

Q: how do we absorb eventual lateral impacts?

blunt end more efficient

different material, rubbish, collapses under concentrated force but keeps aerodynamic shape in flight

play dough

room for play dough to expand

carefully chooses shock-absorbing rubber/styrom

permanent connection

deformable "soft" shock absorbing material for dampening launch and decoupling stresses

PVC outer shell with liquid + sponge inside, leave a bubble air to allow for some sponges → egg deformation (less pressure on the inside liquids, prevents cavitation)

egg can move in the tunnel only subjected to friction force inducing a primary, "soft" deceleration before impact

Design the tunnel such that egg reaches distance  $x$  after parachute deployment and gets to the end under final impact

# Egg recovery system concept