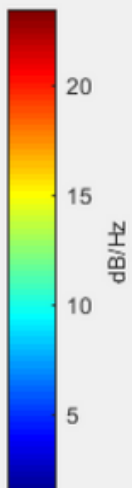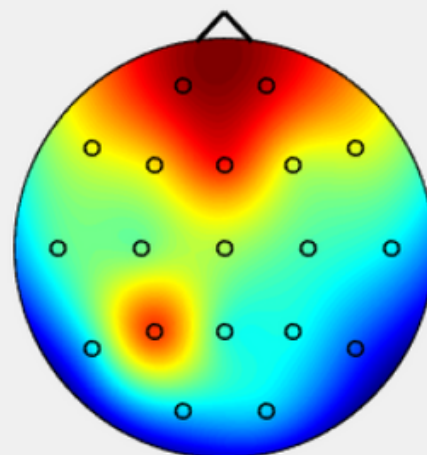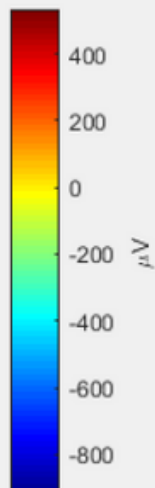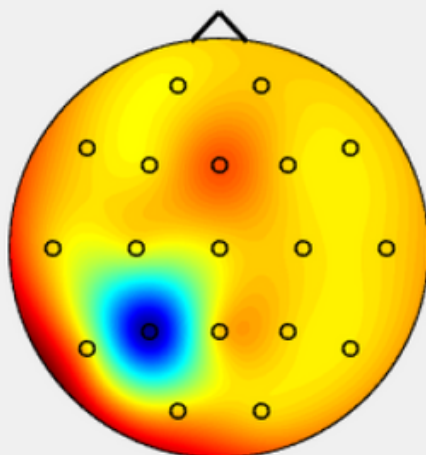# INTELLIGENT NEURO-REHABILITATION SYSTEM

FOR PATIENTS WITH ACQUIRED BRAIN DAMAGE IN EARLY STAGES OF TREATMENT
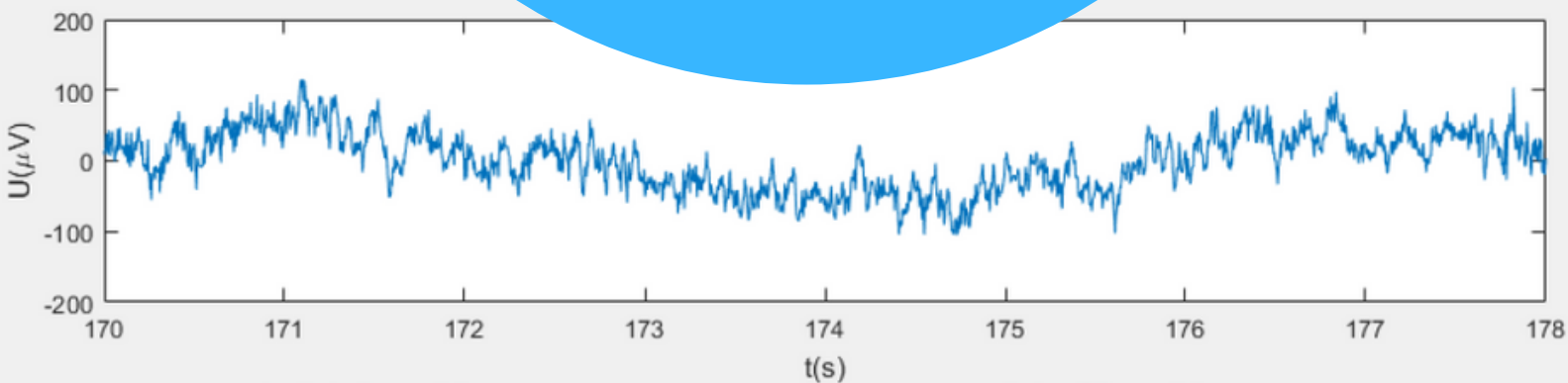
Amplitudové mapování

Frekvenční mapování
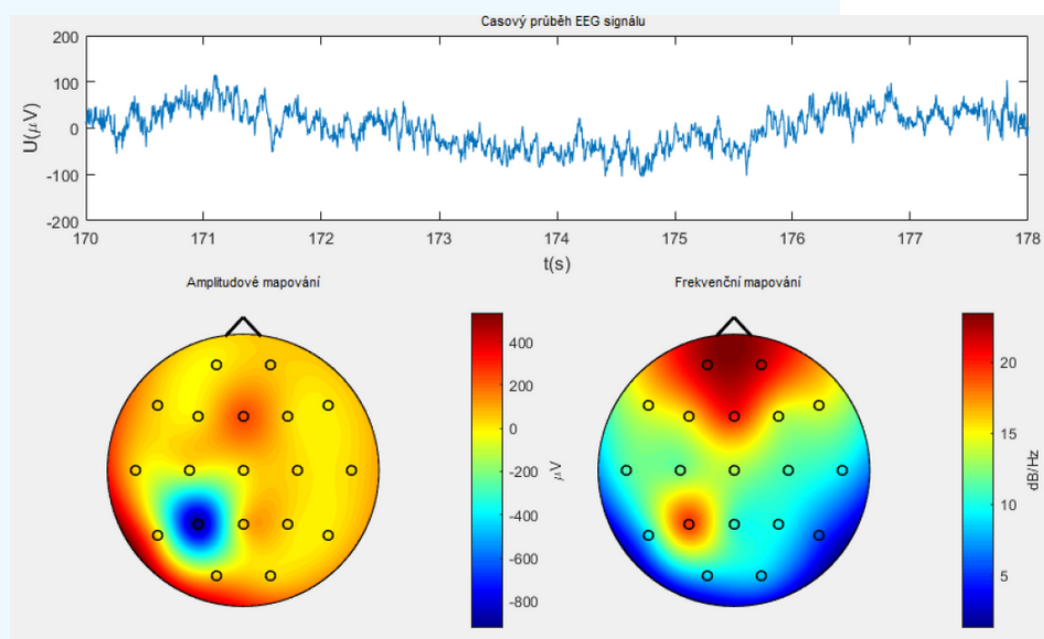
The project contributes to the systematisation and increased efficiency of care for patients with acquired brain injury from the acute phases of treatment to the first six months.

A comprehensive approach can be achieved using intelligent neurorehabilitation software and hardware that takes into account the extent and degree of disability at each treatment phase, is based on a validated model of cognitive function (CHC model of intelligence), works responsively and, thanks to continuous diagnosis and the ability to learn from its user (machine learning), automatically adapts the type and difficulty of valid and reliable rehabilitation tasks. This makes KR individualised and the process efficient. The system is further complemented by interdisciplinary certified recommendations (guidelines) for the implementation of KR in the different phases of treatment. This comprehensive approach helps to prevent disease chronification, reduce the economic burden and improve the patient's quality of life.

PARTNERS: