POTENTIAL ELEMENTS FOR AN INTERGOVERNMENTAL AGREEMENT ON STORMWATER MANAGEMENT

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INTRODUCTION

Saw Mill Run is an urban stream in Allegheny County's South Hills, flowing through the jurisdictions of twelve municipalities. With residential and commercial development within the watershed, the stream has become hemmed in by impervious surfaces, becoming degraded and prone to flooding and poor water quality. In 2020, the Pittsburgh Water and Sewer Authority (PWSA), in partnership with Watersheds of South Pittsburgh (WoSPgh) and the other 11 municipalities within the Saw Mill Run Watershed, completed an Integrated Watershed Management Plan (IWMP) that lays out a roadmap to restoring the watershed and addressing flooding and water quality issues. The participating municipalities included: Baldwin Township, Bethel Park Borough, Brentwood Borough, Castle Shannon Borough, City of Pittsburgh (represented by the Pittsburgh Water and Sewer Authority or PWSA), Crafton Borough, Dormont Borough, Green Tree Borough, Mt. Lebanon Township, Mt. Oliver Borough, Scott Township, and Whitehall Borough. In particular, the IWMP outlines alternatives that may be different from the traditional, end-of-pipe solutions to address the Combined Sewer Overflows (CSOs) and Sanitary Sewer Overflows (SSOs) in the watershed, including combinations of location-specific green and gray projects, along with watershed-wide improvement. These solutions include, but are not limited to, green stormwater infrastructure installations, rehabilitating aging grey infrastructure, streambank stabilization and restoration projects, or the use of stormwater controls on new or redevelopment properties. The projects identified in the IWMP would also address regulatory requirements facing the municipalities, including Municipal Separate Storm Sewer System (MS4) permits, Total Maximum Daily Load (TMDL) requirements for Saw Mill Run, Phase II Sanitary Sewer Consent Orders, and CSO Consent Decrees, which require municipalities to develop a long-term wet weather control plan to reduce CSOs and eliminate SSOs, and ongoing flood issues.

The IWMP development process identified the need for a coordinated effort among the municipal and regulatory stakeholders of Saw Mill Run to implement the projects identified in the plan to support the



restoration of the watershed. Watersheds of South Pittsburgh, operating at the time as the Saw Mill Run Watershed Association, supported and facilitated discussions focused on establishing a cooperative agreement among the various municipalities and other stakeholders in the watershed. While the COVID-19 pandemic stalled development of the agreement, the establishment of a formal structure for collaboration among these stakeholders remains a key step to realizing the goals of the IWMP. Achieving these goals is paramount. Combined sewer overflows in the watershed, surface runoff, abandoned mine drainage, and separate storm sewer discharges continue to impair Saw Mill Run's water quality and quantity. Without cooperation among the twelve municipalities which make up the Saw Mill Run Watershed, these issues will persist. Cooperation and coordination between the municipalities and the Allegheny County Sanitary Authority (ALCOSAN), Pennsylvania Department of Environmental Protection (PADEP), United States Environmental Protection Agency (EPA) and United States Army Corps of Engineers (USACE) will also be essential to enabling and supporting the municipalities' collaborative efforts to implement the IWMP.

Watersheds of South Pittsburgh is facilitating an effort to bring communities in the Watershed together, to reinvigorate discussion and to develop a framework for multi-municipal cooperation on the restoration of the Saw Mill Run Watershed and the implementation of its Integrated Watershed Management Plan. This effort is taking a two-step approach: an initial Memorandum of Understanding (MOU) seeks to bring communities in the Watershed together, to reinvigorate discussion and to develop a framework for multi-municipal cooperation on the restoration of the Saw Mill Run Watershed and the implementation of its Integrated Watershed and the develop a framework for multi-municipal cooperation on the restoration of the Saw Mill Run Watershed and the implementation of its Integrated Watershed Management Plan.¹ Once the MOU is in place, the participating municipalities will seek to develop and draft a more detailed intergovernmental agreement (IGA) for review.

This document is meant to inform the creation of this more detailed IGA, by summarizing several key points of consideration in the creation of this framework, including: its approach to a financial structure, regulatory credit, and project selection and prioritization. This document is intended as a resource to support the discussions facilitated by Watersheds of South Pittsburgh, around multi-municipal cooperation on watershed management, but in no way limits discussion to these topics or agreement elements.

