System matrices(SM): A,B,H,Q,R
System setup (SS): x0, uts, ts
measurements (zt): The value observed over time by the sensor, this could come from simulation or real-world data
prediction (Pre): predicted states
estimation (Est): estimated states
Sigma (Sig): states likelihood
A: system transfer matrix
B: input matrix
H: observation matrix
Q: covariance of the process noise
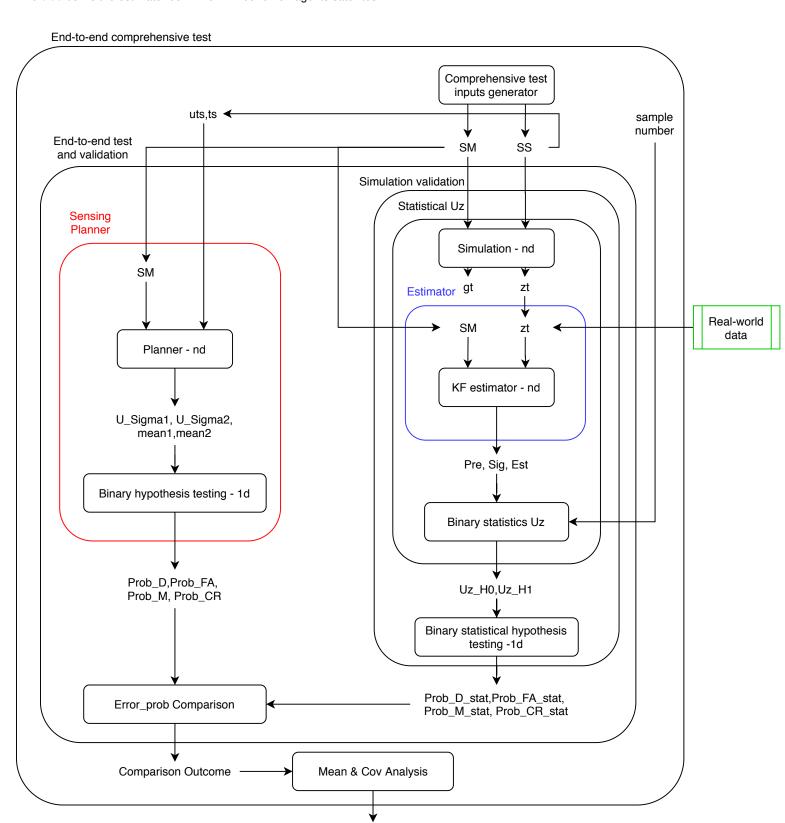R: covariance of the measurement noise
uts: different input sequence
ts: corresponding time step for different input
x0: initial state
ground_truth (gt): ground truth data over time
The red box is what will be embedded in other groups
The blue box is the estimator box which will be run on agents\satellites