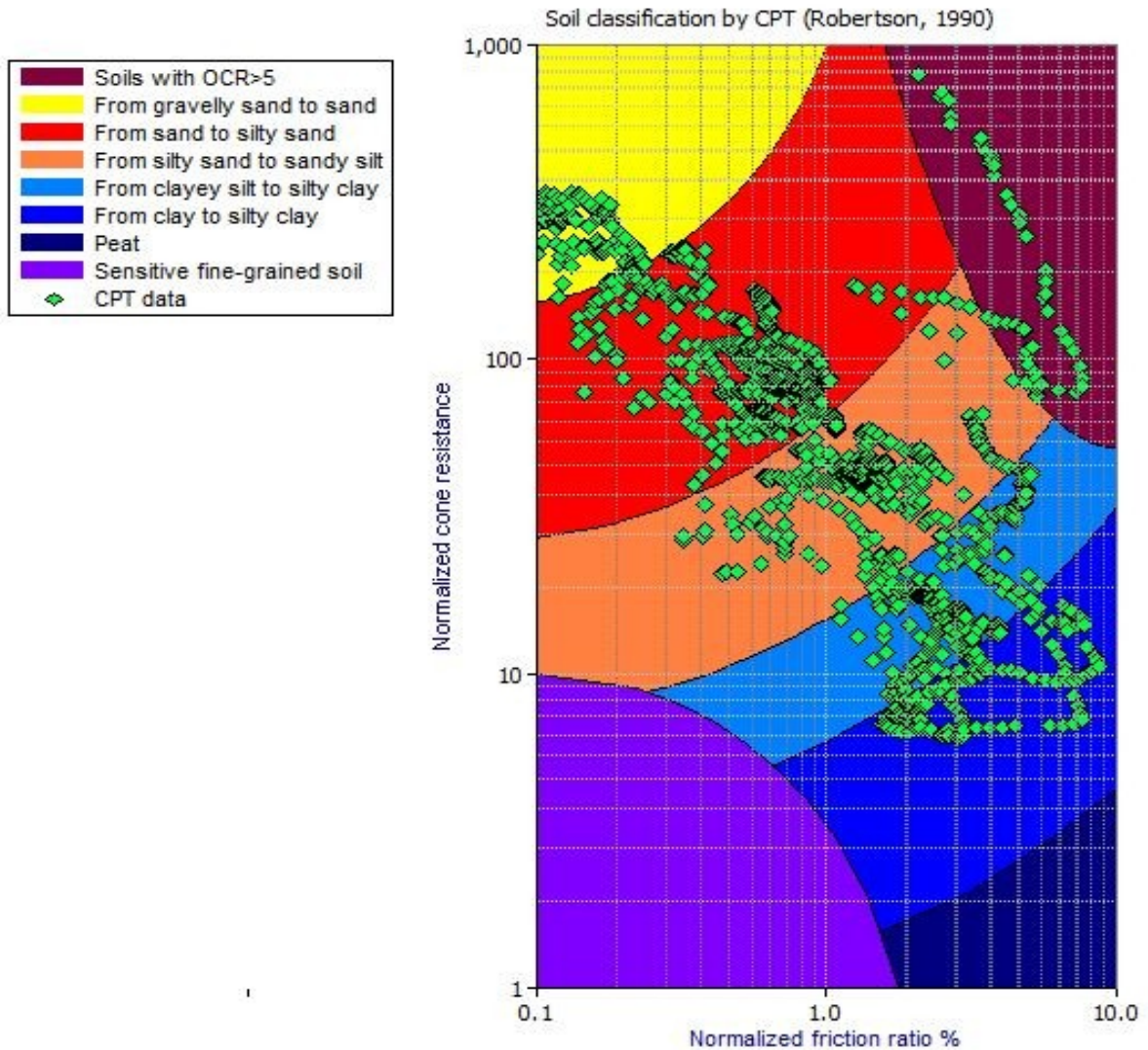


**Liquef ver.3:**

methods for the analysis of the soil liquefaction in seismic condition .

Metodi per l'analisi della liquefazione dei terreni in condizioni sismiche.



