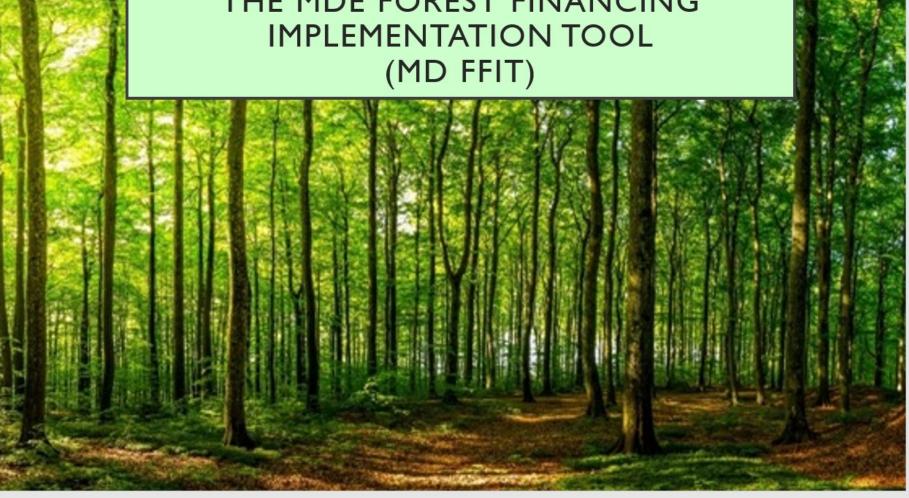


Maryland Department of the Environment







## Maryland Clean Water SRF

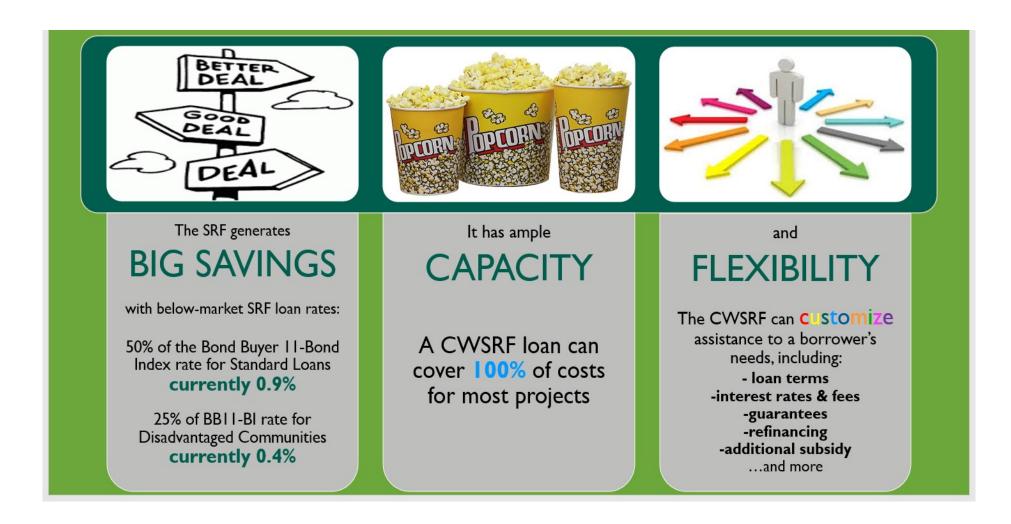
FIRST, SOME BACKGROUND INFO: WHAT IS THE MD WATER QUALITY REVOLVING LOAN FUND?

Maryland's Water Quality Revolving Loan Fund, more commonly known as the Clean Water State Revolving Fund (CWSRF), provides financial assistance for a wide variety of projects to protect or improve the quality of Maryland's rivers, streams, lakes, the Chesapeake Bay and other water resources. The CWSRF program:

- Represents the best value in the market for financing water infrastructure and nonpoint source projects
- Is administered by the Maryland Department of the Environment (MDE)
- Provides over \$150M in assistance per year to Maryland communities, on average



# Why Choose an SRF loan?





## Factors for DAC Consideration

#### WHAT IS A "DISADVANTAGED COMMUNITY"?

MDE's Water Quality Financing Administration takes several criteria into account to determine whether a community should be designated as "disadvantaged." These include:

- Community MHI < 70% State MHI</li>
- Located in an Environmental Benefit District
- Unemployment rate in upper 33<sup>rd</sup> percentile, and
- Population decline

Disadvantaged communities may qualify for reduced interest rates or loan forgiveness from MDE's CWSRF program



### IPPS RANKING FACTORS TO SCORE PROJECTS

- All applications for CWSRF assistance are scored and ranked using MDE's Integrated Project Priority System (IPPS)
- Riparian buffer restoration / tree planting projects are rated based on the below criteria:
  - Water Quality Benefit (Total Nitrogen (TN) reduction)
  - Effectiveness of TN reduction based on location of the project
  - Mitigation of a public health emergency, contamination, or flooding issue
  - Compliance credit toward a TMDL, a CCMP, or addressing a 4c listing from the Maryland Integrated Report of Surface Water Quality
  - Nitrogen Removal Cost Efficiency, and;
  - Co-Benefits (for Climate Mitigation, Adaptation, Resiliency, or Sustainability)
- Click <u>HERE</u> for more information about the IPPS and project ranking criteria.

