"Småfolk" – Rear Seat Safety







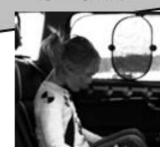


Transportation





Potential evasive event



Crash







Child safety = Real children in cars







Leaning forward for visibility, communication or activities

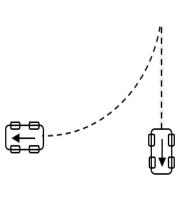


Slouching for comfort



What happens during an evasive event?







Evasive steering

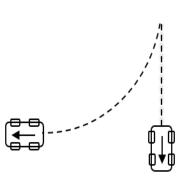
Evasive braking





What happens during an evasive event?

















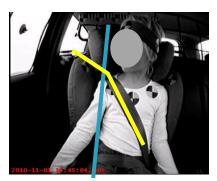


A seat back might keep the shoulder belt on the shoulder during an evasive event – but is that enough during a crash?

Evasive steering



Booster cushion



Booster seat

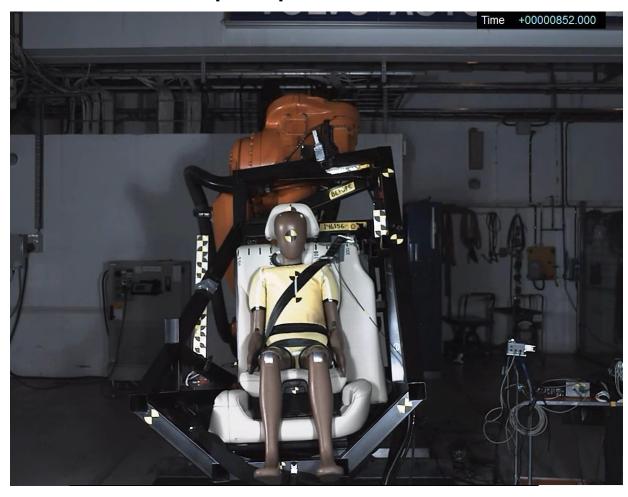


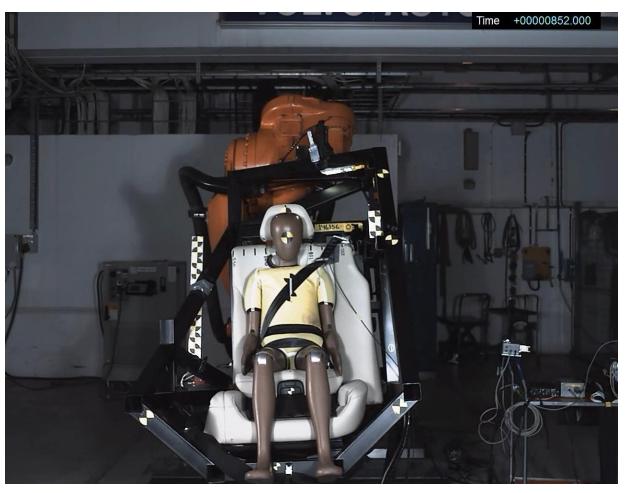


Simulating a vehicle drifting into a ditch.

No pre-pretensioner







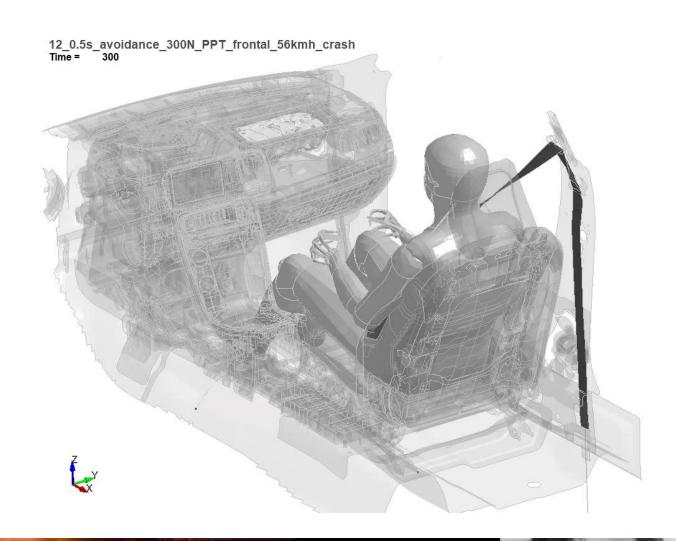




SAFER Human Body Model (HBM) v 9.0

- Released in January 2018

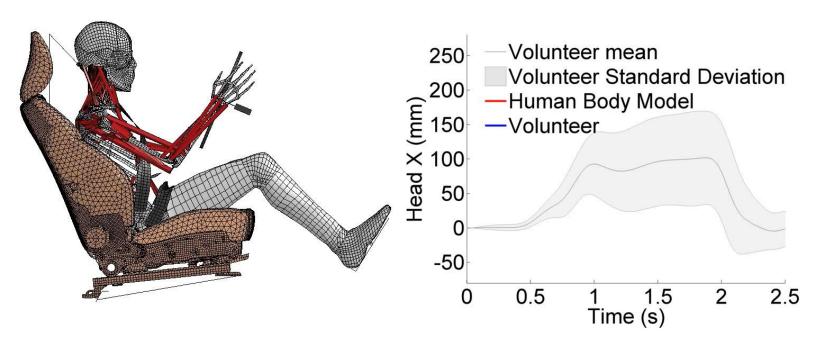
First of its kind to seamlessly simulate the occupant movement during a turn or brake maneuver AND injury prediction in a subsequent crash



