

Professional Education for Electricians



Progress report from a mobile learning research project

Mobile Monday Hamburg
1. Nov. 2010

This project is partly financed by the German Federal Ministry of Education
and by the European Social Fond of the European Union

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und aus dem Europäischen Sozialfonds der Europäischen Union gefördert



About Handylearn Projects

- **Founded 2005**
- **Focus: Mobile Software**
- **Greatest Hits**
 - **Vodafone application of the month**
 - **Handylearn Counter used in Irish national byelection**
 - **Training software for Swiss bank**



Research Project Partners

- **Distant University in Hagen**



- Didactics
- Evaluation

- **Evocational School in Hannover**



- **Supported by the German
Federal Ministry of Education and Research**



Electricians, our target group

- **Young professionals,
10.000/year in Germany**
- **16–20 years old**
- **Users of mobile phones
(about 98%)**

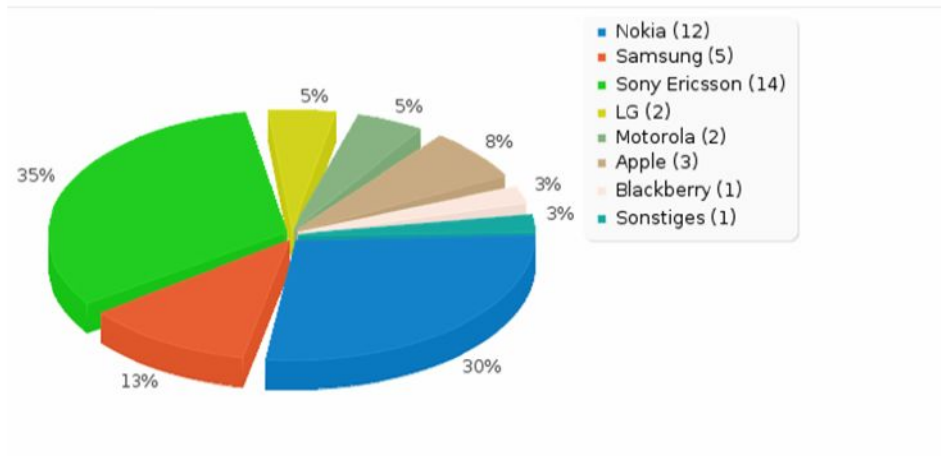
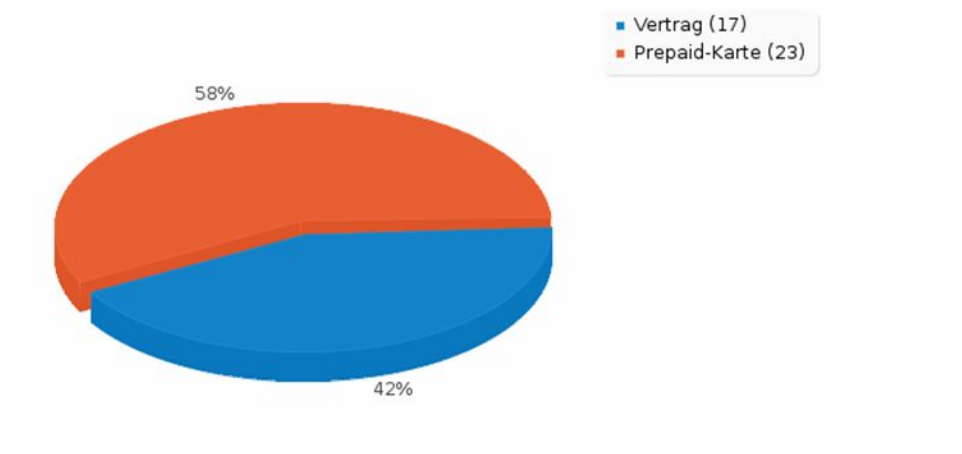
Research Project Targets

- **Create concepts**
- **Create working solutions**
- **Use mobile learning in practise**
- **Evaluate**
- **Publish and make usable product**
- **Project ends in 2012**

Reality check: Survey of our target group

- Mobile phone usage
- Media usage
- Learning habits
- Expectations: Hopes & Fears

