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# Update on the WorldSID injury risk curves

on behalf of ISO/WG6 and ACEA-TFD

GRSP WorldSID Informal Group

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Washington DC

# WorldSID 50th injury risk curves

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## ➤ Currently available:

➤ Injury risk curves as functions of all the commonly used measurements. These IRC are specifically dedicated to the WorldSID 50th, based on the methodology developed and agreed upon in the ISO/TR12350

## ➤ Remaining to be done:

➤ The **recommandation** of a set of injury risk curves dedicated to the WorldSID 50th among those available including the recommandation of :

➤ the AIS level

➤ the best dummy measurements appropriate to predict the risk of injury

# WorldSID 50th injury risk curves

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## ➤ What:

- Recommended guidelines to build injury risk curves are under finalization at ISO/WG6
- They were evaluated using the WorldSID 50th samples
- Minor changes were proposed and discussed during the ISO/WG6 face-to-face meeting on May 27th in Paris.
- An **agreement** on the final version **MUST** be reached among ISO/WG6 experts before the recommendation is made

## ➤ When:

- A webex will be set up early in september to present the **results of the evaluation of the guidelines** updated with the proposals from ISO/WG6
- A **final version of the guidelines** is expected for the next face-to-face ISO/WG6 meeting (november 2011)

# WorldSID 5th injury risk curves

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- The **scaling of the test conditions** used to build the injury risk curves is the **main current task**
- **Progress** have been made during the first three **webex**
  - Experts from car industry, universities, international institutions... participated
  - Next webex scheduled on June 20th
- **TRL** will perform some work on **the effects of the different normalization** possibilities in the framework of a european project. The results will be shared with ISO.

# WorldSID 5th injury risk curves

- A **consensus** on the scaled test conditions (in particular the loading surface geometries) **MUST** be reached **before** the beginning of the dummy evaluation tests
- The only **test matrix** known to include some test conditions used in the construction of the injury risk curves is the **NHTSA's** for
  - the impactor (summer 2011)
  - the sled (winter 2011)
- The **construction of the injury risk curves** dedicated to the WorldSID 5th will start when the test results will be available
  - The tests will be checked
  - The scaled dummy responses will be paired with PMHS injuries
  - The injury risk curves will be built using the guidelines proposed by ISO/WG6