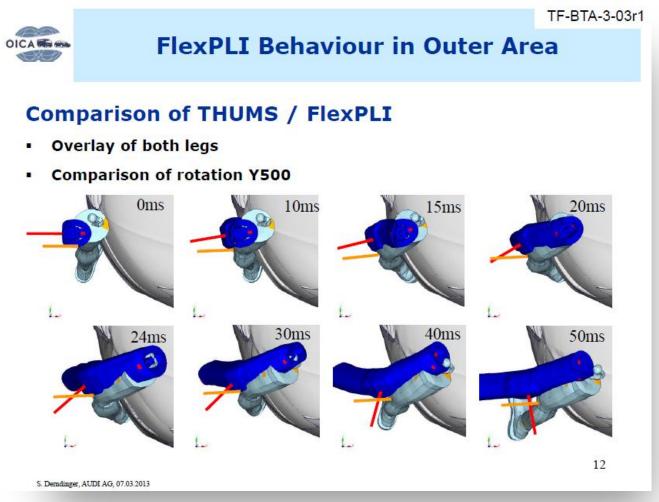


TF-BTA-7-06

IG GTR9-PH2 TF-BTA Issues of FlexPLI Impact Against Angled Surface

7th TF-BTA Meeting 29/August/2014 Japan Automobile Standards Internationalization Center (JASIC)

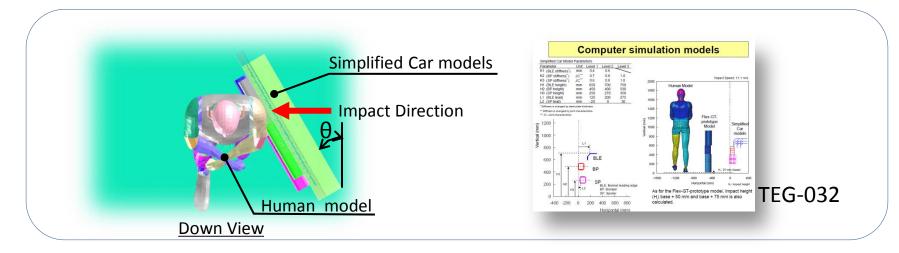
Difference in Kinematics bet. FlexPLI and Human



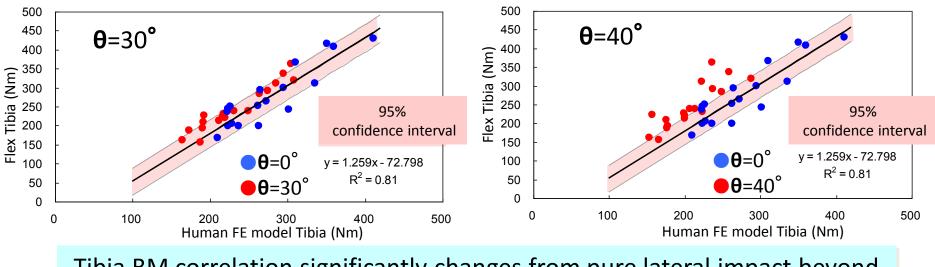
It has already been clearly shown at the 3rd TF-BTA meeting that the kinematics differ significantly between the FlexPLI and a human body in an impact against an angled surface primarily due to rotation in the longitudinal axis of the leg

Difference in Tibia Moment Correlation

Angled Impact Simulation against Simplified Vehicle Models



Tibia BM Correlation bet. FlexPLI and Human Model

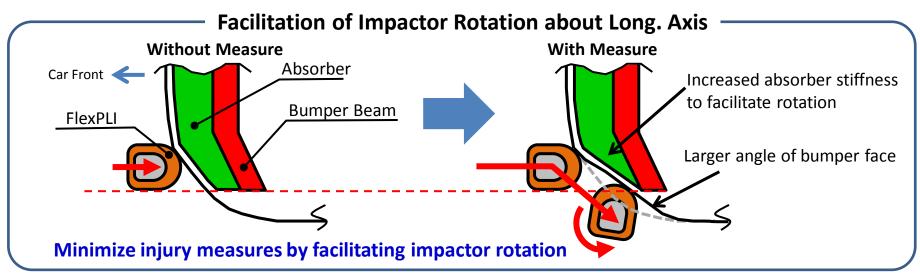


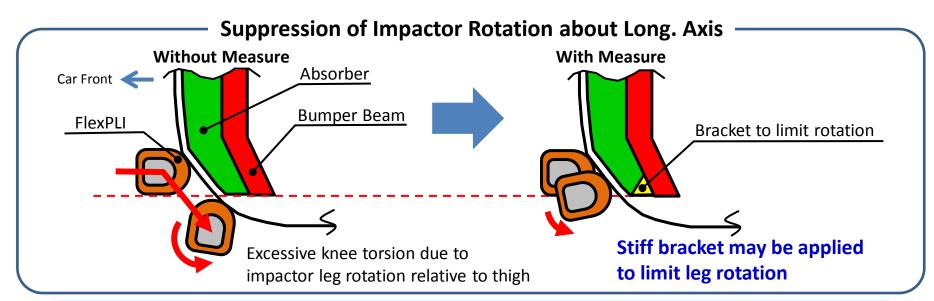
Tibia BM correlation significantly changes from pure lateral impact beyond 30 degrees of the impact angle

TF-BTA-7-06

Potential Issues in Angled Impact

Specific Measures for Legform Potentially Injurious to Actual Human





Application of measures injurious to a human body may be facilitated

Summary

TF-BTA-7-06

- The bumper beam proposal requires further technical investigations on the issues, such as the difference in the kinematics and the injury measure correlations between the FlexPLI and a human body, which will take significantly long time.
- JASIC supports the EC proposal due to the lack of the issues mentioned above by the use of 30 degrees criterion.