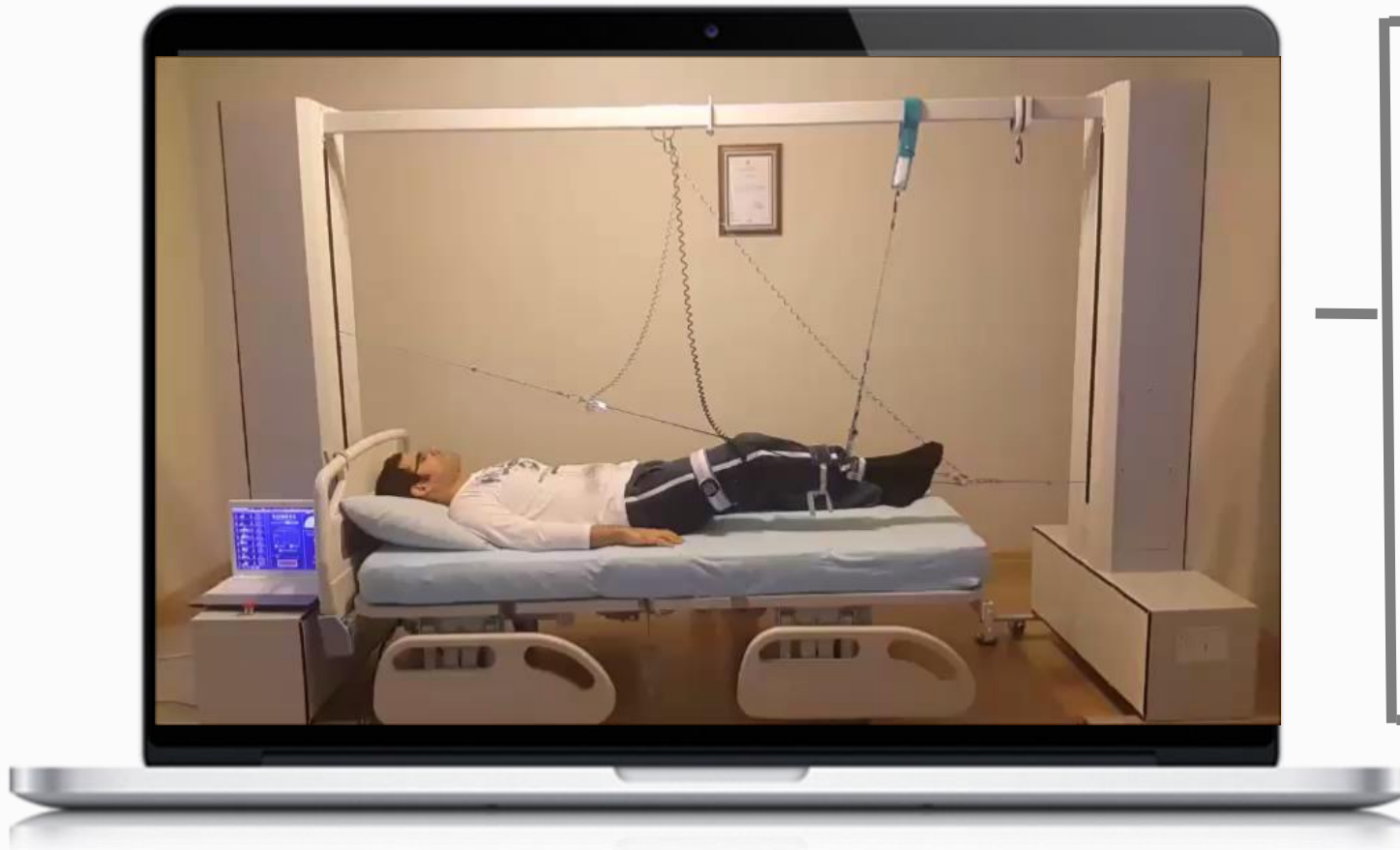


RÖMRES

AN INNOVATIVE NEUREHABILITATION SYSTEM



Romres: the Solution



Passive movements are performed by a slow precise algorithm

- .imitating coordinated agonist/antagonist muscle power
- .Providing strong constant proprioceptive input

.Active movement is invoked and incipient minimal muscle power is supported to complete a full ROM

.

