

Professional Education for Electricians



Progress report from a mobile learning research project

Mobile Monday Hamburg
1. Nov. 2010

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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**

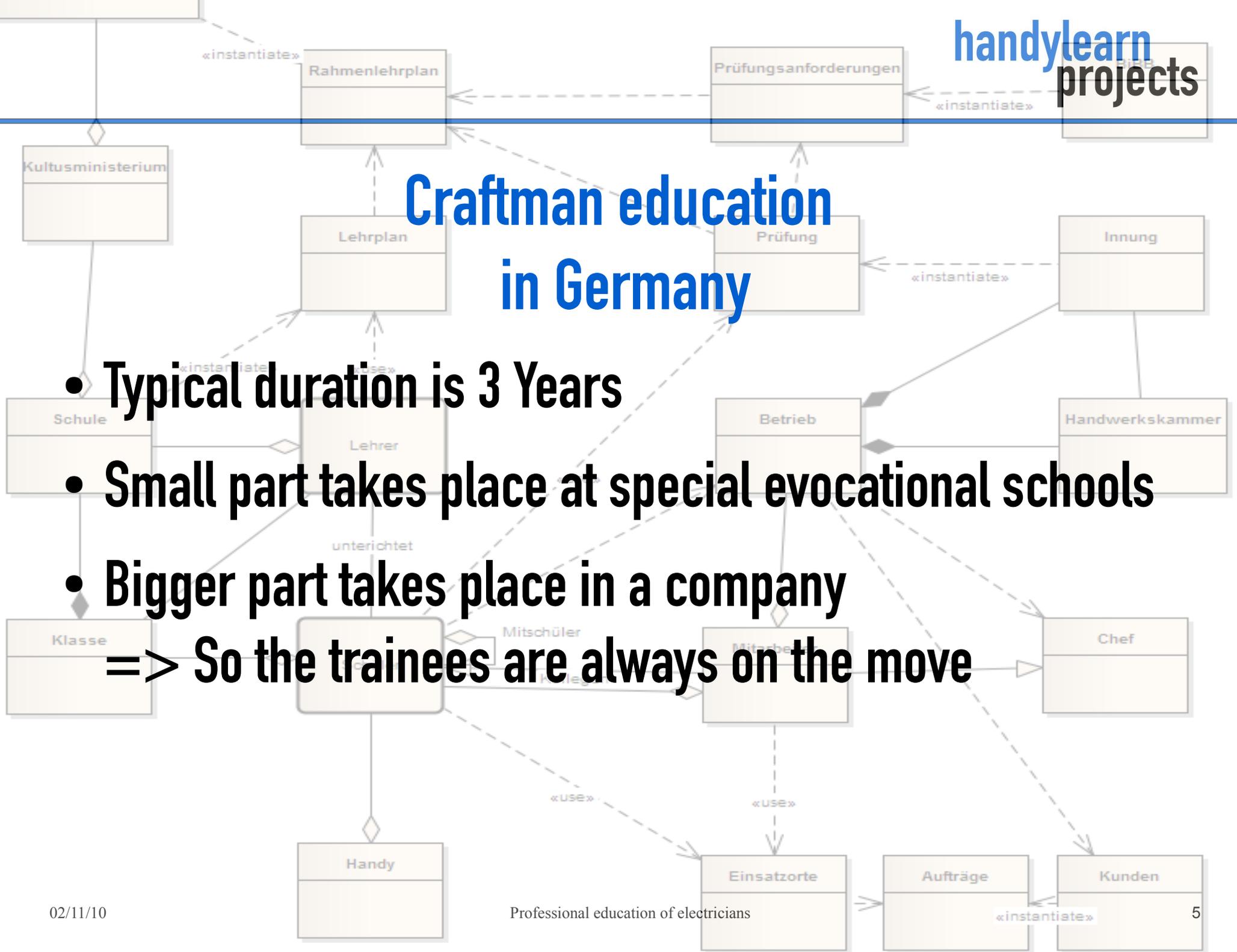


Electricians, our target group

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

Craftman education in Germany

- Typical duration is 3 Years
 - Small part takes place at special evocational schools
 - Bigger part takes place in a company
- => So the trainees are always on the move



