Building a Smarter Health and Wellness Future OECD/NSF Washington 2011

Citizens Centered Health Information: A view from Portugal

Constantino Sakellarides February, 2011

Health and digital literacy workshop - Diabetes association of Barreiro, Portugal



Personal health information systems: Portuguese experience I

A SMALL SCALE EXPERIMENT

(2007-2009)

With a personal health information system

Diabetics Association in Barreiro (a town, across the

Tagus river from Lisbon) with approximately 1050

members

- 500 active ones
- 50 participated in the experiment (age 40 to 80; low

socioeconomic condition)



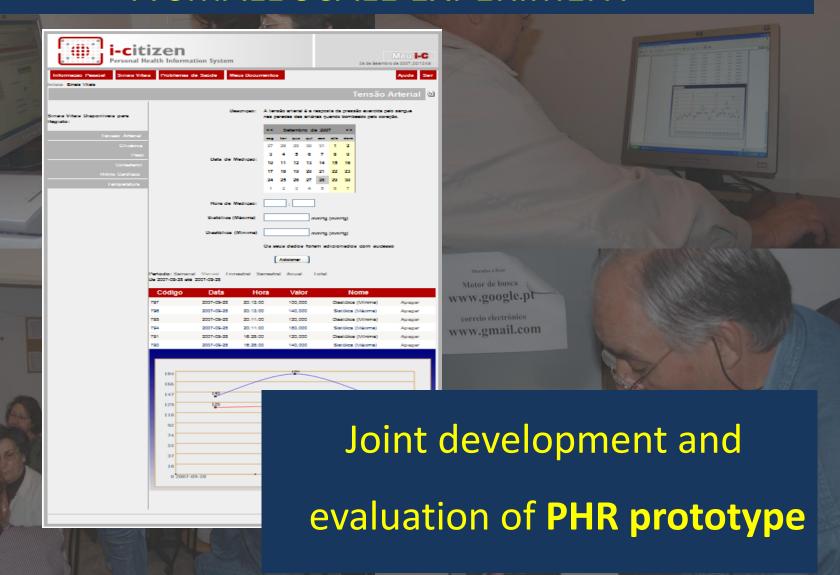
www.google.pt

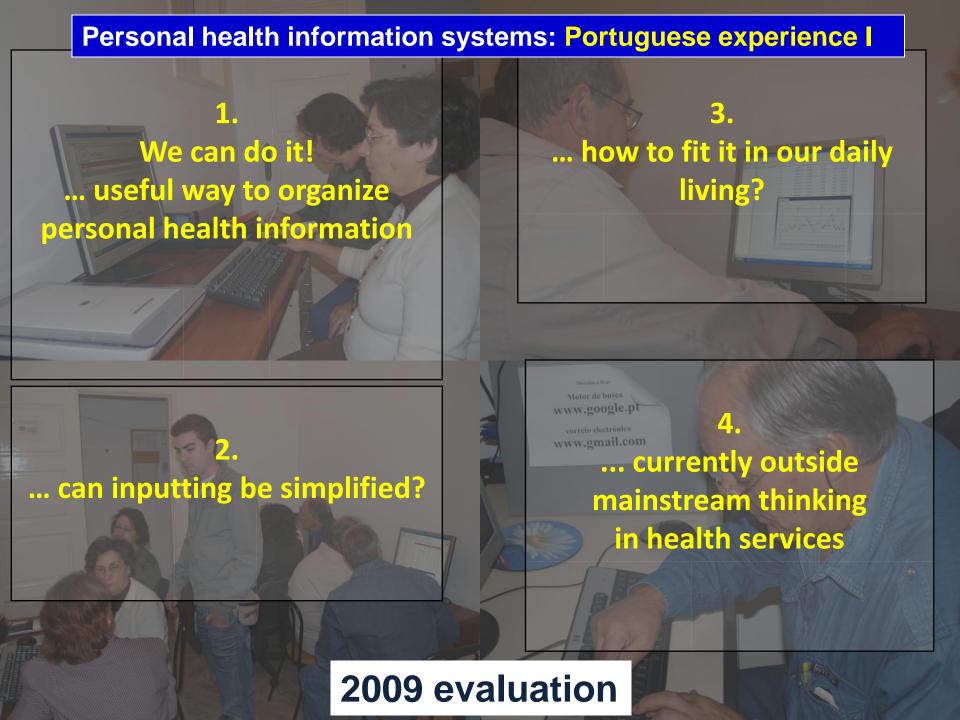
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Personal health information systems: Portuguese experience I

