

# GeoRadar Division

## *GPR High Frequency Investigation*

### *Concrete test site*

*Highways Department - Bangkok – Thailand (1/4)*



## GPR High Frequency investigation for detect voids under the concrete pavement (2/4):



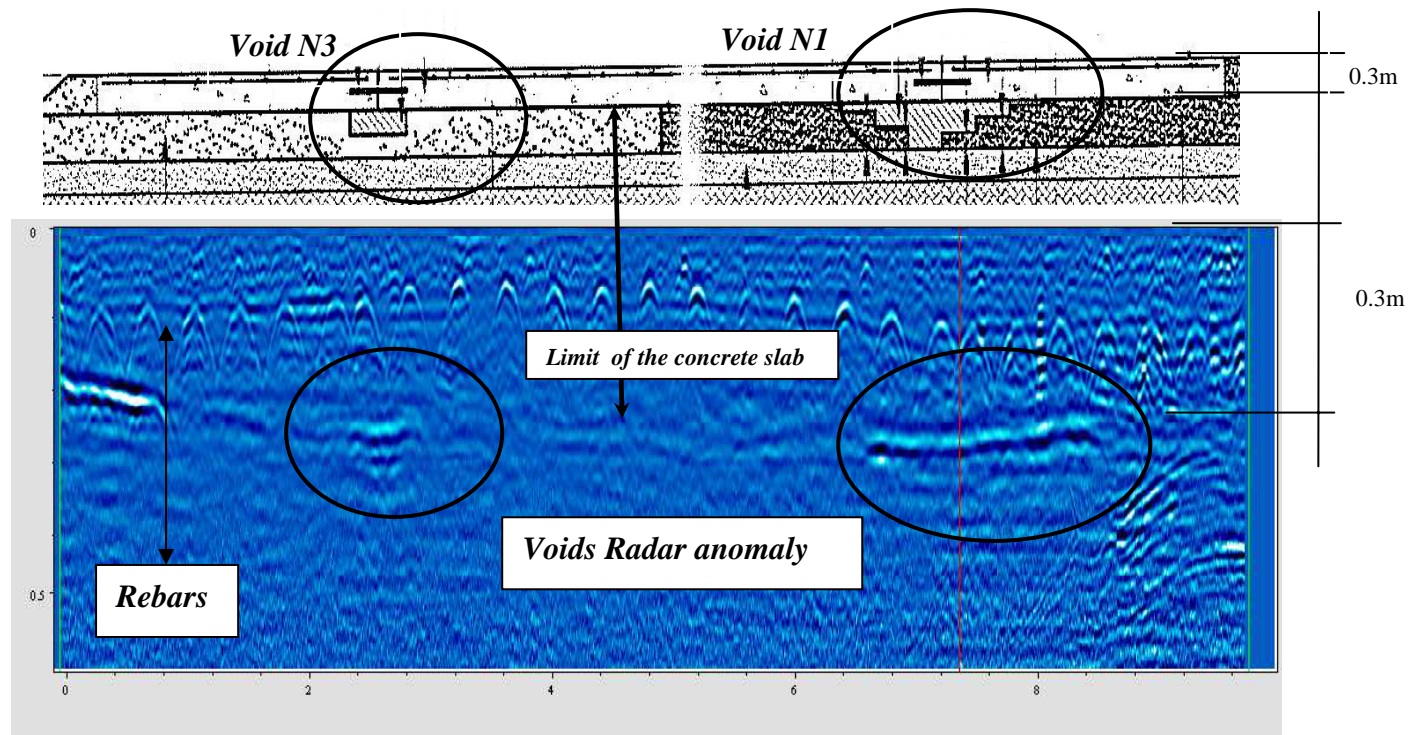
Tests site in the *Asian Institute of Technology*

GPR investigation on the test site of *Highways Department of Bangkok* to evaluate:

- The presence and the position of the void under the concrete slab
- The presence and the position of rebars in the concrete slab

