

# WLTP 6<sup>th</sup> DHC Meeting

GRPE/WLTP-IG/ DHC subgroup

11~12 January 2011

Palais des Nations, Geneva

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# 1. Current Status

## 1. In-use Data Collection

|       | In-use Data                                       | Traffic Statistical Information |
|-------|---|---------------------------------|
| China |   |                                 |
| EU    | Completed<br>(on going for more data acquisition) | ←                               |
| India | On going (expected to<br>complete by Jan. 2011)   | ←                               |
| Japan | Completed   | Completed                       |
| Korea | Completed   | Completed                       |
| USA   | Completed   | Completed                       |

2. Methodology → please refer to WLTP-DHC-06-03e

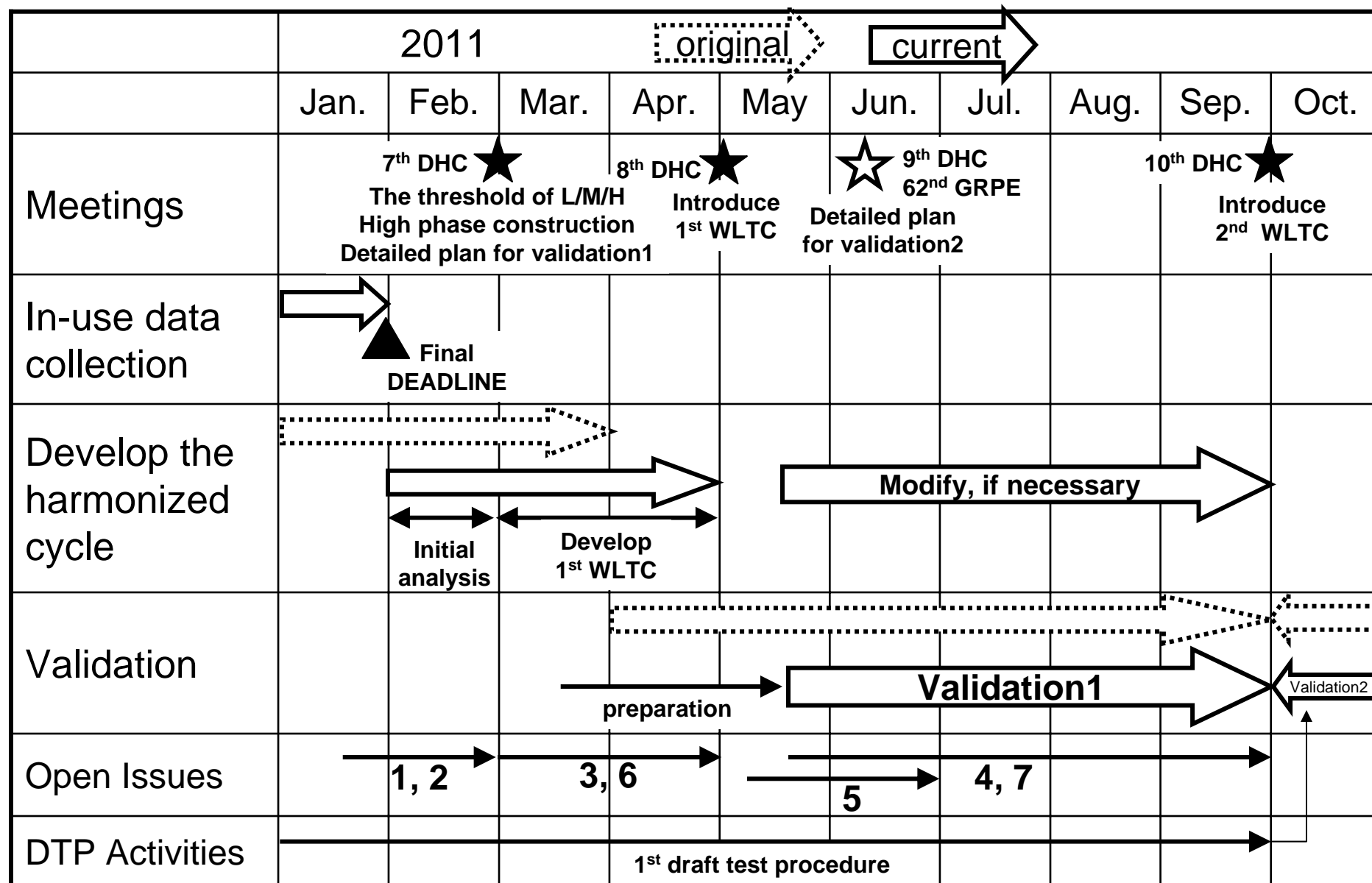
## 2. Open Issues -1

|   | Issues   | Discussion points   | Proposed Actions   |
|---|--|---|--|
| 1 | Regional Weighting when developing the WLTC                | a) traffic volume<br>b) same weighting                                | Wait for initial analysis, then make a decision during 7 <sup>th</sup> DHC meeting                         |
| 2 | Threshold Speed for L/M/H                                  | a) according to DHC-06-03<br>b) CP's requirement                      |  |
| 3 | High Phase Cycle Construction (US&EU versus other regions) | a) only ONE unified cycle<br>b) possess TWO types of High phase cycle | Wait for initial analysis, then further discussion is necessary before developing the 1 <sup>st</sup> WLTC |
| 4 | Mode Construction  | a) cold start test only<br>b) cold start & hot soak start             | After developing the 1 <sup>st</sup> WLTC, further analysis is necessary during the validation 1           |

## 2. Open Issues -2

|   | Issues  | Discussion points  | Proposed Actions  |
|---|---|--|---|
