**Metrics to Understand and Evaluate Community Engaged Research and Scholarship**

***Measures***

* ***Number of Inputs, Outputs, and Processes,*** such as funding sources, partnership documents, newspaper articles, conference presentations, and scholarly manuscripts.
* ***Scored Assessment of Inputs, Outputs, and Processes,*** such as diversity of partners, variation in outputs, and distribution of responsibilities.
* ***Assessment of Alignment*** between research team and partners on topics such as goals, outcomes, and outputs. Research team completes a Likert survey and partners complete a Likert survey. Using Bayesian updating, the research team’s scores are modified by the partners’ scores.
* ***Potential Ripple Influence*** using social network theory to map how many people may be impacted by the work across three degrees of separation.

***Questions to be Answered***

* How can we collect data from research teams and community partners?
* How can we make the measures scalable and comparable?
* How can we visualize the measures effectively and efficiently?
* How can we make use of existing Collaboratory data to approximate some of these measures?

***Visualization Ideas:***

* For Number and Assessment of Inputs, Outputs, and Processes, a [Solar Correlation Map](https://www.oreilly.com/content/a-new-visualization-to-beautifully-explore-correlations/) with the orbit representing the Assessment Score and the size of the node representing the Number.

A diagram of a diagram of the same type of diagram

Description automatically generated with medium confidence

* For Alignment, either a Rose Chart or a Spiral Plot, or maybe even another Solar Correlation Map with the orbit representing alignment and the size of the node representing difference between scores.

 