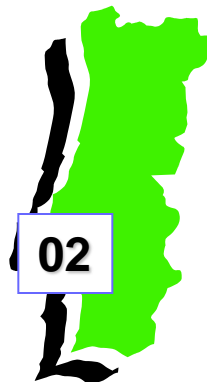
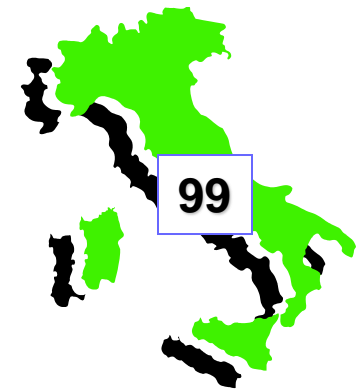
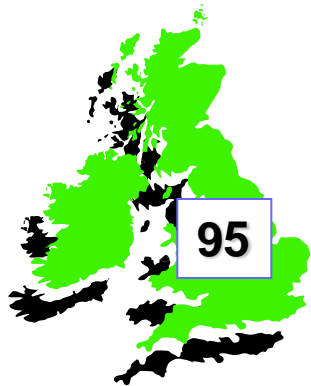


Looking Back to the Future the ETHICOMP decade

Terry Bynum and Simon Rogerson



The ETHICOMP decade



Totals at ETHICOMPs - 601 Papers, 34 Countries

Venues - Leicester, Madrid, Rotterdam, Rome, Gdansk, Lisbon, Syros, Linköping

Papers - UK	163	27%
Rest of Europe	204	34%
All of Europe	367	62%
USA	159	26%
Rest of the World	75	12%

Delegates' Continents - Europe, North & South America, Australia/New Zealand, Asia, Africa



601 ETHICOMP Papers in Eight Conferences

1995	43	7%
1996 (in English)	46	8%
1998	74	12%
1999 (Rome)	98	16%
2001	83	14%
2002	78	13%
2004 (Greece)	97	16%
2005	82	14%

Average (8 conferences) 75 papers each

Broad Topics at ETHICOMPs 95 & 96

The Nature of Computer Ethics
Teaching Computer Ethics
Data Protection and Privacy
Professional Responsibility
Ownership of Software
Computers and Security
Justice and Access to Computing
Computing and Human Values
Computing and Globalization
Computing and the Workplace
Computing and Business
Computing and Government
Internet Ethics



Wide Diversity of Topics Under Broad Categories

Computers and Security

Computers and Crime

Hacking and Cracking

Viruses, Worms, Bombs

Computers and War

Software Ownership

Piracy of Software

Free Software Movement

'Open Source' Movement



Wide Diversity of Topics Under Broad Categories

Justice and Access

Computers and Women

Persons with Disabilities

The “Digital Divide”

Workplace Issues

Unemployment

Surveillance

Teleworking

Wide Diversity of Topics Under Broad Categories

Data Protection and Privacy

Privacy and Human Dignity

Electronic Medical Records

Data Mining

Data Matching

Professional Responsibility

Codes of Ethics

Licensing Professionals

Systems Design

Software Failures

the ETHICOMP decade

CD
(Beta Version)



A framework that stood the test of time

- **Ethical Development (PRACTICE)**
 - This is concerned with the use of development methodologies and the consideration of ethical dilemmas, user education and professionalism.
- **Ethical Technology (PRODUCT and SERVICE)**
 - This is concerned with the advances in technologies and the likely ethical issues they raise as they are applied to business and societal problems.
- **Ethical Application (POLICY)**
 - This is concerned with developing ethical strategies which allow technology to be exploited in an ethically acceptable way.

Practice

- Activity participation

- Function creep(95) Surveillance(98) Chinook Helicopter disaster(02) Y2K(99)

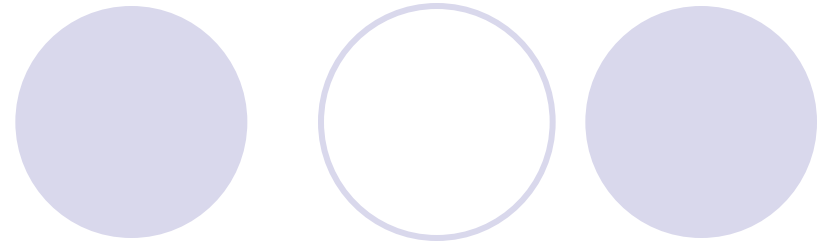
- Behaviour

- Social responsibility(96) Gender(97) Poor practice(04)

- Processes

- BPR(96) Teleworking(97) Risk Management(05)

Product and Service



- Technology

- Information superhighway(95) Internet(98)
Smart CCTV(02) mobile phones(03) RFID(04)

- Information Systems

- Ecommerce(98) Electronic patient records(00)
electronic voting(02)

- Services

- Healthcare sites(01) Auction sites(03) Online
learning(05)



Policy

- Government

- ID cards(95 & 03) Privacy(97 & 99) Information integrity and access(05)