Romres: The user interface

Scada Screen

ROMRES Durumu: FinalSetting

Egzersiz Durumu: ---

ROMRES
RANGE OF MOTION REHABILITATION SYSTEM

Egzersiz Süresi [dk]: 30

PASİF EGZERSİZ

EGZERSİZE BAŞLA

YARDIMLI EGZERSİZ

Yardım Aktivasyonu

Bükme: Çok Kolay Kolay Orta

İtme: Çok Kolay Kolay Orta

Yardım Aktif Dürtü Aktif

EGZERSİZİ DURDUR

Ekleme Açısı

Ekleme Açısı [°]: 66,31

Tamamlanmış Tur Sayısı:

Cihaz Sesleri Aktif

Kurulum Egzersiz İçi Biofeedback

Omuz Fleksiyon-Ekstansiyon

Omuz Abduksiyon-Adduksiyon

Dirsek Fleksiyon-Ekstansiyon

Kalça Fleksiyon-Ekstansiyon

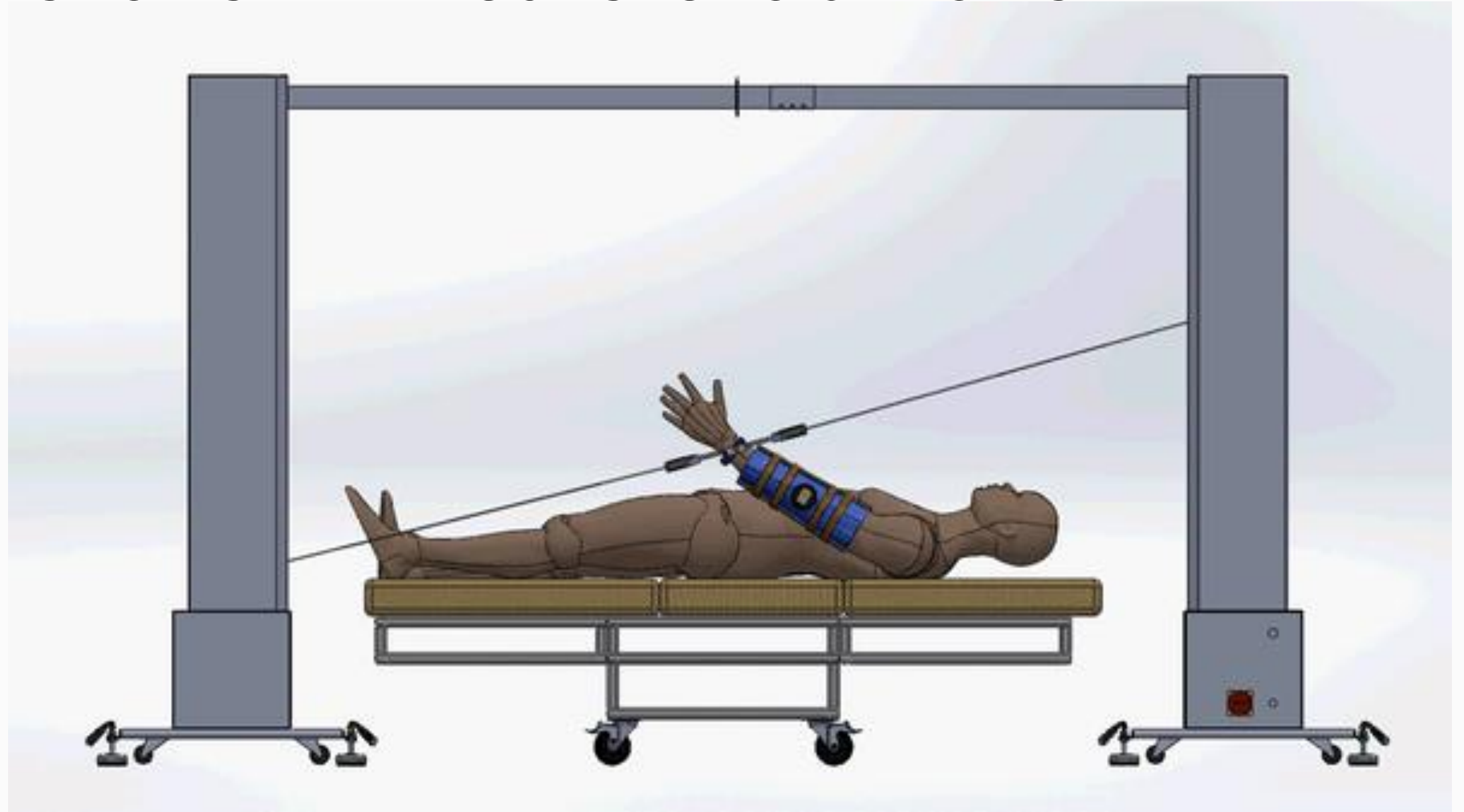
Kalça Abduksiyon-Adduksiyon

Kalça Inter-Ekster Rotasyon

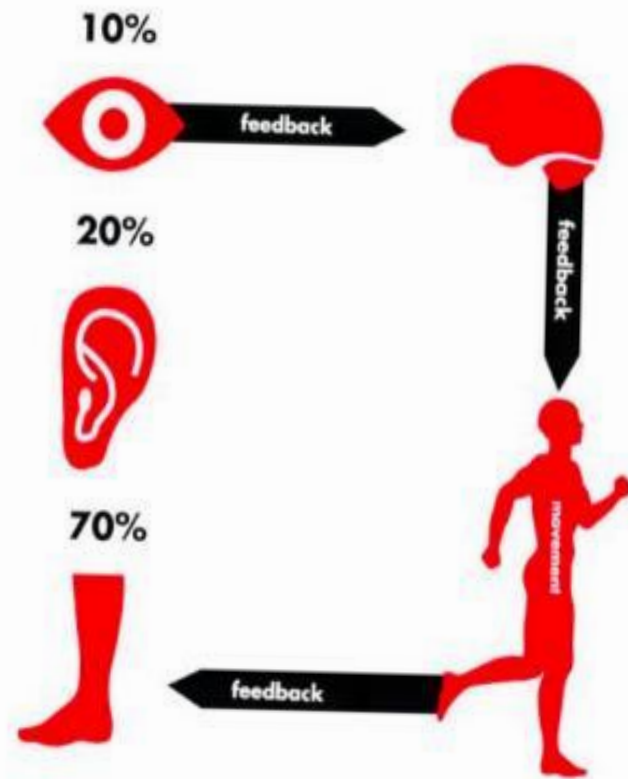
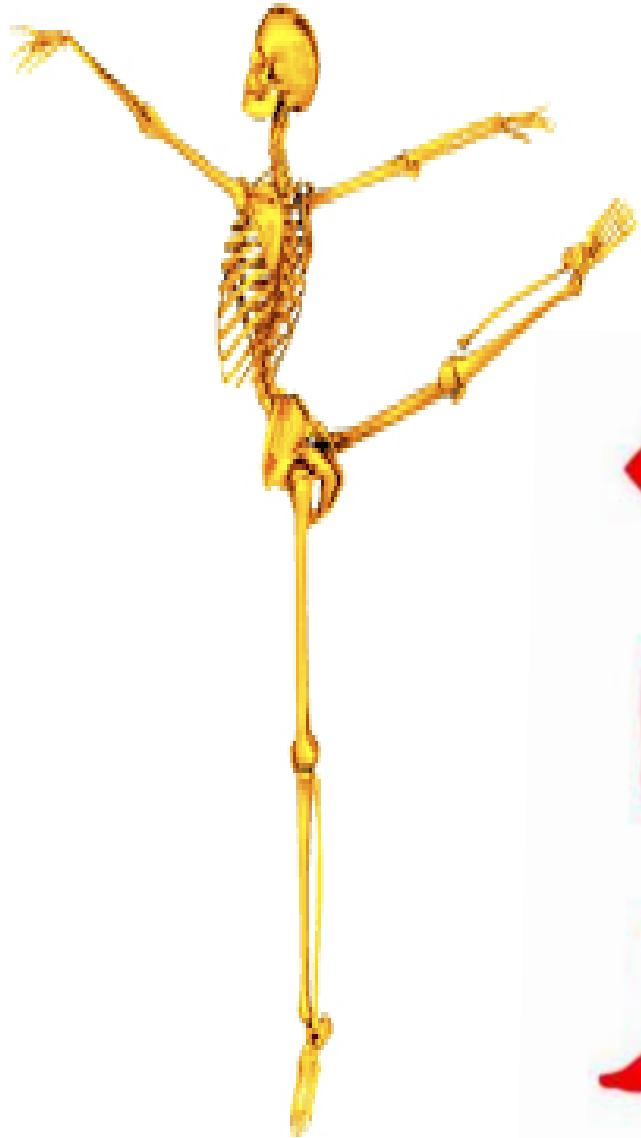
Diz Fleksiyon-Ekstansiyon

Ayak Bileği Dorsi-Plantar Fleksiyon

Innovation in neurorehabilitation



The idea of Romres comes from proprioception



- **Tactilehe positioning sensation body and extremities in 3d space**
- Tactile, visual, cochlear deep tendon and joint sensations are incorporated to form a unified dynamic sense of joint and body position