SAFER Active Human Body Model (A-HBM)

Simulating braking event











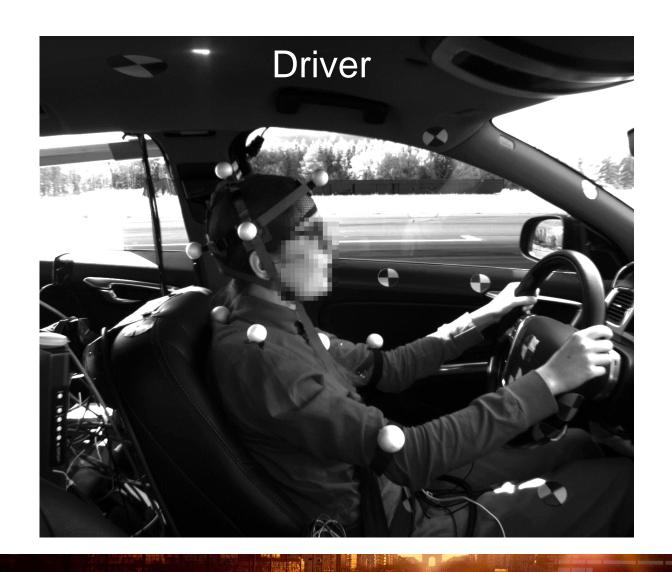


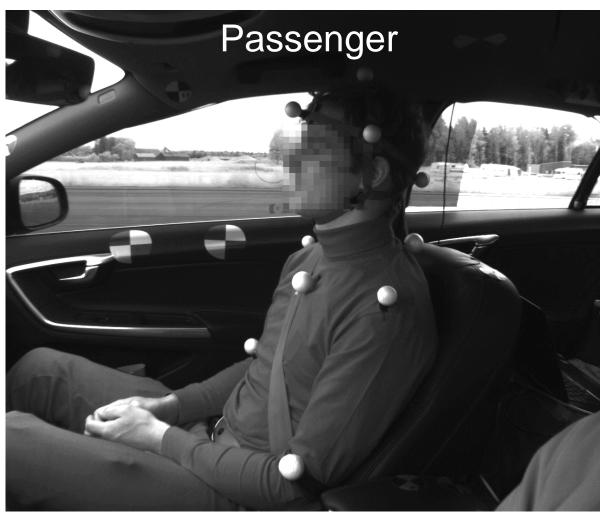






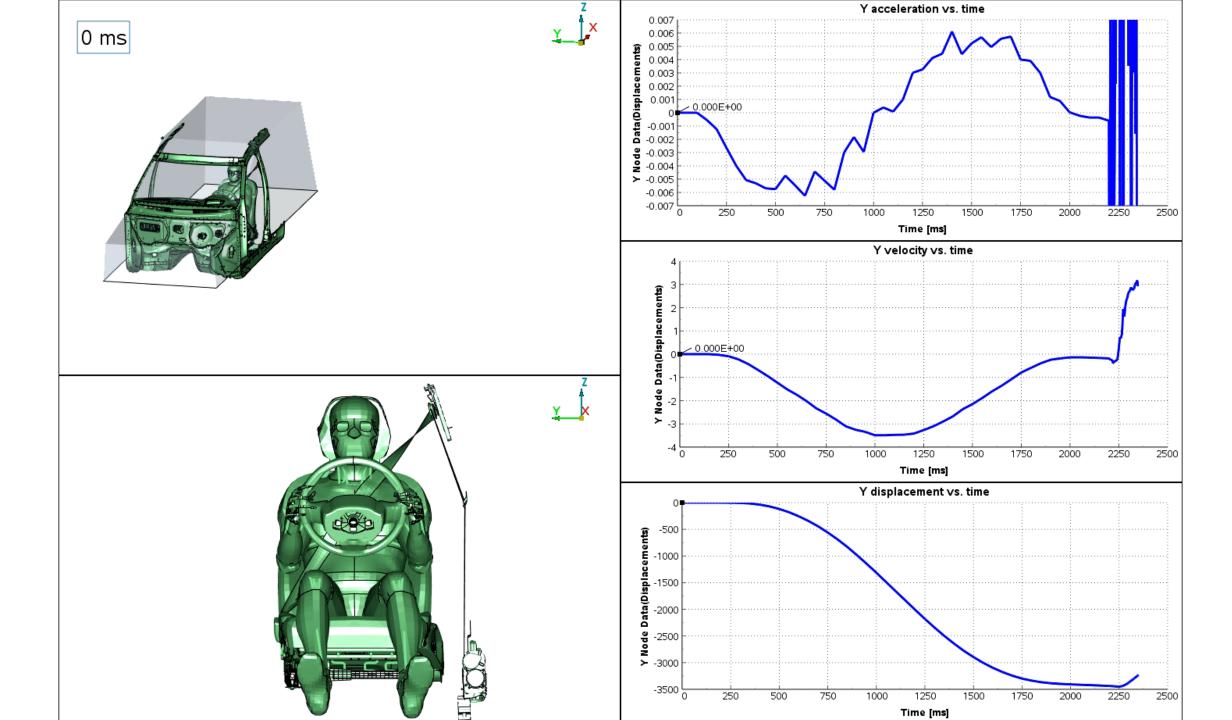
Volunteer tests for validation of A-HBM











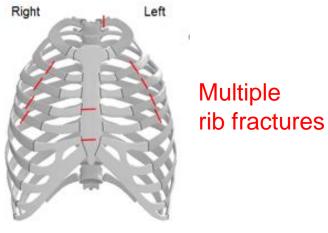
Simulating real-world scenarios – creating injury criteria





