

What Drives AAL-Markets and How Will they Evolve

AAL Forum

Bucharest I September 9-10th 2014



What Drives AAL-Markets and How Will they Evolve

disclosure

speaker is the CEO of PI&PI, an independent European firm

serves in different company board among other AALJP (Ambient Assisted Living Joint Programme, EU funded and backed)



size and age counts



\$1400B 2020

meddev



\$300B 2018

HCIT



\$50B 2014









market, growth, IP, competition







market, growth, IP, competition



investments, profit







market, growth, IP, profit, competition



investments, profit



reimbursement



AAL what market?



- is there a market with unmet needs?
- how big?
- who pays, will pay?

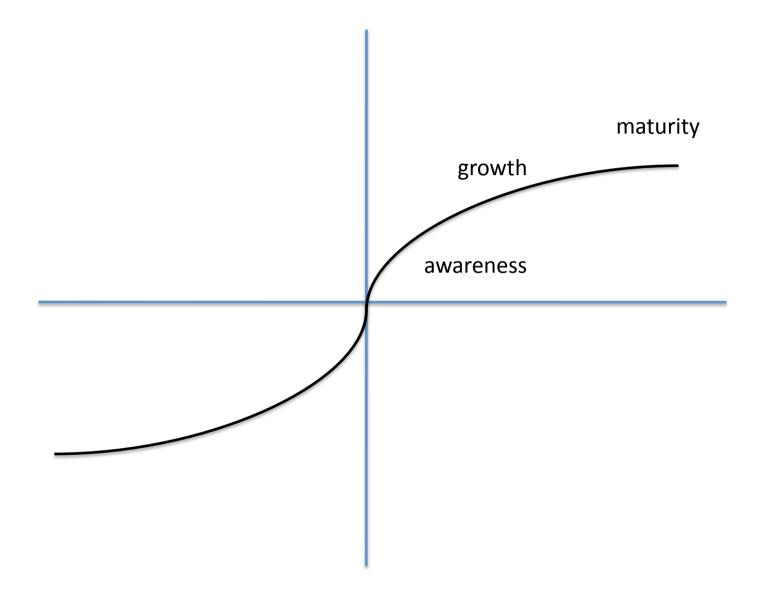


- how to protect and deploy (IP, strategic alliance, growth adoption rate)
- business plan to attract investment

