

DIGITAL GEOGRAPHY *in a* WEB 2.0 WORLD



WEDNESDAY 20 FEBRUARY 2008

NCeSS: the future

2008-2011: Phase 2 Nodes

GeoVUE + MoSeS → GENESIS

Generative e-Social Science
for Socio-Spatial Simulation

growing artificial societies *in silico* from the bottom up

GENESIS

Leeds Centre for Spatial Analysis and Policy (CSAP)

+

UCL Centre for Advanced Spatial Analysis (CASA)

agent-based simulation + geo-spatial visualisation

model agents using census and survey data;
simulate their interactions under specified conditions;
visualise the emergent patterns;
deliver via the Internet as an easy-to-use web service.

GENESIS example

1. model an urban population in terms of residence, lifecycle stage, age, income, health, employment etc
 2. specify change factors
 3. run simulation to follow changes over 10 years
 4. map the process of change across the urban area
 5. fine tune stages 1 and 2
 6. re-run stages 3 and 4
- etc etc

GENESIS

Watch these spaces

www.genesis.ucl.ac.uk

www.ncess.ac.uk

WEDNESDAY 20 FEBRUARY 2008 @ The Barbican

Thank you, all

Wine Reception

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