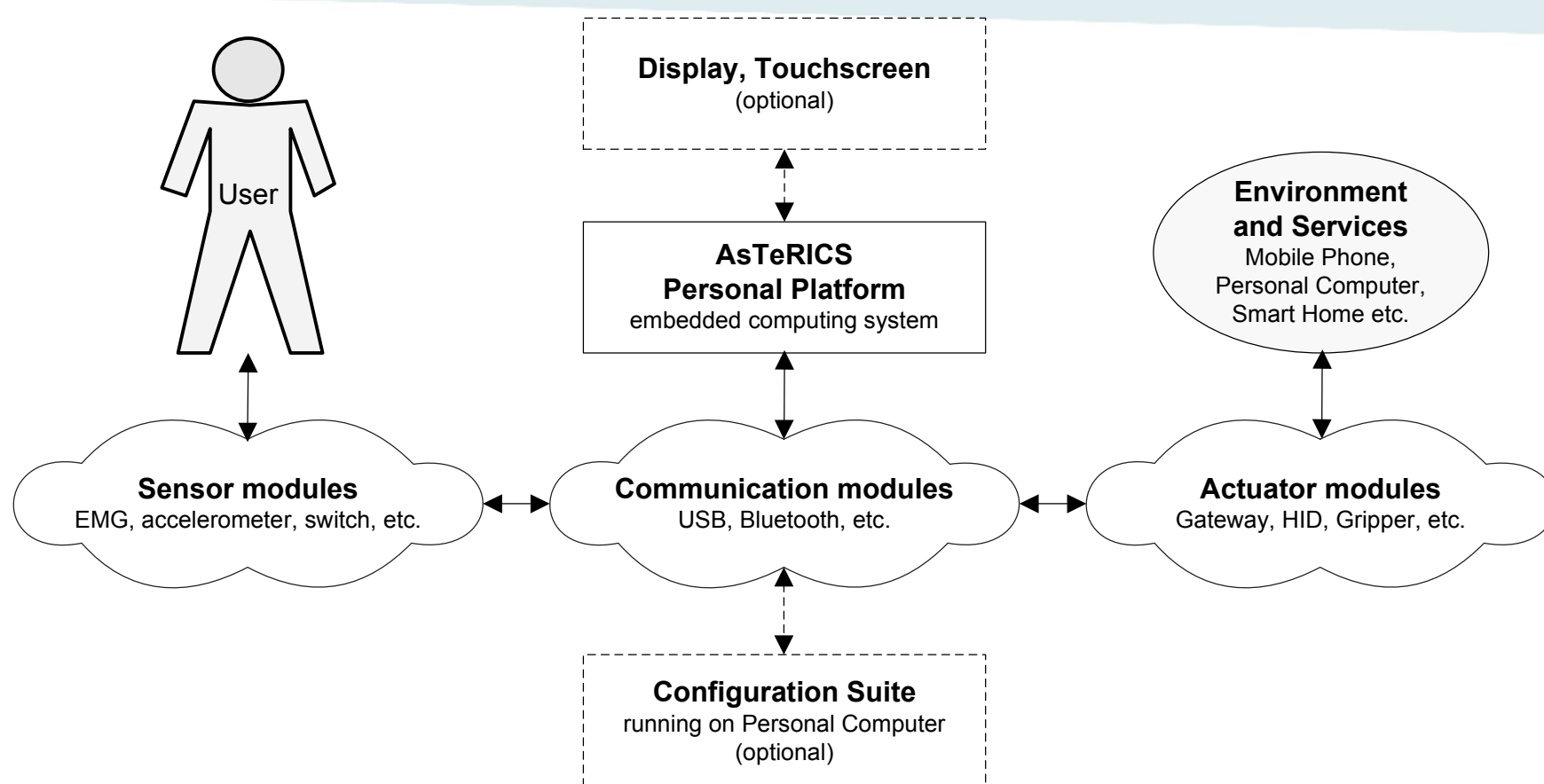
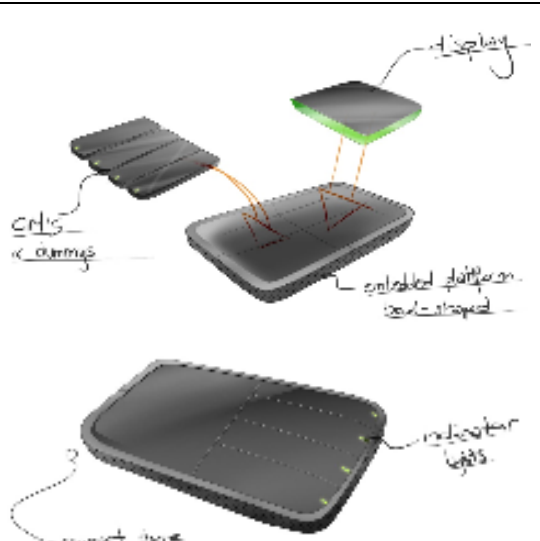


Socio-economic Challenges	Common Problems	AsTeRICS Goals
<ul style="list-style-type: none"> • According to Eurostat 2005 <ul style="list-style-type: none"> ○ between 1,7% (Hungary) and 17,5% (Norway) of people with long-term disabilities have problems with their arms or hands, 2.6 million people across Europe, many of them need Assistive Technologies (AT) • Problems with AT <ul style="list-style-type: none"> ○ often optimized for particular application and disability • Consequences <ul style="list-style-type: none"> ○ some people with disabilities are not independent as they could be with individually tailored and affordable AT 	<ul style="list-style-type: none"> • The best input method is often not supported by desired application • Ways to reduce tremor or unintended movements are rare • AT often does not adapt to learning or increasing skills of the user • AT often does not adapt to new demands of the user • Complex AT devices usually need professional setup • Leading AT devices are expensive 	<ul style="list-style-type: none"> • Develop flexible and affordable construction set for user-driven Assistive Technologies • Sensors and actuators can be connected via embedded computing platform • Modular architecture for creating new AT applications • A software suite offers an interface for graphical setup and configuration • Explore capabilities of new devices, new combinations or extensions of traditional ones • Novel sensors by AsTeRICS partners (Starlab Enobio with BCI capabilities, Smart Vision System)



AsTeRICS Vision	One of Design Studies	AsTeRICS Partners
<ul style="list-style-type: none"> • Using the AsTeRICS system, people with severe motor disabilities can make use of their full potential. Tailored AT-solutions can be provided to users in several contexts of use • The AsTeRICS core system is open source, giving many AT developers an option to integrate new devices • The AsTeRICS system will be affordable for many people who cannot benefit from leading edge of supportive tools today 		<ul style="list-style-type: none"> • KI-I Linz, Austria • FHTW – Technikum Wien, Austria • University of Cyprus • Université Pierre et Marie Curie Paris, France • Institut mikroelektronických aplikací Praha, Czech Republic • Starlab Barcelona SL, Spain • Ingema Donostia-San Sebastian, Spain • Sensory Software Ltd., United Kingdom • Harpo Sp. z o. o. Poznań, Poland