

Business Approaches in the German AAL Project SmartSenior – Intelligent services for senior citizens.

6th World Ageing & Generations Congress

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Bundesministerium für Bildung und Forschung

GEFÖRDERT VOM

Independent, safe, healthy and mobile in old age.

- Current challenges of AAL Business Approaches
- SmartSenior: Key success parameters and integrated approaches
 - Integrated service offerings
 - Integration of business processes and technology
 - Integration of business models
- Summary



Motivation.

The market for services that enable an independent and self-determined lifestyle is growing at a rapid pace. However, there is still a lack of integrated, market-oriented AAL solutions focusing on user needs.

2010

2025

Growing target group 50+.

- 32 million people aged 50 or above in Germany in 2008*.
- Financially well-off (≈ € 740 billion estimated net income).
- Growth by 50% within ten years (no. of 50+ households).
- This demographic trend leads to an increasing demand for
 - professional health care services (1st health care market).
 - fitness / wellness / ambient assisted living (AAL) (2nd health care market, currently approx. 20% of consumers' spending).

Needs not met.

- Today's solutions and services for the "silver generation" are characterized by
 - limited availability,
 - poor integration,
 - high costs,
 - not accommodating the different individual needs, and by
 - lacking consistency and intuitiveness in user interfaces.
- Regulatory barriers hinder public-private co-funding.

^{*} Source for all statistic data: Statistisches Bundesamt (http://www.destatis.de)



Current challenges of AAL business approaches.

Singularity of offerings, insufficient technical and business process integration, and regulatory funding barriers are the main challenges in today's AAL business.

Singularity of offerings

- Home control
- Medical care
- Mobility and fitness

Singularity of solutions

- Lack of modularity
- Lack of standards
- Insufficient usability

Separated business

- Separated markets
- Regulatory barriers
- Lack of cost sharing

Integrated and modular offerings of SmartSenior

- Service modules for independent living@home
- Medical modules to get well and stay healthy
- Mobile solutions to be safe at home and on the go

Integrated service architecture & user-centred design

- Integrated service architecture
- Standardized business and operational processes
- User-centred design and device-independent UIs

Co-operative and integrated business models

- Service orchestration to simplify service operation
- Creative co-operation and co-funding solutions
- Pro-active and long-term health cost management



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SmartSenior - an alliance addressing the "50+ generation".

The SmartSenior scenarios are derived from basic needs: Mobility, health care, and home services enabling elderly people to live at home for longer.





Mission.

Scenarios.



Be safe on the go.

- Increased objective and subjective safety
- Extended tracking systems
- Extended emergency assistance with vital data transmission
- Safe emergency stop function in the car



Mission. Scenarios.



Applications.

- Preventing falls.
- Stroke rehabilitation.
- Pain management.
- Peritoneal dialysis.

Get well and stay healthy.

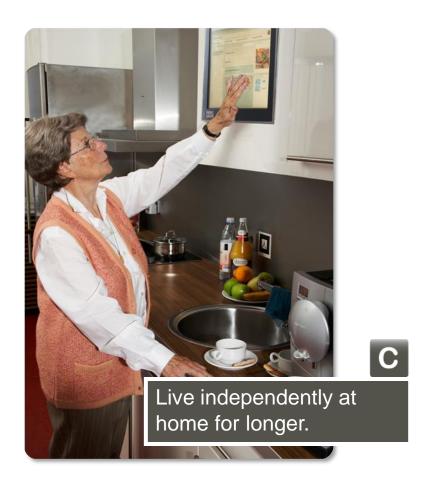
- Telemedical aftercare and support in the home
- Standardized transmission of vital parameters and detection of anomalies
- Integration of care and support services



Mission. Scenarios.

Live independently at home for longer.

- Assistance with everyday domestic life, integration of social and other services in the neighborhood
- Safety in the home, prevention and detection of emergency situations
- Integrated, easy-to-use communication facilities with social network and service providers





SmartSenior - an alliance addressing the "50+ generation". Scenario overview and main objectives.





Consortium.

Partners.







OAAo Bock SIEMENS











In negotiations with others.

