



# Mobile Performance-support Learning Content Management System – Pre-design Considerations

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**The role of mobile learning in  
European education**



# Introduction

- Mobile devices are always available
- The innovative performance-centred approach has been developed, tested and implemented in educational and training contexts

Why to apply performance-centered approach to mLearning?



# Performance Support Systems for Educational and Training Purposes

- We developed Internet-based Performance Support System with Educational Elements (IPSS\_EE), which has all characteristics of a Learning Content Management System.
- IPSS\_EE, as a typical performance support system, is structured to provide individualized online access to the full range of information, guidance, advice, data, images, tools and software to permit the student to perform a task

**In what does the IPSS\_EE differ from common PSS?**



IPSS\_EE differs from common PSS in two characteristics:

- IPSS\_EE Tasks for performance aim preliminary specified learning outcomes
- they differ in target groups

**What are the differences between IPSS\_EE and common LCMSs?**



## IPSS\_EE and common LCMS – main differences:

- students learn small amounts of discrete information at one time and slowly build a network of these information chunks
- IPSS\_EE is a performance-based action learning environment
- IPSS\_EE environment calls for students to develop skills rather than build content bases
- IPSS\_EE consists learning experiences and resources

**What's the advantage in the view of learning process, as a performance-centred?**



## The advantage of performance-centred learning systems

- performance-centred educational systems will move the traditional teaching systems to training closely related to the job
- the teachers to consider the impact of teaching on results, good performance and competitiveness
- minimization of the lag between the content presentation (or learning the content) and execution of the learned information

Why we need to move from performance-centered educational system to mobile performance-centered educational system?



## ...the reason

- to address the imbalance between the availability of mobile devices and the lack of education and training provision on them
- to motivate our students
- mobile devices are available when we need

What are the advantages for students and trainees?



## .. the advantages

The advantages for trainees are derived from providing learners with a job aid in the context of their work:

- puts training and performance support where the actual work takes place
- allows new skills or knowledge to be immediately applied
- enables training when it is needed
- allows use of rich media when appropriate



## ... the advantages

The advantages for students:

- students have more flexibility and choice in where and when they learn outside of the wired (or un-wired) classroom.
- students use the technology in their study that would enhance their readiness for tomorrow's workplace where employers want graduates who know how to use technology for learning and working.

**Could the performance-centered approach help to avoid some of the disadvantages of mobile learning?**



## Performance-centered approach helps mobile learning

- A Fragmented Learning Experience - the performance-centered content is much focused, using the smallest unit with a framework for students on which to build their knowledge
- The educational theory behind mobile learning relates mLearning to an activity-centred perspective - in a performance-centered approach, learners are encouraged to be active constructors of knowledge, mobile devices embedding them in a realistic context, at the same time as offering access to supporting tools.

**What are the main points for discussions?**



## Points for discussions

- Wireless mLearning performance support systems are similar to traditional PSS.
- The advantages to apply performance support in mLearning to create knowledge are derived from providing learners with a job aid in the context of their learning.
- Some of the disadvantages of mLearning disappear if we apply performance-centred approach to mobile technology enhanced learning.