



LIVING LAB INNOVATIONS VOL. 3

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A Vision of Future Library



RFIDLab Finland in a Nutshell

- Non profit organization
- Neutral RFID information
- Supporting RFID industry growth
- Research & Development
- Demo room & Test Center activities
- RFID seminars, consulting and teaching
- 45 members (companies and organizations)
- Driven by GS1 Finland and Helsinki Metropolia University of Applied Sciences



Korkeakoulut ja tutkimus



Ohjelmistot ja integraatio



Laitteet ja sovellukset



Tunnistevalmistajat



Verkostokumppanit



Teleoperaattorit



Toteuttajajäsenet



Käynnistäjäjäsen



RFID Technology

- "Radio Frequency Identification"
- A wireless short-range communication technology
- Usually communication distances 0-10m depending on technology and devices
- Readers and tags
- Usually tags have no energy source (uses the radio waves also as power source)
- Logistics (item identification), access control (wireless keys), ticketing, libraries, etc.



RFID Compared to Barcodes

- Tags readable with no visual contact to items
- Long read distance
- Multiple-item access (many tags can be read in very short time)
- Possibility to store, read and change stored data in tags



Helmet Library Project

- A project about RFID implementation in Helmet and Metropolia libraries
- Helmet (Helsinki, Espoo, Vantaa, Kauniainen)
 - 75 libraries
 - 3.5 million items
 - 16 000 000 loaning transactions in 2008
- Metropolia: 14 libraries
- RFID would replace barcode technology
 - also enabling new operations and processes



RFID's Role in Library Functions

- FROM LIBRARIAN'S POINT OF VIEW
 - can make processes more efficient by
 - increasing self service
 - making inventory faster
 - making item search faster
 - improving logistics
 - ⇒ MORE TIME TO SERVICE CUSTOMERS
- FROM CUSTOMER'S POINT OF VIEW
 - can improve (faster, easier) existing self-service processes
 - loaning items in stacks
 - returning items in stacks



Living Lab Aspects in Library Project

- A workshop with employees from different Helmet libraries
 - Discussing current library situation, problems and (wild) ideas how RFID could be used in libraries
- Questionnaire to Metropolia students about library usage and their opinions and ideas relating to RFID technology in libraries
 - All ideas are welcome
- Library employees visit to RFID Lab Finland's Demo room
 - Gives employees real life examples what you can do RFID
 - => better possibilities to innovate and demand for new and innovative solutions from RFID system suppliers
- Collaboration in making of Helmet RFID Library project report
 - Some preliminary report material send to library employees
 - With help of the feedback we can drive the focus of the report to the right direction



New Medias

- Change towards electronic material
 - eBooks (of course a lot of books will remain in paper format)
 - CD/DVD => MP3, DivX, etc.

How will library still interest the customer if
"everything is the internet anyway"

- ⇒ Libraries will face a change
- ⇒ The product is not only a book, library has to have something more to attract people
 - => Better library experience
 - => Better services



Examples of Innovative Library Services

- Luvia library, Finland
 - Intelligent shelf
 - Book reviewing system
- D-Lab, Tokyo
 - Intelligent shelf
- DOK Library Concept Center, Netherlands
 - Intelligent touch panel desk

=> DEMO VIDEOS



Some Library Ideas & Service

- Ready made collection of a particular theme as a loanable item
 - for example a lord of the rings - items in a bag (book, DVD, soundtrack, etc)
=> More convenient way to loan, easy for busy people
- Provide new loanable items
 - Sports equipment, sewing machine, board games, you name it
- Make self-service stations without library employees
 - 24/7 library
- Loan e-books
 - ebook reader + content
 - Copying prevented in the reader



Some Library Ideas Relating to Space

Putting items in electronic format can give the library a lot of new space.

- "hang out"-lounges:
 - a semi-private space with a media station and comfortable furniture
=> watch movies, play board games, surf the net, study, just hang around, you name it
- Multi-use public spaces:
 - Plays, concerts, free speech, lectures, courses, exhibitions
=> generally give people a space to collaborate, share ideas and to express themselves
- Occupy some walls with big LCD screens:
 - Collaboration, idea sharing, basically (almost) anything goes
 - Also library's announcements in the screen

=> THE USERS HAVE A LOT INVOLVEMENT IN CREATING THE LIBRARY



Conclusions

- Future librarian: will have more emphasis on advising people how to search information and where
 - must be able to use modern techniques to find information
 - must also be interested in trends of information searching and sharing
- Future library: will eventually transform from the "SHHH! Be quiet"-type of place to 7
 - a more comfortable place (furniture, spaces)
 - a social space, a meeting point to people
 - continuously evolving place
- Future customer (community member): will have a bigger role in creating the library atmosphere



THANK YOU

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