Ethnographic film	Scientific Visualizations	Educational Research Visualizations
Truth Claim: 1. Film is data 2. Traditional of anthropology, providing a window into true meanings of "cultural processes". 3. Essential part of the field report narrative	**Truth Claim:** 1-An "authentic" visualization, often interactive of the important engines of change in a system. 2-Based on Empirical result 3- Drives empirical Questions	**Truth Claims:** 1-An authentic visualization, however the camera and crew are present with the PI and the shooting may order and arrange classroom settings 2- Demonstrates the engines of change in an innovation. 2-Based on empirical results 3- accurate enough to persuade, be used as a warrant. 4-Well suited to the Learning Science research
Goal: 1- _film is data_ -- support of analysis and the field report 2- a window into truthful thick records	**Goal:** 1- See un-seen process due both to size and underlying mechanisms 2-Use empirical results to create persuasive heuristics in complex system	**Goal:** 1-Collapse time 2- Demonstrate the utility of an innovation or change in cognitive work by students 3-Support Dissemination 4-Persuade Policy makers
Actual Use: 1- Archive of change in people, times, cultures 2-Teaching materials 3- Opportunity for re-analysis	**Actual Use:** 1- Increasingly important to modern science 2-Science is now a empirical results, theory, and computation model (Sabelli)	**Actual Use:** 1- Project reports complimenting web & written **2-Dramatically increase dissemination – My Main Research Question**
Creation of Language Has not created a new complex language of media, Rather new forms, e.g. Cinema Verite. Uses critical theory, and film theory language. **Sergei** Mikhailovich **Eisenstein** said most of what is important 100 years ago	**Creation of Language** 1-Each science domain uses very different forms of visualization. 2-Some forms of visualization are difficult for new learners 3-Common forms between domains are limited.	**Change in the Narrative form** More of a process narrative, e.g. Sci Vi, and less of a story telling narrative with an emotional arc as in Ethnographic Film.