Charge to Break Out Group #1

As stated in the “Initial Considerations” document and conceptualized in the accompanying slide, what can be done to effectively capture, document, and prepare the information flows associated with each stage of a research project or scholarly work so that it will become part of a global knowledge infrastructure.

Points to consider:

The primary researchers will be disinclined to do this for multiple reasons. Is there a possibility of automating this? If so, would this be most tractable during the individual stages of the research workflow or after the project is complete. What might this entail?

Should there be initiated “meta-research” activities as part of major research projects? The meta-research team would study the research as it progresses in order to compile a complete record of the processes, resources used and activities undertaken.

Is this already being done to a certain degree in some disciplinary areas? What has been the benefit to the larger scholarly communities involved?
A Very General Scholarly Research and Study Workflow Model

Information flows into and out of the project at each stage.

Activity:
- inspiration, explore, discover area of interest
- formulate problem, design research (study)
- conduct research, analyze results
- prepare findings, disseminate results
- prepare and deliver resources for reuse

Data:
- are discovered, referenced, accessed, gathered, transformed, analyzed, presented, prepared for reuse

Researchers or other actors collect and prepare all artifacts for future repurposing and reuse by others [event tracing, versioning, logs, data documentation, intermediate steps, concept changes].

Journals, conferences, repositories, lectures, data infrastructures, archives, libraries.