

### Helsinki Institute for Information Technolog

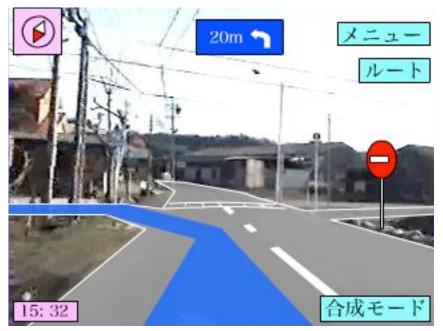
- Joint research institute of the University of Helsinki and the Helsinki University of Technology
- Alliances: Finnish ICT and media companies, research institutions, international partners
- Presently ~120 researchers
- Network society research program
  - Digital Content Communities group
  - Ubiquitous Interaction group





## Typical ubicom/AR application proposals

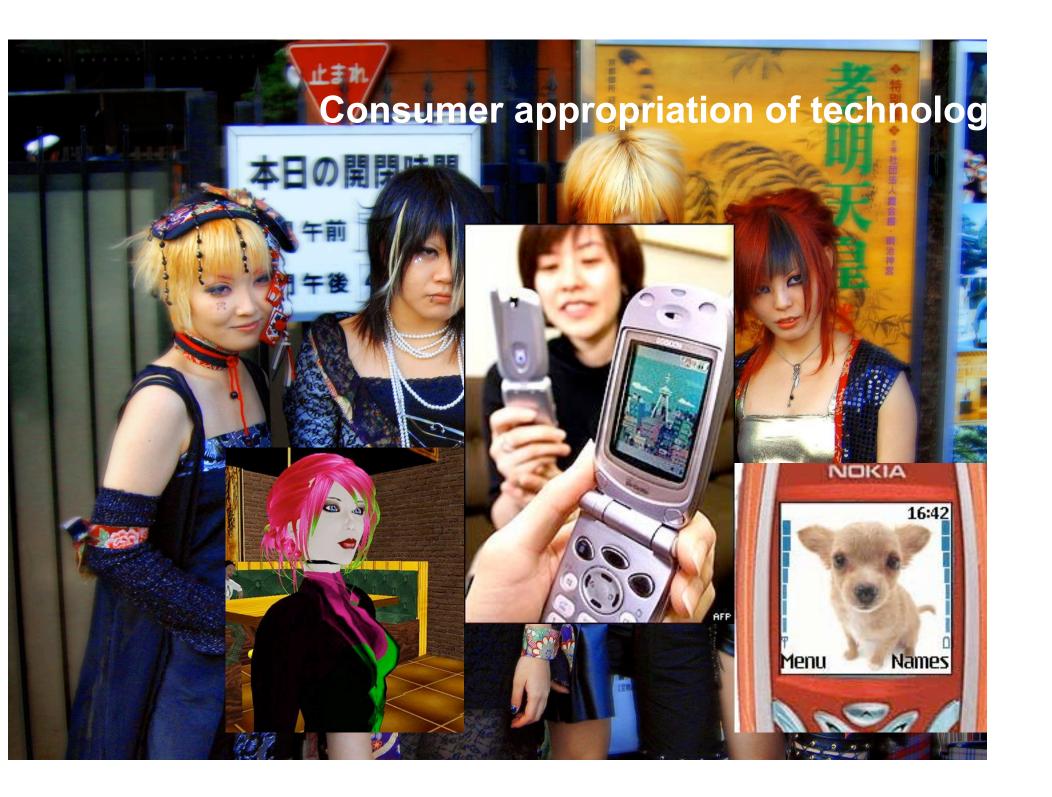
Information, navigation, healthcare, security, productivity