A SMALL SCALE EXPERIMENT





Personal health information systems: Portuguese experience II

From a small scale experiment

To a large scale implementation and evaluation program

A partnership between Portuguese Telecom (PT) and the N School of PH



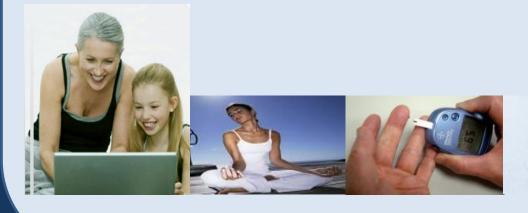


Escola Nacional de Saúde Pública
Universidade Nova de Lisboa

Portugal Telecom

MEU Sapo Saúde

Personal Health Information System











Personal Health Information Systems

MEU. SAPO. SAUDE





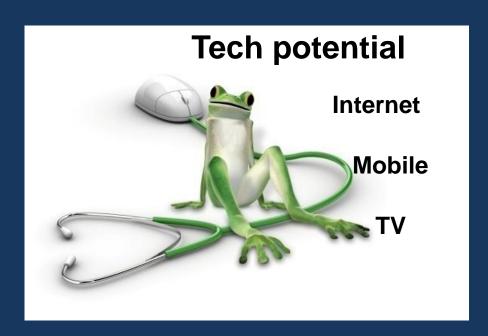






Personal Health Information Systems

MEU. SAPO.SAUDE



Expanding/promoting utilization – next step

PT h. services = 100.000 NHS phc = 100.000 Diabetes Ass = 1.000









Personal health information systems: main objectives

EMPOWERMENT

Repositioning citizens in the health system

HEALTH LITERACY

Using information intelligently in day-to-day health related decisions

COMMUNICATION

Interacting with others

INFORMATION MANAGEMENT

Capturing, annotating, storing and processing data and information

INFORMATION and HEALTH PROTECTION

Ensuring readability and information transfer

Adapted from: Sakellarides, C, Pedro, AR. Mendes, MS. Knowledge-centered health innovation - The case for citizen health information systems, 2009







Promoting health literacy through Personal health information systems

Development strategy in "unprepared" environment: 8 complementary approaches?

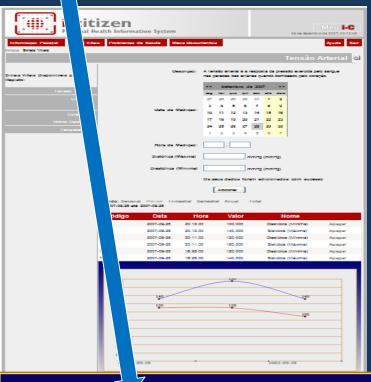




1. Linking with EHR

Electronic health records across all NHS services 2009-2012 project

Citizen centered information Professional managed information



Early pilot proposed

Personal health information system

Citizen centered and managed health information

Personal health information systems structure

Personal and family health

Self - recording

Self - measurement

Self – management

Health care

Import/export health care information

Information exchange with health care providers, caregivers, family

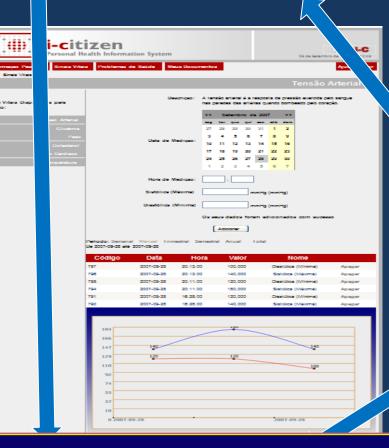
Support systems

1. Linking with EHR

Opportunity: makes sense – right timing Limitations: hierarchical view: providers first