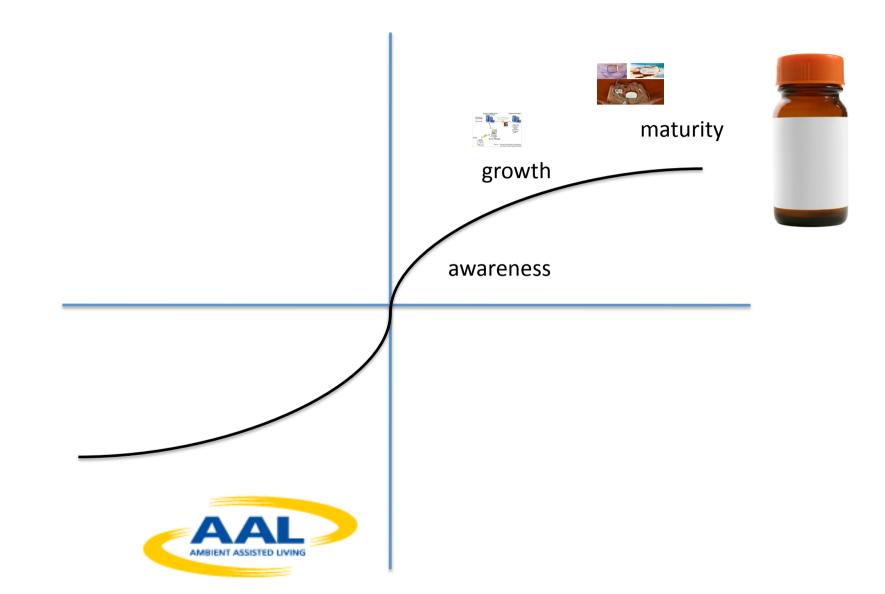


AAL life cycle market maturity and awareness frailty status of people | patients



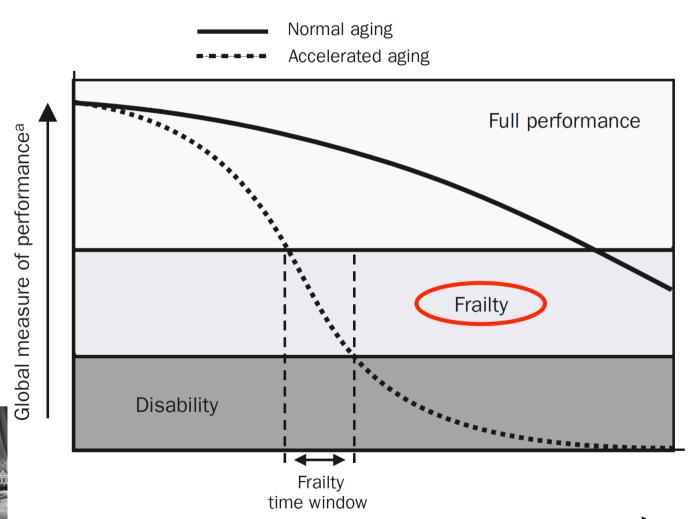








trajectories of health and functioning

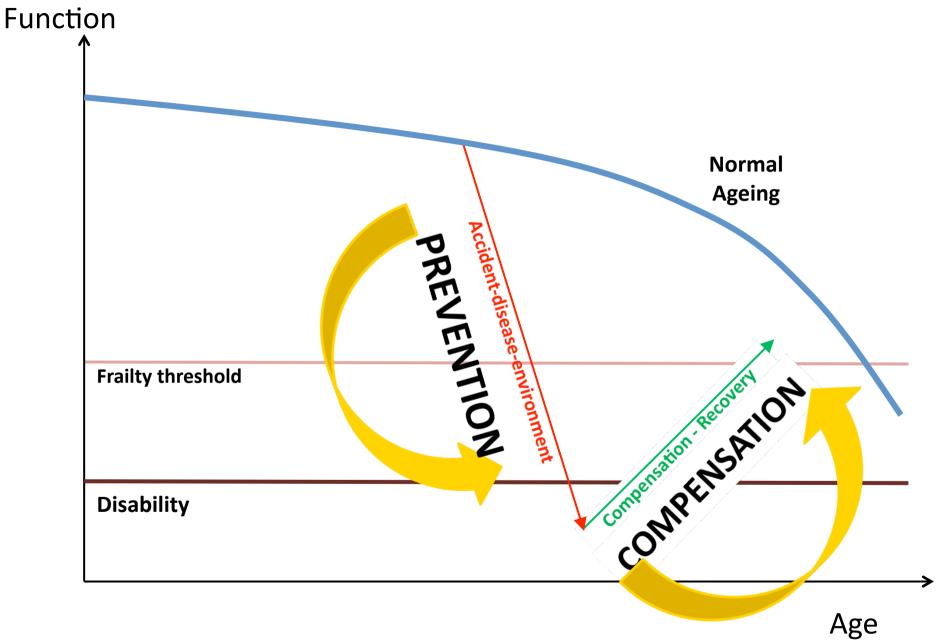


Time (age)