Waseda University Okuda Lab



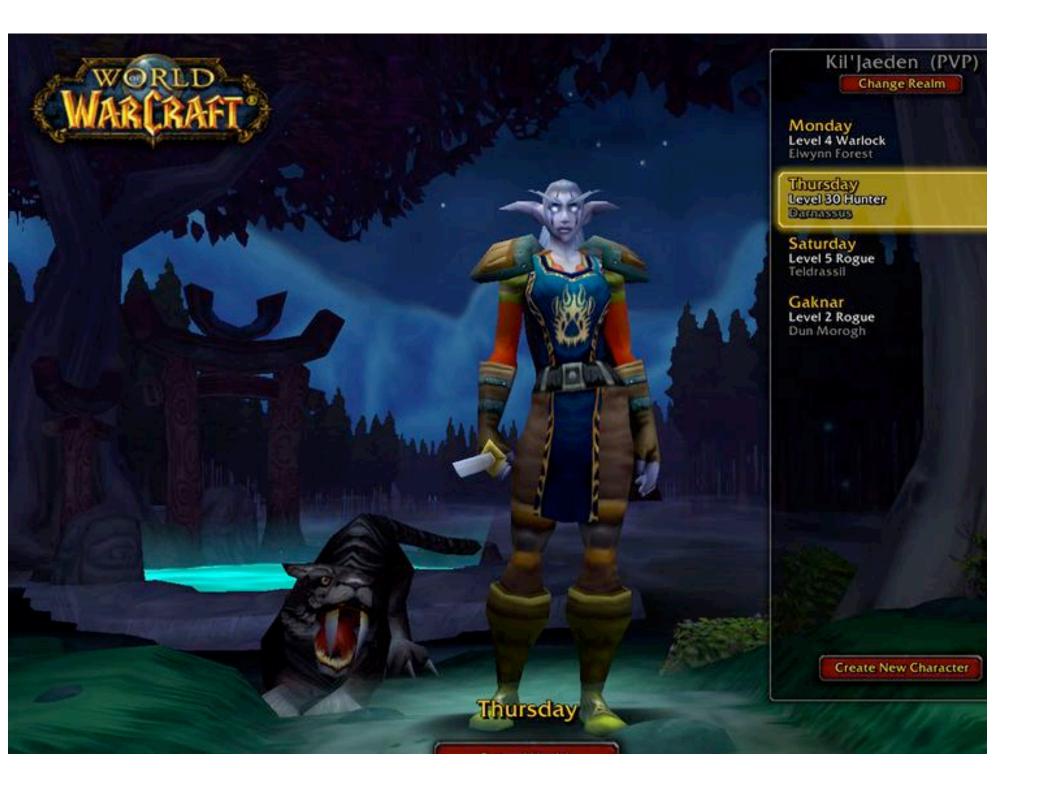
Tokyo University Digital Library





# VIRTUAL CONSUMERISM?

Consumers paying real money for virtual property



000	eBay: Ultima Online Atlantic U	IO Felucca *CASTLE* near Britair	i (item 8258587462 end time Fe	b-15-06 23:38:50 PST)
Back - Forward - Rel	load Stop www.http://cgi.ebay.c	om/Ultima-Online-Atlantic-UO-Fel	ucca-CASTLE-near-Britain_W0QQit	emZ8 🔻 Go 🕞 kart rider
eb¥ eBay - online gam			eBay - online games, internet ga	. 📴 eBay: Ultima Online Atlantic UO
		*CASTLE* near Britain	> <u>Deces</u> , <u>Houses &amp; Douts</u>	
Uitima Uniin	e Atlantic UO Felucca	"CASILE" near Britain		Item number: 8258587
Bidder or seller of	this item? Sign in for your statu	IS		Email to a frie
Bidding has en	ided for this item			
If you are a winner,	Sign In for your status.			
Sign In Buyer or seller of th	is item? Sign in for your status.			
Additional options	:			
List an item like t	this one.			
Similar items fr	om all eBay sellers			He
Item Name			Price	End Date
	Atlantic 10 Million Gold		US \$60.00	Mar-17-06 11:19:44 PST
	ntic 5K Recall Scrolls 5,000 UO		US \$6.99	Feb-28-06 14:15:20 PST
	ntic 20K Blank Scrolls UO		US \$6.99	Feb-19-06 09:53:06 PST
UO Ultima Online /	Atlantic 50,000 BOARDS		US \$9.79	Mar-01-06 23:14:20 PST
	Winning bid:	US \$510.00	Se	ller information
	Section and a section of the		ban	ringtonuo (108 🚖)
	Ended:	Feb-15-06 23:38:50 PST		eedback Score: 108
A CAL	Start time:	Feb-08-06 23:38:50 PST		ositive Feedback: 100% lember since Feb-05-00 in United States
A WEEK	History:	19 bids (US \$300.00 starting bi		ad feedback comments
	ALCONTRACTOR OF THE PARTY OF TH	: <u>mysticgbj</u> ( <u>23</u> 🔆 )		d to Favorite Sellers
	www.ining bidder		Ast	<u>k seller a question</u>
	Item location:	Lynn	Vie	w seller's other items
Larger Picture	Ships to:	United States	Pa	Free PayPal Buyer Protection See eligibility
- Largor Protato		: FREE Standard Flat Rate Ship	pping Service	