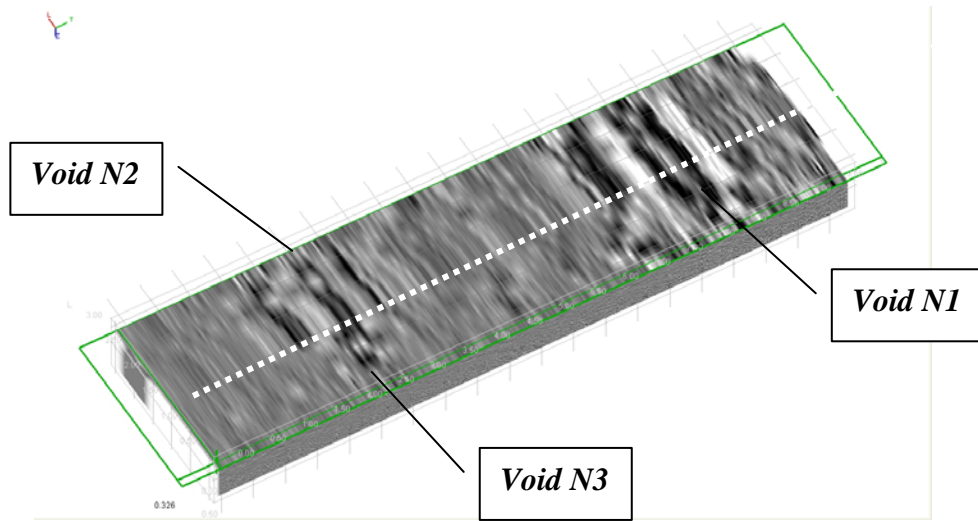
Used Configuration: System 2 GHz antenna

## GPR High Frequency investigation (3/4):



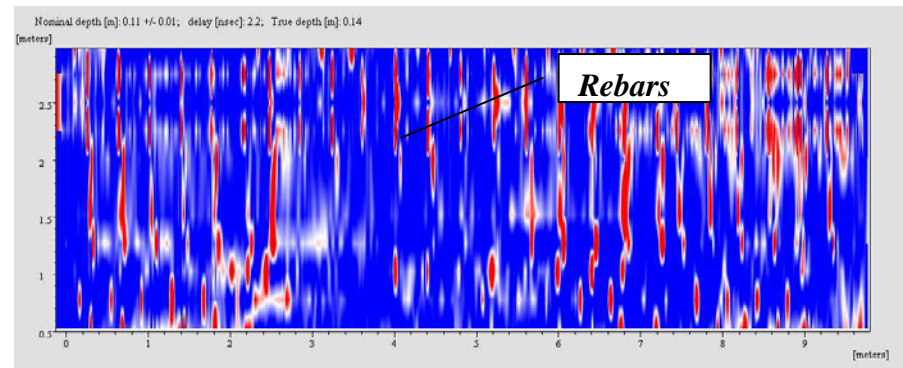
2Ghz radar section compared with the original sketch; the depth of the radar map has been stretched in order to view the void anomaly

# GPR High Frequency investigation (4/4):



3D view of the test site cut at 32cm from the surface it shows three anomalies created by the voids

Time slice, show the anomalies created by still bars located in the concrete slab



