

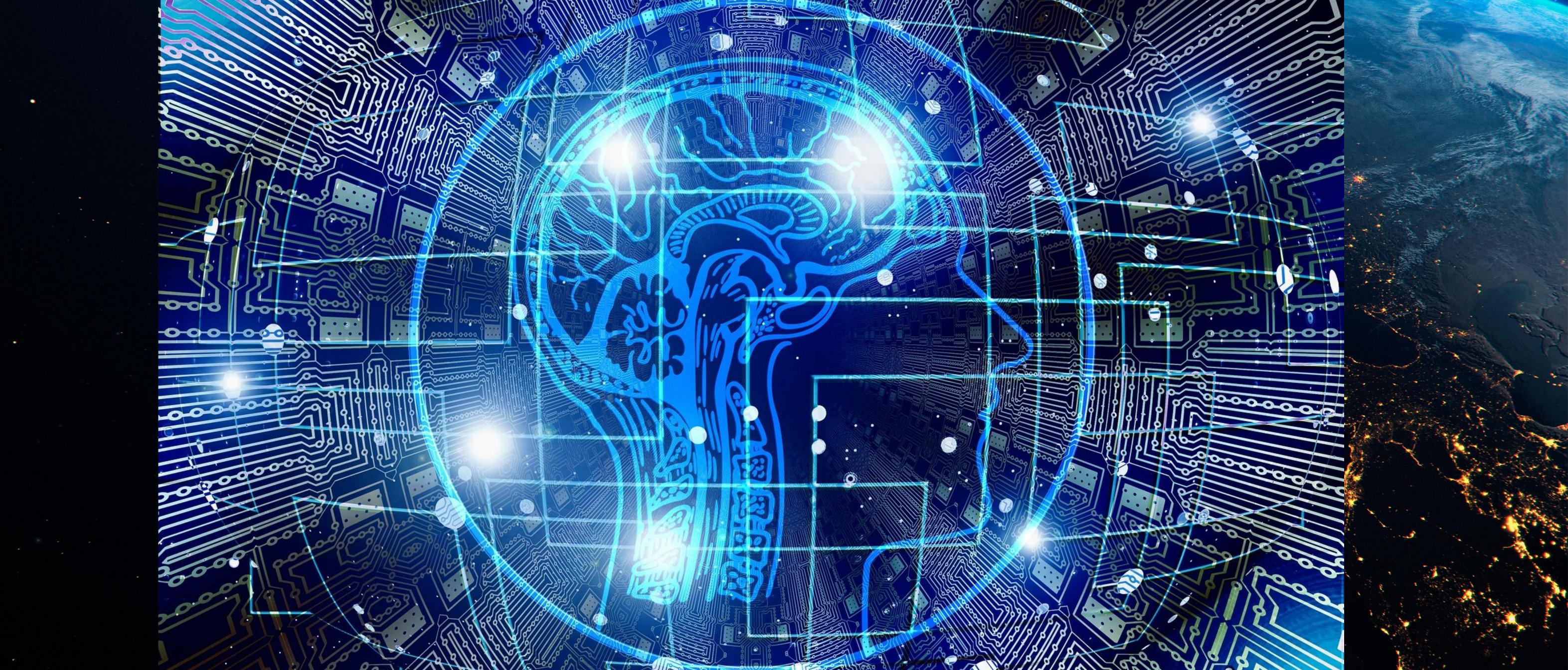
## SKANNUAL CONFERENCE

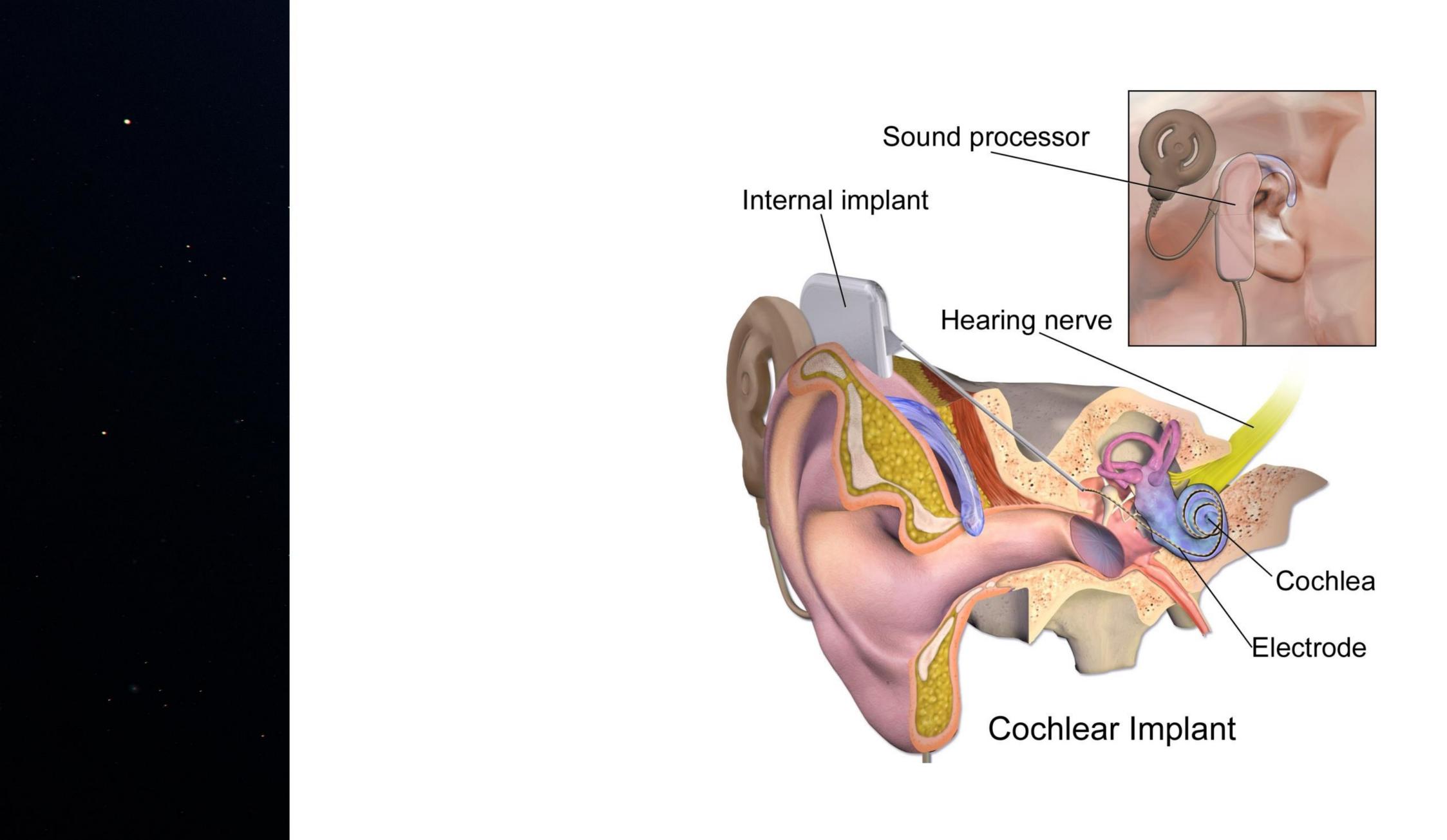
4 November 2021



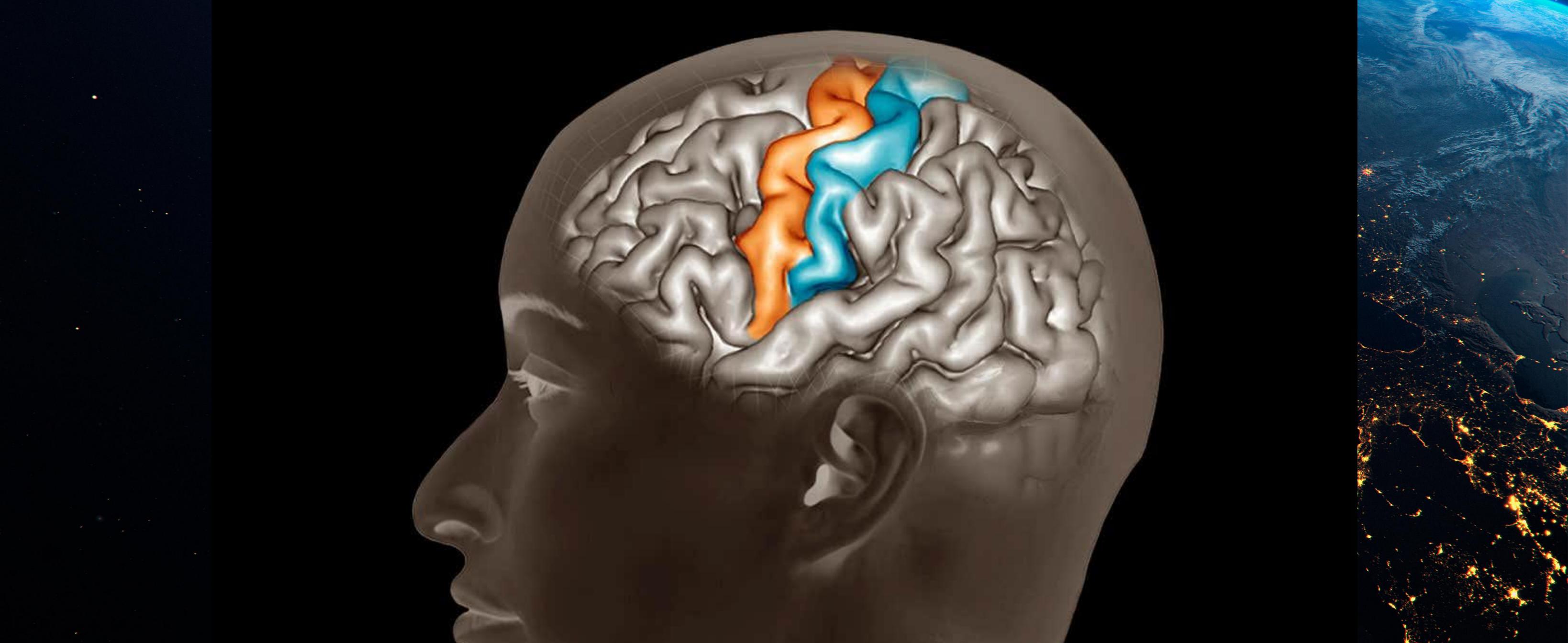


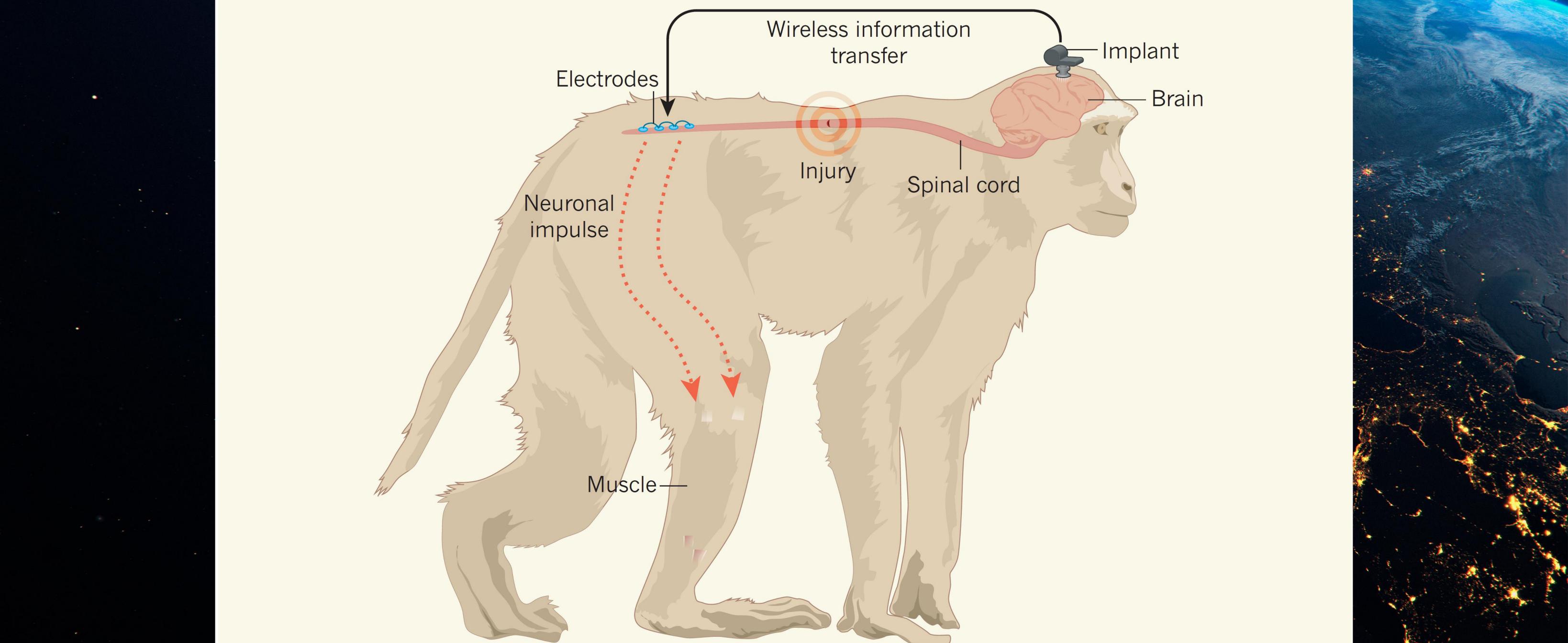
Dr. Urte Neniskyte







