



eCAALYX is founder by the European commission and the Ambient Assisted Living Joint Programme.







eCAALYX origin:

CAALYX- Complete Ambient Assisted Living Experiment

FP6 Project, IST, elnclusion . AAL for the Ageing Society

Start date: January 2007
Duration: 24 months
Budget: ~3 Million Euro
Grant: 1,85 Million Euro











Older people's autonomy and selfconfidence can be greatly increased by wearing a light device that can measure vital signs, detect falls, and automatically raise an alert to their care centre in case of an emergency



<u><u>eCAALYX</u> Enhanced Complete Ambient</u> **Assisted Living Experiment**





CAALYX:





Home System

Relatives



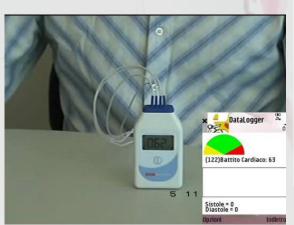




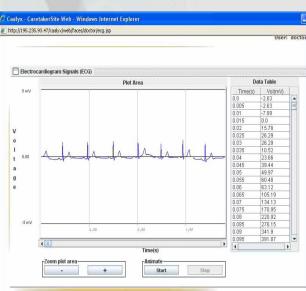
CAALYX' system considered 3 main areas of contribution:

- The RoamingMonitoring System,
- The Home Monitoring System,
- The Central Care
 Service and Monitoring
 System.











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AAL Call 1

Start date: 1 May 2009
Duration: 36 months
Budget: 4,2 Million Euro
Grant: 2,6 Million Euro



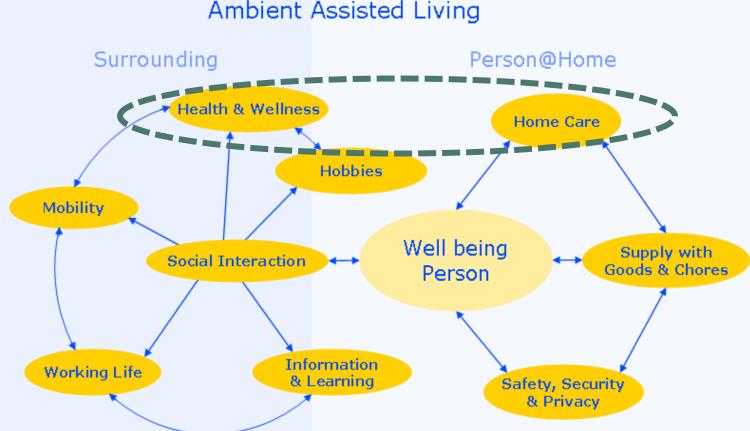








The Ambient Assisted Living Joint Programme (art.169 of the UE treaty)







A chronic problem...

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Last Updated: Wednesday, 20 June 2007, 05:45 GMT 06:45 UK

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NHS chief warns over chronic care

Fundamental change is necessary to deal with a rise in chronic conditions, the head of the NHS in Wales has warned.

A third of adults in Wales suffer from at least one chronic condition - those which cannot be cured - such as arthritis, diabetes or cystic fibrosis.



The number of people with chronic conditions is set to rise

Page last updated at 06:41 GMT, Thursday, 4 December 2008

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Chronic care need 'unsustainable'

The estimated 800,000 people in Wales with long-term illness put an "unsustainable" demand on hospitals, says the public finance watchdog.

Unless we find ways to prevent or treat these conditions, the strain on society and its infrastructure will reach breaking point

Page last updated at 00:11 GMT, Tuesday, 13 January 2009

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Chronically ill elderly 'to rise'

The UK's ageing population is set to cause a huge rise in the number of older people living with long-term illnesses, campaigners have said.

Help the Aged says that by 2025 there will be a big increase in the number of over-65s with heart disease, osteoporosis and dementia.



Help the Aged has estimated future levels of ill health among the elderly

It warned this could stretch the NHS to breaking point and called for more research into these conditions.







... and an effective solution!

eCAALYX will develop a complete health management solution that will improve the quality of life for elderly patients with co-morbidity. A simple to use electronic assessment process will identify the health risks of elderly patients, an education program will be developed that will promote the patients well being so they enjoy a healthy independent lifestyle comfortably at home. The system will monitor the patient's condition and activities throughout the day, giving helpful reminders such as when to contact their doctor for a consultation, when their favorite exercise program is available and when they need to take their medication.











