**TC250/SC7/EG11: Characterization**

**(draft) Final Report** **2014**

# Agreed Scope of work

The aim of this project is to provide a user friendly and consistent guidance on determining characteristic values of ground parameters adapted to chapter 2.4.5.2 in EN 1997-1, both the traditional way and with statistics.

The guidance will result in more concise clauses together with three different Annexes containing more detailed information.

The three Annexes consist:

* Guidance how the selection of characteristic values can be made and which method that can be used to derive a characteristic value for geotechnical parameters.
* A simplified statistical method that can handle à-priore and different test quality or uncertainties due to transformation models such as e.g. Atterberg limits, SPT, CPT etc.
* Guidance how to handle table values with general soil and rock parameters and presumed values relating to bearing capacity.

# Decisions/outcomes

Our challenge is to present a procedure to assess the characteristic value that is, simple to understand and use in practice and still fulfills the requirements as defined in the Eurocode.

National table values of soil properties or bearing capacities should not be included in the standard. The standard includes how to use and establish table values.

Outcomes that has a direct connection to EN 1997-1: Annex 1 in junction with Annex MB, Annex HS and Annex LM.

Outcomes that is good to have to understand things: Annex FB, Annex GR

# Which clauses in the current EN 1997-1 and -2 are relevant to your EG's topic of interest?

2.4.5.2 (1)-(12), 7.6.2.2 (7), (8) and (12), 7.6.2.3 (5) and (8), 7.6.3.2 (5), 7.6.3.3 (4) and (6).

The clauses from chapter 7 is not involved in our work, but they are related.

# Which of those clauses should remain unchanged in the next edition of Eurocode 7?

2.4.5.2 (2)P, 6(P), 8 and 9

# Which of those clauses should be deleted from the next edition of Eurocode 7? And why?

2.4.5.2 (3)P. and 2.4.5.2 (5)

The information in clause (3) is too specific to be kept in this chapter, it might belong in chapter 3.3.6. The information in clause (5) is mentioned in clause (6) in a better way.

# Which of those clauses should be changed in the next edition of Eurocode 7? What changes should be made? And why?

2.4.5.2 (1)P, (4)P, (7), (10), (11) and (12)P. The changes are shown in the annex no. 1.

The reason for these changes is that we feel that the guidance now given by the text in the how to establish characteristic values is too ambiguous and sketchy.

# What new clauses should be added on your topic in the next edition of Eurocode 7? And why?

Non, just 3 new annexes. The new annexes will show detailed information to get a better understanding to the clauses.

# Active membership

|  |  |  |
| --- | --- | --- |
| Name | Position\* | Country |
| Lovisa Moritz | Convener | Sweden |
| Giacomo Russo | Secretary | Italy |
| Marcos Arroyo |  | Spain |
| François Baguelin |  | France |
| Mathew Baldwin |  | UK |
| Astri Eggen |  | Norway |
| Jana Frankovska |  | Slovakia |
| Hans Schneider |  | Switzerland |

# Report prepared by:

Lovisa Moritz

2014-06-23