Testing the FRR prototype system in **URB** Athens – including report about sequence of testing and used material

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ΕΘΝΙΚΟΝ & ΚΑΠΟΔΙΣΤΡΙΑΚΟΝ

ΠΑΝΕΠΙΣΤΗΜΙΟΝ ΑΘΗΝΩ

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FRR prototype Tests

EPT (Engineering ProtoType) tests (February 2003)

APT: Alpha ProtoType tests (September 2003)

BPT: Beta ProtoType tests (June 2004)

PPPT: PreProduction ProtoType tests (December 2004-February 2005)



EPT in URB Athens



EPT components:

- Common toilet seat
- 2 horizontal grip bars
- moving <u>†</u> toilet bowl
- moving 🗼 washbasin
- full functioning toilet
- in a smaller than required room

Number of users: 8



APT in URB Athens

Number of users: 9



APT components:

- Basic Lift WC
- Mounting grid for toilet seat designs
- -3 different toilet seats "Basic", "Flexible" and "Transfer"
- horizontal grab bars
- movement control





"Transfer" seat

"Flexible" seat

"Basic" seat





BPT components

Number of users: 10

The BPT components we have tested in URB Athens are the following: 1) Toilet seat and transfer seat 2) Horizontal grip bars 3) Wall mounted body support bar 4) Waste container(s) 5) Accessibility sign 6) The user interface











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Accessibility Sign



1

Door with circular symbol

Is intended to indicate the

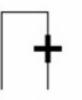
ID function of the system



Door with equality symbol

Is intended to indicate the

equality of all users



Door with plus symbol

Is intended to show the extra

service the system offers



4 Door with remote control symbol

Is intended to show that the system is operated via remote ID





5 6 Door with remote communication symbol ID card with remote control symbol

Is intended to show that the system is operated via remote ID Is intended to show that the system is operated via remote ID 7 Door with EU-stars

Is intended to show that the system is equal in the whole of EU

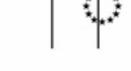


8 Door with 3 stars

Is intended to show that the system is a 'three-star' service system



QLRT-2001-00458



PPPT components

Number of users: 22 primary **11 secondary**



PPPT

The PPPT components we have tested in URB Athens are the Following:

1) Toilet seat and transfer seat 2) Vertical grip bars 3) Wall mounted body support bar 4) Accessibility sign 5) Toilet room 6) Storage place



Wall mounted body support bar

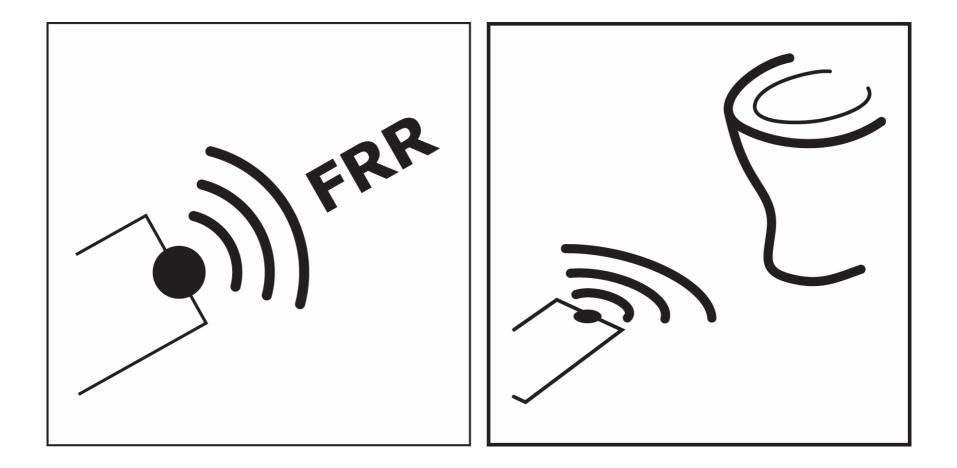
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Accessibility Sign







Tests persons recruitment

-Primary users:

Elderly people from KAPI (Centres for Older People) or from the researchers' corresponding milieu

Disabled people with movement difficulties

-Secondary users:

Nurses **Occupational therapists Physiotherapists**



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Experiences of testing: Older People

The testing procedure was very interesting to all of the users.

The prototype seemed to be:

Interesting, with many features and very helpful Very innovative and up-to-date

but also,

Probably expensive Complicated to some users due to some difficulty in use "Too good to be true"



Experiences of testing: People with disabilities

The testing procedure was very interesting to most of the users

The prototype seemed to be:

New and innovative, very interesting, and useful to their needs

but

They needed more features to be provided when they used the prototype





Experiences of testing: Secondary users

The testing procedure was commended as demanding by the most of the secondary users

The prototype seemed to be:

New and innovative, very interesting, and useful to the needs of people who care for

but

They felt that it would be difficult for such device to be widely available





Experiences of the research team

• Working with people with different abilities

 Gaining knowledge about what test persons need, think and feel about their difficulties in daily life

 Managing difficulties during interaction with test persons and prototypes

• Working in a multidisciplinary group

•Collaborating successfully with other URBs from different scientific and cultures