Driver in V70 gen I



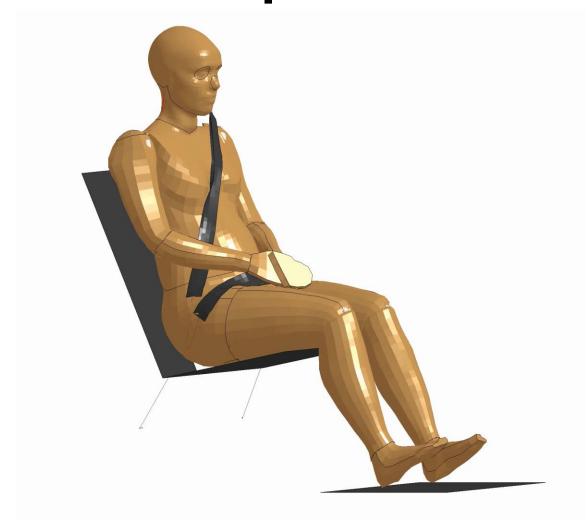


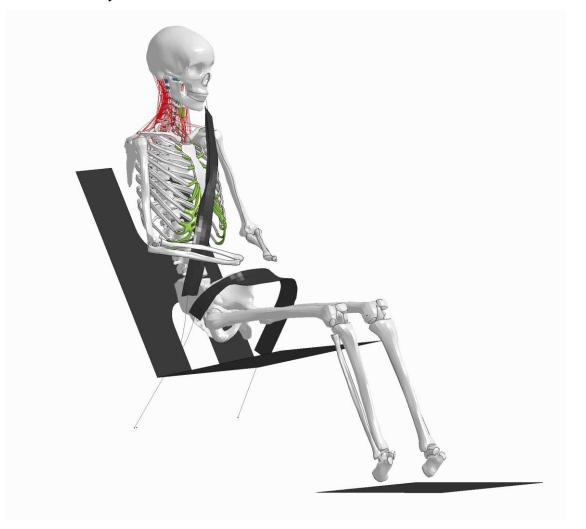
Driver in V70 gen I





ViVA – Open source model, mid-sized female

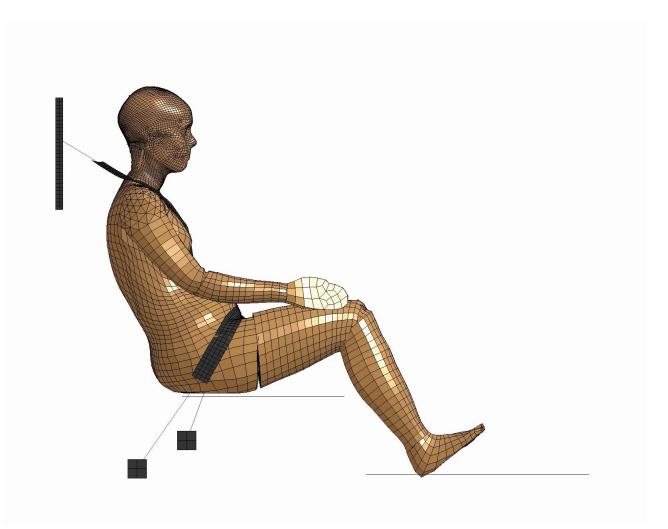


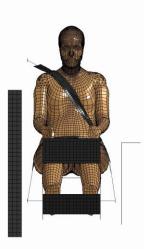






ViVA – Open source model, mid-sized female









ViVA - Isolated Head-Neck Simulations