2. Knowledge support and evaluative research

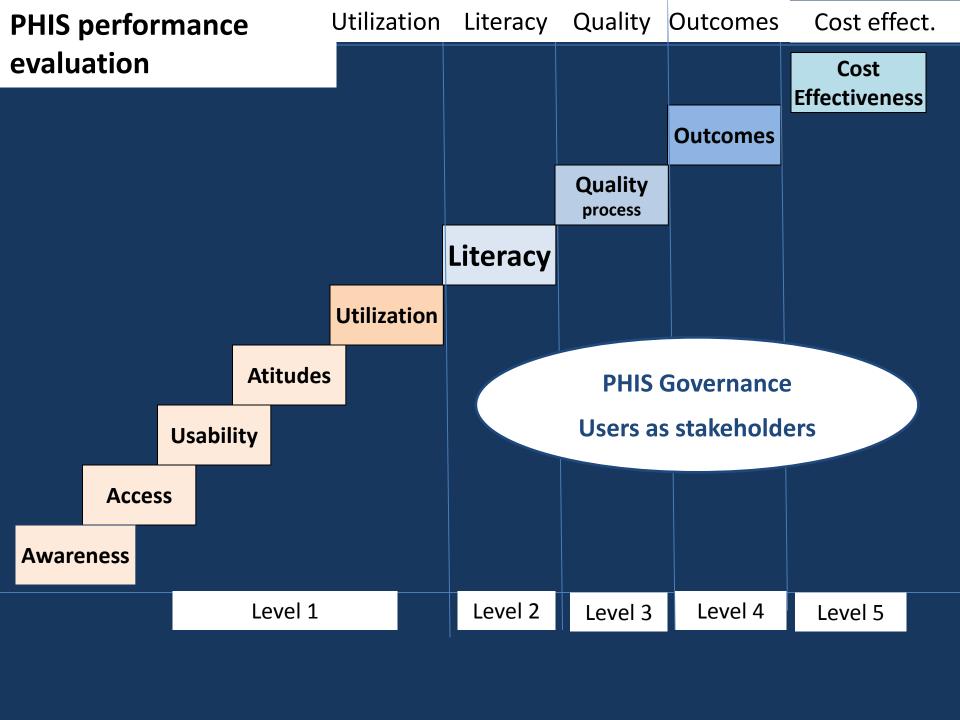
Electronic health records Citizen centered information Professional managed information



Personal health information system

Citizen centered and managed health information



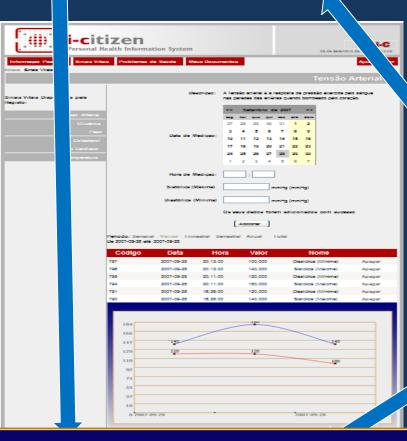


2. Knowledge support and evaluative research

Opportunity: need recognized Limitations: too many opportunistic impulses – funding difficulties

3. Participatory innovation and shared ownership

Electronic health records Citizen centered information Professional managed information



Personal health information system

Citizen centered and managed health information



3. Participatory innovation and shared ownership

Opportunity: broaden social base Limitation: corporate culture not yet attuned

4. Emphasis on customization ... starting with the patient

2. Information export/import communication capacities

1. Basic Module (display, reminder systems)

Basic problem list

Selected health monitoring: weight, blood pressure, and others

Diagnostic tests results (Eye and dental records)

Medicines in use; immunization

Allergies and other emergency information (break-the-glass rules)

- 3.1 Organize personally relevant information Heath services navigation
- 3.2 organize personally relevant information Social, behavioral, environ. health determinants
- **3.3** Organize personally relevant information **Biomedical determinants**

2. Information export/import communication capacities

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9. Personal health management Advanced problem list

Personal health and heath care program

8. Personal health statements

Living will and advanced orientations; Organ donation authorization; Permission, consent forms

6. Choice and voice opportunities

7. Health risk profile

4. Financing and payment information: Regular mandatory contribution

Private insurance; Direct payments

3.1 Organize personally relevant information Heath services navigation

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3.3 Organize personally relevant information Biomedical determinants

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4. Emphasis on customization

Opportunity: adaptation to complexity and personalized health information Limitation: not seen as an "early" issue