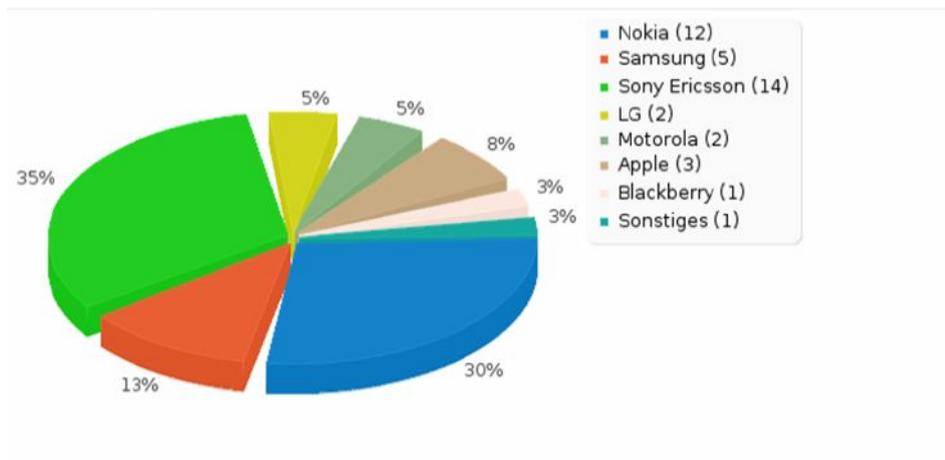
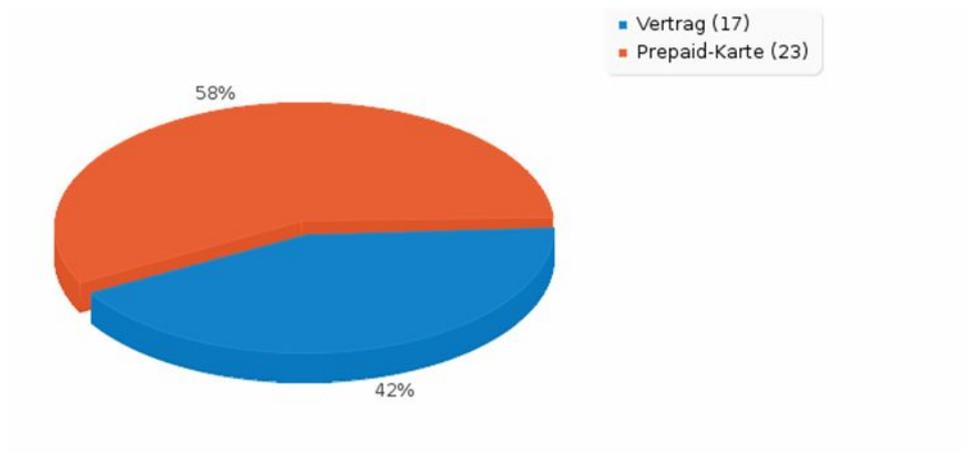
Research Project Targets

