

Txting Disasters

- Background
- Investigation
- Implementation
- Evaluation
- Opportunities

Project Background

- Geog. Dept. -> LTU for assistance
- Would like some form of simulation to help assess students on a new Applied Geomorphology course

Project Background

- Needs to:
 - · emulate natural hazard scenario
 - be in real-time
 - involve role-play
 - minimal staff intervention
 - run across Uni network
 - adaptable for other scenarios

Project Background • BTW • No budget

Design Investigation

- Collaborative Forest Fire Fighting Simulation Tool
- Flood Ranger
- Crisis Command
- I Love Bees
- e-MapScholar Virtual Placement







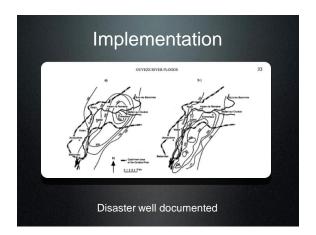




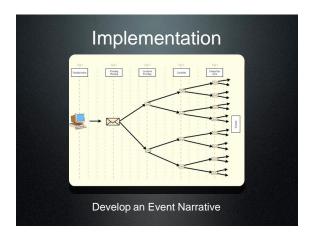


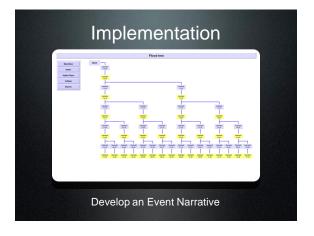


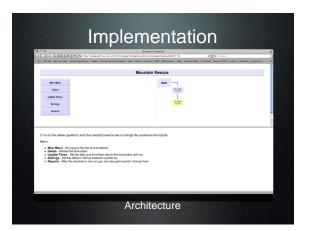


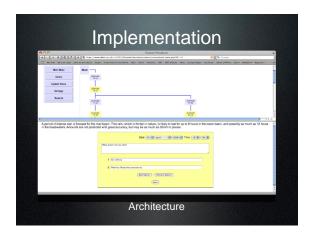


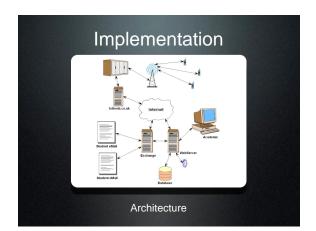






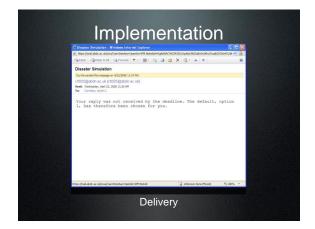




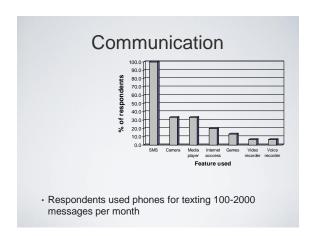








Learners' experiences • Explored using mixed methods investigation... - questionnaire (n=19 (response rate 70%)) - interviews (n=4) - artefacts (e.g. records) - previous evaluation findings • ...to find out about - communication, control and context • (Survey design inspired by Sharples et al. - activity theory framework for mobile learning)



Communication/Control

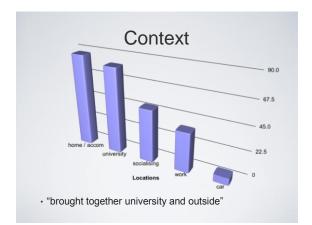
	Likert Rating Average*	SD
I enjoyed the real-time aspect of the simulation	4.13	0.71
I found it easy to respond to messages	3.87	2.83
I looked forward to messages arriving	3.67	2.83
I found using my own mobile phone convenient	3.67	2.83

* Likert scale: 5 = stongly agree - 1 = strongly disagree

- ·Learners enjoyed the innovative nature of the activity
- ·...but wouldn't want too much mobile learning
- •Suggested that more than two response options would be better

Control

- Respondents mostly used SMS
- But also email options
 - -- as a back up
 - -- not all have access to email at place of residence



Context

- Activity undertaken independently within context of community of peers:
- Evidence of 'sitting together waiting for the first message'
- Texting friends about decisions made, finding out where they were up to
 - Discussions in corridors
- Facebook 'jokes'

Other findings

- Respondents valued the innovative approach, especially to
 - 'it was not another boring essay'
- Technical problems which led to delays were 'annoying' but accepted as 'just one of those things' they may even have helped (by providing practice and improving confidence)
- It was perceived as a realistic experience
 60% of questionnaire respondents agreed or strongly agreed that it was a realistic experience of disaster management
- · Emotional involvement

enjoyment, involvement, excitement, frustration all reported. It was something a bit different which encouraged a different perspective





Differences

- More complex situation
 - different 'levels' of interest and engagement
 - as teachers, learners, mentors
 - perception of realism
 - less overall engagement
 - some similar technical issues



