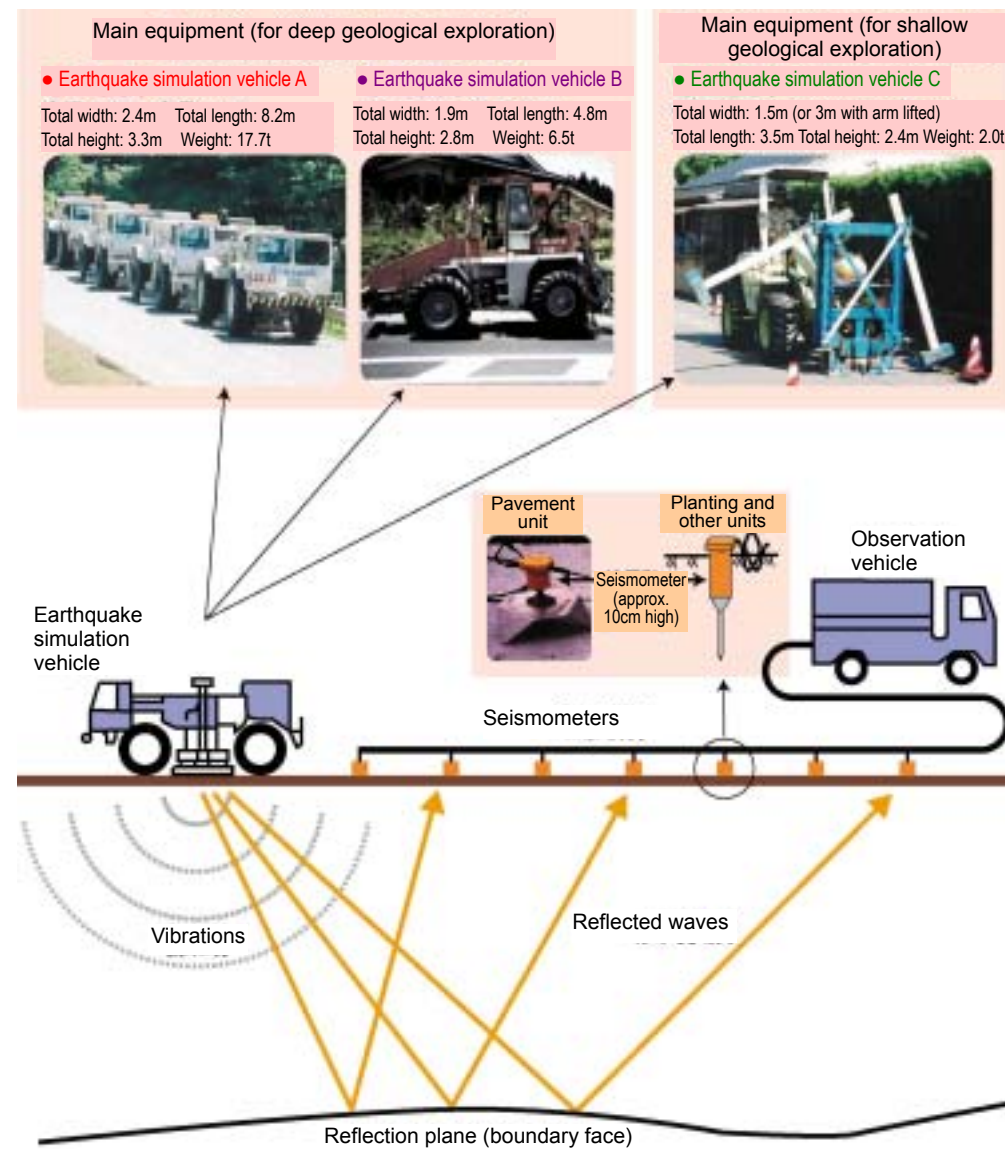


4. Survey methods

(1) Subsurface exploration

The subsurface exploration is a survey technique in which an earthquake simulation vehicle is used to give small vibrations to the ground (or road) and determine their ways of propagation by means of small seismometers placed on the edges (or shoulders) of the road in order to evaluate the underground geological structures. In this time, we'll make the "deep geological exploration A" up to the maximum depth of about 4km by using plural earthquake simulation vehicles A, the "deep geological exploration B" up to the maximum depth of about 500m by using plural earthquake simulation vehicles B, and the "shallow geological exploration C" up to the maximum depth of about 100m by using plural earthquake simulation vehicles C. These earthquake simulation vehicles will move on the road in turn to make measurements in the projected sections of the road.



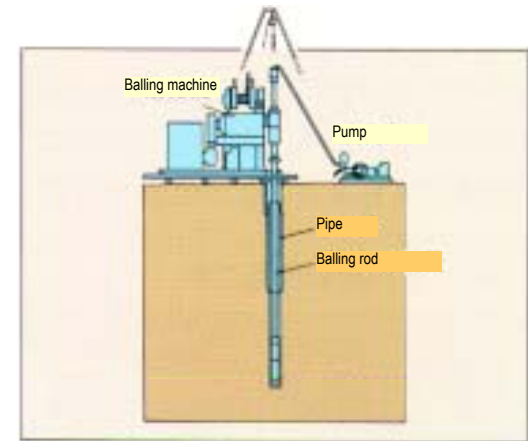
Principle of earthquake exploration by reflection method

(2) Boring survey

Samples as rod type cores are continuously collected from bedrocks and observed to evaluate their geological characteristics.

(3) Physical testing on bedrocks

The samples collected by boring surveys from bedrocks are tested in strength and hardness by using various methods such as giving stresses to them and transforming them



Schematic View of Boring Survey