



Energy Transfer & Virtual Crumple Zone

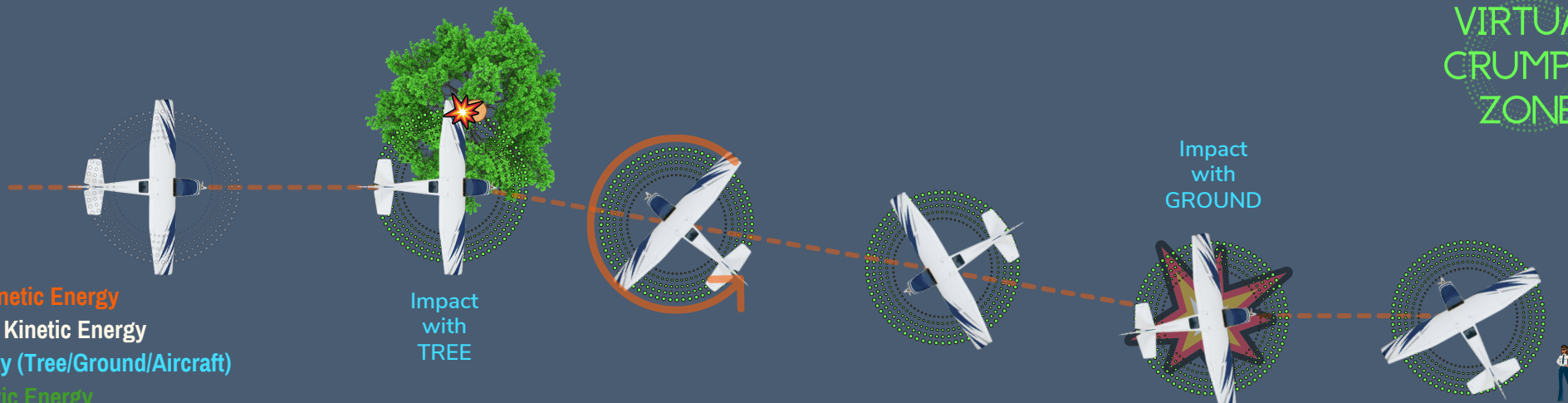
(incorporating the PINWHEEL EFFECT)

V3.4



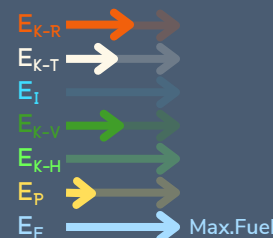
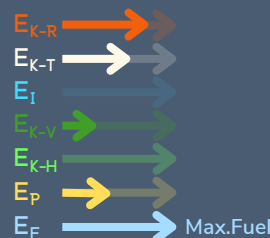
VIRTUAL
CRUMPLE
ZONE

VIRTUAL
CRUMPLE
ZONE

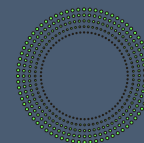
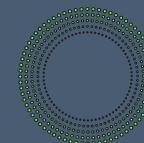
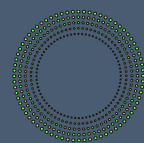
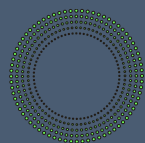
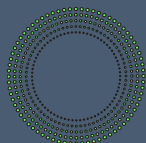


E_{K-R} = Rotational Kinetic Energy
 E_{K-T} = Translational Kinetic Energy
 E_I = Impact Energy (Tree/Ground/Aircraft)
 E_{K-V} = Vertical Kinetic Energy
 E_{K-H} = Horizontal Kinetic Energy
 E_P = Potential Energy
 E_F = Fuel (Energy)

ENERGY
TRANSFER



VIRTUAL
CRUMPLE
ZONE



G-FORCE
 (ESTIMATED)



10
 < 200ms



5 15
 < 300ms



AV8TOR SAFETY
PUTTING PILOT SAFETY FIRST