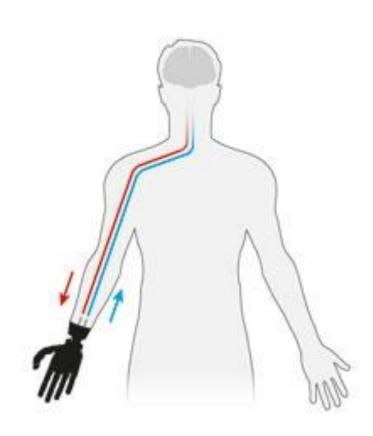




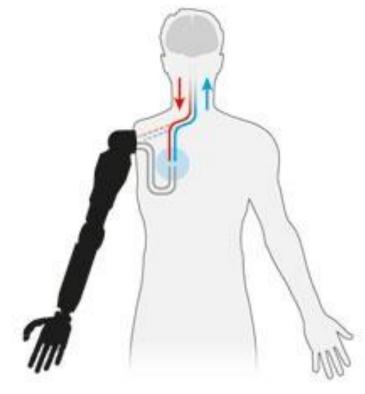


## Closing the loop

Prosthetic limbs can be controlled by nerve signals flowing from the brain (→). But fast, fluid motion requires sensory feedback flowing back to the brain (→). Sensor-equipped prosthetics are under development (right), and researchers are exploring several ways to route the output from the sensors into the nervous system (below).



Use the remaining nerves
Electrical leads from the
prosthetic's sensors
stimulate nerves in the
person's stump that
once served the real limb.



Move the nerves

Re-routed nerves grow new endings into muscle and skin, where external devices translate signals going to and from the prosthesis.