| 5 | Unique Weighting Factor for L/M/H Phase                                     | a) harmonized weighting factors<br>b) permit regional weighting factors                        | After developing the 1 <sup>st</sup> WLTC, check the representativeness for each region.                  |
| 6 | Gear Shift Points   | a) fixed points<br>b) based on vehicle specification<br>c) others                              | JARI, JRC and Mr. Steven work together to finalize the method before developing the 1 <sup>st</sup> WLTC. |
| 7 | How to treat the vehicles which are not able to follow the prescribed cycle | a) continue to drive with wide-open-throttle<br>b) exempt the H (or M&H) phase(s)<br>c) others | Develop the proposal during validation 1 tests.   |

### 3. Next Actions up to Validation 2



## 4. (ref.) Test Program of Validation 1

WLTP-DHC-06-02e

|  |                           | Test Vehicles * * ) vehicles configurations are based on its "power to mass ratio", "DTC", "compliance emission level" and so on. |    |    |    |  |
|--|---------------------------|---|----|----|----|--|
|  |                           | #1  | #2 | #3 | #4 | Unique technologies<br>(e.g. regeneration system, hybrid, PEV) |
| DRIVEABILITY<br>PRACTICABILITY   | SMOOTH THROTTLE OPERATION |   |    |    |    |  |
|  | APPROPRIATE SHIFT POINT   |   |    |    |    |  |
|  | CLUTCH OFF POINT          | ( MT vehicles only )  |    |    |    |  |
|  | MODE TRACEABILITY         |   |    |    |    |  |
|  | TIRE LOCK, SLIP           |   |    |    |    |  |
| REPEATABILITY **<br>(including different test drivers)<br>** ) emission level, driving energy index, etc |                           |   |    |    |    |  |
| Request from DTP<br>(e.g. additional pollutants, etc)  |                           |   |    |    |    |  |

Japan plans to evaluate the shaded portions. Any voluntary works are welcome and it'd be appreciated if these work plans are informed to secretary by the middle of February. Detailed plan will be introduced during next (7<sup>th</sup>) DHC meeting. (expected to be held late February or early March 2011)