOG staff members
- Met on September 3, 2024
- Reviewed nine submitted applications
- Recommended three applications for funding



UTA Engineered Media for Biofiltration Swales BGG Round 3 Award (2021)  
Image courtesy of University of Texas-Arlington



Farmers Branch Green Bus Stop Designs BGG Round 1 Award (2017)  
Images courtesy of City of Farmers Branch





# Scoring Criteria

- Incorporation of Blue (water), Green (environment), and Grey (transportation infrastructure) components
- Impact
- Innovation and significance
- Applicability, adaptation, transferability, and practicality
- Collaboration with various stakeholders



# Recommended Funding

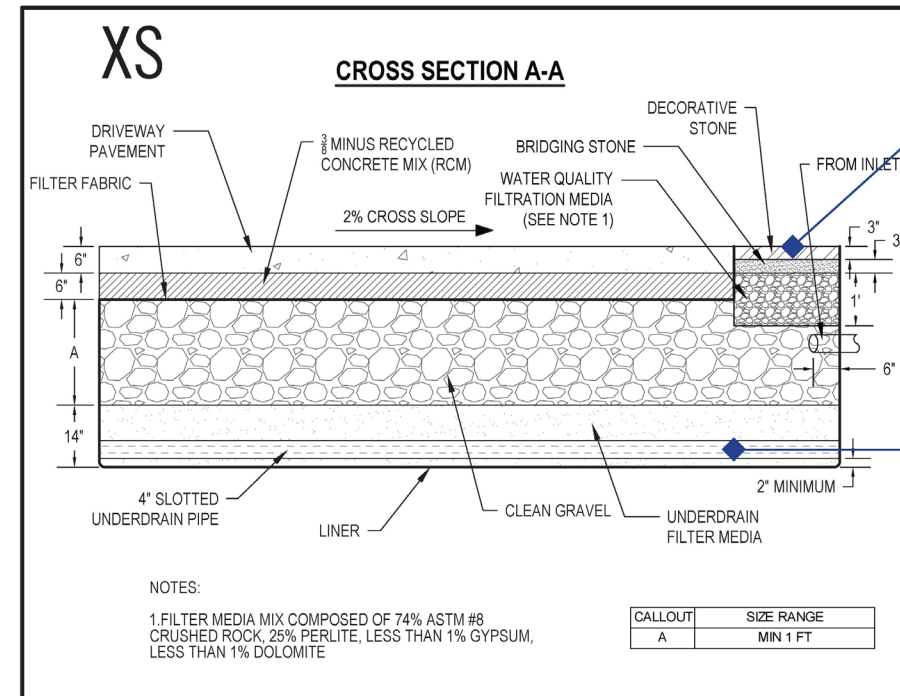
Project Name	Description	Cost	Average Rank
Allen - Inlet Filter Pilot Program	Implementation of designs previously funded through BGG for innovative inlet filters to reduce floatables in stormwater runoff from roadways	\$75,000	1.8
DART - Vermiculture Food Waste Composting at Lawnview Station	Install innovative fermentation / vermiculture food waste composting at Lawnview Station for use at community gardens	\$90,000	2
Frisco - Median Bioswale Retrofit Parkwood Blvd	Innovative application of a bioswale in a roadway median for stormwater management as demonstration project	\$83,300	2.3
<b>TOTAL RECOMMENDED</b>		<b>\$248,300</b>	
<b><i>Projects Not Recommended for Funding</i></b>			
UT Arlington - Critical Source Area ID for Nonpoint Pollution			5.2
Lewisville - LLELA Kayak Launch Redesign			5.3
Water is Alive - Healing the Earth with Microbes and Plants			5.7
Green Arlington Foundation - Pumps for Parks			6.5
<b><i>Projects Withdrawn by Applicant</i></b>			
Dallas County - Goat Island Preserve Parking Lot Rehab & Beautification			NA
Fort Worth - Mobile Collection Unit Digital Billboards			NA



# Allen

- Inlet filter pilot program
- Innovation:
  - Uses non-proprietary inlet floatable filters to mitigate stormwater runoff pollution
- BGG
  - Blue: improve stormwater runoff quality
  - Green: protect ecosystems from pollution
  - Grey: addresses pollution from roadway runoff

- ◆ The stormwater runoff runs through the Water Quality Filtration Media, composed of gypsum, dolomite, perlite, and crushed stone, which will remove metals and nutrients common with roadway runoff.



The decorative stone will aid in limiting the wear of the filtration layer. It also allows the system to be customizable to each resident who implements it.

A slotted underdrain releases the detained runoff from the chamber at a slow rate.

Image courtesy of Huitt-Zollars



# DART

- Vermiculture food waste composting
- Innovation
  - Using DART property to compost
  - Innovative vermiculture and fermentation composting
- BGG
  - Blue: compost retains water and reduces runoff
  - Green: recycles food waste and sequesters carbon dioxide
  - Grey: leverages Lawnview Station location



*Hatcher Station Community Garden BGG Round 1 Award (2017)  
Images courtesy of DART*



# Frisco

- Median bioswale retrofit
- Parkwood Blvd
- Innovation
  - Bioswale in the median of road
  - Green stormwater management
- BGG
  - Blue: mitigates stormwater runoff
  - Green: native plants used to filter stormwater
  - Grey: leveraging median of roadway



Figure 26. Historic Handley Urban Village Streetscape’s rehabilitated sidewalks. Top image source: City of Fort Worth.



Figure 27. Educational signage about bioswales in the Perot Museum parking lot.

*Images courtesy of North Central Texas Green Infrastructure Guidebook*



# Round 4 Schedule

Call for Applications Opens	July 15, 2024
Pre-application Workshop	July 17, 2024
Applicants submit questions for FAQ	July 15, 2024 – August 1, 2024
NCTCOG staff available to meet for preliminary application review	July 15, 2024 – August 1, 2024
Applications Due	August 16, 2024 @ 5 pm
Application Review and Scoring	September 2024
Recommended Projects Presented to STTC - Information	September 27, 2024
<b>Recommended projects presented at Transportation Public Meeting</b>	<b>October 15, 2024</b>
Recommended Projects Presented to RTC – Information	October 17, 2024
Recommended Projects Presented to STTC - Action	October 25, 2024
Recommended Projects Presented to RTC – Action	November 14, 2024

# Contact Us



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