janet

Connecting research & education in the UK

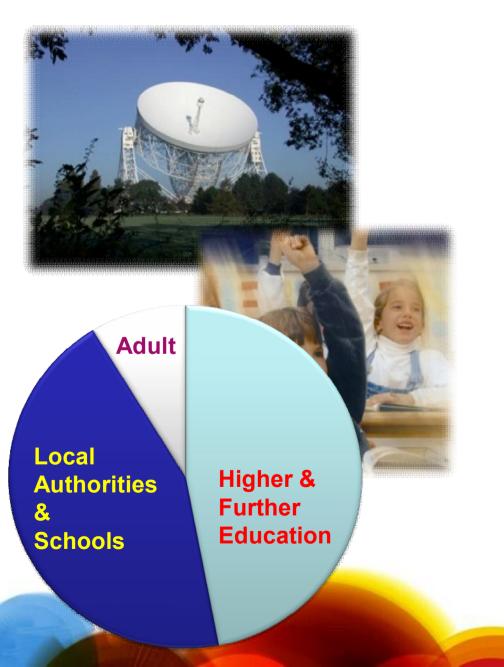
Josh Howlett Head, International Collaboration

22 May 2013 CEENGINE, Kiev



The UK's research and education network

- Available to 18M users
 - Higher & Further Education
 - Academic research
 - Primary & Secondary schools
 - Adult & community learning
- Over ¼ of the UK population
- Janet is a not-for-profit company, owned by the UK's research & education community



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Meeting customer requirements









•To deliver a highly reliable and secure network

- Careful design choices
- Carrier class network equipment & infrastructure
- Strict SLA's

•To provide a network that is flexible in meeting future demand

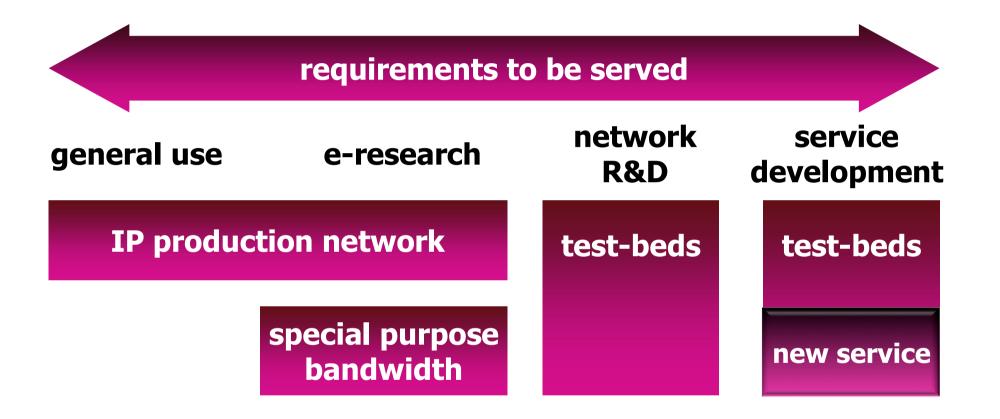
- Design enable capacity scaling at controllable cost

