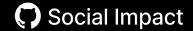


Welcome to Our Open Source Community!

MozFest | 9 March 2022

in partnership with



Presenters



Mala Kumar Director Tech for Social Good, GitHub



Stephanie Coker Evaluation & Learning Consultant TCC Group



Ben Kinsella General Manager Tribe Al



Eric Jahn Founder HSLynk

Please introduce yourself on the chat!



What is the MERL Center?

What is MERL?



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MERL Center working definition of monitoring, evaluation, research & learning (MERL)

- Monitoring refers to the routine collection and analysis of information on an ongoing basis. This helps understand progress toward objective targets and support regular (or iterative) course-correction throughout the life of the life of the project.
- Evaluation assesses a planned, ongoing or completed activity to assess whether the wider, overall objectives have been achieved, for whom, why (or why not), and how.
- **Research** serves to increase the common body of evidence within and beyond an implementing project. It helps to establish or confirm facts, reaffirm the results of previous work, identify potential solutions for new or existing problems, support hypotheses, or develop new theories.
- Learning is the incorporation of monitoring, evaluation and research knowledge into how we do things, and it also describes what happens when we change and adapt how we do things going forward, based on past experiences.

View on GitHub

Why is MERL important in the Social Sector?

Evidence-based interventions

How can we be sure an intervention leads to an outcome? How many steps does it take to get there? What are the inherent assumptions?

Social interventions are the most complex solution to engineer

How do you ensure participants are sticking to the intervention? How do you know when to change the type of intervention?

Historical 'savior complexes'

How do you determine what's necessary for change to happen? How do you make sure you're 'doing no harm'? How do you include all stakeholders and participants?

Why the MERL Center?



- GitHub Social Impact, Tech for Social Good founded the MERL Center in September 2019 at the MERL Tech Conference
- MERL practitioners often work in silos. They wanted a way to collaborate on content on relevant tech topics, like open source software and open data.



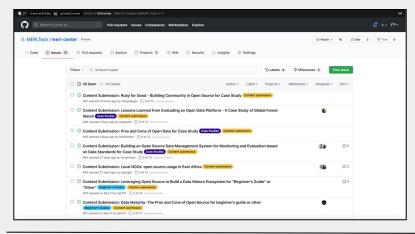
	Functional Area 1	Functional Area 2	M & E	Functional Area 4	Functional Area 5
Sector 1	OS Tools	OS Tools	OS Tools	OS Tools	OS Tools
	Used	Used	Used	Used	Used
Sector 2	OS Tools	OS Tools	OS Tools	OS Tools	OS Tools
	Used	Used	Used	Used	Used
Sector 3	OS Tools	OS Tools	OS Tools	OS Tools	OS Tools
	Used	Used	Used	Used	Used
Sector 4	OS Tools	OS Tools	OS Tools	OS Tools	OS Tools
	Used	Used	Used	Used	Used
Sector 5	OS Tools	OS Tools	OS Tools	OS Tools	OS Tools
	Used	Used	Used	Used	Used
Sector 6	OS Tools	OS Tools	OS Tools	OS Tools	OS Tools
	Used	Used	Used	Used	Used
Sector 7	OS Tools	OS Tools	OS Tools	OS Tools	OS Tools
	Used	Used	Used	Used	Used

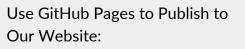
Collaboration in the MERL Center

- 50+ members in 15+ countries
- More than ¼ members are women of color
- Private, public, social sector
- Data scientists, project managers, UX designers, strategists and more

Read member testimonials here

Collaborate on GitHub, Google Workspace, Slack



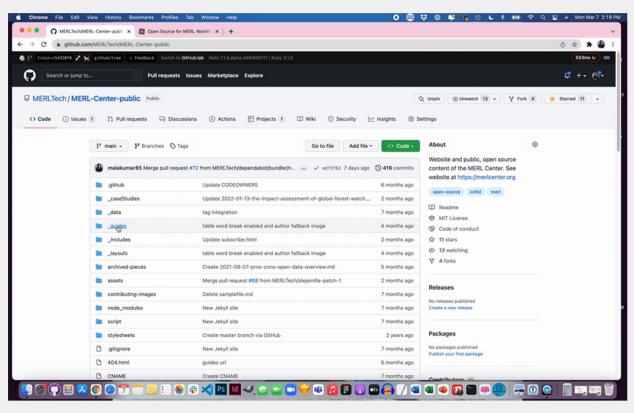


https://merlcenter.org

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MERL Center on GitHub





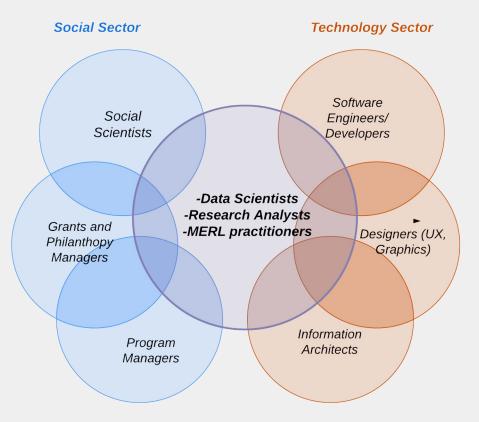


MERL Center Content

Copied from Issue:

"How to bridge the gap of communication that often exists between software devs and MERL folks. I'd run into the issue a couple of times, as I facilitated conversations between data consultants and nonprofit program coordinators. Not speaking the same language really hampered discussions, especially when a nontechnical nonprofit is trying to implement new technology solutions for monitoring and measuring the impact of their programs. Also came across this issue even as we were starting to write the article."





Typical Social Sector Request:

"How do create a tool that effectively monitors my program participants as they progress along a spectrum of improvement so I can figure out how to expedite the progression? <u>All using Free</u> <u>and Open-Source Software</u>?"





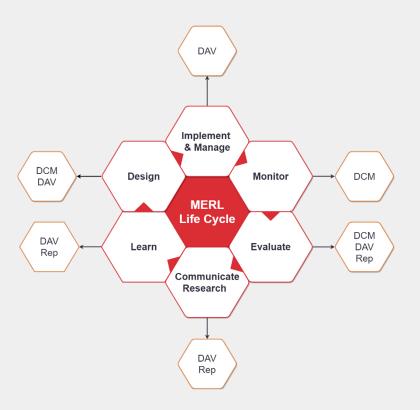
Open Source for MERL Workflows - Guide

By Stephanie Coker, Mala Kumar and Vidya Mahadevan

This piece of content maps out MERL workflows and tech workflows to create "MERL Technology" workflows:

- Data Collection and Management (DCM)
- Data Analysis and Visualization (DAV)
- Reporting (Rep)

Read the guide on the website



Typical Social Sector Request:

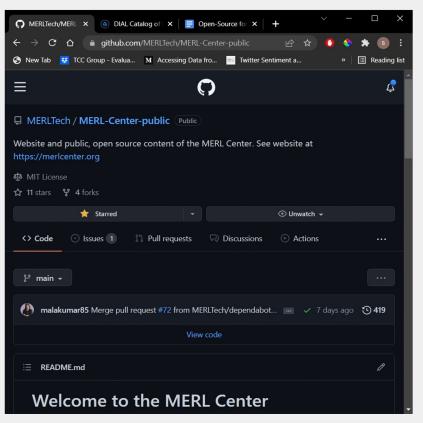
"How do create a tool that effectively monitors my program participants as they progress along a spectrum of improvement so I can figure out how to expedite the progression? <u>All using Free</u> <u>and Open-Source Software</u>?"

Translation Using MERL workflows:

"How do implement an ongoing OSS data collection tool with program participants, create an OSS database, analyze data from OSS database with an OSS tool and create periodic reports using an OSS data viz tool?"



Open Source for MERL Workflows - Demo





OSS and Data Maturity - Problem Statement



- The social sector has benefited enormously from <u>data analytics</u> <u>technologies</u>
- However, organizations still struggle building coherent data strategies around data maturity

Common Data Maturity Frameworks in the Social Sector

- DataKind UK/Data Orchard Data
 <u>Maturity</u>
- <u>CARE's Responsible Data Maturity</u>
- Data.org Data Maturity Readiness

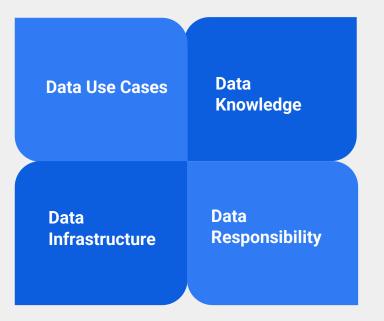
There is little guidance on **the role of software** and its role in implementing elements of data maturity strategies

OSS and Data Maturity - Guide

By Ben Kinsella with inputs from Rachel Wells

- → What is open source software (OSS)?
- → What is the interplay between OSS and proprietary software within organizations?
- → Why is OSS an important component when building data mature organizations?

Read the guide on the website





OSS and Data Maturity Map





HSLynk SDGs and Human Services Interoperability -Problem Statement



- Measuring outcomes (such as SDGs) to improve social services impact is increasingly important for philanthropic and public benefit programs.
- Tools are needed to help communities and foundations measure the impact of their investments. Through better measurement and tracking, positive change can be made by backing proven and replicable interventions.
- There is no cost effective infrastructure for communities to track outcomes across their continuum of program services and benefits.
- To achieve outcomes, fine-grained client consent and activity sharing across programs must support outcome measurement.