ORGANIZATIONAL STRUCTURE

Some key elements and decision points around a detailed multi-municipal agreement to stormwater management include strategies that address:

- The structure and facilitation of the collaborative.
- Contingencies for bringing new municipalities in the middle of the term.

¹ The potential Parties to the MOU include the 12 municipalities who participated in the development of the IMWP for the Saw Mill Run Watershed: Baldwin Township, Bethel Park Borough, Brentwood Borough, Castle Shannon Borough, City of Pittsburgh (represented by the Pittsburgh Water and Sewer Authority or PWSA), Crafton Borough, Dormont Borough, Green Tree Borough, Mt. Lebanon Township, Mt. Oliver Borough, Scott Township, and Whitehall Borough. These municipalities also reflect the potential signatories to this MOU.



• The process and implications if a municipality wants to withdraw from the agreement in the middle of a term.

Structure and Facilitation

The Pennsylvania DEP <u>notes</u> that "for a collaborative effort to be effective, it is recommended that one entity be appointed to lead the effort. Any party can serve a leadership role in coordinating a combined effort. County Planning Commissions, County Conservation Districts, and larger municipalities are commonly selected by permittees." In a review of 12 inter-municipal stormwater collaborations in Pennsylvania, in addition to one case study in North Carolina, WaterNow Alliance found that these collaborations represented a range of structures, were organized and led by a variety of organizational types. Leadership structures included:

- Collaborations led by a consultant hired by the collaboration (two collaborations)
- Collaborations led by a Conservation District or another branch of County government (four collaborations)
- Collaborations led by a regional commission or regional sewer authority (two collaborations)
- Collaborations led by a non-governmental organization (six collaborations)

Regardless of which leadership structure is chosen, the convener should aim to facilitate regular meetings and advance the collaboration's progress towards its shared goals. Watersheds of South Pittsburgh's role facilitating discussions around watershed management may make it a natural fit for a convener.

The IGA should also note the group's decision-making processes, assignment of votes and quorum, and meeting schedules and frequency. The group's MOU offers a starting point that could be modified based on the collaborative's experience in implementing it.

It may also be helpful to consider if the IGA should note the processes for creating any committees (e.g., a technical committee composed of the municipal engineers, a management committee composed of borough managers, etc.), and how committee members are chosen (e.g., on a volunteer basis, by appointment, etc.).

Processes for Joining and Leaving the Collaborative

The agreement would also benefit from clearly outlining the procedures for municipalities who wish to sign onto the IGA and join these efforts once it has been adopted and is underway, as well as the process and implications if a municipality wishes to withdraw from the agreement in the middle of a term.

Some approaches other collaboratives have taken regarding the addition of new municipalities include:

• In the Blair County Intergovernmental Stormwater Agreement (2019-2023), new municipalities were able to join by submitting a written request for memberships, signed by the chief executive officer of the municipality, which notes the name(s) of their intended



representative(s) to the ISC. The ISC voted on this request, and if approved, the new applicant becomes a member of the collaboration. The ISC employed a cost allocation based on member's population, stream length, and impervious surface, to split the costs of an annual budget. The collaborative updated this cost allocation to reflect the addition of any new members, and divided costs between members going forward. The collaborative's updated agreement maintains this approach.

 In the Eastern Delaware County Stormwater Collaborative Pollutant Reduction Plan: Supplemental Intergovernmental Agreement, additional municipalities may not be added as parties during the five-year term of the Pollutant Reduction Plan and the Agreement. Municipalities can submit an application to join subsequent agreements by submitting an application, which is accepted if it receives a majority vote of the member municipalities. The Agreement's Management Committee may also charge a joiner fee for any new municipalities.

