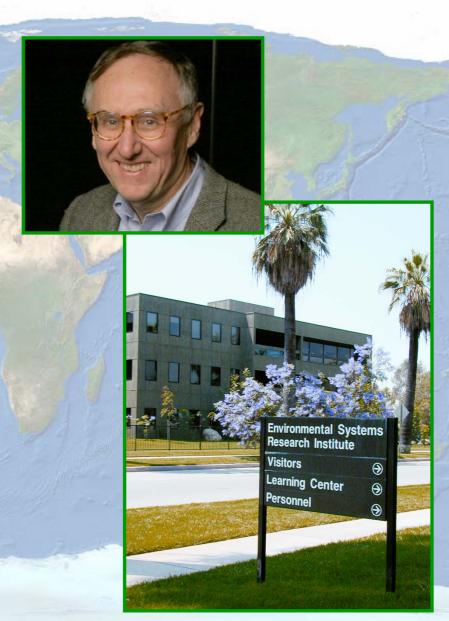


Real Life Applications of GIS

Mark Corbin – ESRI (UK)

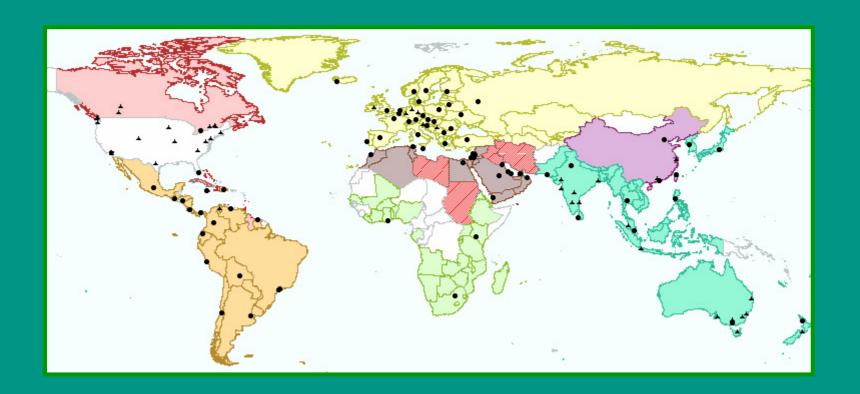
ESRI - Truly International

- Founded in 1969
- Operates in 220 countries
- More than 1,500,000 licences in use within 350,000+ client sites
- More than 3,000 staff
- Privately owned
- Profitable and sustainable
- \$100 million annual R & D spend
- Headquartered in Redlands, California



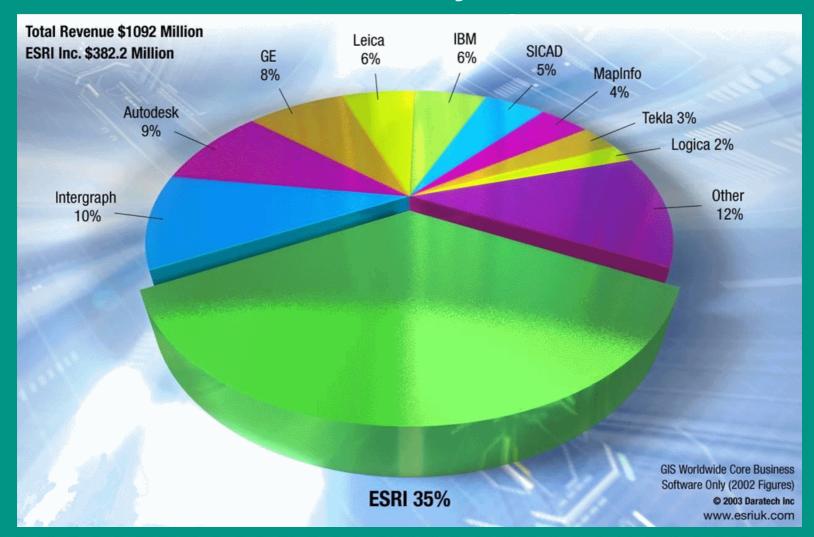
ESRI Regional Offices and International Distributors

