FUTURE SCIENTIFIC METHODOLOGIES

Virtual Community of Interest Workshop
November 2, 5, 10, 2020

FSM Workshop Structure

- There are 17 brainstorming topics. Each of the 17 topics will be explored from inception to indicators of success and/or failure over the course of six sessions, 2 per day.
- The topics and subtopics have been determined by three inputs: The papers that were solicited in the spring, discussions in the core group and finally, from soliciting input on the survey.
- The topical areas are intended to be broad and to lack specificity--to allow more specific ideas to emerge from the discussions. There will likely be more excellent ideas generated than we will be able to follow to conclusion--however, we should attempt to capture all of those ideas.
- Scope: far fetched ideas are definitely in scope. Long range Implications of our current moment are in scope. Some particular tool or technology that is of the moment is definitely out of scope.
- The roughly 150 attendees will break into groups of between 6-10. We expect the members of the group to be mostly static, but there may be some coming and going due to availability. Each group will have a peer moderator--most of whom are experienced in moderating small group discussions. Moderators are expected to stay with a topic through all six sessions and will provide the continuity. The Core Team members will be participating in the groups. Topics that aren't resonating can be dropped, with new ones added. We expect some process refinements throughout the three days based on comments and observations.
- After much debate, we decided on having you select your session during the meeting by changing your Zoom name.
    - Day 1
        - Identify Technology or methodology
        - Implications or consequences
    - Day 2
        - Identify signposts
        - Assess the plausibility of the signpoints
    - Day 3
        - Identify barriers and roadblocks
        - Evaluation: Keys to success or when to fail
- The details of Day 2 & 3 are subject to change.

- From the survey, in addition to the addition of topics, a number of common points came up
    - Inspiration is finite; budget is not -- let's not worry about
    - Ethics
    - Workforce and redrawing the boundaries of expertise
    - Melding the old and the new
        - The publication model

- How does old flat, poor classified data (which might not be reproducible at all) mesh with new data
  - Intersections: Data and compute and networking; various manifestations of compute; Facility to Facility Different types of scientists with each; scientists with AI,