**Forecast settlement of buildings surrounding deep excavations in Vinh city**

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**Abstract.** Vinh City currently has many high-rise buildings with basements built using modern construction methods while construction techniques and instructions have not been fully completed. That leads to during the construction of deep excavations, the adjacent ground will be deformed and may affect the surrounding buildings.

This paper proposes a method to predict the settlement of the surrounding ground when constructing deep excavation.

**Keywords:** Diaphragm wall, lateral displacement, soil model, PLAXIS, deep excavation.