



Department of Geosciences, Institute for Cartography



8th Symposium on Location-Based Services

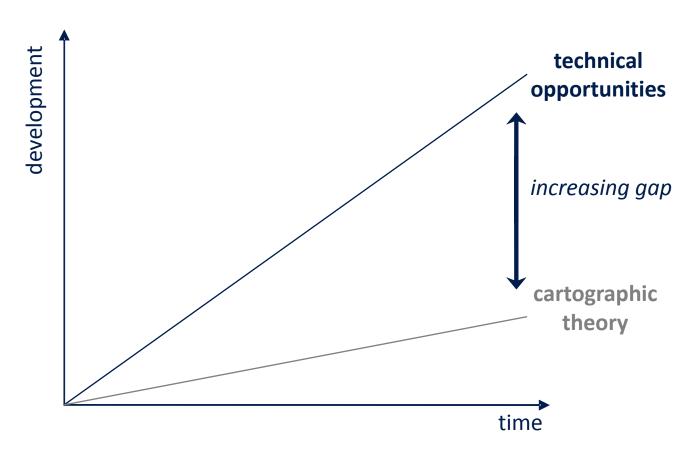
Investigation and Development of Mobile Touristic Applications

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Vienna - 2011/11/22





Motivation



Kraak & Ormeling (2010): "Cartography. Visualization of Geospatial Data."





Overview

Mobile Touristic Applications Theory Practice

- analysis of existing cartographic communication models
- own communication model for mobile, interactive maps
- analysis of existing touristic mobile applications
- conception and prototypical implementation of own application





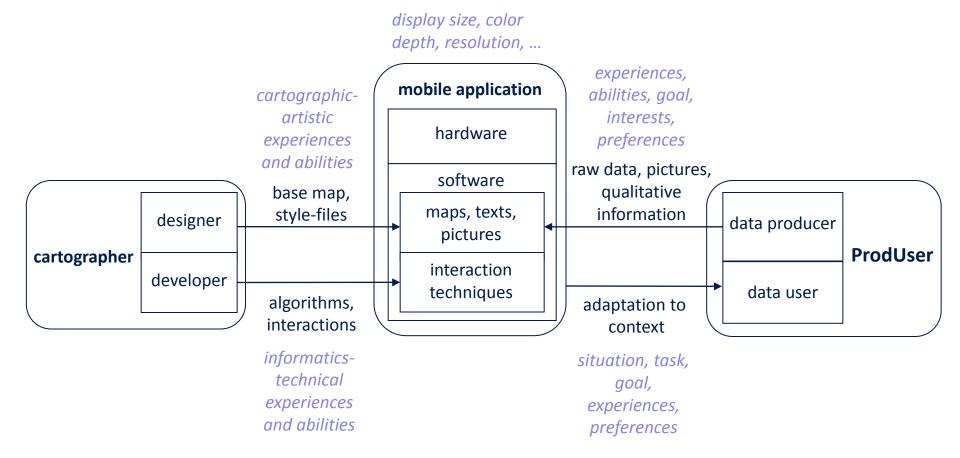
Cartographic Communication Models

Context Adaptation **User Generated Content** → in a communication model??? Koláčný (1969): determining factors Lechthaler (2000): data integration by user Kelnhofer (2003): map user as map maker of own creations, cartographer as tool provider Reichenbacher (2003): Scontext and adaptation Hoffmann (2011): user participates in generation of primary and secondary model





Communication Model for Mobile Interactive Maps







Analysis of Touristic Mobile Applications

# iDhono	territorial validity	purpose
Android		
outdooractive llgion	global	leisure guide
Qype	global	city guide
TravelBook Berlin	regional	city guide
Vienna Trave <mark>l Guid</mark> e	regional	city guide
iPhone		
Allgäu	regional	leisure guide
Lonely Plane <mark>t Berli</mark> n	regional	city guide
Lonely Planet Paris	regional	city guide
Ostseeküste - ADAC Wanderführer	regional	leisure guide
The North Face Trailhead	global	leisure guide





Analysis of Touristic Mobile Applications







user localisation





links between map and other content



search function





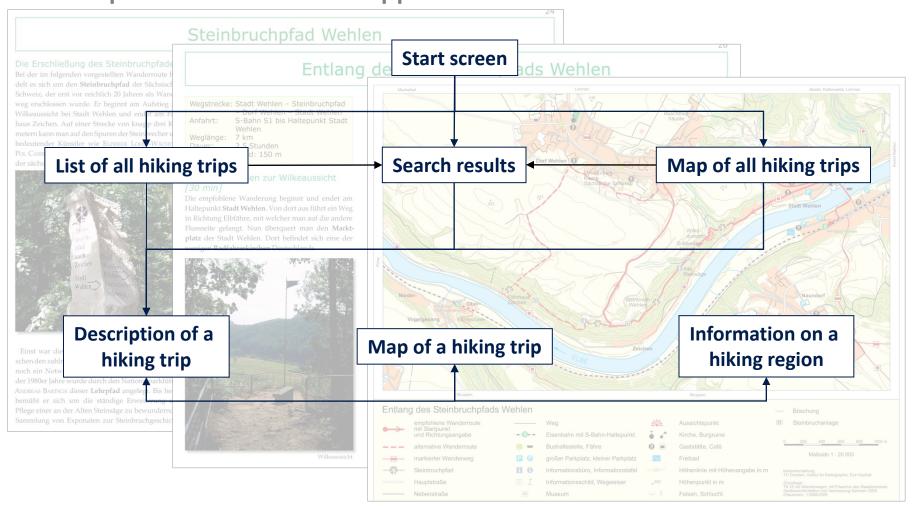








Conception of own Mobile Application



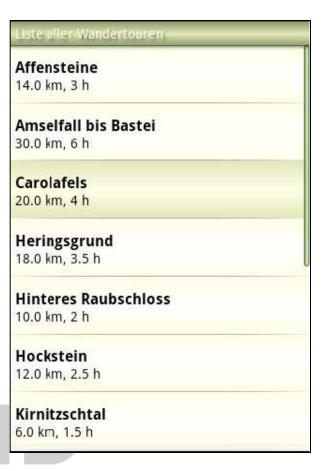




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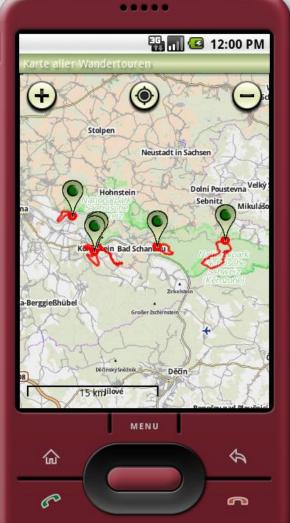








































Summary of own Application

- context: predefined
- adaptation: adaptivity and adaptability
- User Generated Content: Hike & Bike Map (http://www.hikebikemap.de/)











