## **Medical first**

## HOW THE SYSTEM WORKS implanted in the motor cortex area. The chip is Computer software replaces attached to the top of the damaged spinal cord as the skull to a "connector" the communication highway linking it to a computer. between the subject's brain and hand muscles. At present, the system is not mobile and can be used only in a laboratory. The muscles receive their instructions from 1 The signals an electrode sleeve generated by the worn on the subject's brain's motor right forearm. cortex area. which controls movement. cannot reach the subject's hand muscles due to the spinal cord injury.

A pea-sized chip is

**3** The signals from the brain are deciphered by the computer and are rerouted to the hand, wrist and finger muscles.

Source: AFP STRAITS TIMES GRAPHICS