



Introduction to UKERNA

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Network Development Director



UKERNA, JANET, SuperJANET

- **UK Education & Research Networking Association**
 - operator of JANET
- **Joint Academic NETWORK**
 - UK's network for tertiary education & research
- **SuperJANET**
 - national broadband backbone of JANET

UKERNA



- not-for-profit organisation, publicly funded
 - by higher & further education funding councils
 - members/governance from community served
- **mission:** “supporting and advancing the network for education and research”
 - procure and operate JANET at the leading edge
 - manage initiatives on behalf of funding bodies
 - base budget approx. £35M per annum

JANET



- UK network for universities and colleges
 - broadband national backbone
 - regional distribution networks (procured and run by university/college consortia)

growth:	1984	50 sites:	64 kbps backbone
	1993	200 sites:	34 Mbps backbone
	1998	300 sites:	155 Mbps backbone
	2002	800 sites:	10 Gbps backbone

UKERNA in Scotland



Jim Buchan

- procurement of SuperJANET in Scotland
- liaison with Scottish HE/FE regional networks
- technical advice to Digital Scotland Pathfinder procurements

base: Aberdeen

Janet Laurie

- connection of FE sector in Scotland
- liaison with Scottish HE/FE regional networks and LTS etc.
- co-ordination of support services to sector

base: Glasgow



Extending to schools' networks

- **Wales** — connection of Lifelong Learning Network for Wales to SuperJANET
- **England** — interconnection of Regional Broadband Consortia networks via SuperJANET
- **Scotland** — spark interconnect: proposed interconnection of LA schools' networks via SuperJANET



Why use SuperJANET at all?

- public policy
 - SHEFC, SFEFC, SEED: promote collaboration between education sectors
- cost effectiveness
 - economy of scale: savings in cost of providing the interconnect mean more can be directed at other services
- common applications interest



Our goals for today ...

- acquaintance
- guidance on network design principles
- some actions to take away

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