5. Community and public health support

Local Health Strategies

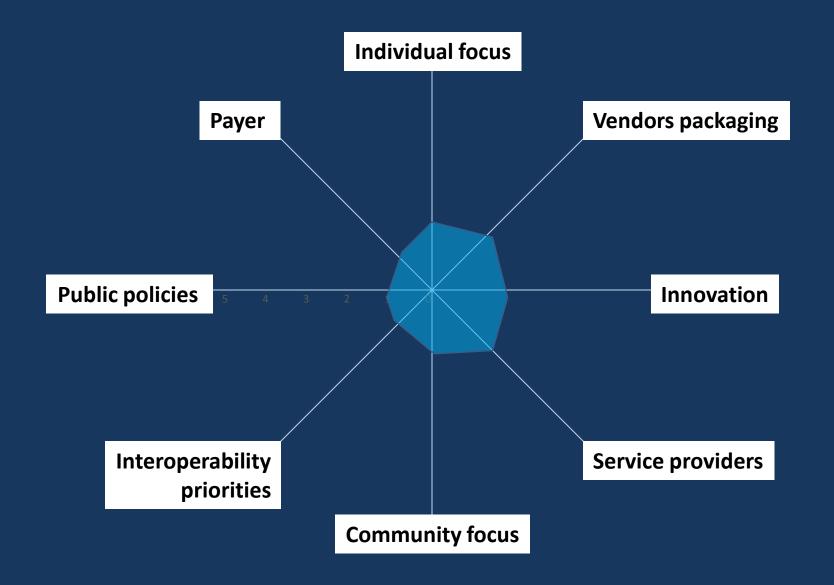


5. Community and public health support

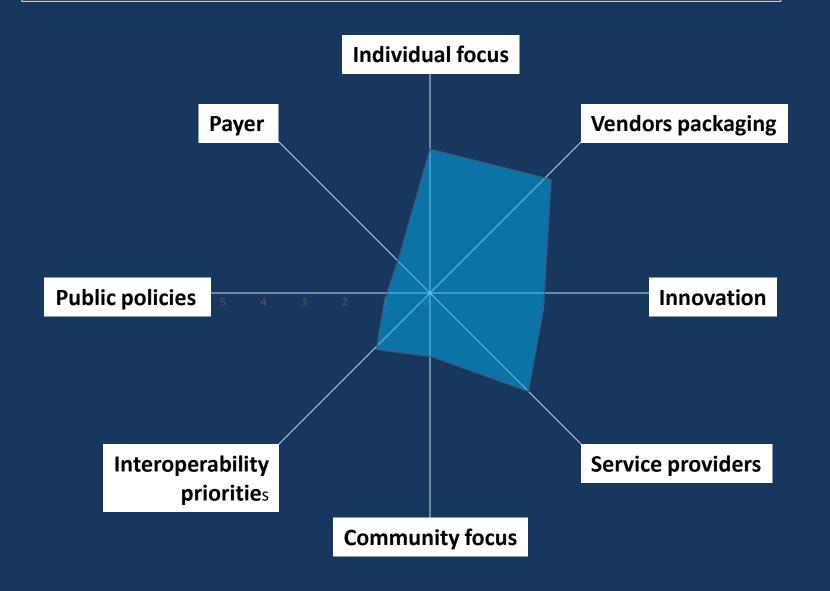
Opportunity: broad community involvement – focus on outcomes, local partnerships and communication strategies
Limitations: early development stage