Some approaches other collaboratives have taken regarding municipalities seeking to prematurely exit an agreement include:

- In the Eastern Delaware County Stormwater Collaborative Pollutant Reduction Plan: Supplemental Intergovernmental Agreement, any municipality may withdraw from the joint Pollutant Reduction Plan program at the end of the five-year MS4 permit cycle, by enacting an ordinance that fulfills the following requirements: maintaining responsibility for the costs of long-term management and maintenance of BMPs constructed while the municipality was a participating member; and assuming exclusive responsibility for the management and maintenance of any BMPs constructed within the boundaries of the withdrawing municipality.
- The Blair County Intergovernmental Stormwater Agreement (2024-2025) outlines an approach in which, if a member decides to withdraw, the remaining municipalities will still make the same financial contributions as if all members had remained for the rest of the subsequent year. At the start of the new year, the budget and cost allocations will be recalculated and applied to the following year. The withdrawing municipality must submit a withdrawal request by no later than July 1 of that year, or it will be responsible for its costs the following year.
- The Southwest Butler Stormwater Planning Group is a purely voluntary association, and members are not bound to continue participating. Some participating municipalities collaboratively apply for and manage grants, and this forms the basis for their coordination and cost-sharing.

The approach and stringency of the requirements for joining and withdrawing from an agreement may depend on the goals of the collaborative. As shown above, the Eastern Delaware County Collaborative's approach outlines more stringent requirements, reflecting the larger lift needed to create and implement joint regulatory approaches. Other collaboratives may be able to take a more flexible approach if costs can be recalibrated from year to year, as is the case in the Blair County collaborative. Notably, the Southwest Butler Stormwater Planning Group, which has the loosest restrictions on membership, is not seeking to receive regulatory credit for projects.





FINANCIAL STRUCTURE

The agreement should address how any sharing of funds for stormwater management projects in the watershed should be handled, including cost-sharing for capital projects and any shared responsibility for funding operations and maintenance. Other collaborative stormwater management efforts have taken several approaches to funding:

Funding Administrative Costs

- The administration of the collaboration is typically funded by the communities in situations where the coordinating body is a hired consultant. Communities typically share these costs evenly, with each municipality contributing a flat annual amount. Because these costs are relatively low compared to project implementation costs, remain constant year to year, and can be necessary even during the initial phases of a collaboration, administrative cost-sharing is often established early in the process of collaboration, forming an important first buy-in for participating municipalities.
- Contributions by participating municipalities to fund the administration of the collaboration may
 not be necessary where grant funding can be used to sustain the coordinating position, as in the
 case of Watersheds of South Pittsburgh, but the municipalities could consider contributing a
 small amount of funding to support the work of coordinating the collaboration as a match for
 grant funding. This could provide additional time for dedicated support of the Saw Mill Run
 communities, and could contribute to the long-term stability of Watersheds of South
 Pittsburgh's ability to support collaboration in Saw Mill Run Watershed.

Funding Construction, Operations and Maintenance

- Various approaches to funding water quality and flood reduction projects have been taken by other collaborations. While projects can be funded on a case-by-case basis, it is recommended to establish an agreed-to protocol for funding projects, to streamline project development and ensure that municipalities are contributing at a level that is both fair to all parties, and within their means.
- External funding will play an important role in the implementation of stormwater infrastructure in Saw Mill Run Watershed, but local contributions are also key to unlock access to additional funding sources. This may include additional subsidy through the State Revolving Fund (PENNVEST), grant funding which requires local match funding, and funding for the operations and maintenance of stormwater management practices to ensure that projects function as intended after their completion. As part of the same research project that has led to the production of this document, WaterNow Alliance will be producing a report offering additional research and consideration around some key potential funding and financing sources for the implementation of projects in the watershed. See the Phase 5 Memorandum (forthcoming) for more information.
- Approaches to sharing local responsibility for contributing funding among participating municipalities in other partnerships have included:



