

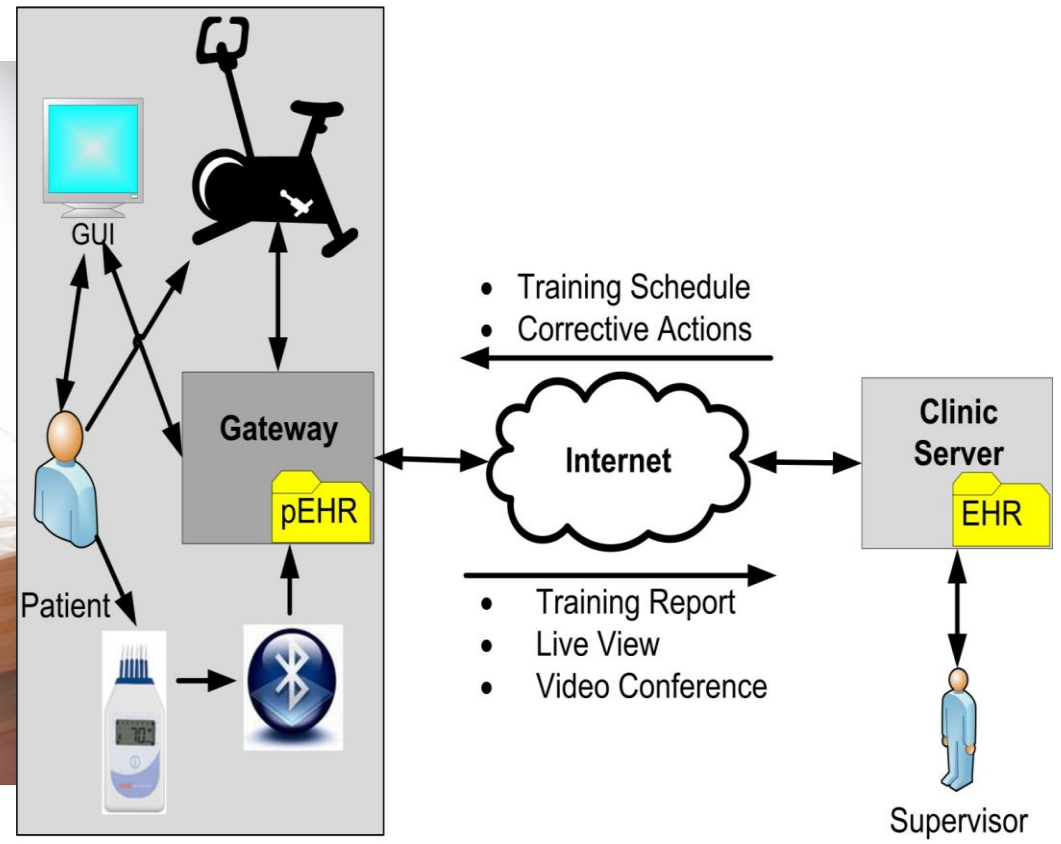


# AAL Vertical Domain Presentation



# Ambient Assisted Living (E-Health)

- SRDC (TR)
- Corscience (D)
- MATERNA (D)
- OFFIS (D)
- ProSyst (D)
- SIEMENS (D)
- SSK (D)
- Uni Pb (D)
- Uni Ro (D)
- TU Dortmund (D)
- Fidetia (E)





# Components and Technologies

- technical challenges
  - usability of the solution to be realized
  - inhomogeneous M2M communication
  - security and safety
- used technologies
  - user-centered design approach
  - OSGi and DPWS (service layer)
  - device abstraction/integration based on Bluetooth, Zigbee and 6LowPan
  - JAAS (security) and self-management (safety)
- OSAmI Commons
  - realization of distributed OSGi by combining DPWS with OSGi
  - chosen device abstraction approach
  - binding and security services
  - policy-based management and system configuration



# Use Case Scenarios

- user stories
  - indoor training at home with supervision from the clinic
- business case
  - ageing society with growing number of patients requires action for cost savings
  - (proven) faster/better recovery of rehabilitation patients at home contributes to improved efficiency of the overall health care system
  - creation of new consultancy services and license/maintenance royalties (HW/SW)
- innovations
  - allowing non-expert users to deal with highly-complex device and sensor environments
  - automated service and device management with small-sized footprint
  - exploration of 6LowPan for usage in device abstraction
  - novel approach for implementing OSGi Remote Services by means of DPWS
  - integrated multi-parameter sensor device