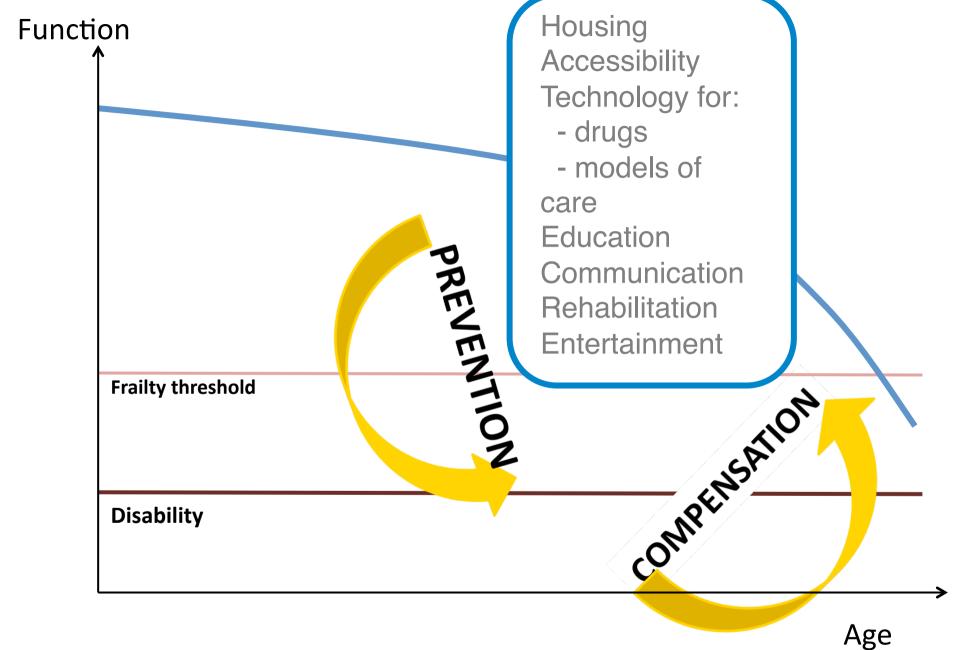






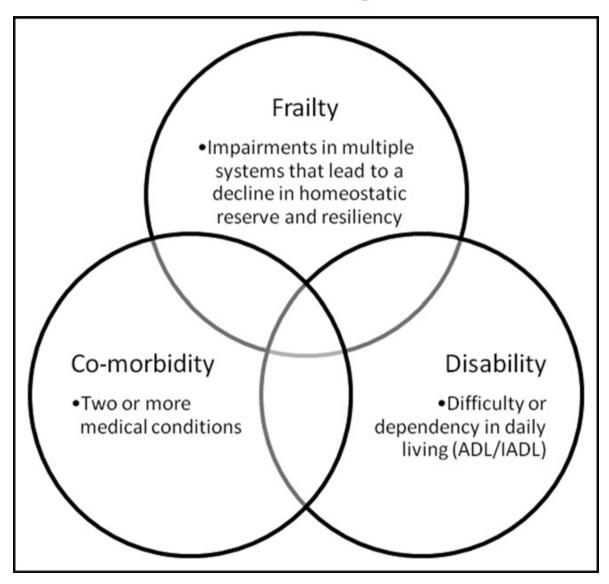








Frailty





Everyday Technologies



Accessibility



Domotics







NEEDS: Prevention of disability

Technology contribution





Exercise and Entertainment

Adapted to the elderly





WW trends

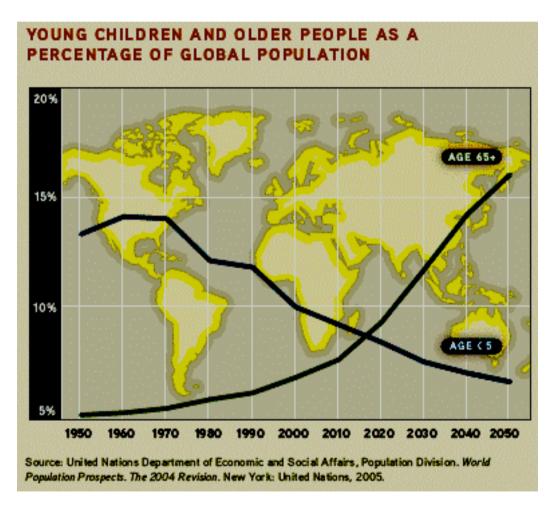


an aging population

500 M > 65 years

or

8% of population

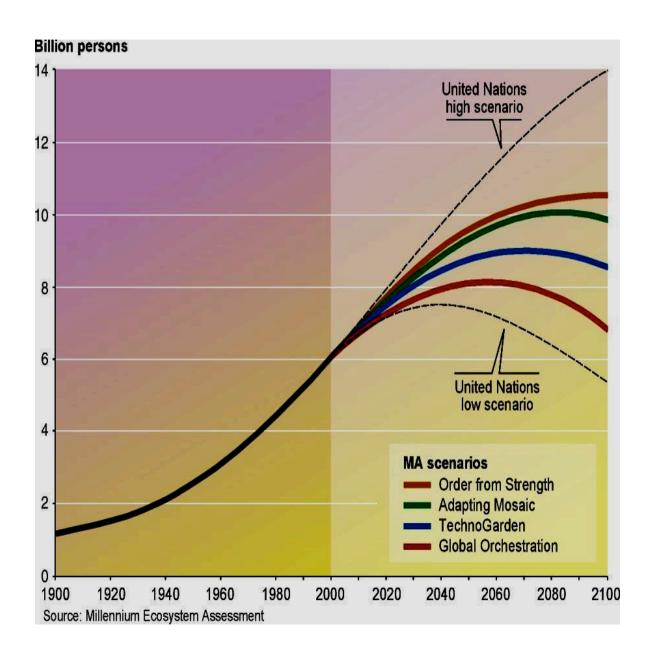




aging and population decline

Rusia to shrink by 18 Mh or 13% 2006 – 2030

20 countries 1Mh Japan, Germany, Italy





changing family structure

- as people live longer and have fewer children, family structures are transformed
- this has important implications in terms of providing care to older people
- in countries with very low birth rates, future generations will have few if any siblings
- thus people will have less familial care and support as they age





shifting patterns of work & retirement

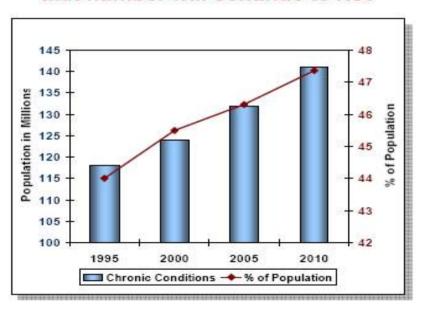