HSLynk SDGs and Human Services Interoperability -Guide



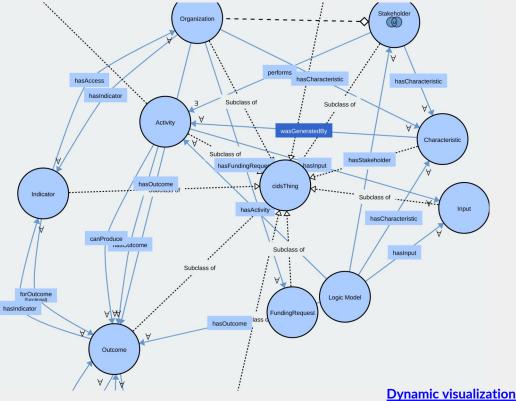
Project History

- 2015 2020: development under an open source license (Mozilla Public License, v2) by a private US-based SaaS company.
- 2021: HSLynk spun off as a non-profit entity, to pivot to a community hosted project focusing on Sustainable Development Goals
- 2022: HSLynk simplifying its software stack to meet goals of ease of replication/modification, flexibility, and lowered cloud hosting costs



HSLynk SDGs and Human Services Interoperability -Guide

- Measuring progress toward Sustainable Development Goals at the macro level.
- The Common Impact Data Standard* is an ontology that can help track SDG progress.
- MERL Center collaboration with standards.

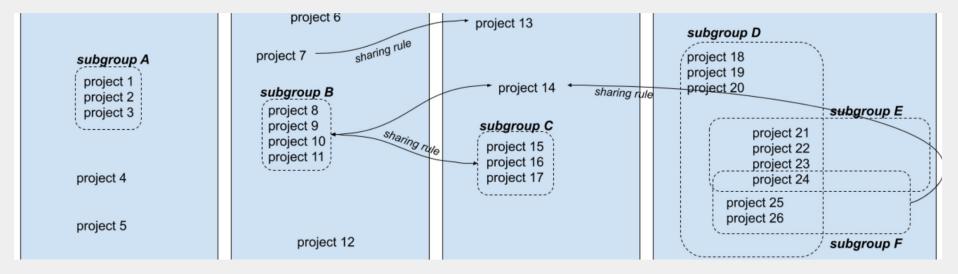


*<u>See here</u>

HSLynk SDGs and Human Services Interoperability -Guide



At the micro level, community information sharing is complex, and overlaid client consent rules result in even more complex sharing.



HSLynk SDGs and Human Services Interoperability



- We want to build the Common Impact Data Standard (CIDS) web ontology into HSLynk, so that SDG outcomes could be tracked in conjunction with human services, and potentially other types of services and program enrollments. Together, HSLynk and CIDS could serve as a generic, human services outcome and enrollment system for free, worldwide use.
- This would help funders measure and track the impact and efficacy of their investments within social services and healthcare and accelerate positive change.

Where we want to go:

- Containerize HSLynk for easier deployment and for development and testing, cloud platform agnostic
- Insert schema-less data lake to store open data formats for SDGs (RDF knowledge graph, Iceburg, Parquet)
- Worldwide scope, generalized framework, MERL Center participation and support

Contact us: eric@alexandriaconsulting.com



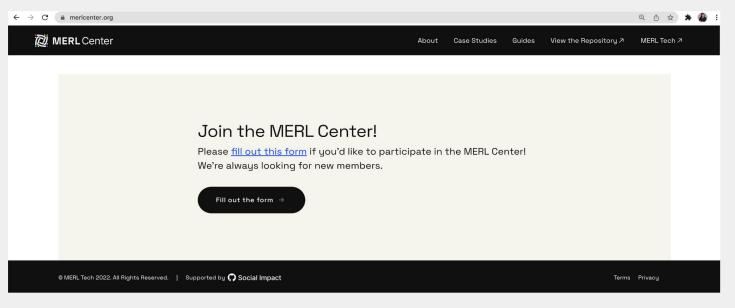
How do I Join the MERL Center?

How do I Join the MERL Center?



We ask you have at least one year of professional work experience in MERL or data science, human-centered design or open source solutions.

Go to https://merlcenter.org or directly to https://forms.gle/ULFWYt6y4fkw2FH28



MERL Center Stipend, Cohort 2



Application launches on 14 March 2022!

The requirements and link will be posted on <u>https://merlcenter.org</u>



MERL Center