

ICT & EU as a Bio Zone

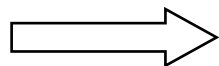
European Parliament
Jorgo Chatzimarkakis

Presentation
Brussels, 12.02.2007



Conditions:

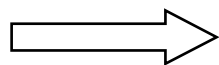
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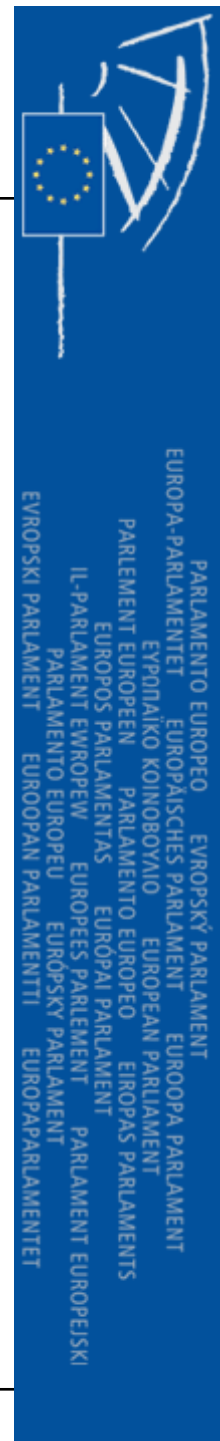
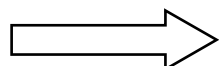
EU - Competence
e.g. Public Health via Info
Campaign



The four P's:
Productivity, Personalisation,
Prevention, Prediction

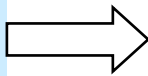


Information =
Precondition of prevention &
prediction
⇒ Cost containment
⇒ EU most productive area?





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How can ICT help?

- Certified Information (via WEB), **ITP**
- Transparency (via health card)
- Support to health status of each citizen

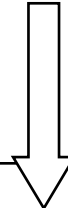
Vernetzungsmöglichkeiten in der Behandlungssituation

www.die-gesundheitskarte.de Bundesministerium für Gesundheit Kartengrafik: gematik GmbH

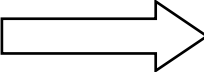


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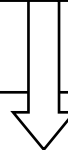




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- How can ICT help?
- Emergency (via digital data set)
 - Remote Treatment - Telecare (via digital infrastructure)
 - Efficiency (e.g. RFID)
 - Compliance (innovation, e.g. weekly blisters)
 - Empowerment of patients (Personal Health system)



Personal Health Systems - PHS

A relatively recent concept

Introduced in the 1990s

Place the individual citizen in the centre of the healthcare delivery process

Key facilitators for:

Continuity of care

Preventive & personalised care

Citizen-centred care

- citizen empowerment
- preventive lifestyle & early diagnosis
- disease management
- independent living for ageing society



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Personal Health Systems

Benefits for all:

- Health conscious who wish to stay fit
- Healthy individuals at risk who wish to maintain normal health status
- Chronically ill patients
- Elderly persons or people in need, who want to live independently outside care institutions
- Improving the quality of care
 - provision of personalised care (according to the detected individual circumstances of a patient)
- Containing the rising healthcare costs
 - through proper & efficient use of technological capabilities



Prototype PHS for monitoring

Examples

Wrist-worn devices

Body Sensor Networks

Biomedical clothes

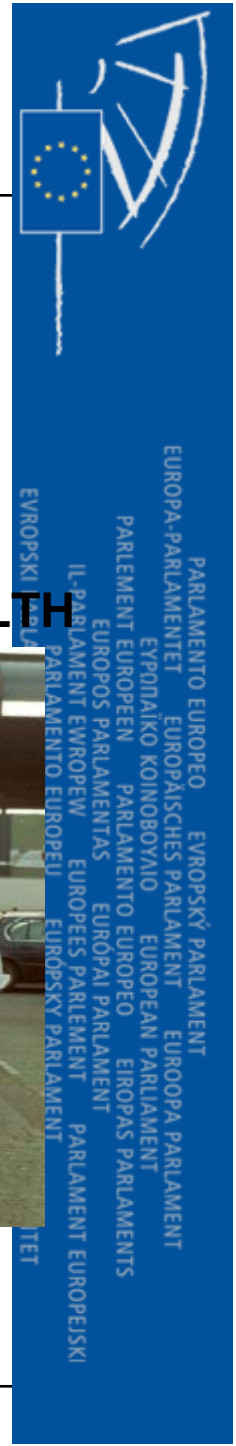
MYHEART



AMON

WEALTHY

MOBIHEALTH



Compliance through weekly blisters



The physician issues the prescription

- based on assist Pharma's range
- 400 different pharmaceuticals
In solid oral form
- physician indicates dosage

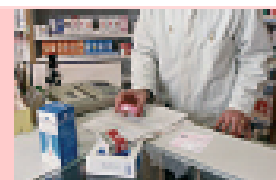


The patient takes all prescriptions to the local pharmacy



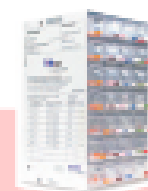
The pharmacy registers the prescriptions

- checks for interactions and double prescriptions
- separates solid oral and other forms
- manages remaining quantities using the assist Pharma software



The pharmacy transmits the prescription data to assist Pharma

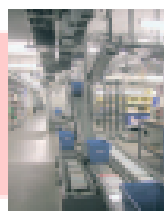
- specifications for solid oral forms only



assist Pharma produces the weekly blister individually for each patient

assist Pharma invoices the pharmacy only for the tablets actually delivered

- the pharmacy does the billing with the health insurance company



The pharmacy changes the content of the delivered weekly blister

- only if required by the physician



The pharmacy delivers the weekly blister to the patient every week

- pickup by the patient at the pharmacy
- delivery to the patient
- delivery to the mobile nursing service
- delivery to the nursing home



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