- Sharing costs according to the amount of pollutant load each municipality contributes to the water body being managed. This approach has been adopted by the Eastern Delaware County Stormwater Collaborative, where the creation of a Joint Pollutant Reduction Plan has allowed the Collaborative to establish the amount of sediment and nutrients each community's stormwater runoff contributes to stream pollution. This approach ties responsibility for project implementation to each municipality's impact on water quality in the stream, aiming to fairly share the cost of addressing the water quality issues to regulatory standards.
- Sharing costs according to a weighted combination of the number of stream miles located within a municipality, the total population of the municipality within the watershed, and the area of impervious surfaces in the municipality located within the watershed. Developed by the University of Maryland Environmental Finance Center, this approach has been adopted by the Blair County Intergovernmental Stormwater Committee, the York County Stormwater Consortium, and the Lebanon County Stormwater Consortium, with a weighting where 20% of the total cost-share is related to the number of impaired stream-miles within each municipality, 30% of the cost-share is related to the municipality's area of impervious surfaces in the watershed. Together, these three collaboratives have implemented nearly 200 stormwater management projects.
- Sharing costs equally. This approach is extremely simple to calculate, but risks inequitable distribution of costs between municipalities. This approach is rare when funding capital projects, but is more common for costs more similar to the administration costs described above, like funding contributions for education and outreach programs or the distribution of MS4 reporting resources.
- o These approaches are focused on equitably sharing costs according to the responsibility each municipality bears for contributions to water quality impacts, along with ability to pay. In order to address localized flooding by sharing the costs of projects intended to address flood risk, members of the collaboration in Saw Mill Run Watershed could consider sharing costs according to the projected reduction of risk during high-volume storm events. For example, costs could be shared according to modeled reduction of flow in-stream during 1-, 2-, or 5- year storm events. An approach like this has fewer prior examples to build on, since a majority of existing collaborations for stormwater management are focused more on water quality improvements to meet regulatory standards than they are on reducing flooding. The Southwest Butler County Stormwater Planning Group, a collaborative effort in the region that does focus primarily on flood mitigation, is a voluntary group and conducts its projects and funding contributions for them on a case-by-case basis.





REGULATORY CREDIT

Receiving regulatory credit for collaborative efforts to address water quality and quantity issues will require the approval of the Pennsylvania Department of Environmental Protection. While DEP has indicated willingness to approve collaborative plans for addressing the requirements of the MS4 permit, relatively little guidance exists regarding the form such collaboration should take to meet with regulatory approval. Instead, collaborations are asked to develop and present a plan for approval without DEP's input. This can create challenges for collaborations in cases where the time and resources used to develop a plan are not assured of being approved. The two-phase approach outlined in this document is one strategy which can help to address this challenge: the initial phase of collaboration represented by the period between the signing of the MOU and the development of the full intergovernmental agreement allows time for the development of a plan, contingent on DEP's approval.

Some additional strategies for receiving regulatory credit that have been used by other collaborative groups are summarized here:

- The development of a joint Pollutant Reduction Plan (for collaborations working in the Chesapeake Bay Watershed) or a joint Total Maximum Daily Load (TMDL) Plan or TMDL Alternative. These joint regulatory plans address the requirement to assess and reduce the amount of nutrients, sedimentation, or acid mine drainage contributed to an impaired stream by each municipality under the MS4 program. By creating a joint plan outlining the collaborative efforts to meet the requirements of the TMDL, and receiving DEP approval of the joint plan, all the municipalities are able to meet their obligation to create TMDL plans. The collaborative funding and implementation of the projects outlined in the plan then meets the MS4 requirements of all the communities party to the joint plan, with respect to the TMDL.
- Centralized and coordinated education and outreach efforts. Many stormwater management collaborations work to address Minimum Control Measures 1 and 2 of the MS4 permit (Public Outreach and Education on Stormwater Impacts, and Public Involvement/Participation) through the coordinating body of the collaboration. This can take the form of outreach and education efforts conducted by the coordinator, as in the case of the Blair County Intergovernmental Stormwater Committee, or in the development and sharing of resources by the coordinator which communities can use to carry out their own outreach, education and involvement processes, as with the Perkiomen Watershed Conservancy.
- Facilitation and mediation of the relationship between the municipalities and regulators. In cases where a joint plan has not yet been put into place or is not feasible, the coordinating body of a collaborative partnership can still serve a mediating role between municipalities and regulators. Watersheds of South Pittsburgh has already been serving in this role in Saw Mill Run Watershed through the development of the Integrated Watershed Management Plan, and could continue to do so as the intergovernmental agreement is developed. A similar approach has been taken by the Christina Watershed Municipal Partnership, a collaborative organization that provides communities with individualized support in preparing TMDL Plans and PRPs as well as coordinating collaborative outreach and education efforts among its member communities.





PROJECT IMPLEMENTATION

A key role of an IGA would be to create a priority list for project implementation, that allows for flexibility in its implementation, in order to align with grant opportunities, collaborator readiness, and to enable all communities to see benefits directly within their jurisdictions.

