

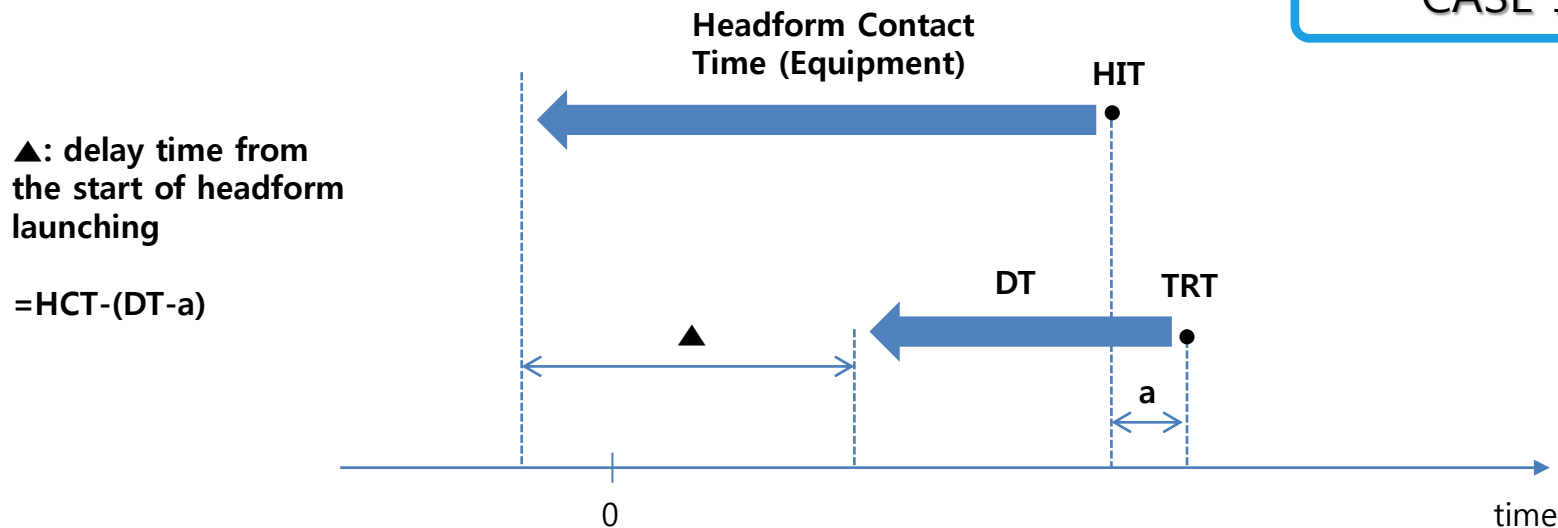
# Dynamic Headform Test for Deployable Hood (Synchronization)

**4th DPPS TF meeting, 2017.11.21~23**

**Ministry of Land, Infrastructure and Transport  
Korea Transportation Safety Authority,  
Korea Automobile Testing & Research Institute**

# Dynamic Headform Test for Deployable Hood (Synchronization)

CASE 1



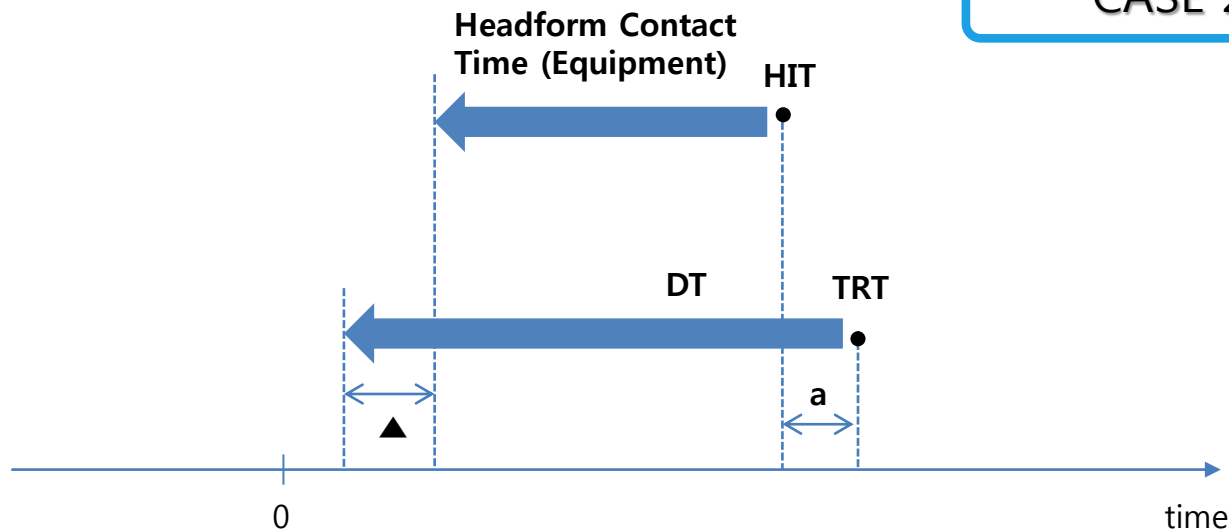
- Activate actuators of the deployable hood in ▲ delay time
- HCT(Headform Contact Time)
  - the time from the launching start to headform contact on hood
  - depending on the test equipment and free flight distance (9.7 m/s)
- HIT: provided by manufacturers
- TRT & DT: measured from the verification test
- Delay time application: either the test equipment or separate device

# Dynamic Headform Test for Deployable Hood (Synchronization)

CASE 2

▲: delay time from the start of deployable hood actuators' activation

$$=DT-(HCT+a)$$



- Launch headform in ▲ delay time after activating actuators of the deployable hood
- HCT, HIT, TRT and DT : same concept as CASE 1
- Further discussion needs for other DPPS such as pedestrian airbag - may consider the same concept