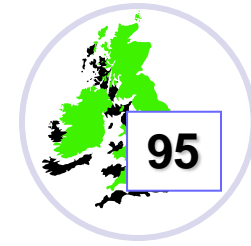
- Organisation

- Data matching (97) Surveillance(98) Civic duty(01)

- Society

- Human values(96) Minority access(99) E citizen rights(03)

Technological Context



- Java is introduced
- Amazon.com is officially opened
- USB standard is released
- Computer TouchPad offers substitute for the mouse
- Toy Story is the first full-length feature film to be completely computer generated

Technological Context



- WebTV is introduced
- Netscape introduce the cookie
- 100,000 World Wide Web sites
- 45 million Internet users
- Microsoft launches Internet Explorer
- the Palm Pilot is available for consumers

Technological Context



- computers that cost less than \$1,000
- TRUSTe organisation operating
- 3,250 newspapers, 1,280 TV stations have websites
- 300 million World Wide Web pages
- 150 million Internet users

Technological Context



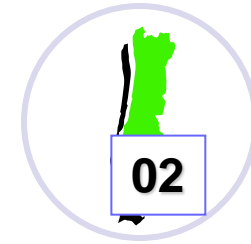
- Victoria's Secret fashion show becomes the first major webcast on the Internet attracting over 1.5 million visitors
- Iomega releases Zip plus
- Melissa is first virus to cause problems worldwide
- 800 million web pages

Technological Context



- AOL membership surpasses 28 Million
- Airlines begin to implement methods of gaining Internet access while flying
- USB 2.0 is introduced
- PC shipments worst since 1986
- 58,000 computer viruses exist
- PCs with CPUs in excess of 1.4 Gigahertz

Technological Context



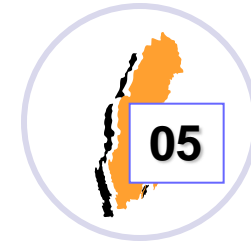
- PayPal is acquired by eBay
- Pop-ups clutter computer screens
- 242 million active Internet users
- Hewlett-Packard and Compaq merge to form the second largest IT company
- development of grids of super computers

Technological Context



- phishing the big security story
- pocket size iPod holds 10,000 tunes
- Google gets 138,000 requests a minute in 90 languages
- 1.5 billion cellphones worldwide
- 296 million active Internet users
- Cabir the first mobile phone virus