**Empirical methods – metodi empirici:**

**Sherif & Ishibashi (1978);**

**Tsuchida (1970);**

**Ishihara (1985);**

**Ambraseys(1991);**

**Papadopoulos & Lefkopulos(1993);**

**Galli (2000);**

**Kayen e Mitchell (1997).**

**Simplified methods (deterministic and probabilistic approaches) – metodi semplificati (approcci deterministico e probabilistico):**

**CSR by – CSR secondo:**

**Seed (1971);**

**Liao & Whitman (1986);**

**Blake (1996);**

**Boulanger & Idriss (2014).**

**CRR by SPT – CRR da SPT:**

**Tokimatsu & Yoshimi (1983);**

**Seed et al. (1985);**

**Youd et al.(2001);**

**Boulanger & Idriss (2014).**

**CRR by CPT CRR da CPT:**

**Robertson & Wride (1997);**

**Boulanger & Idriss (2014).**

**CRR by Vs profile – CRR da profilo Vs:**

**Andrus & Stokoe(1997);**

**Boulanger & Idriss (2004).**

**Assessment of the Index of Liquefaction – Stima del rischio di liquefazione.**

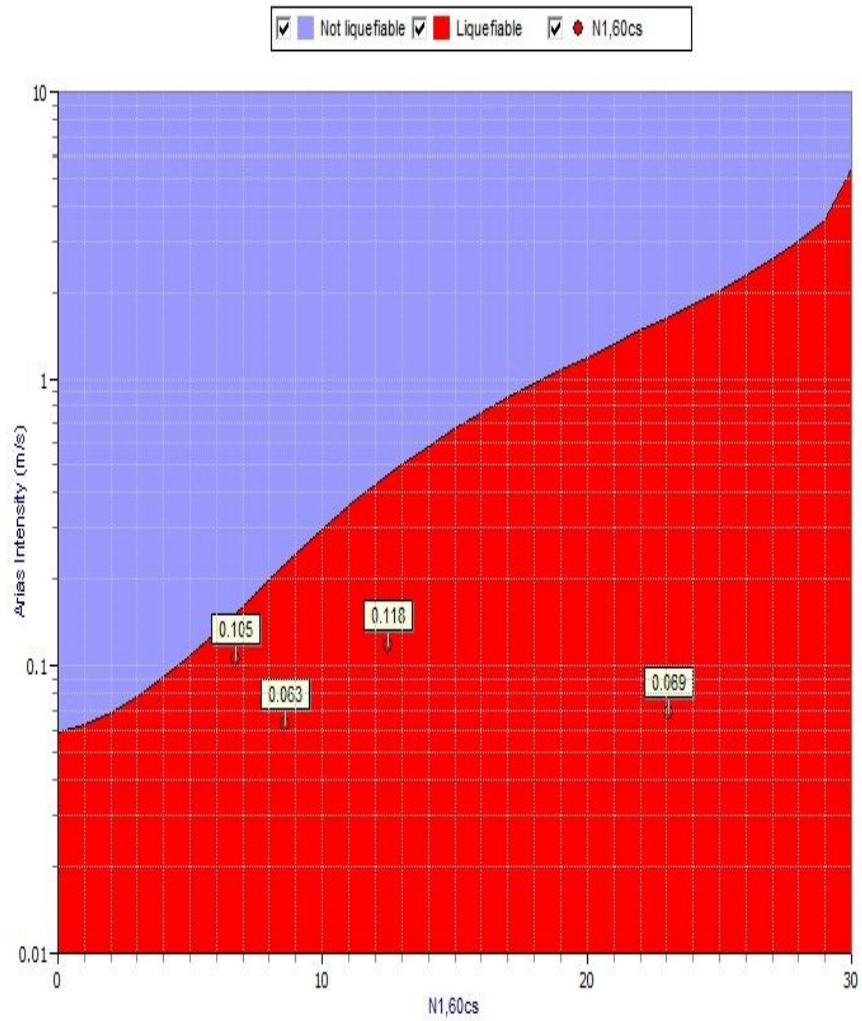
**Improvement techniques of the liquefiable soils – tecniche di miglioramento di terreni liquefacibili:**

**vertical drains;**

**compaction techniques;**

**dreni verticali;**

**tecniche di compattazione.**



Liquefaction by Arias Intensity (Kayen e Mitchell, 1997)

Applicability of compaction techniques (da Massarsch e Heppel, 1991).

