

1125-J1-608

William P Fox* (wpfox@nps.edu), Department of Defense Analysis, Naval Postgraduate School, Monterey, CA 93943. *Mathematical Modeling of a Decision Planning Tool*. Preliminary report.

Ever been presented with a requirement for a decision –planning model to test plans prior to implementing. Here we present a model based upon a joint staff requirement for a planning tool that addresses redline issues. The draft model designed uses logistics regression and a logistics surface in 3 dimensions to address planning. Historical data and survey data is used to build the model. Additionally, TOPSIS and decision weights are used to obtain useful data in lieu of names of alternatives. After the model is build a predictive tool is developed where “real time” data is put into the model and the probability of a redline is calculated. It is up to the user to define the redline probability within the MS-Excel tool. (Received September 07, 2016)