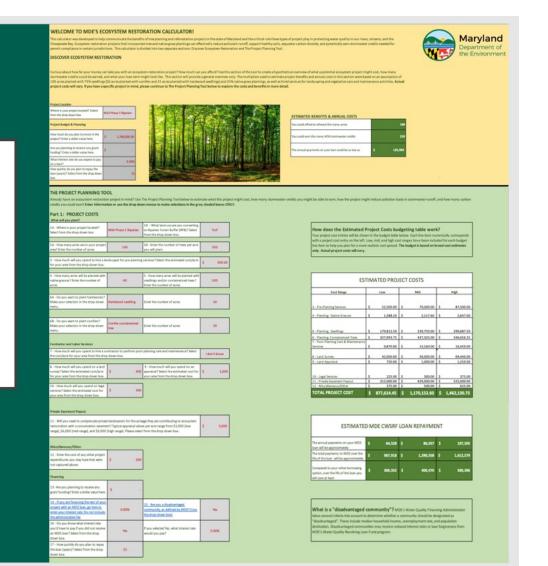


- Riparian Forest Buffer (RFB) Restoration was recently added to the IPPS as a fundable project type / ranking methodology
- This along with the Tool are part of MDE's efforts to encourage CWSRF applications from communities for tree planting / RFB restoration projects



## The Calculator at 10,000 Feet

### THE MARYLAND FOREST FINANCING IMPLEMENTATION TOOL





When a jurisdiction selects a best management practice (BMP), the focus is often on cost per acre. This tool can calculate reductions and efficiencies for Total Nitrogen (TN), Total Phosphorus (TP) & and Total Suspended Solids (TSS) based on user-defined inputs.

The Tool also helps an implementer calculate costs of working with partners like NGOs, decide which elements of a project to retain versus outsource, and estimate how competitive a loan proposal to MDE or a grant provider might be.





The Cost Efficiency section of the Tool provides usable information such as:

- Cost per Acre
- Annualized cost per pound of pollutant reduced (TN, TP, and TSS)
- Estimated Impervious Acre (EIA) Cost per acre, and
- EIA Cost per MS4 Credit. (MS4 = Municipal Separate Storm Sewer System)

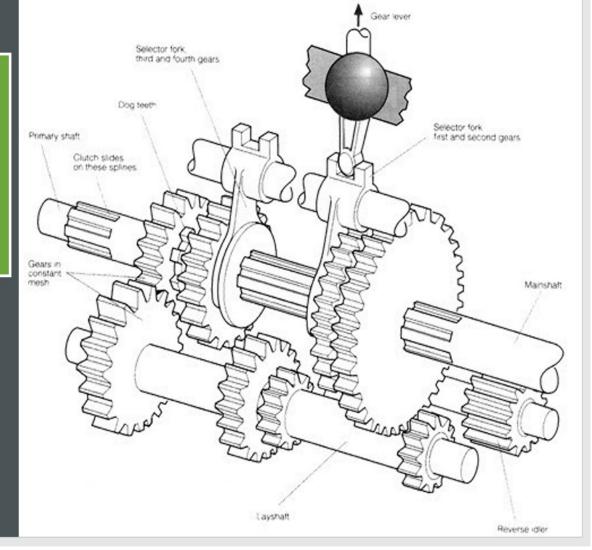
These efficiencies can be compared to other grant program criteria, e.g., the <u>Chesapeake Atlantic & Coastal Bays Trust Fund</u>





#### ALRIGHT, CAN YOU SHOW ME HOW THIS THING WORKS?

Yes!