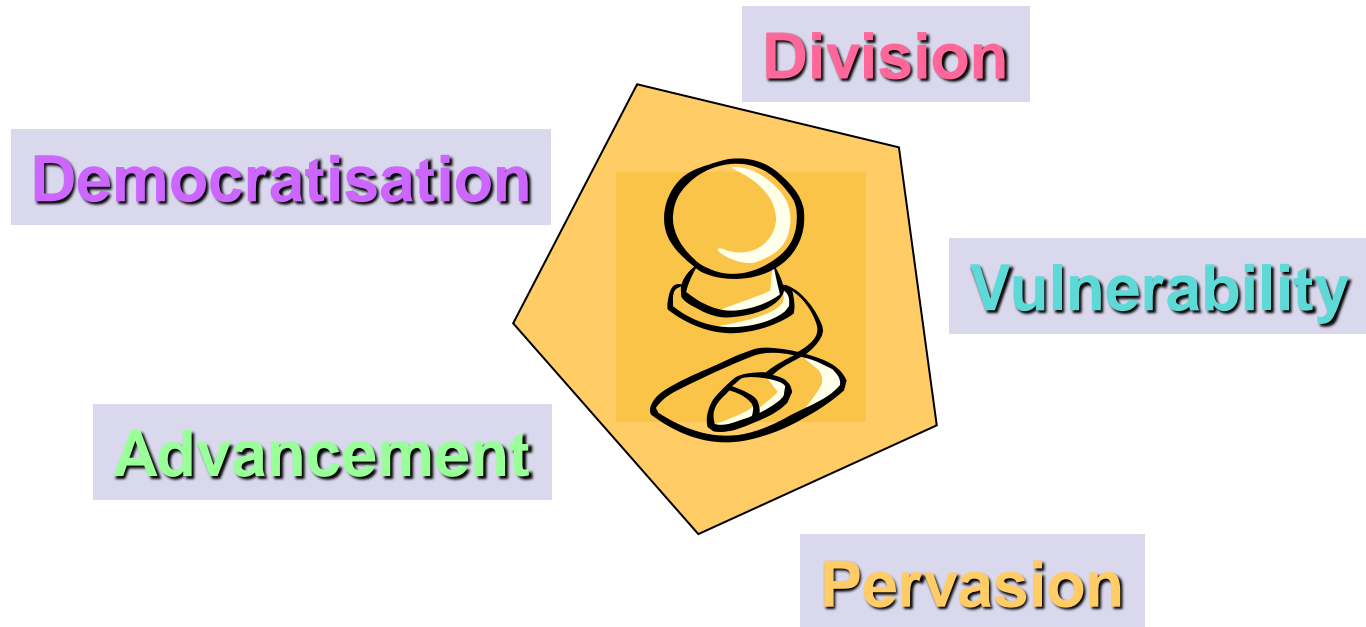
Technological Context



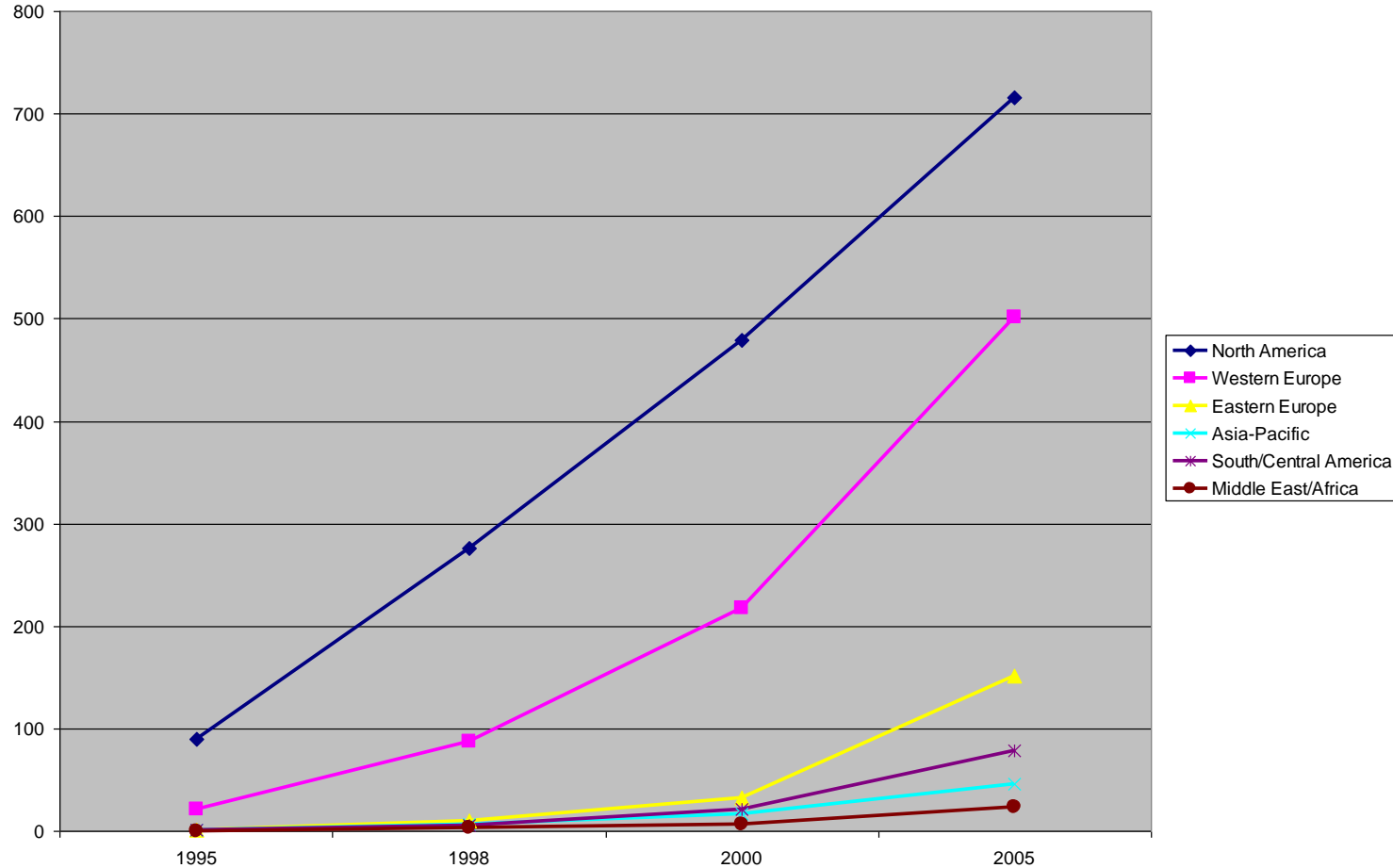
- about four million Java developers and 1.75 billion devices run Java code
- BBC makes 30 pod casts per day and QE2 owns an iPod
- Google indexes over 8 billion pages
- Spam is more than 45% of e-mail traffic
- IBM announces that all sales and support for OS/2 will end in December 2005

Looking Back To The Future

5 associated challenges



Internet users/1000 people

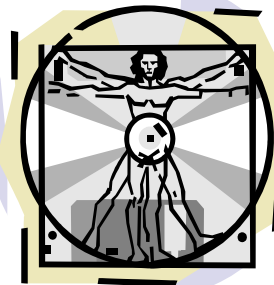


Source: Computer Industry Almanac



ETHICOMP2005

Looking Back To The Future



An Overview



Our challenge

- The social and ethical impact of advances in information and communication technologies (ICT) on society, organisations and individuals
- What lessons can we learn from past successes and failures to help us cope with the future?

Elements

- Papers and Keynotes
- Workshops (Wednesday 11.30)
- Question Time (Thursday 14.15)
- Best Paper nomination
- Feedback and overview (Thursday 15.45)