Induction of neuroplasticity through proprioception

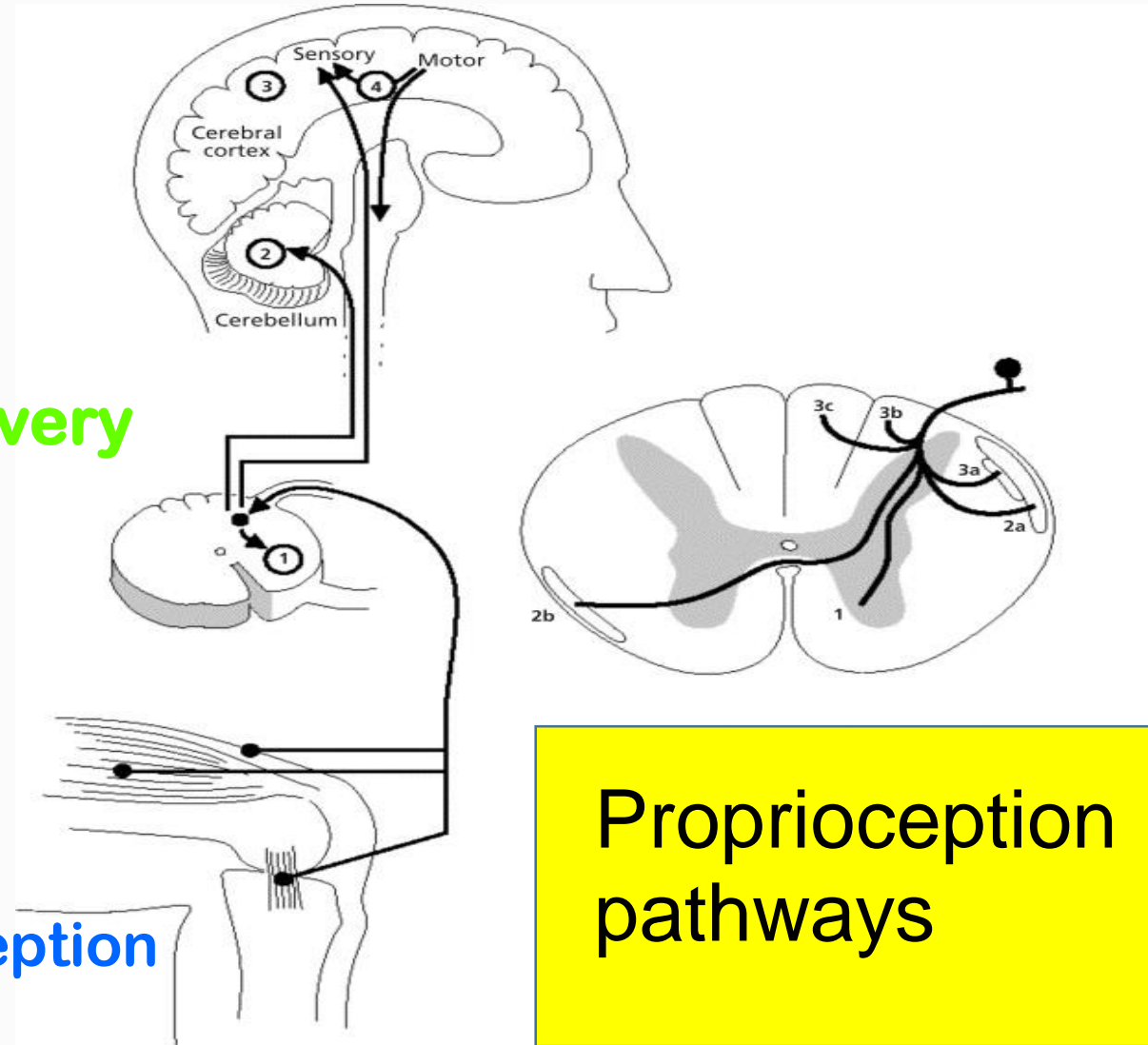
Brain injury

=> motor and sensory loss

=> neuroplasticity

=> functional and sensory recovery

Romres=> induction of strong proprioception



Impressive clinical results; a 27yo lady following a hemorrhagic stroke 4 monts ago



Before treatment



Soon after a 45 m session

Impressive clinical results; a 34yo MS patient with spasticity



Before treatment



Soon after a 45 m session

Project Development Team

Health Department

Dr. Ali GENÇ

Neurosurgeon/Project Co-Leader



Physiotherapist / Project CoLeader

Özcan Kalkan



Engineering & Design Department



Efe İlevent Oyman

Mechatronic Engineer



Hakan Bilen

Mechatronics Technician

Academic Advisors



**Yrd.Doç.Dr.
Cüneyt Yılmaz**

Yıldız Teknik Univ.



**Yrd.Doç.Dr.
M. Selçuk Arslan**

Yıldız Teknik Ün.

GOSB Teknopark, Direktor

Thank You

Climax Health Services and Medical Research

Kanores Neurological Rehabilitation Devices

GOSB Teknopark

+90 533 2177725

+90 532 3240733

draligenc@gmail.com

ozcan.kalkan@kanores.com