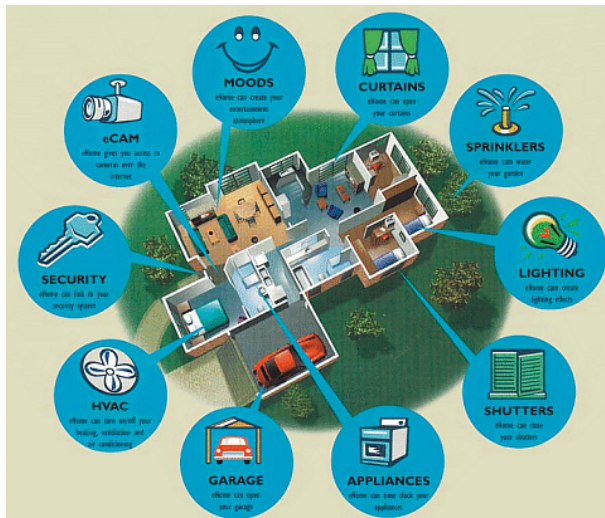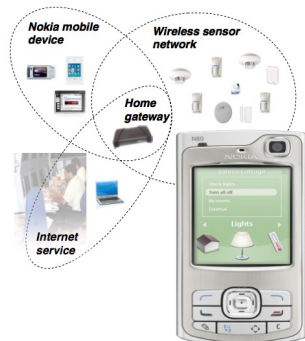# Ambient Assistive Living

# Ambient Assisted Living – Smart Home

Assistive homes and environments are categories of intelligent homes and environments tha represent certain approach to solving problems of independent living.



All important devices and appliances are interconnected and it is possible to use integrated control via accessible user interface. These environments allow compensation of certain handicaps of home inhabitants and thus enhance their independence. They make everyday activities easier and lower dependence on other persons.



Suggested topics: design of suitable arrangement of sensors and actuators for home appliances, considering possible health problems or handicaps of the inhabitants; possibilitie of measurement and evaluation of physiological parameters in home environment; fall detect and identification of other potentially dangerous situations; identification and distinguishing more persons in the given space; utilization of different types of user interfaces for control of home appliances (mobile phone, TV set, PC, etc.).

eHome

Home Terminal (EH-7104G)
Access Point (MLAN-2251)
PDA
Mobile Phone
Notebook

Electronic Blinds
Electronic Blood
Pressure Machine
Treadmill

3F

MobiPanel (MPC-100)
Home Terminal (EH-7104G)
Access Point (MLAN-2251)
Notebook

Data Networking /
Ethernet

Control Networking /
LonWorks

Home Terminal (EH-7104G)
Telephone
Computer
VDSL Modem
Fax Machine
Printer
Scanner
Phone Jack

Dishwashers
Dryers
Refrigerator
Microwave
Oven
Gas Range

2F

802.11b

TV
Stereo
DVD
Speaker

Control Panel (EH-8100)
Sensor
Lighting
Air Conditioner
Outlet

IEEE 1394

1F

CCD Camera
Keypad
Sensor
Automatic Sprinkler System