# GeoRadar Division

## *GPR High Frequency Investigation*

### *Concrete test AOT*

*Airports of Thailand Public Company (1/4)*



## GPR High Frequency investigation for detect rebar in the concrete slab (2/4):



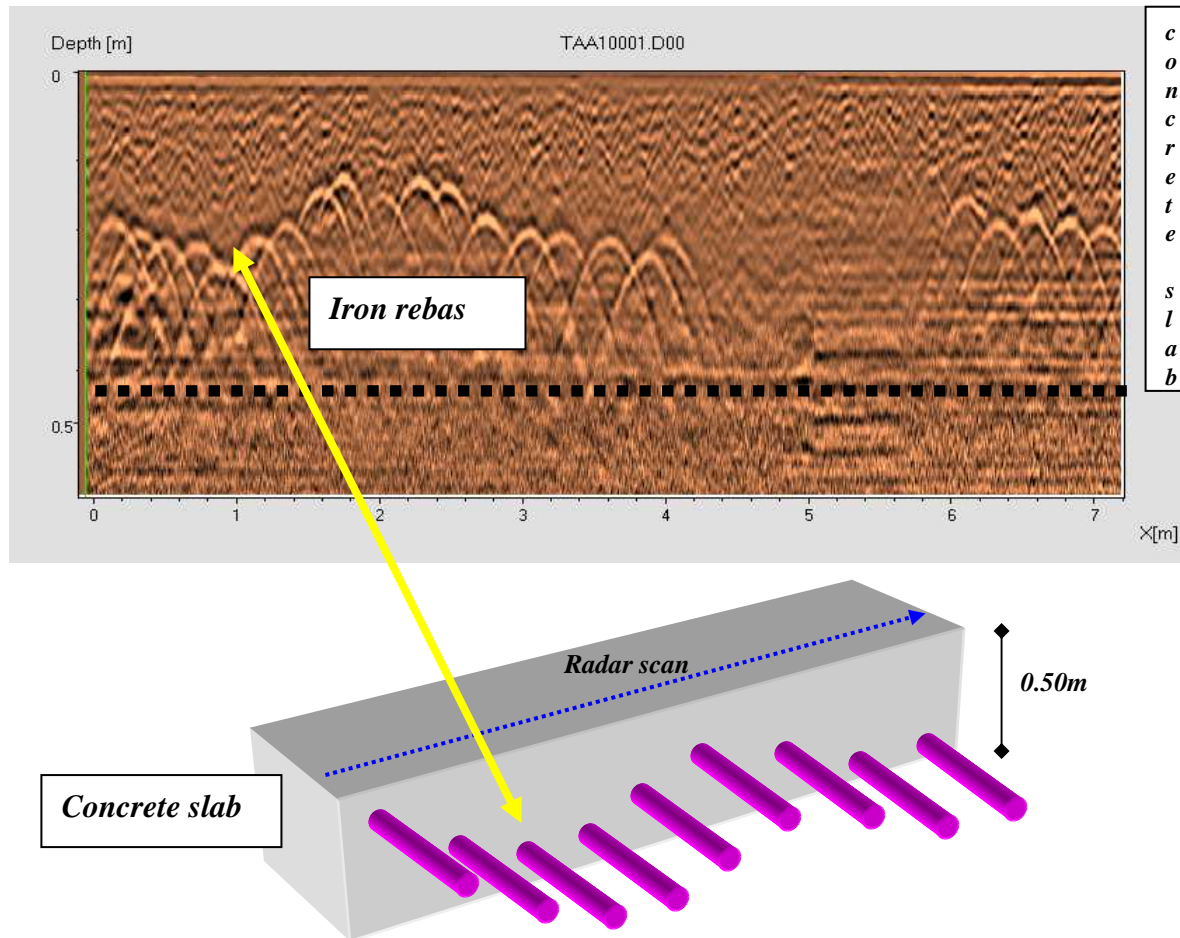
Tests site in the International Airport of Bangkok

GPR investigation on the test area of *Airports of Thailand Public Company* evaluate:

- The presence and the position of rebars in the concrete slab

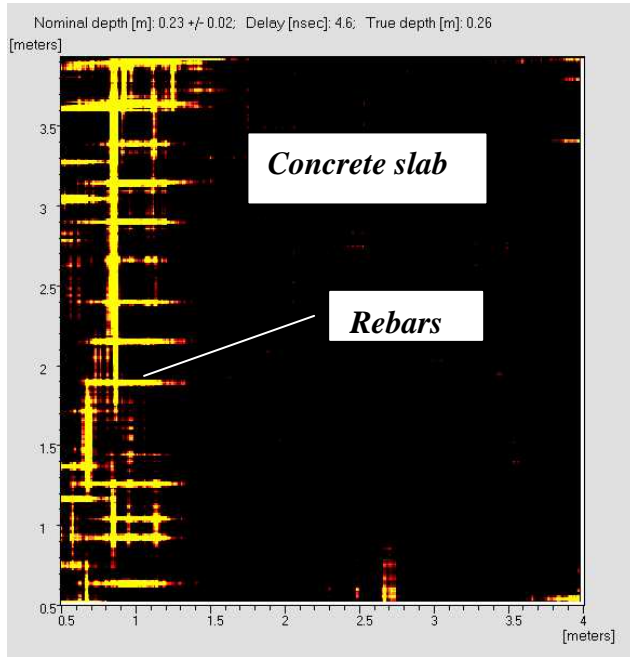
Used Configuration: System 2 GHz antenna

## GPR High Frequency investigation (3/4):



**2GHz radar section acquired along the border between two concrete slab;  
the map shows clearly the depth difference among each single rebar**

# GPR High Frequency investigation (4/4):



Time slice, show the anomalies created by still bars located in the concrete slab

3D shows the anomalies originated by the rebar