Care and support providers



Manufacturers of household appliances *





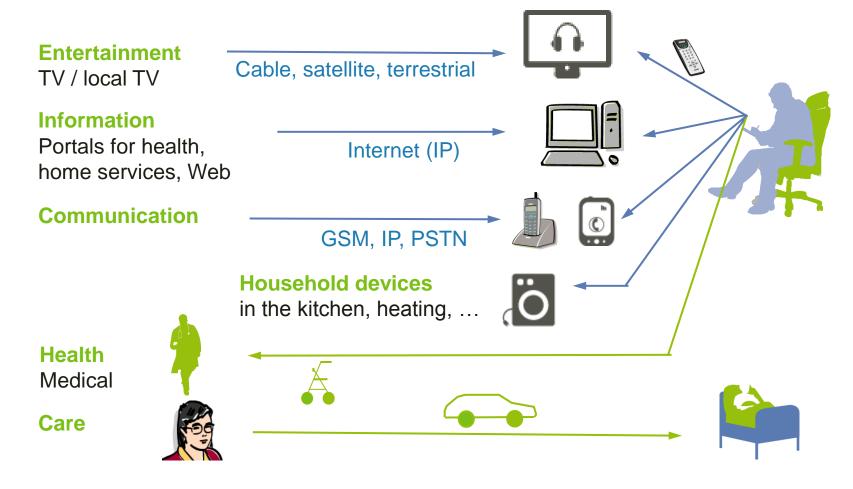
* As associated partners



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- Outlook

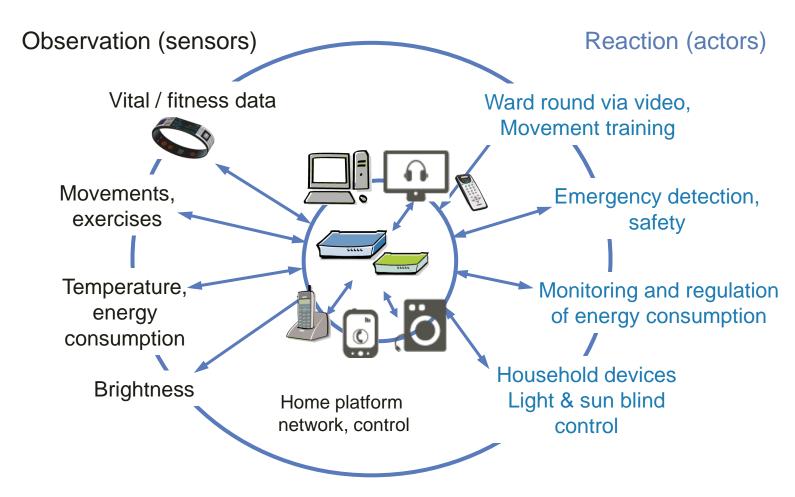


Innovative business processes require fundamental changes to the service architecture and infrastructure. Situation today.





SmartSenior will develop a modular and integrative infrastructure.

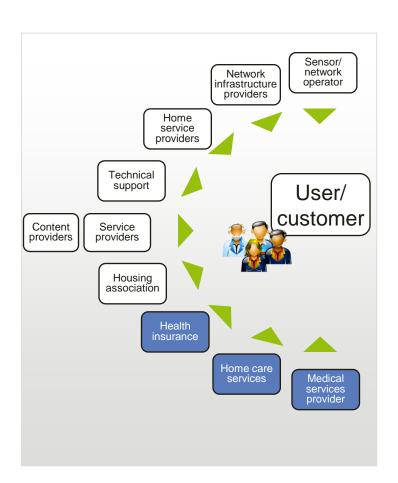




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Today's service offerings are fragmented and require individual interaction with the customer.



Pros

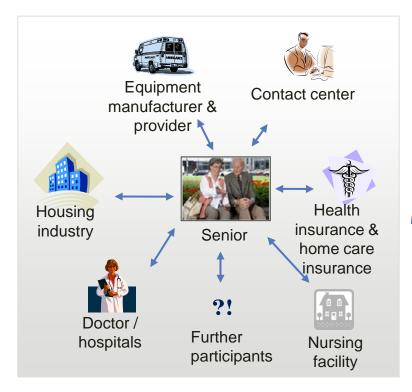
- Customer has a direct influence on the selection of services and providers.
- Transparency of costs (invoices).

Cons

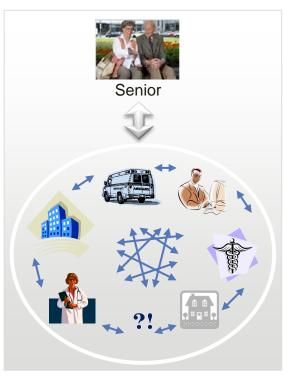
- No integrated service offering!
- Time-consuming and consultation-intensive
 - Each module is negotiated individually with the associated services by the customer
 - Each module is managed separately
- Many devices and software:
 - Compatibility is not ensured
 - Different operating and usability concepts
 - Maintenance and repair of a variety of services
- Complex management of separate accounts



Business processes must change radically to fulfill basic customer needs such as simplicity and efficiency.