- no set of issues has stimulated public discourse about population aging more than work, retirement, and economic security in old age
- shrinking ratios of workers to pensioners
- policymakers struggle with the balance between public and private income security systems
- in 1960, men on average could expect to spend 46 years in the workforce and a little more than one year in retirement. By 2014, the number of years in the workforce had decreased to 35 while the number of years in retirement had jumped to 20 plus





growing burden of chronic diseases

More than 130 million Americans suffer from chronic conditions; that number will continue to rise



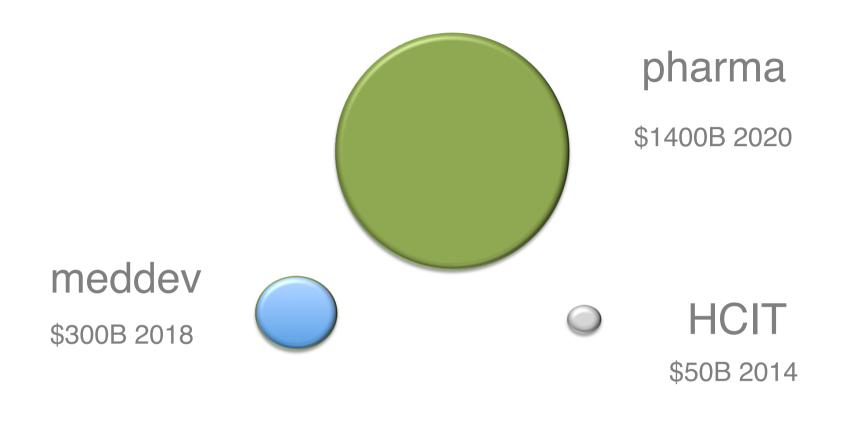
Chronic Condition	Prevalence U.S. Population	Annual Cost
Diabetes	20.8M	■ \$132B
		 11M lost work days
Heart Disease	60M	• \$277B
		 5.9M lost work days
Asthma	30M	• \$14B
		6.3M lost work days
		 14M lost school days
Depression	21M	• \$43B
	100000	 13.2M lost work days
		 \$30B in lost productivity