- 11 Domestic Regional Offices
- 77 International Distributors
- Users in more than 220 countries





Market Share by Revenue





ESRI (UK)

Mission

 To help our customers and partners to improve their businesses by implementing the worlds best GIS technology

Size

- Group revenues > £50m
- More than 450 staff
- 8 offices
- Largest pool of GIS skills in the UK

Sustainable growth

 ESRI Holdings Ltd has been ranked 37th in t Sunday Times PricewaterhouseCoopers Pro 100 league table of Britain's private compani the fastest growing profits

Credentials

- Supporting more than 3,000 c
- 14 years experience in deliver enterprise-wide GIS solutions
- Developers of core technolog for ESRI Inc





Industries using GIS today

- Electric/Gas Utilities
- Business/Marketing
- Telecommunications
- Transportation Logistics
- Petroleum & Mining
- Pipeline
- Water & Wastewater
- Health Care
- Government
- National Agencies
- Environmental Management
- Local Government

- Public Sector
- Retail
- Military/Intelligence
- Mapping/Cartography
- Land Use Planning
- Real Estate & Cadastral
- Site Location
- Agriculture
- Forestry
- Land Use Planning
- Insurance Risk Management



Private Sector Customers







R M S









Risk Management Solutions





mouchelparkman





























amey





















BENFIELD



GUY CARPENTER

























FLUOR



Public Sector Customers

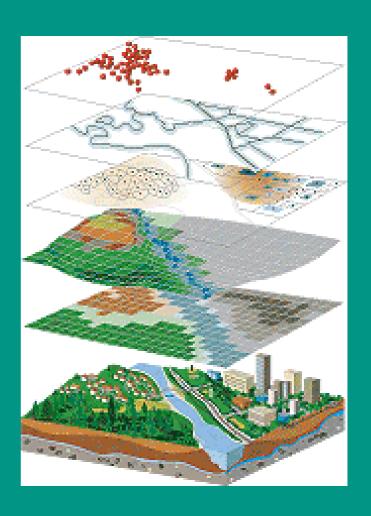
- Environment Agency
- Ordnance Survey
- Forestry Commission
- Defence Estates
- Crown Estates
- English Heritage
- Met Office
- Dept of Communities and Local Government
- Scottish Executive

- Kent County Council
- Glasgow City Council
- Bracknell Forest District
- Bristol City Council
- Norfolk County Council
- Cambridge City Council
- Newcastle City Council
- Aylesbury Vale District Council
- Wiltshire County Council



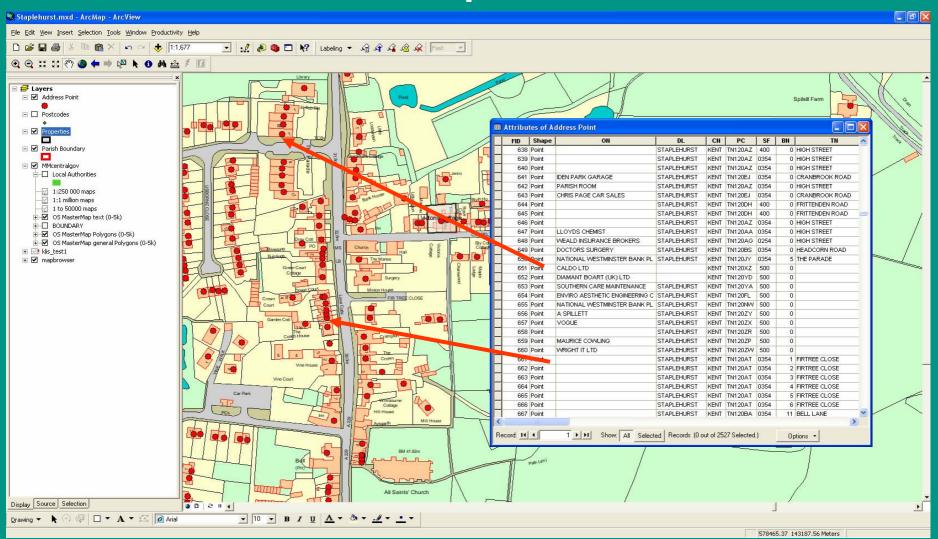
What is GIS?

