

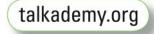


#### Learning experiences in virtual worlds in schools, including formative assessment methods to create feedback for learners and educators with the **NEXT-TELL** project

Klaus Hammermüller, Gerhilde Meissl-Egghart Verein Offenes Lernen, Austria klaus@talkademy.org

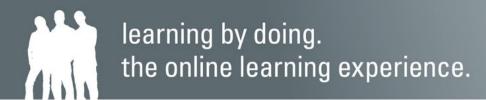
RG Erlgasse, Austria ITS Isernia, Italy

Erika Hummer, Sandra Maria Marolla



@ e-Didaktik Tag 2012, FH Johanneum Graz





#### talkademy.org

**GD Bildung und Kultur** 

## **Service for**

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Universität Bielefeld

#### connecting people in a "flat world" providing room to innovate

Press ESC to return to World View

## Example talkademy Classroom Settings

build a museum

meet the Devil's advocate

turn tests into games



roleplay in Berlin 1920

step inside a van Gough

visit Mecca







#### next-tell.eu goals until 2014



Articulate a conceptual framework for designing and implementing methods that can be used to formatively assess ICT-enhanced learning and to negotiate the assessment process amongst stakeholders.



Provide resources and ICT support for teachers and students to develop learning activities and appraisal methods appropriate for 21st Century learning based on this conceptual framework.





Provide IT support so that teachers and students have available nuanced information in a format that is supportive of decision making, thus optimizing levels of stimulation, challenge, and feedback.



Increase a school's capacity for data-driven decision making by means of leadership development, including ICT support for the strategic planning of teachers' professional development.



Foster in-service teachers' professional development by providing new methods and tools for learning from students' learning and for learning from peers' teaching.





# invitation to join the next-tell project with your pupils in an international project







### Pilot study example: Isernia – Vienna web TV show produced in a 3D studio

- Secondary Language Learning: Students are meeting with peers from other countries in a virtual world environment. There they collaborate in small project teams producing foreign language collaterals, make new friends and improve their language practice.
- Setting: full term, in-class preperation + asyncronous collaborative tools (mail, moodle, facebook) + virtual world + video
- **Results:** Students are engaged, motivated to overcome obstacles, interact and active also outside the classroom. They benefit by doing more and request more.



class	level	female	male		total
6.	10	7	5	12	
3.	11	18		18	



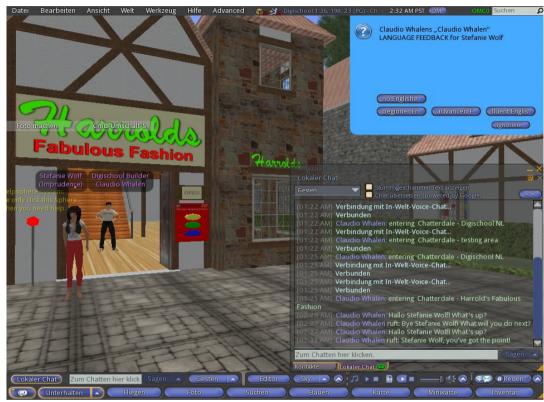




## pilot study: Bergen – Purkersdorf Chatterdale mystery quest



- Secondary Language Learning: Students follow quest assignments in small local or international teamy. They need to apply second language skills to solve the mystery.
- Setting: in-class preperation + virtual world setting
- **Results:** Students are engaged, motivated to overcome obstacles, interact and active. They request more and want to come back.



class	level	female	male		total
3.	7	14	33	47	
3.	7	20	21	41	





learning				
scenario design				

curriculum based aims / competencies

detailed assesment measure

#### captured metadata

OLM: curriculum aims / CEFR / 21st Century Skills	assessment measurement	evidence provided by
Student understands the assignment (reading B1 CEFR#109, AT#3)	Students start looking for the right place / person (time for start moving / arriving)	automated locator/greeter script (triggered when entering target area)
	Main point was identified and addressed in conversation with NPCs (NPC feedback)	NPC's feedback dialog prompted when student leaves
Approach and Ask NPCs for help (speaking A1 or more CEFR#116ff, AT#4+#19, AT#63)	Is student aproaching NPCs and talk to them? (Location sensor A after B)	automated locator/greeter script, chat time statistics
	Who is talking how much? (timing)	chat time statistics
	Level of language used?	NPC's feedback dialog prompted when student leaves
	Which vocabulary was used? (Chatlog analysis; ask NPCs to key in important vocabulary)	chat log/recording analysis
Approach and Ask NPCs for help (speaking A1 or more CEFR#116ff, AT#4+#19, AT#63)	logged gestures triggered by NPC (e.g. via additional textchat)	n / a currently
Articulation ()	Assess the speaking? (Audio recording, teacher assessment & feedback)	recording, to be analyzed/tagged in EVA tool or soundcloud
Understand the content of the glue/artefact (reading B1 CEFR#109, listen AT#2+#17)	Did the student react/answer to the said approprately? (NPC feedback)	NPC's feedback dialog prompted when student leaves
	Did the student move to the right place given the directions by NPC (Location sensor X + Y, timing)	automated locator/greeter script (triggered when entering target area)
	Did the student find the right item (Touch sensor after NPC interaction, timing)	" Like" Button variation: glues / artefacts have been found
Understand the content of the glue/artefact (reading B1 CEFR#109, listen AT#2+#17)	puzzle has been solved (Location / Touch sensor, timing, event sequence)	automated locator/greeter script; "Like" Button variation
	Who is talking how much to whom? (timing when puzzle is resolved)	chat log/recording analysis
	The one bringing in the right glue might be awarded by vote (peer feedback asked after solving puzzle)	"Like" Button
Collaboration (21st skill#39, AT#7+8, AT#39ff, AT#60)	Interaction sequence (chat, talk, etc. approximate timing and intensity)	analysis on all interaction data (movements, chat)





# Findings

**Pro:** Students love it, they are engaged, go the extra mile, overcome obstacles, interact more, want more, thrive

Teachers have "hands off" time during class, able to focus to support individuals, metadata analysis provides overview who did/achieved what

Enablement of individualized education

**Cons:** organizational demanding finding peers, setting up and maintaining a working configuration

Next Steps: need for simplification, improvement of usability, more exploration to find new organizational formats for formal learning – e.g. tracking of inversed teaching



**Recomendations:** full term scenarios which utilizing different media seem to work better than isolated single lesson scenarios

asynchronos involvement seem to work better than uniform engagement of students





# Thank you!

#### Contact

klaus.hammermueller.at klaus@talkademy.org

www.talkademy.org www.next-tell.eu





