H. Bouma, V. Taipale, J.L. Fozard, D.G. Bouwhuis, J.E.M.H. van Bronswijk. Concepts and significance of gerontechnology: past, present, future (symposium). Gerontechnology 2008; 7(2):77. Gerontechnology is the study of technology and ageing for providing an optimal technical environment for all ageing and old people up to a high age. It is an interdisciplinary effort for a purpose: an optimal life for ageing people in their dynamic society. Its origin necessity stems from the rapid innovation of technological products and services and the gradual absolute and relative increase of older people in many countries. The task at hand is to let ageing people profit fully from available technological options. So technology is directed at the ambitions and needs of ageing people in their daily environments and ageing people are made aware of and trained in the use of suitable products and services. This effort is receiving systematic, valid underpinning by proper theory and methods. Session outline The present workshop selects achievements and challenges of two types. First, insights strengthening the theoretical foundations, resting on theories and methods of an existing human discipline (physiology, psychology, sociology, medicine) as applied to relevant technology (chemistry, building, communication, mechatronics, design, management), and vice versa. This is plotted in a matrix with human disciplines as rows and technology disciplines as columns. The cells indicate actual progress in understanding the field Table 1. Secondly, the actual products and services and environments that have added value for life are selected. These are plotted in a matrix with types of added value as rows and domains of daily life as columns². The cells indicate actual fruits to be reaped by our target group (Table 1). Aspects covered in the session are specifics of interdiscipline, the user perspective, essential communication, technology acceptance, the social perspective, and an educational curriculum, as related to the present and the near future.

References

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Table 1. Impact matrix of gerontechnology with selection of obtained fruits

	LIFE DOMAIN				
GOAL	Health	Housing	Mobility	Communication	Work
	Self-esteem	Daily living	Transport	Governance	Leisure
Enhancement	Telemedicine	Wireless/remo	Navigation	Mobile phone	Digital
Satisfaction		te		Internet	camera
Prevention	Healthy Diet	Smart	Car	Video links	Focussed
Engagement	Home trainer	ventilation	automation		lighting
Compensation	Passive/Active	Smart IADL	Rollator	Smart hearing	Power tools
Assistance	alarms		Pedelec	aid	Robot pet
Care support	PDA	Electronic	Powered	Care networks	Robots
Organisation		keys	lifting	Video links	