- Abstracting and modelling our world
- Layers of data representing real world features
- Discrete features e.g. roads
- Surfaces e.g. elevation





The Combination of Maps and Databases





Demo 1: Displaying and Presenting GIS Data

- Add Layers
- Set Symbology
- Set Scales
- Finding Information
- Define Map for Printing



Examples of GIS Applications

Local Government

- Planning Applications
- Parking Suspension
- Highways Maintenance
- Street Furniture
- Emergency Planning
- Transport
- Environmental



Mobile Library Service

- Library Depots
- Stop Locations
- Hours on the road
- Route Optimisation
- How many vehicles?



Outputs

Southam Route 2



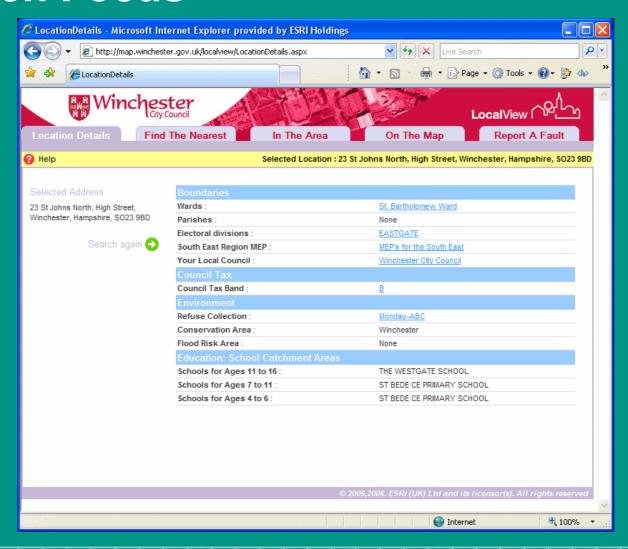
[-	Route	: Southa	m - Sou	tham	37.1 5 hr 11 mi min
	1:	0 mi	09:45	Start at Southam	
	2:	0 mi	09:45	Go East on Park Lane toward Market Hill/High Street	< 0.1 mi < 1 min
	3:	0 mi	09:45	Turn left on High Street	$\leq 0.1 \; mi \leq 1 \; min$
	4:	0.1 mi	09:45	Continue on Coventry Street	0.2 mi < 1 min
	5:	0.3 mi	09:46	Continue on Coventry Road	0.3 mi ≤ 1 min
	6:	0.6 mi	09:47	Bear left	$\leq 0.1 \text{ min} \leq 1 \text{ min}$
	7:	0.6 mi	09:47	Go on A423 (Coventry Road)	1.6 mi 4 min
	8:	2.2 mi	09:51	Bear left on Green	< 0.1 mi < 1 min
	9:	2.3 mi	09:51	Bear left on Church Road	0.2 mi < 1 min
	10:	2.5 mi	09:51	Arrive at Long Itchington (5) (Stop ID 306), on the right Service Time: 30 mm	30 min
	11:	2.5 mi	10:21	Depart Long Itchington (5) (Stop ID 306)	
	12:	2.5 mi	10:21	Continue West on Church Road	0.1 mi < 1 min
	13:	2.6 mi	10:22	Arrive at Long Itchington (1) (Stop ID 304), on the right Service Time: 15 mm	15 min
	14:	2.6 mi	10:37	Depart Long Itchington (1) (Stop ID 304)	
	15:	2.6 mi	10:37	Go back East on Church Road	< 0.1 mi < 1 min
	16:	2.7 mi	10:37	Turn right on Bascote Road	0.9 mi 2 min
	17:	3.6 mi	10:39	Bear right	1.6 mi 3 min
	18:	5.2 mi	10:42	Turn right on A425	0.6 mi 1 min
	19:	5.8 mi	10:43	Make sharp left	< 0.1 mi < 1 min
	20:	5.8 mi	10:43	Turn left on Harbury Lane	≤ 0.1 mi ≤ 1 min
	21:	5.8 mi	10:44	Arrive at Ufton (Stop ID 343), on the right Service Time: 25 min	25 min
	22:	5.8 mi	11:09	Depart Ufton (Stop ID 343)	
	23:	5.8 mi	11:09	Go back North East on Harbury Lane	< 0.1 mi < 1 min
	24:	5.9 mi	11:09	Turn left	< 0.1 mi < 1 min
	25:	5.9 mi	11:09	Bear left on A425 (Ufton Hill)	1.4 mi 3 min
	26:	7.4 mi	11:12	Bear left	< 0.1 mi < 1 min
	27:	7.4 mi	11:12	Continue on B4455 (Fosse Way)	1.1 mi 2 min
	28:	8.4 mi	11:14	Arrive at Harbury (Stop ID 344), on the right Service Time: 15 min	15 min
	29:	8.4 mi	11:29	Depart Harbury (Stop ID 344)	
	30:	8.4 mi	11:29	Continue South West on B4455 (Fosse	1.1 mi 2 min