Other inter-municipal collaborations in Pennsylvania have considered this issue in a variety of ways, including:

Project selection

Stormwater collaboratives have prioritized projects according to their impacts on regulatory goals (e.g., sediment reduction), feasibility and alignment with funding opportunities, and/or their contributions to reducing flood risks. For example:

- In the Blair County ISC, the County Conservation District maintains a list of prioritized projects that informs the fund's goals. This list was developed by consultants who estimate the engineering, design, and construction costs for projects that would meet the Pollutant Reduction Plan's sediment reduction goals.
- The Eastern Delaware County Stormwater Collaborative typically prioritizes projects according to their feasibility. The projects are typically selected organically, grant by grant, and the Collaborative focuses on options where there is an eagerness to go forward and grant funding available to support the effort.
- The Brandywine Red Clay Alliance Implementation Plan <u>outlined</u> an approach of targeting subwatershed stream reaches that had the best chance for re-evaluation by PADEP for 303(d) delisting, focusing available restoration projects and resources in these targeted sub-watershed areas, while recognizing that other projects will still occur elsewhere based on past efforts, willing landowners, and other considerations. This effort noted that, "while no organization was expected to alter the work they were already doing, the question was whether there are areas of overlap or need that a majority of players could rally behind" (pg. 17).
- The <u>Wissahickon Clean Water Partnership's IGA</u> describes the creation of a Water Quality Improvement Plan, identifying potential projects that "will be assessed and prioritized based on their anticipated ability to provide results that can be measured to monitor the progress of water quality improvements, and financial feasibility."
- In discussions with stormwater collaboratives, several emphasized the political considerations of
 project locations, and sought to ensure a balance of projects across municipalities in different
 locations, and with a varying amount of resources. Along similar lines, making the connection
 between stormwater management and flooding can increase community willingness to
 participate.

In developing an IGA, participating municipalities may also want to consider their approach to building on the project identification work that has already begun in the watershed. The IWMP for Saw Mill Run included the development of the following project criteria, to identify key water quality issues in the watershed:



- Prioritize projects at the upstream end of the watershed and work downstream.
- Reduce peak flows in the watershed.
- Stabilize the streambank to reduce high sedimentation loads, improve the aquatic habitat, and improve how the stream flows and aerates.
- Treat the largest AMD sources (e.g., Route 51/Library Road intersection).

The watershed was divided into 12 watershed management zones to identify needed projects at a neighborhood scale. The zones were determined by characteristics including sub-watersheds, municipal boundaries, and key locations along the Saw Mill Run. A total of 70 green infrastructure projects, distributed throughout the watershed management zones, were identified under a separate scope of work and prioritized for implementation through four phases, alongside additional gray infrastructure projects. These four phases are listed below:

- Current MS4 NPDES Permit Term (2019-2023)^{2 3}
- Next MS4 NPDES Permit Term (2024 2028)
- Following 10 Years (2029 2038)
- Long-Term Implementation (After 2038)

The discussions around the IWMP also identified early project selection criteria including pollutant reduction (e.g., single or multiple pollutants addressed, cost efficiency of removal), economic and social considerations, stormwater volume and peak flow reductions, funding opportunities, and partnership and coordination opportunities.

The phased approach is intended to allow the municipalities to plan for capital expenditures separated into near-term and long-term projects. A summary of this approach is described in greater detail in the <u>IWMP</u>.

Project implementation

It may be helpful to consider the logistics of project implementation, such as the process for selecting project engineers, and conducting operations and maintenance. For instance, will these be chosen by the participating municipalities and/or by the wider collaborative?

• In one collaborative's approach, the municipality where a project is located typically selects a firm to work with. The collaborative has found that giving municipalities this final say has been

² As of September 2022, the Department of Environmental Protection has extended the current NPDES MS4 General Permit for 24 months, until March 15th, 2025.

³ This first phase also includes projects that will be completed through a partnership between the Pennsylvania Department of Transportation (PennDOT) and the PWSA. PennDOT and the PWSA worked together to develop the PennDOT and City of Pittsburgh Water and Sewer Authority MS4 Partnership Request for Proposal (RFP). This suite of projects was developed to reduce sediment pollution in the Saw Mill Run Watershed as part of the Pollution Reduction Plan (PRP) obligations in the NPDES permits for respective MS4s. The RFP has been developed and funds in the amount of \$6,900,000 have been budgeted by PennDOT and the PWSA. These projects have been included in the first phase of the IWMP.



important, though, in some cases, bringing engineers on board to green infrastructure solutions can be challenging.

