**Evaluation Plan (Template)**

Projects selected must comply with regular (quarterly and annual) progress reporting throughout the duration of the project. Metrics will resemble the goals of the DHDP as an initiative that values:

* sharing of data for advancements to scientific research;
* digital innovation of the Platform and integrated tools;
* return on investment from cross-sector collaborations;
* economic benefits including the creation of jobs, co-ops, and businesses; and
* generation of IP and commercialized product

Due to the diversity of applications, teams are asked to detail the unique measures of success for the proposed project and its use case(s).

# **What is the project goal in one sentence?**

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| --- |
|  |

# **Logic Model**

Outline a brief logic model to map inputs to outcomes to overall impact. Examples to focus on: social impact, economic, IP benefits, etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Inputs** | **Activities** | **Outputs** | **Outcomes** | **Impact** |
| Key resources needed (e.g., expertise, data) | Core actions your project will carry out (e.g., data mapping) | Immediate, tangible results of activities  (e.g., OMOP-structured data) | Short- to mid-term changes or benefits (e.g., federated data sharing) | Long-term, meaningful change  (e.g., scalable data) |

# **Key Metrics Defined**

Define at least 4 core metrics that will be used to measure project success. Examples may include:

* Machine learning performance metrics (e.g., accuracy, F1 score)
* Federated learning metrics (e.g., X-nodes federated, model convergence rate)
* Data workflows (e.g., % data volume mapped or processed, data latency)
* Data quality indicators (e.g., % data completeness, accuracy, validity)

|  |  |  |
| --- | --- | --- |
| **Metric** | **How metric is defined or calculated** | **How the metric measures success** |
| E.g. Accuracy | Accuracy = (TP+TN) / Total  TP – True Positive  TN – True Negative | Measures ML model performance and improvements overtime. |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Insert more rows as needed.

# **Key Metrics Baseline**

Please provide the baseline values for the specified metrics to the best of your ability:

|  |  |
| --- | --- |
| **Metric** | **Baseline** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Insert more rows as needed.

# **Evaluation Plan Narrative**

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| --- |
| **Outcomes/Impact** |

Write a brief narrative about how your project contributes to research, development, innovation, and sustainability.

Consider:

* What are the expected outcomes and resulting impact of the project on the mission of DHDP? Who will be impacted?
* How will the project team utilize the DHDP Platform to drive innovative science, technological advancements, and promote sustainability?
  + Describe how outcomes and project advancements/technology maturation will flow into DHDP infrastructure for broader reuse.
* Overall, how will the project team utilize the DHDP Platform to drive DHDP goals forward (listed at the top of this document)?

# **Reflection**

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| --- |
| **Responsible and Ethical Use of Data** |

Describe how your project team has considered responsibility to individuals, society and equity (or to SHIFT principles) in relation to the proposed project.

[AI Trust & Safety Principles - Vector Institute for Artificial Intelligence](https://vectorinstitute.ai/ai-trust-and-safety-principles/)

SHIFT: Sustainability, Human centeredness, Inclusiveness, Fairness, and Transparency: <https://www.sciencedirect.com/science/article/pii/S0277953622000855>