6. Health information governance

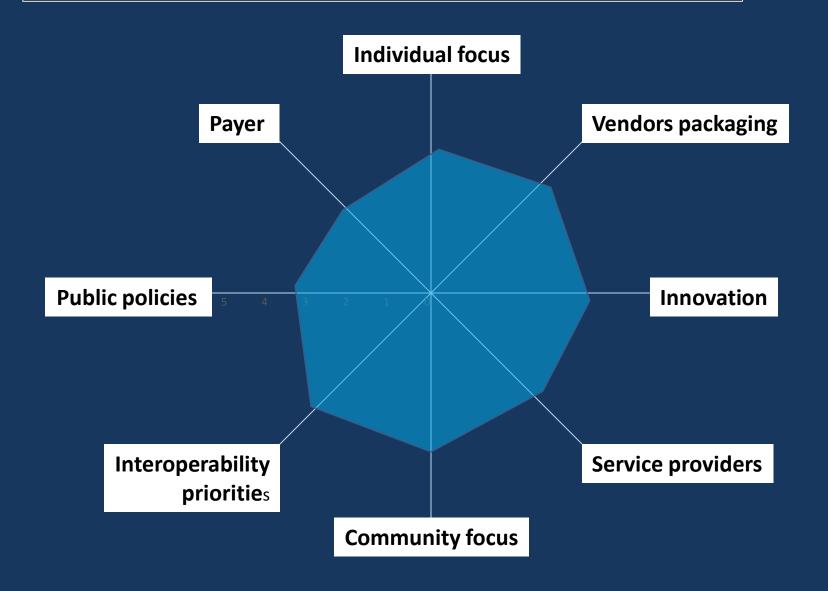
Governance: Defensive scenario



Governance: Unbalanced development scenario



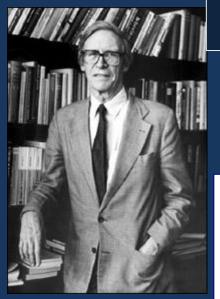
Governance: Balanced development scenario



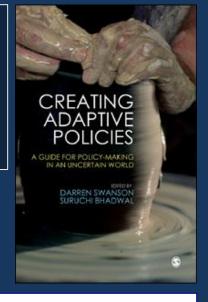
6. Health information governance

Opportunity: need of an overview Limitation: no clear locus for governance debate

7. New "social contract"



Health literacy and empowerment as critical elements of a new social contract for health Systems and micro level



Institutionalism

John Rawls **Theory of Justice** (1971) "The justification and prescription of perfectly just institutions"



Engaged deliberative incrementalism

Amartya Sen **The Idea of Justice** 2009 Dynamic "agreements based on public reasoning on ranking alternatives that can be realized"

7. New "social contract"

Opportunity: intellectual challenge for a crises period Limitations: small constituency too close to "politics"

8. International cooperation

The NEW ENGLAND JOURNAL of MEDICINE 2008

Tectonic Shifts in the Health Information Economy Mandl, K, Kohane, I.

Join the Boston CH, Harvard, MIT INDIVO family

8. International cooperation

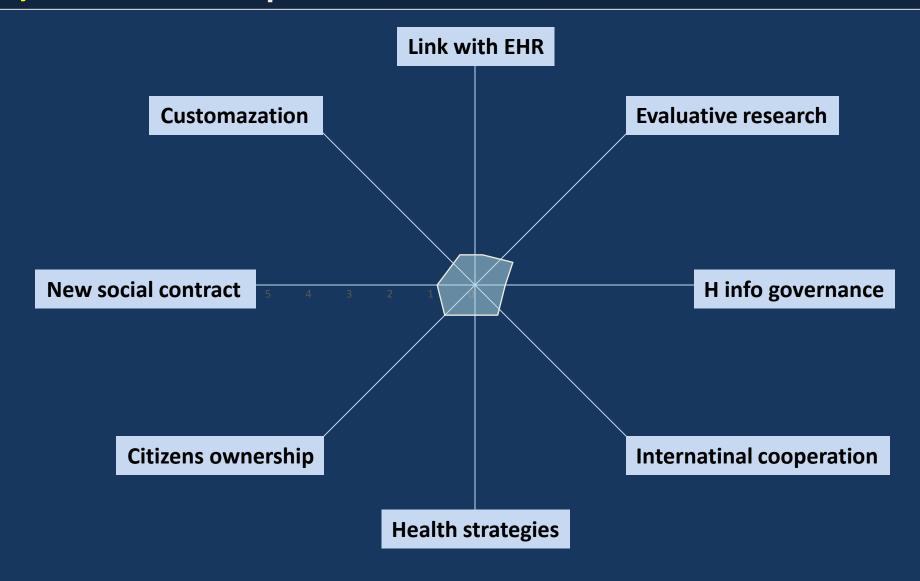
Opportunity: Learn, adapt, exchange

Limitations: ..."too soon for us"

Promoting health literacy through Personal health information systems

Development strategy – a summary

Promoting health literacy through Personal health information systems - Next step?



Promoting health literacy through Personal health information systems - Next steps?