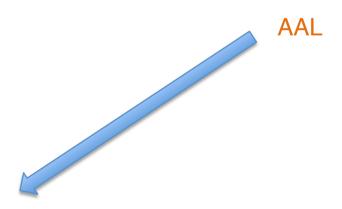


and on top

healthcare expenditure is up









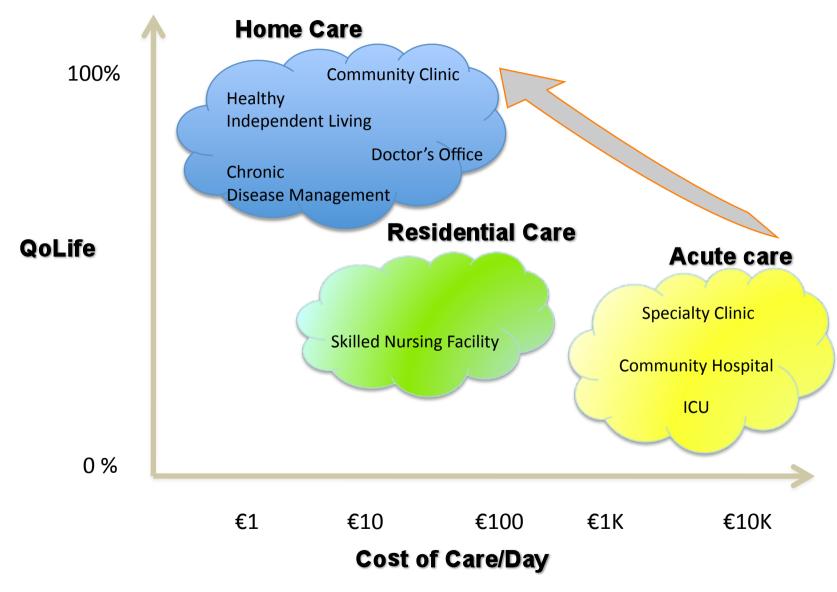
EU macro picture

demographics
low economic growth
public debt



what to do







transformation of care

The transformation of care in the home is required to address demographic changes



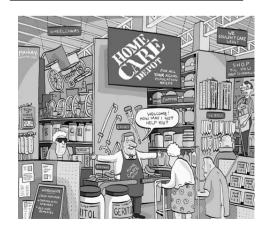
Inpatient

Inpatient care is care given to a patient admitted to a hospital, extended care facility, nursing home or other facility.

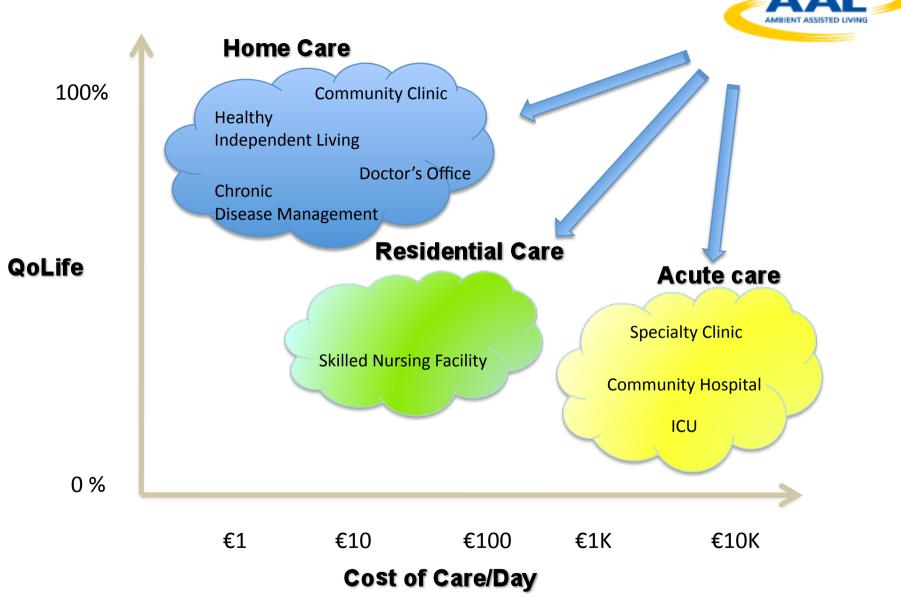
Outpatient

Outpatient care is any health care service provided to a patient who is not admitted to a facility. Outpatient care may be provided in a doctor's office, clinic, or hospital outpatient department.