Mobile phone usage



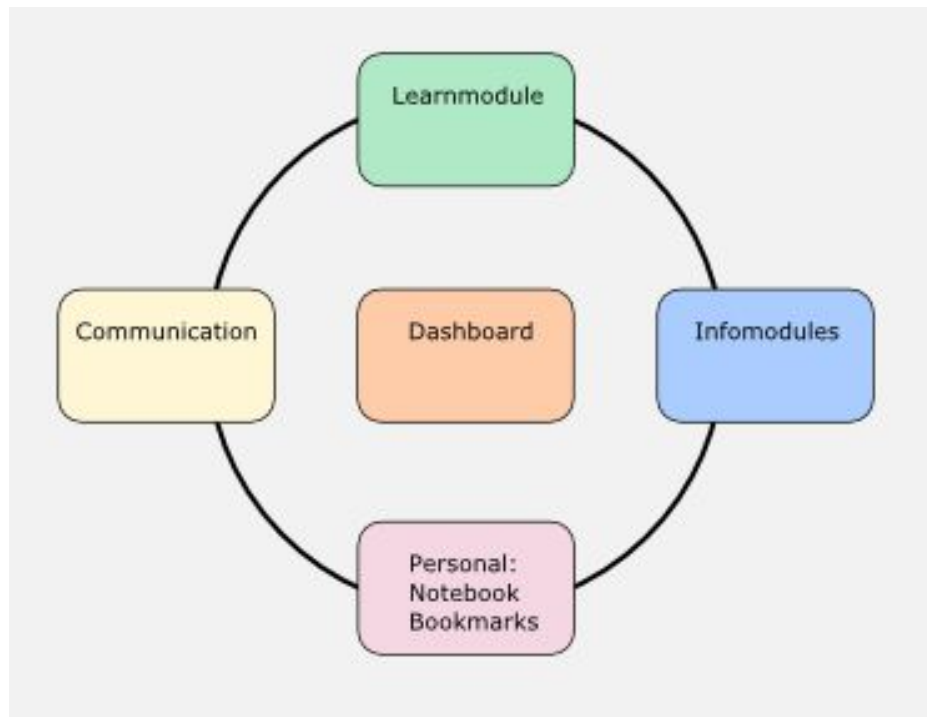
- **57% can write SMS blindly**
- **58% use prepaid**
- **Diverse phone types**

How does our target group think about it?

“Do you think you can learn for your education with mobile learning applications?”

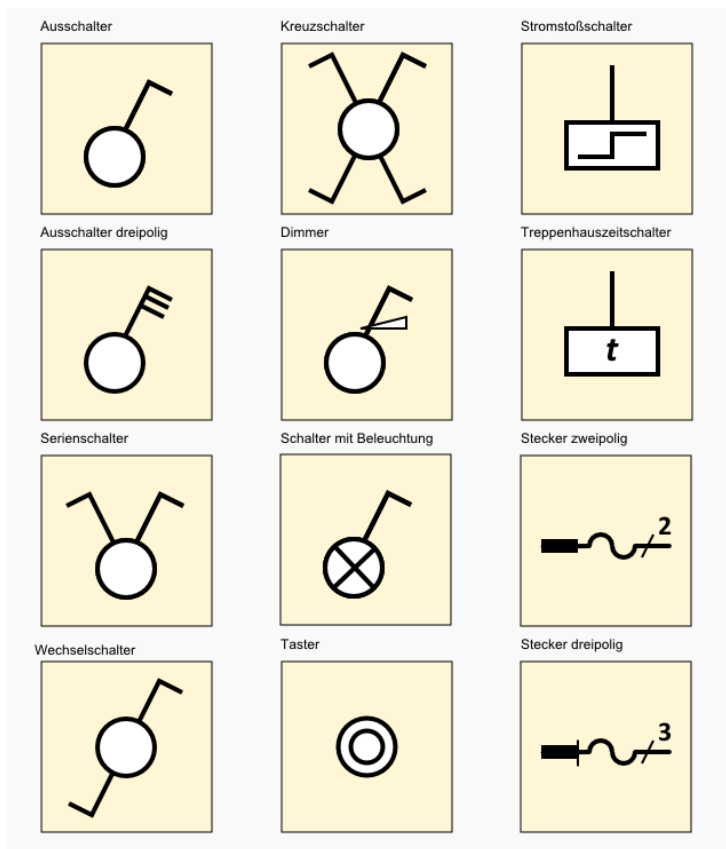
95% positive

Software modules for mobile phone



- **Lessons, tests**
- **Information in context**
- **Forum, SMS**
- **Personal: notebook**

Information in mobile Context



- Finding a circuit symbol
- Interact directly
 - Rate content
 - Suggestions
 - Ask questions

System for teacher

- Context: PC on Desk!
- Installation
- Content creation
- Communication
- Administration

Karsten Meier
Logout

Lerninhalte
Lexikon
Lernmodule
Übungsaufgaben
Lernkarten
Bildelemente
Externe

Verwaltung
Klassen
Nutzer

Lernbetreuung
Vorschläge
Bewertungen

Mobiles Internet
Dashboard
Mobiles Lexikon
Mitschüler/innen

Struktur der Lerninhalte

Liste der Lernmodule

Name	Art	Code		
A Grundlagen	Module	LF1		
Einheiten	Lernkarten	einheit		
B Schaltungen	Module	LF3		
Schaltzeichen	Lexikon	schaltzeichen		
D Messtechnik	Module	MESS		
E Schaltungen installieren	Lernkarten	STI		

Context

- **The content is relevant in the working context:
at the construction site (not at home, not in school)**
- **Questions never get lost again**
**=> The power of mobile technology is that it is
available in the actual context**

Communication

- **implies reflection of learning content**
- **connects people**
- **Our hope: mobile communication also helps for effective class sessions**

Recipe for mobile innovation: Context & Communication

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Schaltplan

Schaltplan in zusammenhängender Darstellung

