The Flex-learn project: designing a mobile learning platform for truck drivers

Lisa Gjedde
Danish School of Education
Aarhus University



The FlexLearn project: Mobile learning for truckdrivers

- Convergence of tools and learning resources



The Flex-learn project goals

- Learningplatform dual 3G mobile/PC
- LMS system gives an overview of mobile and PC activity
- Video-learning with mobile video-coach
- Remediation of content
- Certification
- Attitudes
- Tools
- Exploring new potentials for learning



Flex-learn partners

- VisioGuide
- Innovisio
- Mobile People
- The Danish University of Education
- Funded by the Danish Ministry of Science



Mobile Video-based learning

- Experiential and situated learning
- Cases and examples
- Contextual use
- Reflection independent problemsolving



Multimodal learning experiences

- Combining modalties
- Sound
- Images
- Textual overlays
- Multiple choice questions



Tools

- Tools for calculations
- Handbooks
- Immediate and contextual access to tools and learning ressources

Research metods

- Action research with design interventions
- Observations and qualitative interviews during 3 pilotcourses with 8 learners (mostly dyslexic and non-native)
- Testing it on the road with 4 truckdrivers – videointerviews on mobile phones
- Datalogging of users – triangulation with interviews
- Qualitative interviews with certified truckdrivers, teachers and officeworkers
- Iterative designprocess

Analysis of observations and interviews: Challenges of the learner

- The users non-media literacy and unfamiliarity with technology
- The systems lack of adaptivity
- Re-mediation issues: lack of redundancy
- Need of different presentation of learning materials in terms of genre
- Need for a teachers personal presence and support

Continuity in learning

- Continuity across platforms
- LMS system keeps track of all activity
- LMS system keeps teacher/coach up to date on progress
- Linear progression

Inclusive learning

- Dyslexic learners evaluated that their learning using the mobile had been much better than they had anticipated.
- Users with a different cultural background (immigrants, refugees) also evaluated that they had experienced greater success in learning using the mobile than they had expected



A different arena for learning

- The learner in (partial) control
- Can return to lessons that are relevant to their task at hand
- Experiences of succes and accomplishment
- Workplace and lifelong learning

M-learning perspectives / affordances

- Personal
- Portable
- Learning technology independent of time/space
- Repeating sessions
- Contextualized on-demand learning
- Differentiation

M-learning perspectives 2

- Visual and auditive
- Easily accessible
- Supports a non-literary access to learning
- Contextual and situated
- Blended learning
- May support deeper learning/ competencies

Thanks for your attention!

lg@dpu.dk