Home









ICT | AAL =

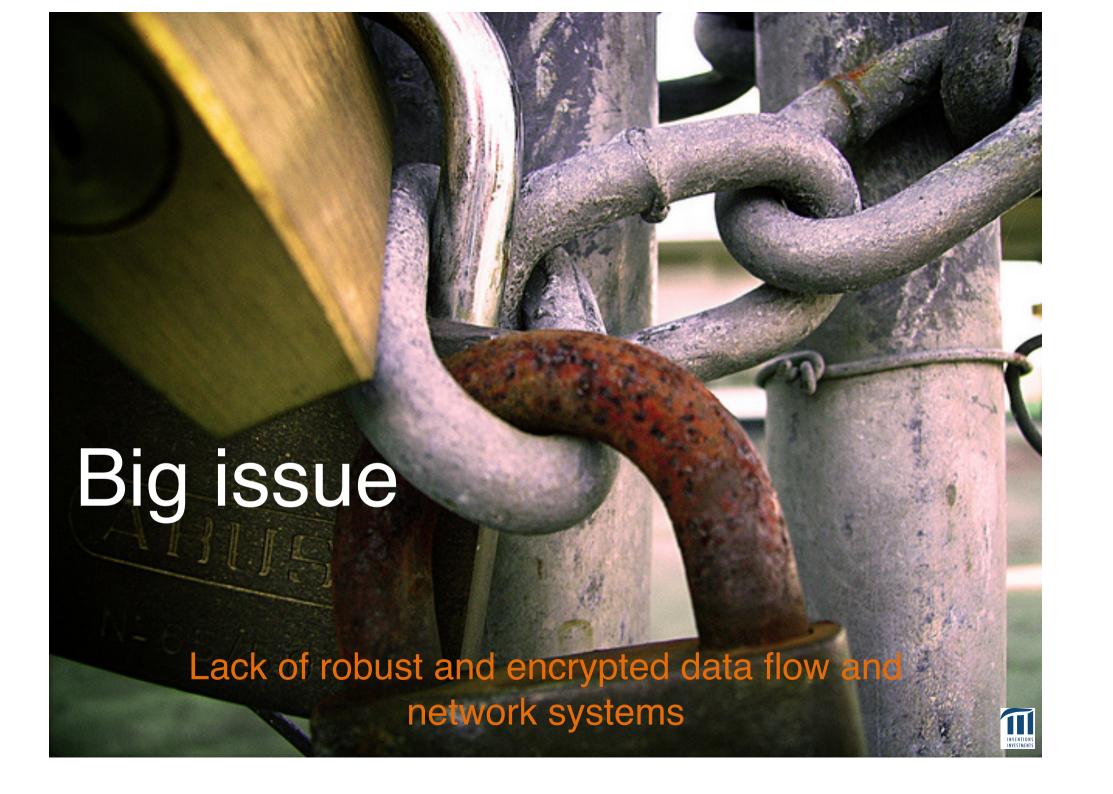
social networking?
mobile telephone?
sensors and gadgets?



ICT | AAL =

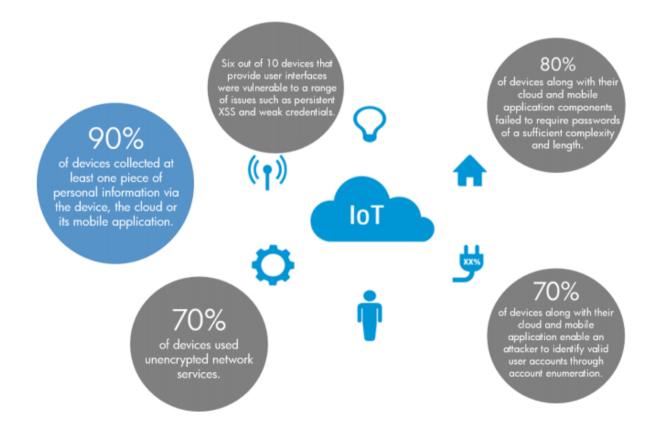
apps market
tele-health
prevention
services
monitoring





IoT by 2020 **20B**

Research Findings





New comers

Google
Amazon
Apple
Microsoft



take away



two broad options

(different speed I success probability)

create the market

jump into an existing moving wagon and build the bridge



AAL projects to bridge I complement pharma and meddev markets



B2C & B2B

Startups should simultaneously address both consumer-facing and business-to-business models





Thank you

juancarlos.castrosin@piypi.com

