Informal Group on GTR9 Phase2 (IG GTR9-PH2) 6th Meeting – Validation of Flex-GTR model -

March 12, 2013 Japan Automobile Standards Internationalization Center (JASIC)

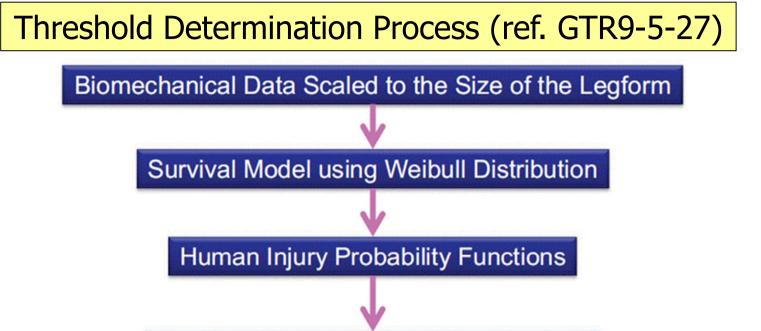
Outline

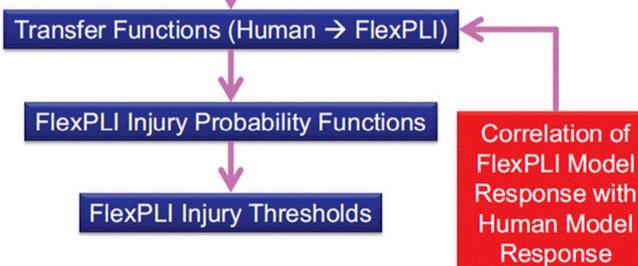
Background
Validation matrix

1. Background

- At the 5th IG GTR9-PH2 meeting, BASt proposed to revise the current "Flex-GTR injury threshold values" because of the difference between the output values of "Flex-GTR-prototype" and "Flex-GTR master legs" under dynamic certification test conditions as well as car test conditions (see details: GTR9-5-20).
- However, the current "Flex-GTR injury threshold values" were obtained by converting "Human injury threshold values" into "Flex-GTR injury threshold values" using "transfer functions" which were obtained from the relationships between the output values of "Human model" and "Flex-GTR model" (see details: GTR9-5-27). Therefore, the output values of "Flex-GTR-prototype " were not used to determine "Flex-GTR injury threshold values".
- On the other hand, the output values of "Flex-GTR model" were used to determine "Flex-GTR injury threshold values", therefore, we decided to validate the "Flex-GTR model" against the latest certification test methods/corridors which were set by using the output values of "Flex-GTR master legs", to clarify whether or not the revision of the threshold values is necessary.

1. Background, contd.

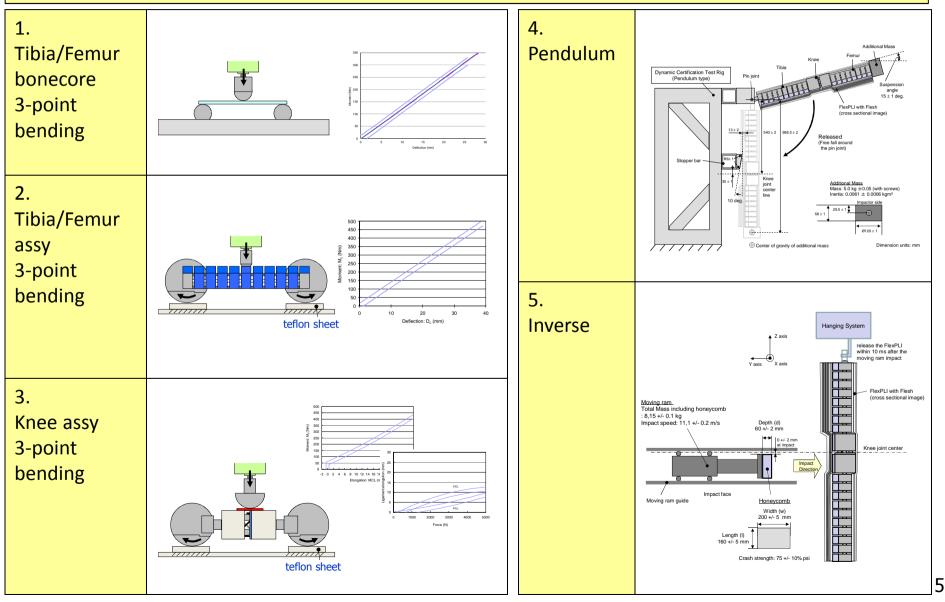




All the details provided in GTR9-1-06r1

2. Validation matrix

• We are conducting "Flex-GTR model" validation using following validation matrix.



2. Validation matrix, contd.

- We propose NOT to include "Flex-GTR model" validation against car test into the validation matrix because:
 - A "car model" validity also affects the validation results. (can NOT conduct a pure validation of "Flex-GTR model")
 - To obtain car test data using "Flex-GTR master leg", we need to get one of the "Flex-GTR master legs" back to Japan which are currently used in Europe and USA. That will affect the progress of the Europe and/or USA round robin test or other activities (i.e. activities such as testing or in-depth drawing check may need to be suspended)

Thank you for your attention