

A Chronic Problem...

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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

”

Dr Lorna Layward
Help the Aged

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.

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



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

And an Effective Solution!

eCAALYX *enhanced Complete Ambient
Assisted Living Experiment*



eCAALYX provides a complete solution to improve the quality of life of elderly patients in such situation, by monitoring their health condition, assessing their health risk, promptly detecting and controlling any decompensation episodes, and offering them focused education on leading a healthy lifestyle, **so that their independent life at home can be extended and their hospitalisation or admission in nursing homes are avoided for longer periods.**

<http://ecaalyx.org/>

Objectives

Health monitoring of older and elderly persons with multiple chronic conditions, at home and on the move.

Improve the quality of life of elderly persons by increasing their freedom and safety.

Prevent deterioration of the patient condition by providing continuous support, guidance, and health education.

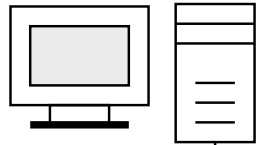
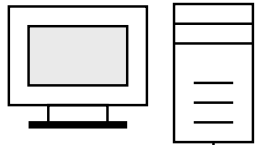
Do so by providing a solution that is **commercially viable, reliable, long-term, acceptable by all users/stakeholders and virtually maintenance-free in non-technical environments, thus suitable for real-world deployment.**

Elderly Care Services



Caretaker Site

Health Care Services



Internet

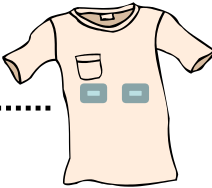
Mobile Monitoring System

3G / Wi-Fi

GPS

Bluetooth

Garment



Sensor

Home Monitoring System

ADSL Router (CPE)

Bluetooth, Zigbee

Ethernet

Sensor

Wi-Fi

TVBox (STB)

TV

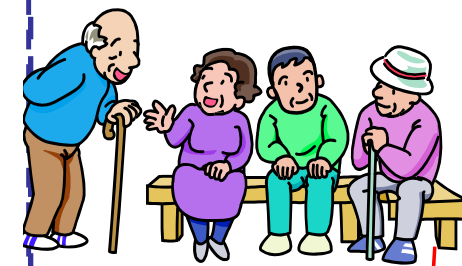
Sensors

Tricorder

Bluetooth

Garment

- Smart garments
- Tricorder (a la Star Trek)



- **Selected Highlights:**

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



Tricorder

- **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 (electrocardiogram) electrodes when in contact with the skin.



Garment

eCAALYX *enhanced Complete Ambient Assisted Living Experiment*



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<http://www.aal-europe.eu/>

- June 2009 – May 2012

- Partners:



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