[Investigation of SVS/EVS display features - Experiment condition definition]

Amy Alexander provided examples of SVS/EVS displays. These were helpful in terms of identifying major display features.

We need the following information from NASA (Kaber to secure between 12/11-1/10):

(1) Need detailed images of SVS/EVS PFD. (What types of terrain imagery is NASA currently using?)
(2) Need detailed images of SVS/EVS ND. (What types of terrain imagery is NASA currently using?)
(3) Does SVS/EVS HUD and PFD present different information or are displays completely redundant?
(4) Need examples of terrain images as part of SVS/EVS (modes) of PFD, ND and HUD (displays).
(5) Need examples of tunnel guidance images as part of SVS/EVS (modes) of PFD, ND and HUD (displays).
(6) Need examples of TCAS images as part of SVS/EVS (modes) of PFD, ND and HUD (displays).
(7) Need examples of DAG-TM images as part of SVS/EVS (modes) of PFD, ND and HUD (displays).
(8) Can SVS/EVS HUD present ND information/content?
(9) Need to identify critical display features for PFD on initial approach, final approach, landing. (What can not be turned "off" in each phase?)
(10) Need to identify critical display features for ND on initial approach, final approach, landing. (What can not be turned "off" in each phase?)
(11) Need to identify critical display features for HUD on initial approach, final approach, landing. (What can not be turned "off" in each phase?)

[Experiment prototype development]
Sang-Hwan developed some example prototypes of the EVS and SVS HUDs.

(1) In presentation of prototypes, use "full featured" vs. "full clutter"
(2) Change "enhanced" only to EVS
(3) Change "synthetic" to SVS

(Make changes ASAP)

In analysis of HUD features, we need to group display features according to information type/function and criticality for phase of flight instead of local display area. (Kim to do functional grouping (1/10). Cowley is to identify criticality of features (1/10)).

After January team meeting, Kim and Cowley should have necessary data to develop prototype displays for first study.

[Semantic pairs analysis]

We need to extend our analysis of the semantic pairs of clutter descriptor terms. Aptima provide a list of select pairs and major issues with the entire population of pairs. Hsiang conducted a semantic analysis of the pairs of terms.

(1) Compare the list of pairs selected by Aptima with semantic analysis results from Hsiang. (12/8-10)
(2) Compare major issues on semantic pairs of terms (presented by Aptima) with semantic analysis by Hsiang. (12/8-10)

We want to identify a reduced set of pairs with a high degree of orthogonality among the pairs.

[1st study procedures and interview forms]
Kaber and Hsiang will identify IVs and DVs for first study and develop experimental design. (1/10)

Aptima to create subjective survey forms for study. (1/10)