- **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



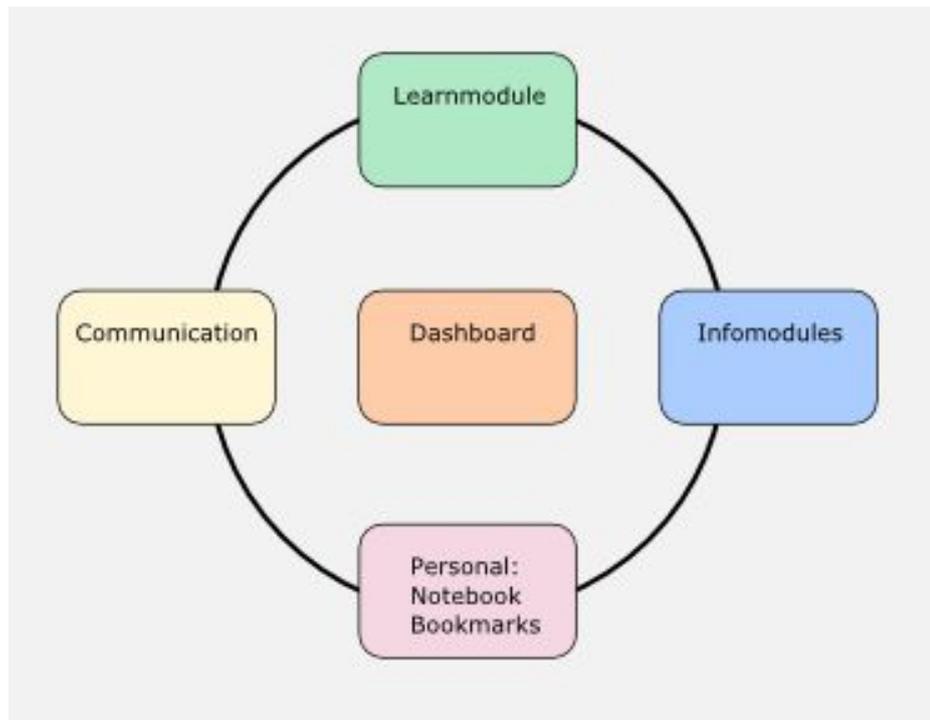
- **57% can write SMS blindly**
- **58% use prepaid**
- **Diverse phone types**

How does our target group think about it?

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

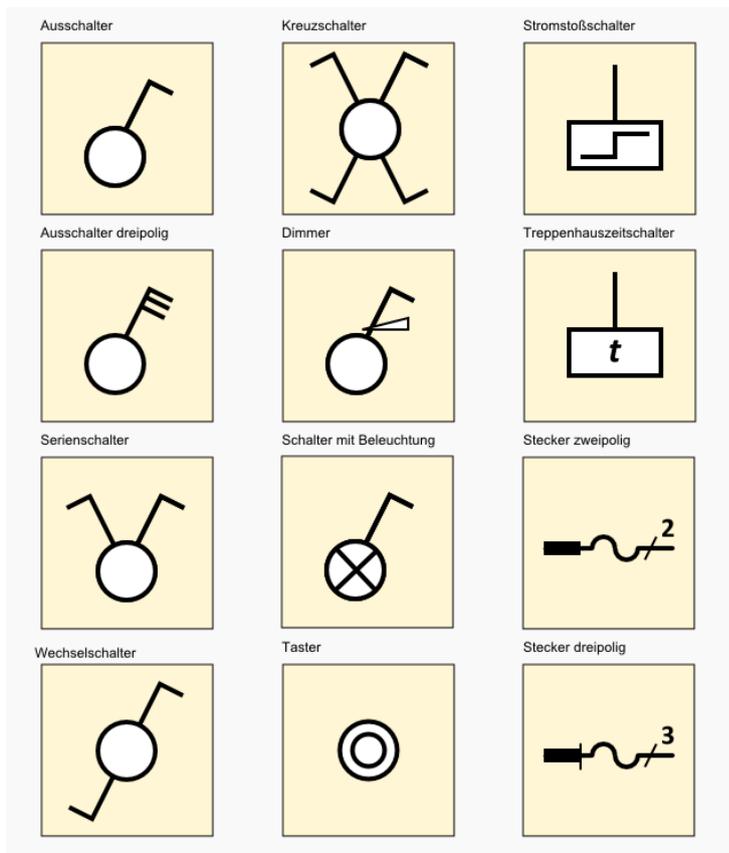
95% positive

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

Contact:

Karsten Meier

handylearn-projects.de



Schalttafelplan

Grundplan in zusammenhängender Darstellung