### DEMO #1 2021 GUIDANCE

### DEMO #2 2014 GUIDANCE



## **Tech Specs Foundations**

#### 2021 VS. 2014 GUIDANCE CALCULATIONS

2021 GUIDANCE	2014 GUIDANCE
Permits for large, county jurisdictions	Permits for smaller populations such as Maryland municipalities
Tentative determinations issued 2020, expected final by end of 2021	Issued in 2018
2021 Guidance available <u>HERE</u> .	2014 Guidance available <u>HERE</u> .
Relies on the latest Chesapeake Bay program environmental modeling information (version 6.0) and is consistent with the <u>Chesapeake</u> <u>Assessment Scenario Tool (CAST)</u>	Relies on modeling data from the previous model (version 5.3.2)



# **Tech Specs Implications**

#### 2021 VS. 2014 GUIDANCE CALCULATIONS

- Due to inherent differences between model versions, the load calculations, credit received, and BMP options are different.
- MDE's Sediment, Stormwater, and Dam Safety Program (SSDS) can answer any questions about the equivalencies and review credit calculation outcomes on a case-by-case basis.
- It may be possible for a community initially under the 2014 Guidance to apply for and receive credit using the 2021 Guidance under certain circumstances.



#### NATIVE GRASS PLANTINGS

- Calculations based on the 2021 Guidance (riparian and non-riparian) are based on EIA conversions for both forest plantings and conservation landscaping (which includes native grasses).
- The 2014 Guidance did not include conservation landscaping, so these calculations are based on EIA land conversions for reforestation of previous urban areas ONLY.
- Also, for 2014 Guidance calculations, there is no difference in credits between reforestation of riparian and non-riparian





### What it Does not Do

### LIMITATIONS OF THE CALCULATOR

#### The Tool is for PLANNING PURPOSES ONLY!

- Tool outputs are dependent on userdefined inputs. The user must understand each step of the process and decide whether the elements they include in the calculations make sense.
- The Tool does not compare costs between RFBs and other BMPs. However, a user can make comparisons with known past expenditures for BMPs, or by referring to MDE's 2019 Stormwater Cost Report
- Costs in "Budget" and other supporting tabs were estimated based on research done in 2020/21. These costs provide a range of High, Medium, and Low estimates for the user's convenience. *However*, if better local data is available, users can request an unlocked version of the Tool from MDE to customize these values.

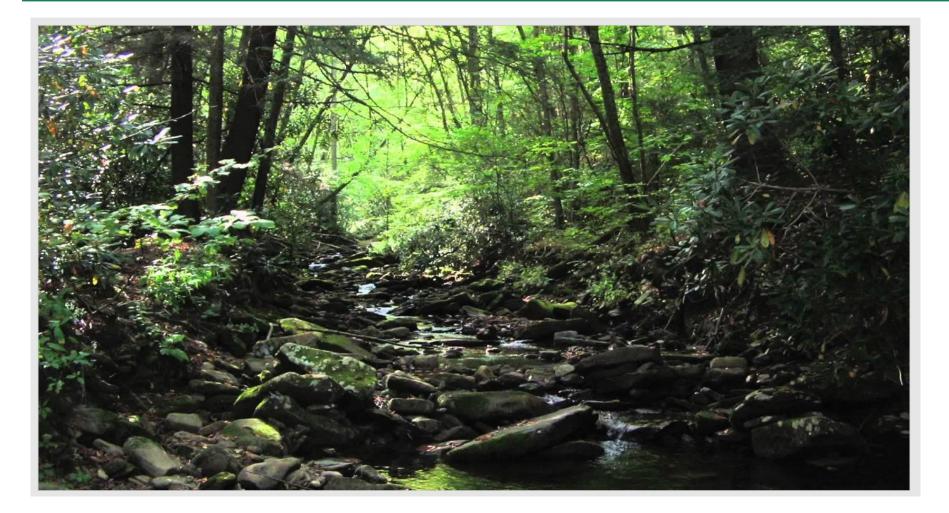


## **Points of Contact**

#### QUESTIONS AND TECHNICAL ASSISTANCE

- For MDE, permits help to achieve the <u>Watershed Implementation Plan</u> (<u>WIP</u>) <u>Goals</u>, therefore the MDE FFIT Tool has been designed for use by MS4 jurisdictions. *However*, if users wish to partner with a non-profit to carry out planting, maintenance or communications, all of these costs are independent and can be included or excluded in the calculations.
- Estimations from the Tool always require follow up with MDE staff to ensure that data, costs, and procedures are relevant and current. After using this Tool, please follow up with the appropriate Program:
  - Financial Questions Contact MDE WQFA HERE
  - Stormwater Permit Questions Contact MDE SSDS <u>HERE</u>
  - Watershed Restoration Questions Contact MDE IWPP <u>HERE</u>





Maryland Department of the Environment 1800 Washington Boulevard, Baltimore, Maryland 21230 Telephone: 410-537-3000 <u>Website</u> | <u>Facebook</u> | <u>Twitter</u>