• At the same time, this collaborative seeks to use the same engineering firm to handle the project design, apply for permits, conduct construction oversight, and navigate fair wage and other requirements; ideally, they try to have the firm own this process as much as possible. The Collaborative also hires one firm to conduct operations and maintenance across its projects, since outsourcing this work helps ensure consistent and effective maintenance.

Community Partnerships

Several collaboratives, including the Blair County ISC and Eastern Delaware County Stormwater Collaborative, have developed partnerships with private owners, local businesses, or non-profit organizations, to help implement projects. These collaborations range from collaborating on joint grant applications, to implementing stormwater management projects across numerous properties held by a private owner, to working with volunteers to conduct limited operations and maintenance work. For example, the Blair County ISC recently entered into a partnership with a local organization, Trust for Tomorrow, and received credit from that project; they are hoping this structure can continue and enable the ISC to also act as a potential funding source for other local organizations.

GLOSSARY

"Best Management Practice" means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce pollutant loading to surface waters of Saw Mill Run.

Combined sewer systems are stormwater and wastewater conveyances that carry domestic sewage and stormwater runoff in one pipe. Combined sewer overflows, or "CSOs," occur when combined sewer systems become overwhelmed by excess stormwater and overflow, discharging a combination of stormwater, untreated human and industrial waste, and other stormwater pollutants into waterways.⁴

"Green Stormwater Infrastructure," also referred to as "GSI," means the range of soil-water-plant systems that intercept stormwater, infiltrate a portion of it into the ground, evaporate a portion into the air, and in some cases release a portion of it slowly back into the sewer system.

The **"Integrated Watershed Management Plan,"** also referred to as "IWMP," means the report, which was finalized on March 31, 2020, and outlines alternatives that may be different from the traditional, end-of-pipe solutions to address the Combined Sewer Overflows (CSOs) and Sanitary Sewer Overflows (SSOs) in the watershed, including combinations of location-specific green and gray projects along with watershed-wide improvement. It reflects a collaboration lead by the Pittsburgh Water and Sewer Authority (PWSA), along with its partners, Watersheds of South Pittsburgh, the additional 11 local

⁴ For additional information, see: <u>https://extension.psu.edu/what-are-combined-sewer-overflows</u>.





watershed municipalities⁵, and the Allegheny County Sanitary Authority (ALCOSAN) worked together to develop an Integrated Watershed Management Plan (IWMP) for the Saw Mill Run (SMR) watershed.

"Long-term Maintenance" refers to the routine inspection, maintenance, repair, or replacement of a BMP to ensure proper function for the duration of time that the BMP is needed.

A **Municipal Separate Storm Sewer System, or "MS4,"** refers to a collection of structures designed to gather stormwater and discharge it into local streams and rivers.⁶

Sanitary sewer systems collect and transport domestic, commercial, and industrial wastewater and limited amounts of stormwater and infiltrated ground water to treatment facilities for appropriate treatment. Sanitary sewers are different than combined sewers, which are designed to collect large volumes of stormwater in addition to sewage and industrial wastewater. Occasionally, sanitary sewers will release raw sewage. These types of releases are called sanitary sewer overflows or "SSOs".⁷

The **"Total Maximum Daily Load" or "TMDL"** refers to the total allowable pollutant load to a receiving waterbody, such that any additional loading will produce a violation of water quality standards.⁸

⁵ In addition to PWSA, the participating municipalities include: Baldwin Township, Bethel Park Borough, Brentwood Borough, Castle Shannon Borough, City of Pittsburgh (represented by the Pittsburgh Water and Sewer Authority or PWSA), Crafton Borough, Dormont Borough, Green Tree Borough, Mt. Lebanon Township, Mt. Oliver Borough, Scott Township, and Whitehall Borough.

⁶ For additional details, see: <u>https://extension.psu.edu/what-is-an-ms4</u>.

⁷ For additional information, see: <u>https://www.epa.gov/npdes/sanitary-sewer-overflows-ssos</u>.

⁸ For additional information, see: <u>https://www.epa.gov/tmdl/overview-total-maximum-daily-loads-tmdls</u>.