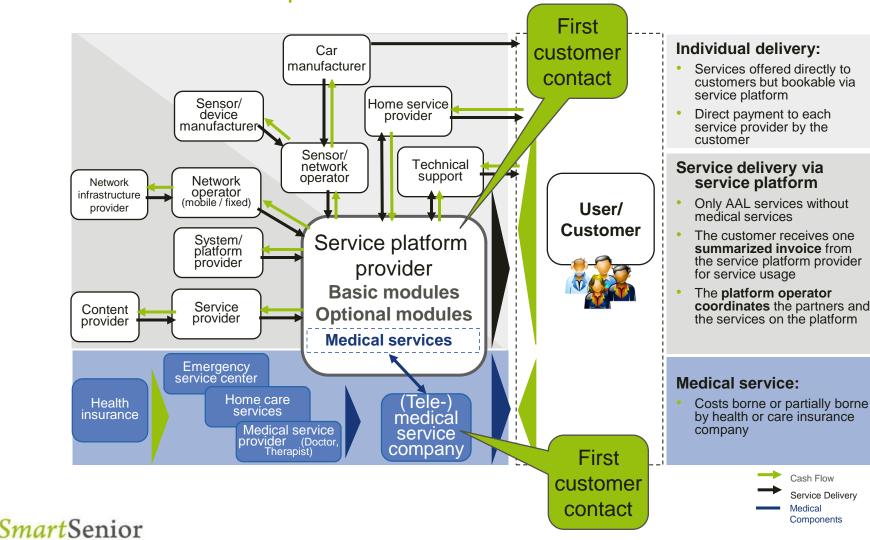
Coordinator



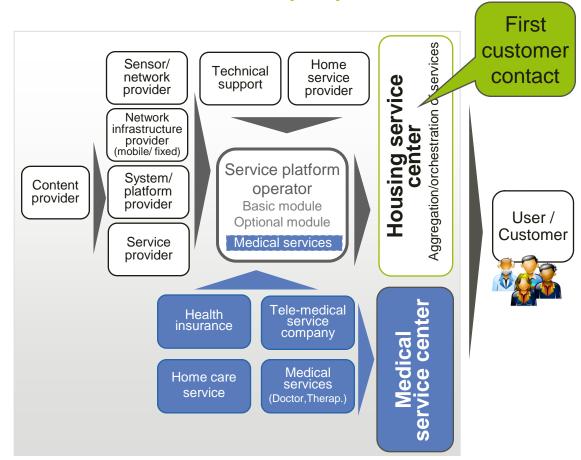
Where does he buy?



Business process and role model 1: Service orchestration managed by **platform provider** to enable a one-stop modular service.



Business process and role model 2: Business opportunity for **housing service centers** to enhance customer loyalty and embrace new customers.



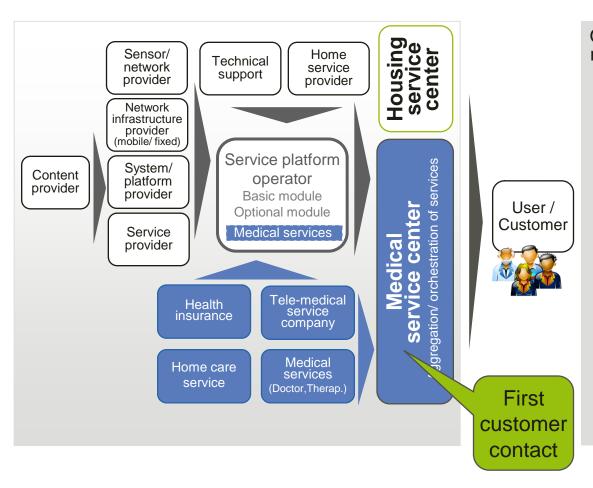
Opportunities and tasks for housing service centers:

- Benefit from direct customer contact
- Attractive service offering for renters
- Evaluation and selection of local service companies
- Overall responsibility (service orchestration, installation, maintenance, instruction, billing etc.)
- Partnering / subcontracting recommended for service platform operation, technical support and for medical service provisioning

Medical Component



Business process and role model 3: **Medical service centers** can use their patient contacts to extend their business models.



Opportunities and tasks for medical service centers:

- Benefit from direct customer contact
- Home care service provisioning as entry point for AAL services
- Monitoring and support of daily demands of / care for older persons
- Focus on enhancing independence and safety through technology support (i.e. sensor and vital data monitoring)
- Overall responsibility
- Partnering / subcontracting suggested

Medical Component



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Summary. Service Orchestrator depending on sales approach as a promising business role.



- Standardized and modular service concept for wide-area offerings including local or regional customization.
- Challenge: Regional presence with direct and personal contact to customers is indispensable for business success.
- Mediator between customer needs and service providers with good local presence.
- Basic infrastructure for future senior AAL services enable service offerings for comfort, security and safety at home.
- Ensures daily care and monitoring of seniors.
- Technical services in the seniors' environments make home care more efficient → potential for cost sharing.
- Enabling the link between medical and housing services.





Questions & Discussion.

Further information: www.smart-senior.de

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