### **Real-money trade of game propert**

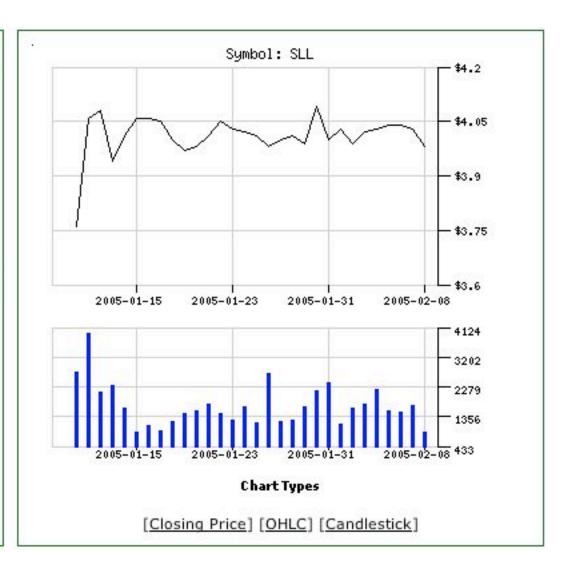
- Total volume ~1 Bn USD? (up from zero in 1999)
- Virtual currencies are traded on exchange markets like "real' currencies
- Thousands of Chinese allegedly employed to harvest virtual gold from *Lineage*, *World of Warcraft* etc. to be sold on eBay
- *"EverQuest* has a higher GNP per capita (USD 2,266) than Bulgaria and China" (Castronova 2001)

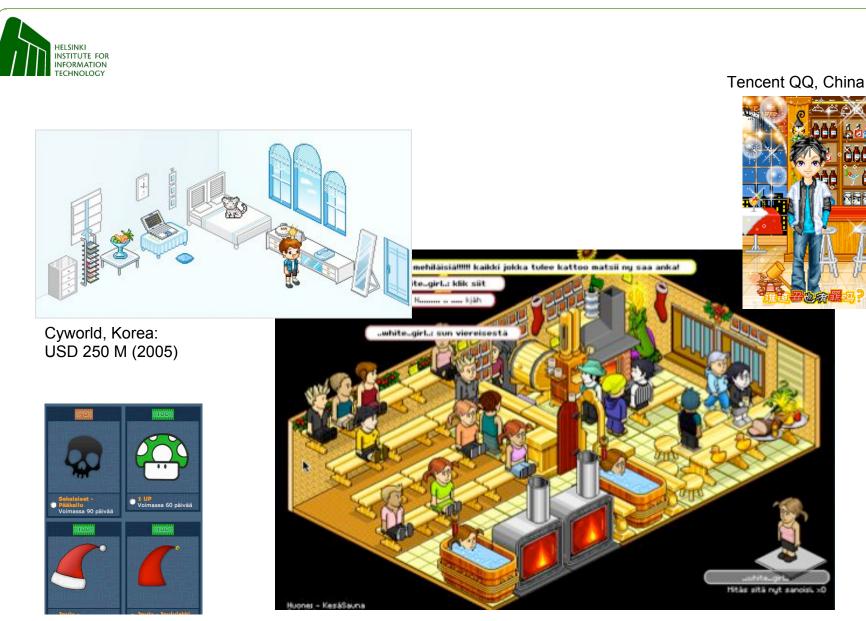
Item Title	Bids	Price*	Time Left
LOOK Habbo Furni Package - Rares + Norms 🛱 🛤	14	\$40.08	2d 23h 12m
UO Ultima Online Europa LUNA House ***INSIDE WALLS*** 🛱 📫	5	\$152.50	2d 12h 24m
Eve Online GIST X-TYPE X-LARGE SHIELD BOOSTER 🛱 🛤	=Buy It Now	\$239. <mark>9</mark> 9	5d 01h 12m
Maple Story MapleStory LVL85+ PRIEST BROA OFFICIAL MS	21	\$560.00	5h 53m



#### **Daily summary:**

Last trade:	\$3.98
Change:	-\$0.05
Best selling price	: \$3.98
Best buying price	: \$4.00
Blocks traded:	866
Open:	\$4.03
Yesterday's close	: \$4.03
Daily high:	\$4.29
Daily low:	\$3.98
Today's average	\$4.0217
Best selling rate:	251/\$
Best buying rate:	250 / \$
Symb	₀1: SLL [\$4.31
	-\$4.17
••••••	**************************************
	-\$3.91





Habbo Hotel, Europe/US € 30 M (2005)

IRC-Galleria, Finland: 200 000 € / month



### Virtual property with real valu

Why? What motivates the consumer to spend real money on "non-existent" things?

- Power, identity, status, membership in a group, ...
- "Symbolic value"
- ⇒ Sociologists: Same things motivate the physical consumer culture
  - $\Rightarrow$  Brands, exclusivity, collector's items, symbols, names, ...



### Digital Brand Commodities project proposa

- Using augmented reality technologies to bring the virtual property concept to real-world settings
- "Digital commodities"
- VTT, HIIT, Waseda, (UADH)
- Technology, content, business models, user testing





### Digital Brand Commodities project proposa

Three scenarios:

- 1. Using digital commodities as a placeholder / sales channel for physical commodities (e.g. furniture)
- 2. Using digital commodities as decoration for physical spaces
- 3. Using digital commodities as fashion accessories for personal decoration



Lo-fi implementation of a personal decoration concept