LAYERING TIME AND SPACE

Keith Lilley

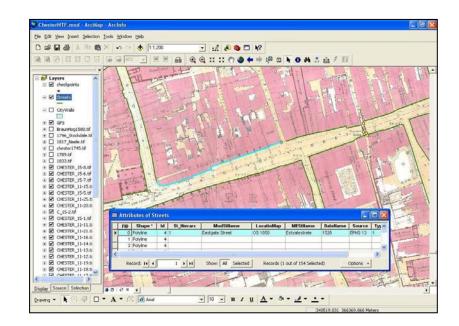
Institute for Collaborative Research in the Humanities,

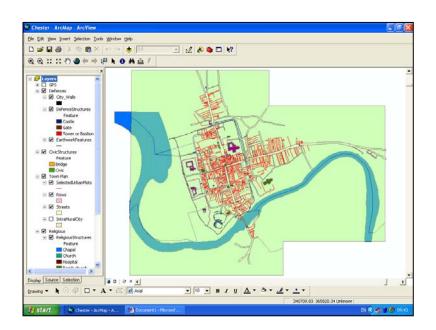
Queen's University Belfast

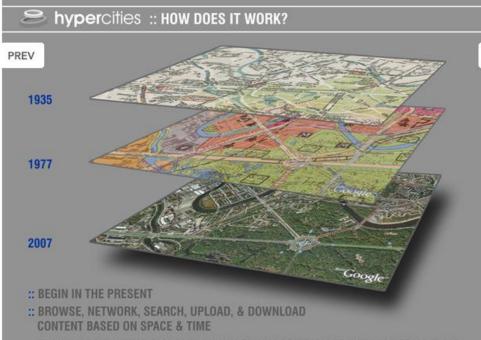
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Layering time and space through mapping medieval urban geographies using GIS

- Two current challenges:
 - 1. Finding the right web-GIS/mapping platform for delivering spatial data – going from a desktop GIS to a distributed GIS…
 - 2. Defining new research agendas through the application of spatial technologies – shaping medieval studies at a global scale...







:: TRAVEL BACK IN TIME & CREATE FAMILY GENEALOGIES, MAKE THE PAST COME ALIVE.





1. Finding the right web-GIS/digital mapping platform

Walking Through Time

"SatNav for historical maps" The iPhone app that combines GPS technology with old maps to allow users to walk through time.



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What

NEXT

Available NOW for iPhones using iOS4. Download here now

Walking Through Time is a mobile application that allows smart phone users with built-in GPS to not only find themselves in the present, but find themselves in the past. By making available historical UK maps, users will be able to scroll through time and navigate places using maps that are hundreds of years old.

Funded by a JISC rapid innovation grant, the application was developed collaboratively between Edinburgh College of Art and the University of Edinburgh. The idea emerged from a conversation during a University of Edinburgh meeting of the IT Putures group and was inspired by the work of Richard Rodger, Stuart Nicol and Stephen Vickers. Walking Through Time is a JISC funded Ofhean Acg that lets visitions to Edinburgh valids over historical maga. The maps are provided by Landrank Information Group and the Visitional Liferary of Sectiond. The anthours was developed by Edinburgh Collage of Art, University of Reinburst.

Available for iPhone nou

Historical tours were provided with the kind assistance of Edinburgh World Horitage and Margaret Stewart.



Home | About | Project team | Contact | St. John's Artwork | Events

Discover Medieval Chester AHRC-funded knowledge transfer research project

http://medievalchester.ac.uk/

Web-resource launched May 3!



Sharing the vibrant heritage of medieval Chester



The city of Chester has a rich medieval heritage. The legacies of this are present today in the city's surviving townscape, in its museum collections, and in the remarkable body of medieval multi-lingual literature which reflects the experiences of diverse cultural and ethnic communities within this dynamic city on the border of England and Wales.

Drawing together material, textual and visual culture and forging connections between the medieval past and the modern urban environment, **Discover Medieval Chester** will produce a range of resources, including:

- A website with an interactive map and customisable "city tour" feature
- A major exhibition at the Grosvenor Museums, Chester in summer 2013, later transferring to Wrexham
- A new artwork at St. John's ruins, Chester, with joint funding from Cheshire West and Chester Council (from March 2012)
- A range of themed medieval city tours in printed brochure form

A long search across different GIS-based research projects for online platforms:

- 'Mapping the Medieval Townscape' (2003-2005)
- 'Mapping Medieval Chester' (2008-9)
- 'Linguistic Geographies' (2009-11)
- 'Discover Medieval Chester' (2012-13)

About

Ν



Mapping Medieval Chester

Pan

O Zoom In

C Zoom Out

Map scale: 1: 5905

Click x,y: 340610.416400, 366120.833300

Digital Map (Low Bandwidth) Pemberton's Parlour CowLane Gate (bar?) Legend Bonevaldesthome's Tower Kalevards Gate St Werburgh's Abbey Features Market Settlements St Chad Castle St Nicholas East Gate Gate The Pillory Tower or Bastion Fransciscan friary Holy Trinity City Walls City, wall ✓ Earthwork Features Water Gate Hospital St-Ursula Wolf Tower New Gate St John the Baptist Carrelite friary Bridge St Bridge Dominican mary# Civ ic Hermitage St Martin ✓ Selected Urban Plots Rows Trevors Hole St Olave Streets **Benedictine numery** Castle Bridge Chapel Caple Gate Church MI Dee Bridge Hospital Dee bridge gate Parish church

Map Extent: 339943.7496 365620.8332 341277.0832 366620.8334

Religious house

Intramural City

Parish Boundaries

Ecclesiastical Precincts

River Dee (Late Medieval)

"Mapping Medieval Chester"

Web-served 'distributed' GIS (using MapServer)



ALL | JOURNALS AND SERIES | GREY LITERATURE | PROJECT ARCHIVES | BIBLIOGRAPHIES | THESES

Mapping the Medieval Townscape: a digital atlas of the new towns of Edward I Keith Lilley, Chris Lloyd, Steve Trick, 2005

Introduction

The Atlas

Overview Atlas Sources

100000000

Caernarfon 👿 go | Interactive Map | Discussion | Downloads

Data copyright © Dr Keith Lilley, Chris Lloyd, Steve Trick unless otherwise stated



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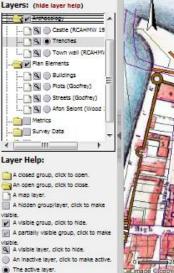
Resource identifiers

ADS Collection: 433 doi:10.5284/1000022 How to cite using this DOI



CAERNARFON (Llanbeblig), Caernarfonshire	
NGR:	SH478628
Туре:	Castle town with stone defences
Date of Charter:	September 8 1284
Number of Burgages:	55 in 1298
Number of Burgesses:	57 in 1298
Size of Burgage:	eighty by sixty feet
Area of walled town (c. 1300):	101/3 acres/41,800m ² (excluding castle)
Overall dimensions of walled town (c.1300):	600 feet (High Street)/740 feet (Castle Street/Market Street) (183m/226m)

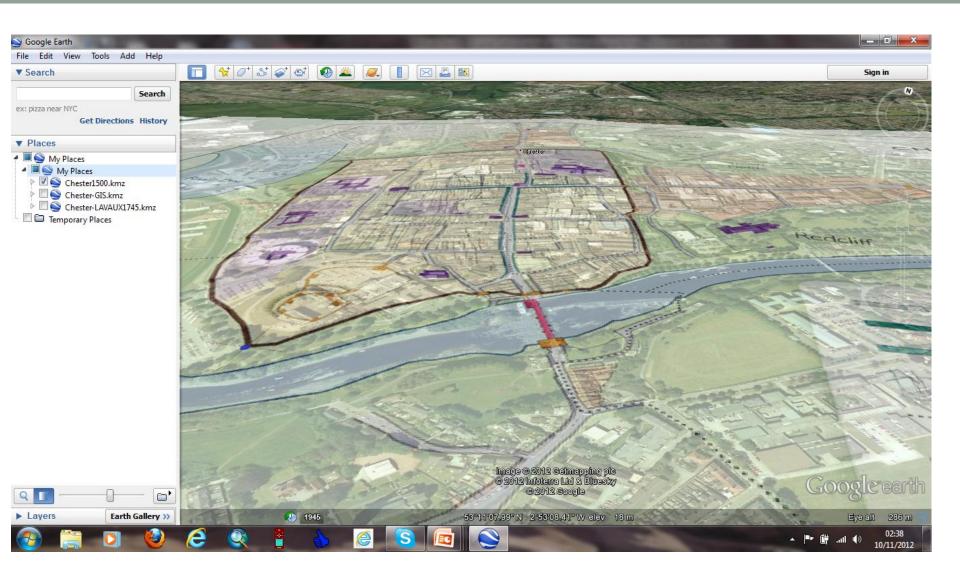
Interactive Map:



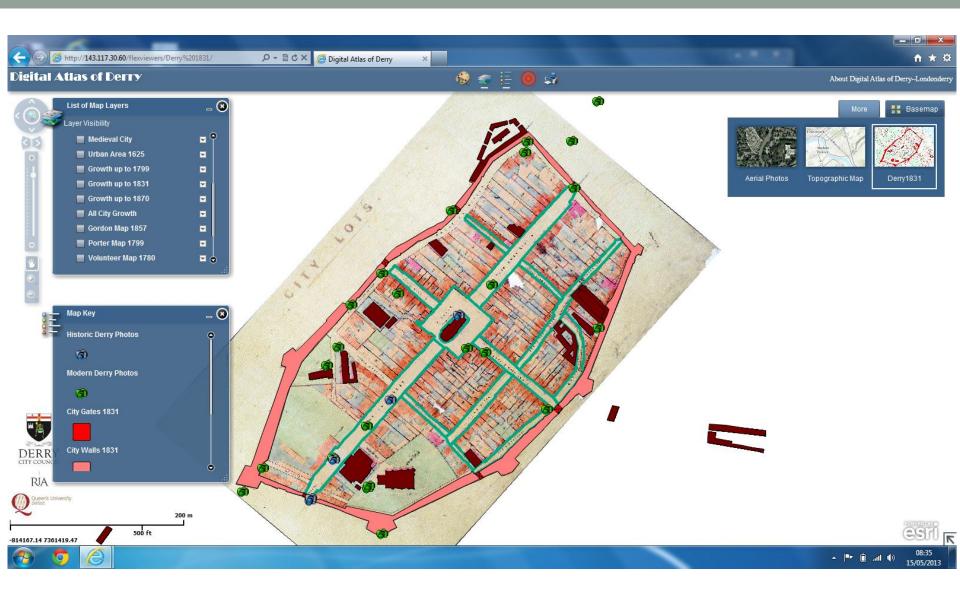


Help for using the Interactive Map

An Interactive Map has been provided to enable you to examine the various spatial data compiled throughout the survey using basic WebGIS tools. To begin using the map click the button labelled 'Switch



"Discover Medieval Chester" AHRC-funded knowledge transfer research project Overlaying medieval Chester onto Google Earth: 'Discover medieval Chester'

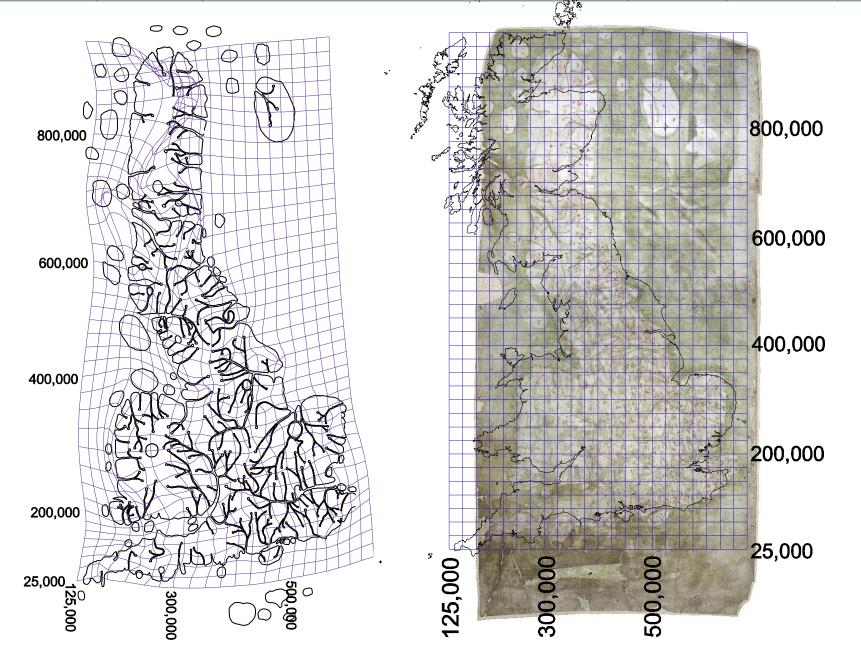


Digital Atlas of Derry/Londonderry (Northern Ireland) - <u>http://go.qub.ac.uk/derrycityatlas</u> - based upon the Irish Historic Towns Atlas (IHTA).

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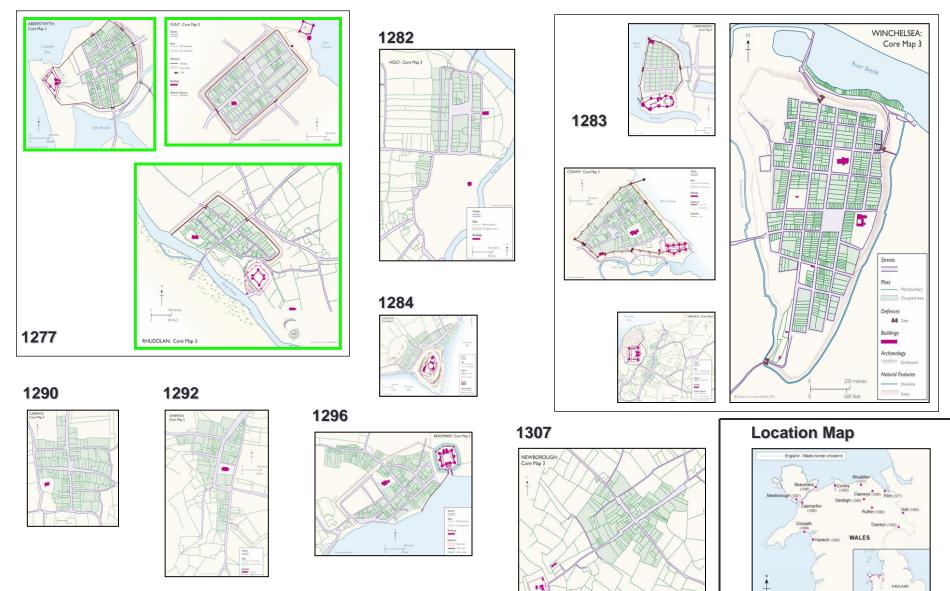
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 - Hidden histories through quantifying qualitative data
 - Comparing patterns and forms across time and space

Excavating the Gough Map (c.1370) – creating a "distortion grid" using MapAnalyst



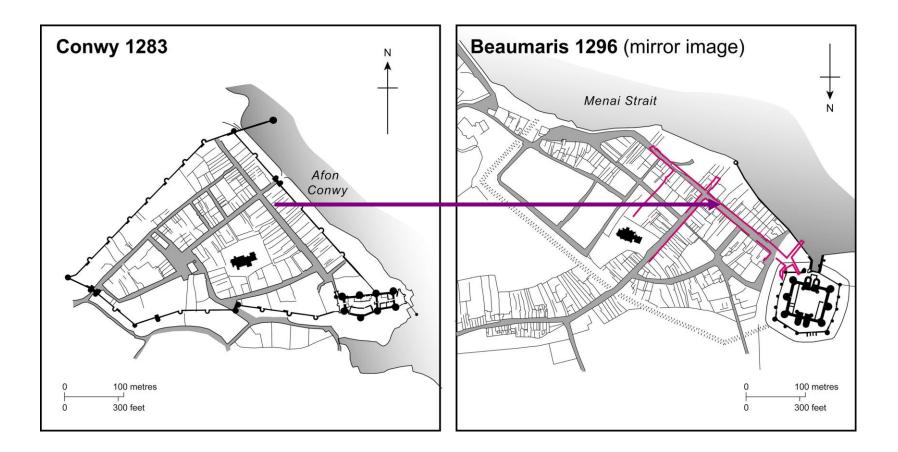
See Lilley K D and Lloyd C D, 'Mapping the realm: a new look at the Gough Map of Britain (c.1360)', Imago Mundi 61(1) (2009), 1-28

Exploring the design and planning of medieval urban landscapes: Edward I's 'new towns' and the conquest of Wales, 1277-1307



See Lilley K D, Lloyd C, and Trick S 'Designs and designers of medieval 'new towns' in Wales', *Antiquity* 81 (2007), 279-93

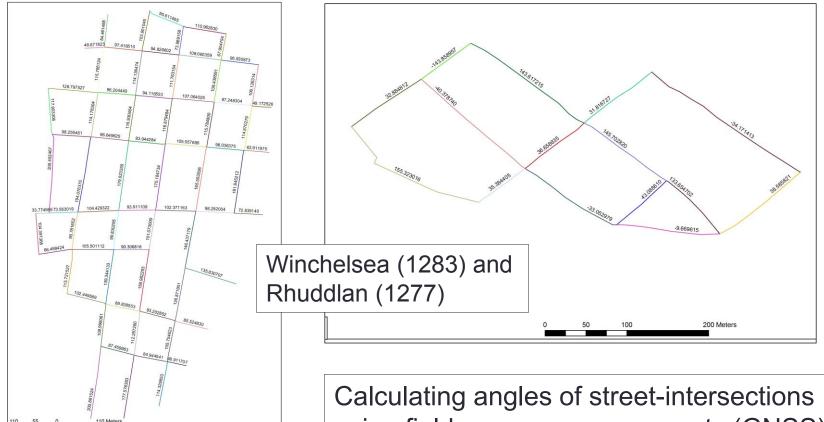
Comparing urban forms in GIS: looking for common design traits in the new towns of Beaumaris and Conwy



See Lilley K D, 'Mapping futures? Spatial technologies and the medieval city – a critical cartography', *Post-Classical Archaeologies* 2 (2012), pp.227-254

Using analytical methods to identify and quantify recurring patterns and forms in the layouts of Edward I's new towns in England and Wales:

eg were similar designs used between medieval new towns?



using field-survey measurements (GNSS) to analyse comparative urban form.

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