Cetemmsa



Telefónica I+D



INESC Porto



U Limerick



NUI Galway



Corscience



FHC Sant Antoni ABAT



Fraunhofer AICOS



TeleMedic Systems



EV Krankenhaus



Uo Plymouth Enterprise



























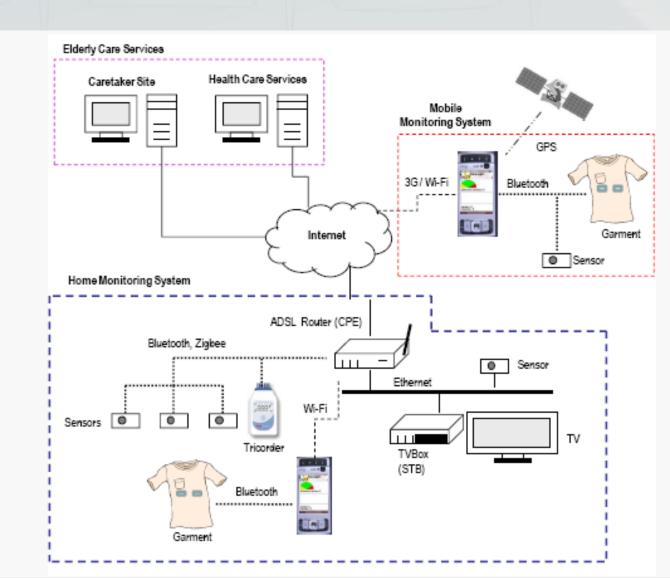






eCAALYX system:











Selected Highlights:

-Tricorder: combines the most relevant sensors for monitoring the prevalent chronic conditions and health risks.









-Smart garments:

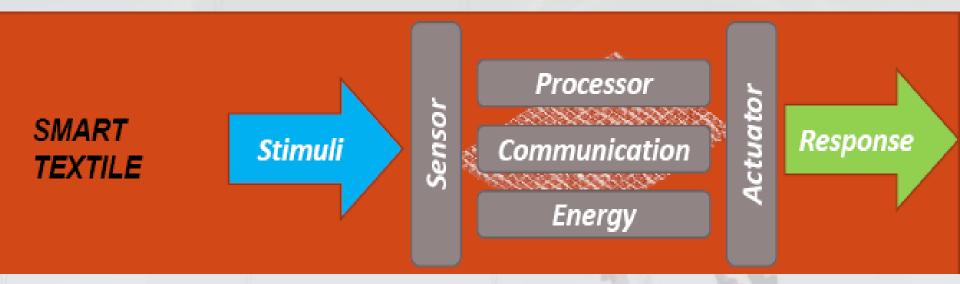
Using conductive textile materials, a comfortable garment will be developed for improved user acceptance and will have conductive areas that can, for example, function as heart rate/ECG electrodes when in contact with the skin.

















I by Cetemmsa What is a Smart Textile?

Electrode sensors



- Heart Rate Monitoring
- Electrocardiography
- Electromiography



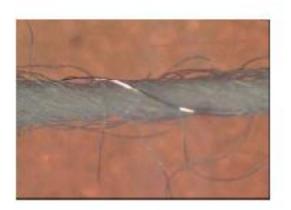


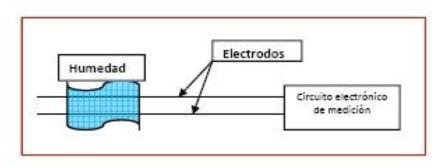




Temperature and humidity sensors What is a Smart Textile?















T°C and heart rate sensors integrated in a baby's pyjama, data transmission via blutooth, all developped in Cetemmsa





Pressure sensors
Capacitive Resistive





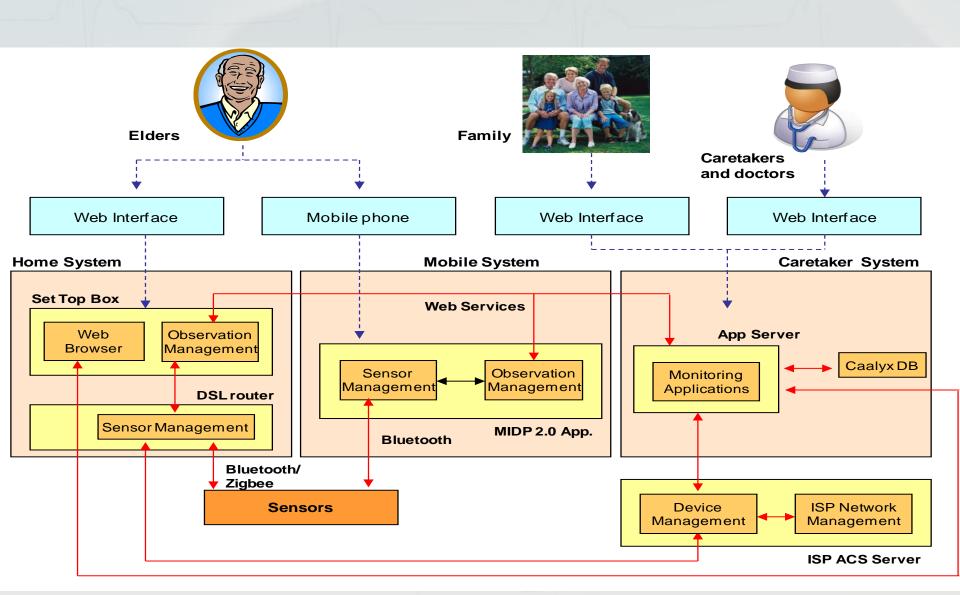






























http://ecaalyx.org