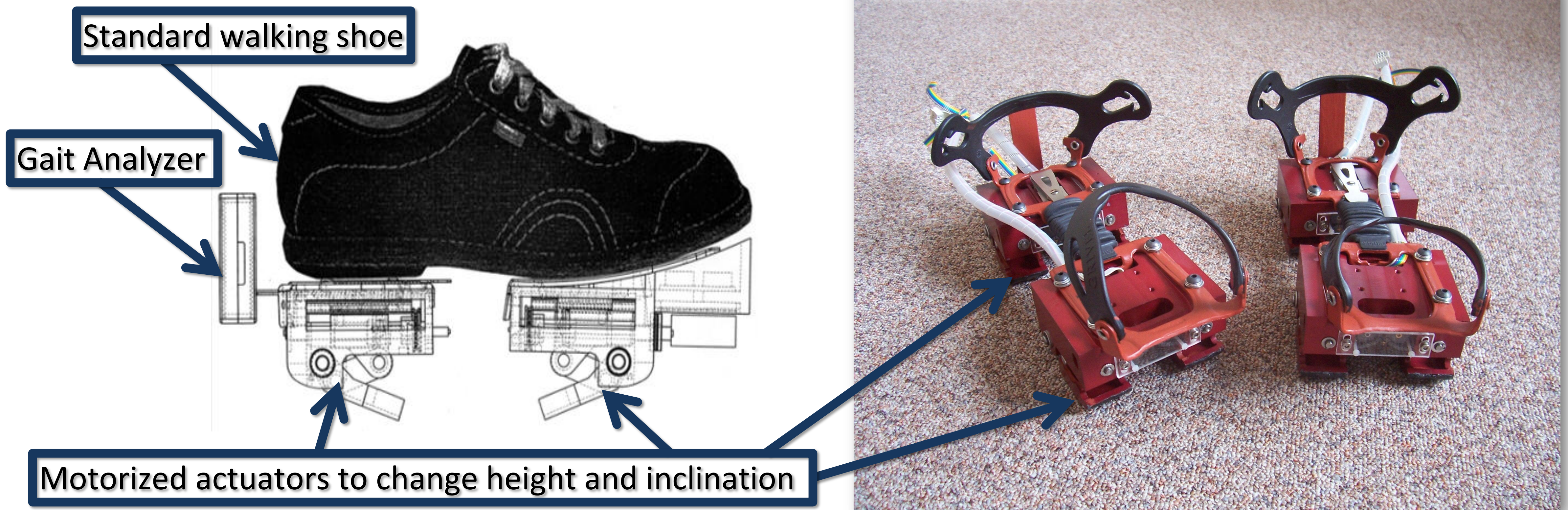


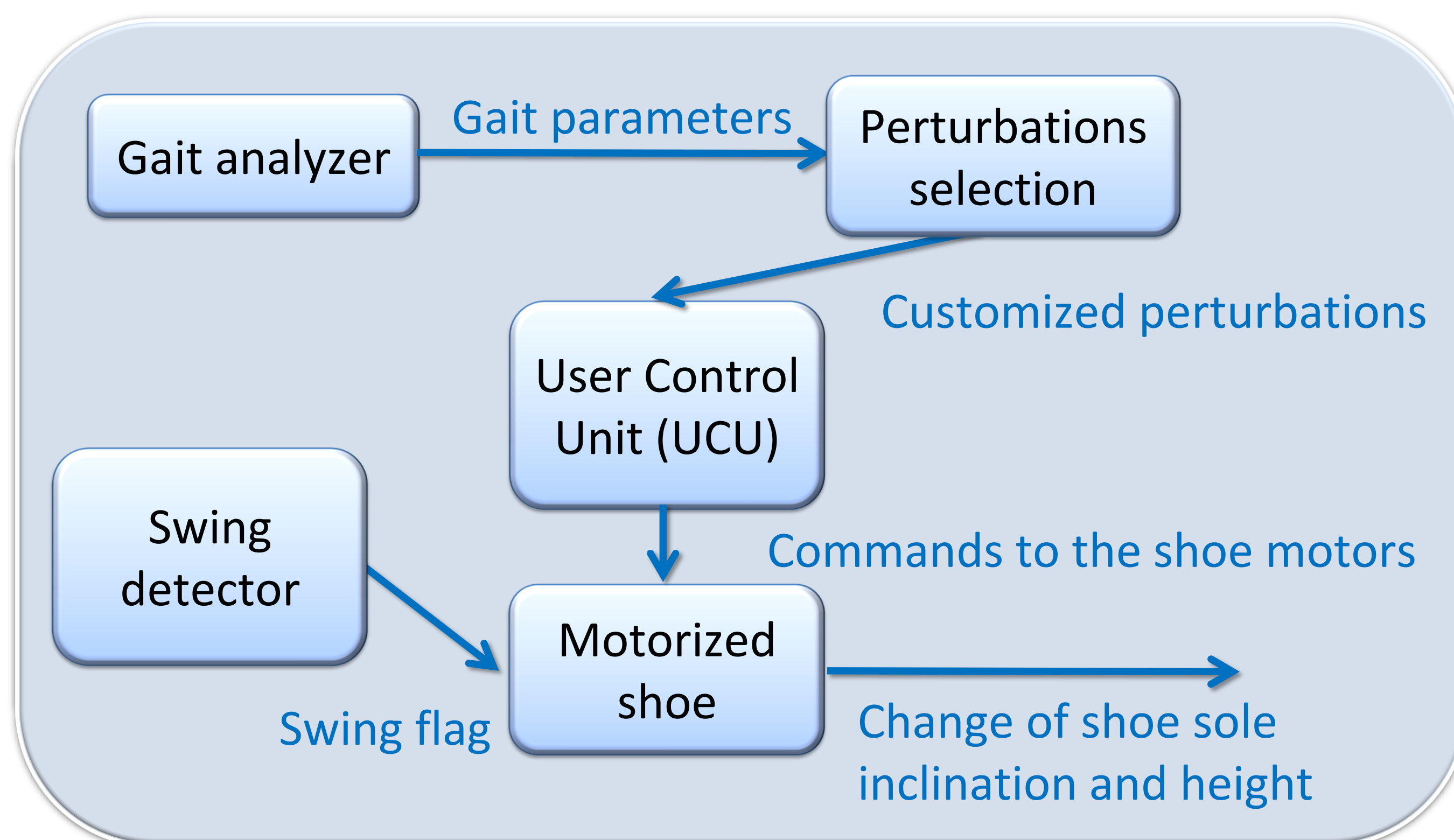
SELF MOBILITY IMPROVEMENT IN THE ELDERLY BY COUNTERACTING FALLS

- SMILING aims to enhance the ability of elderly people to avoid falls through a programme of walk training.
- SMILING walk training introduces perturbations to the gait cycle in order to re-train the brain so that falls can be avoided.
- The basic idea was to design and develop a “shoe” able to change its height and inclination during the swing phase of gait



- Perturbation features have to be customized to the walking capability of each individual elderly person
- The device has to be able to generate “perturbations” during the swing phase only
- The device has to be safe and reliable
- The device has to be usable with different shoes sizes
- The device has to be driven by the user him/herself
- The device has to be easy to wear and operate (no wires, no multiple parts, no complex user interface)

F
U
N
C
T
I
O
N
A
L
R
E



For further information: www.ab-acus.com

Ab.Acus srl - via Domodossola, 7
20145 Milan - ITALY



The SMILING project is co-funded by the European Commission under the 7th Framework Programme for RTD with project number FP7-215493