Demo 2: Routing Functions



Citizen Focus



Knowing where to clean - quickly



Private Sector

- Transport
- Civil Engineering
- Environmental Management
- Petroleum
- Telecommunications
- Water
- Gas & Electric
- Insurance



Example: Insurance

- Importance of Postcodes & Addresses
- Accurate Risk Assessment
- GIS Underpinning Underwriting
- Fraud
- Customer Support
- 1000% ROI
- Example Customers: R&SA, Norwich Union





- Mapping Expertise in Disaster Situations
- Common Operational Picture
- Emergency Supply Access
- Latest news: Pakistan floods



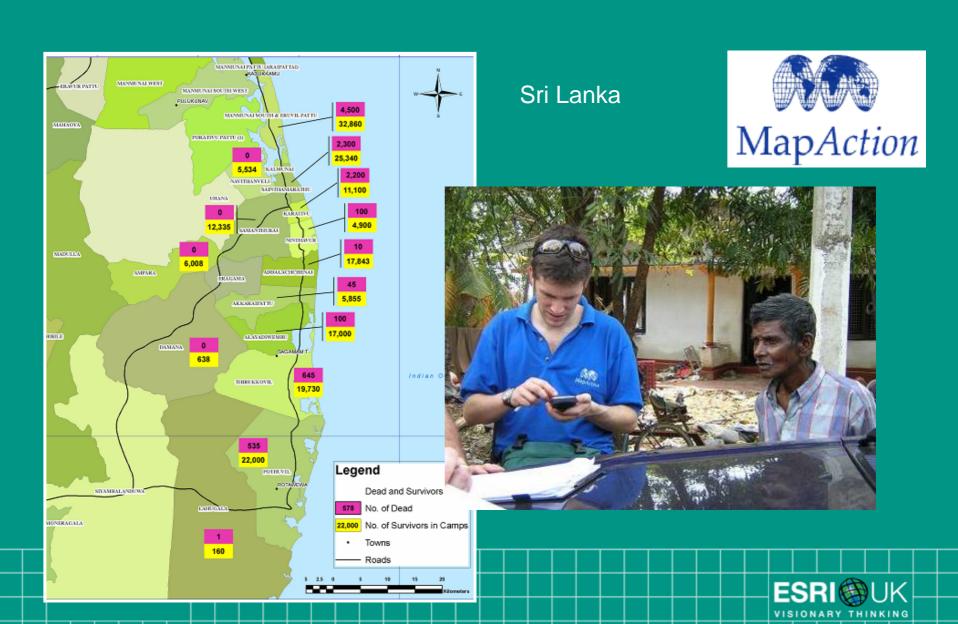
BBC July 2007



Humanitarian Applications



Humanitarian Applications



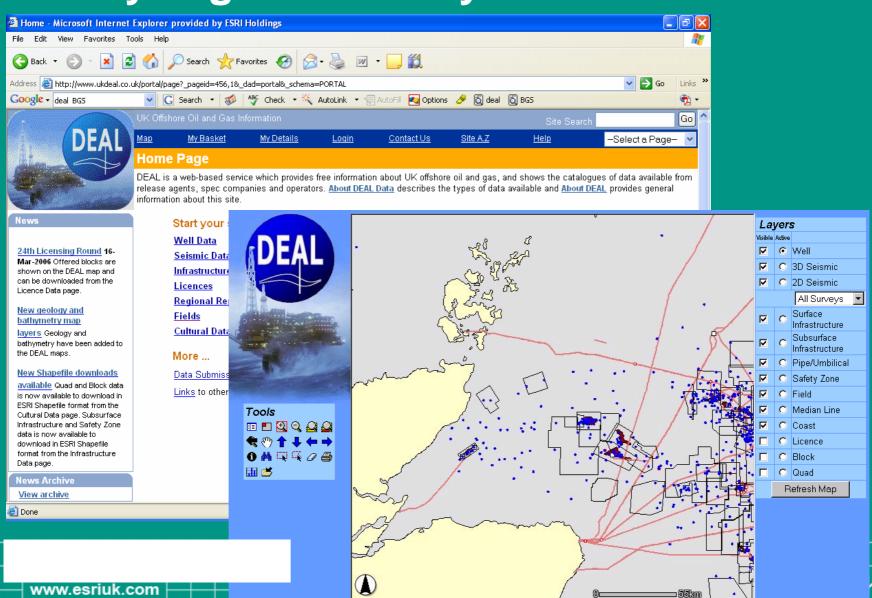
Education

- ESRI software used in >65 Universities
- Schools: Digital Worlds

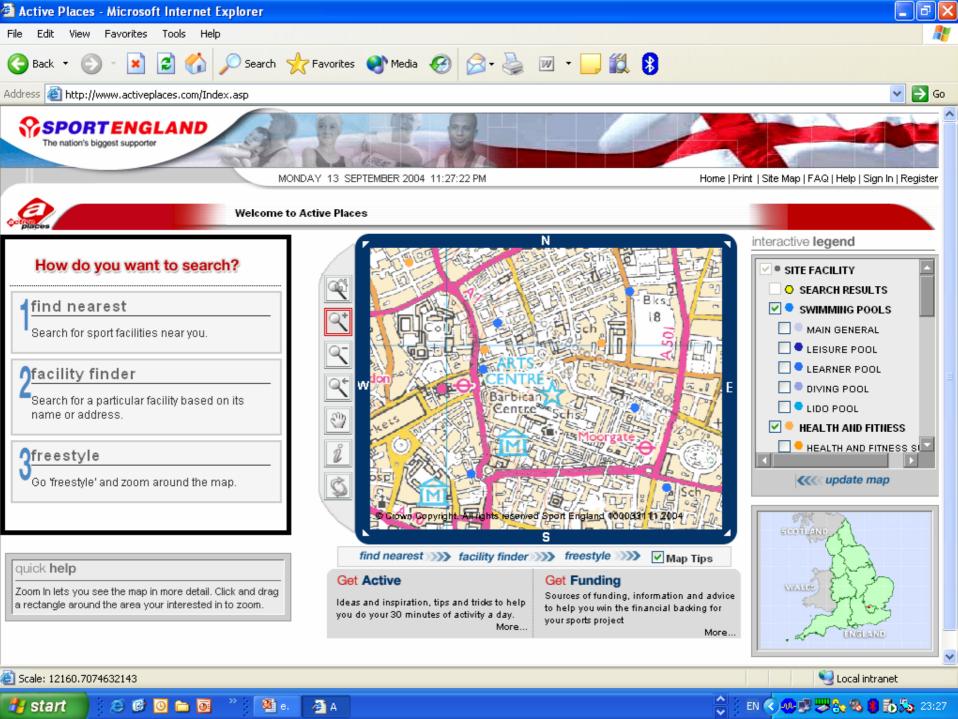




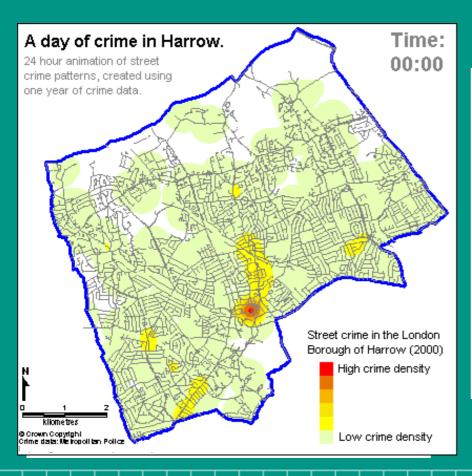
Analyzing Oil Industry Assets

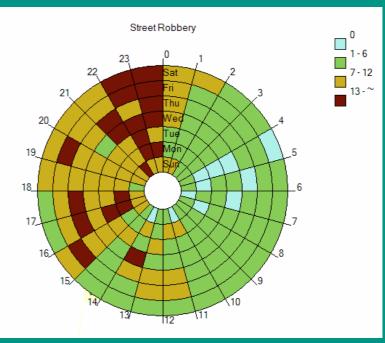


VISIONARY THINKING



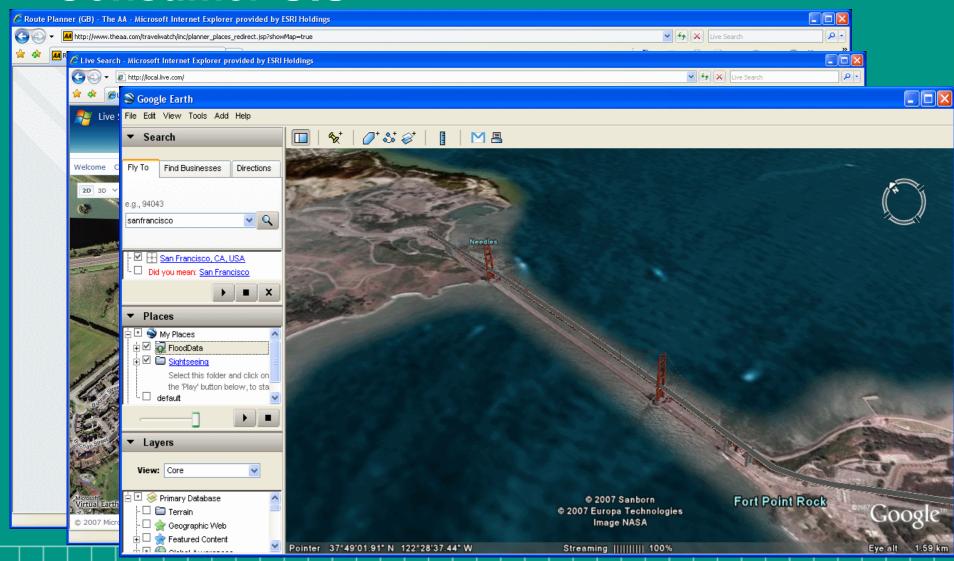
GIS for Temporal & Spatial Crime Analysis







Consumer GIS



Advanced GIS

www.esriuk.com

Video Clip



Web sites to look at...

www.gis.com www.gisday.com www.esriuk.com/schools www.digitalworlds.co.uk





of it. This isn't your elementary school's geography. This is using geography, and GIS technology, to gain new insights and make better, more informed decisions, Learn more about why Geography Matters and how GIS can give you the Geographic Advantage!

Why and How To Participate → for GIS Professionals → for Educators --- for Students

Questions?