•To provide a network that is more agile in dealing with change

- Management by Janet NOC
- Close working relationship with industry partners

Janet's national and regional architecture



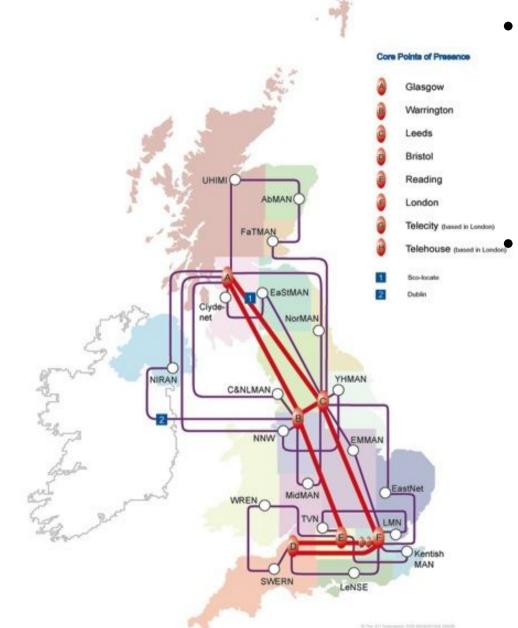


flexible transmission platform



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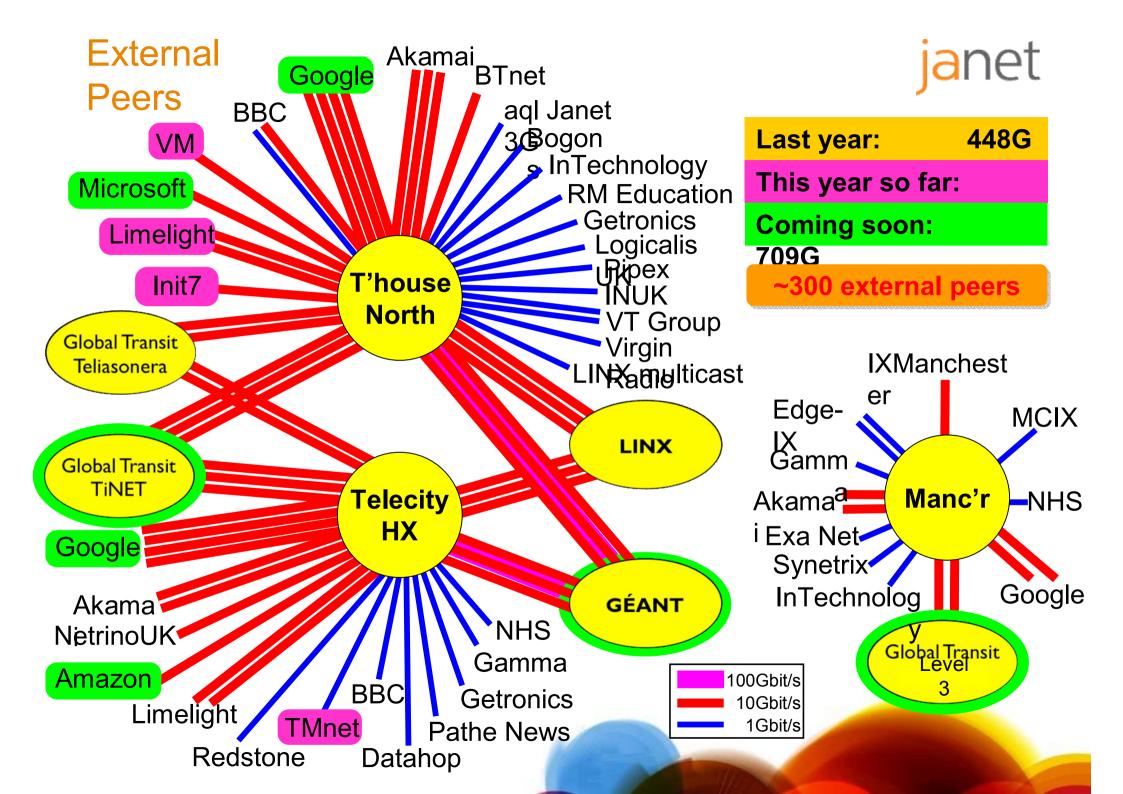
Current network – SuperJanet5 – 2006 to 2013 janet



Dedicated transmission
 infrastructure provided
 to Janet by Verizon
 Business

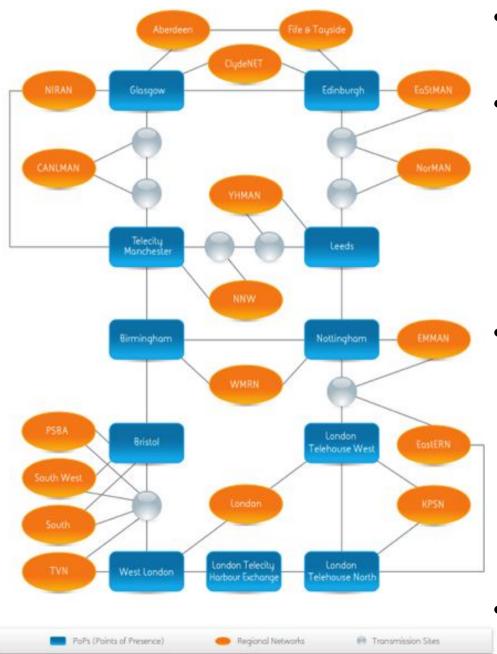
Janet operates the IP and Ethernet services





Janet6

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- Replacement of the Janet UKwide backbone
- Design and delivery rooted in customer requirements
 - Highly scalable
 - Highly reliable
 - Flexible
- Key specifications:
 - 6500km fibre
 - Ciena 6500 transmission platform, scalable to 8.8Tb
 - Juniper T4000 & MX960
 - Managed by the Janet NOC
 - In operation mid-2013

Services



- Janet delivers 40+ services
- Connecting to Janet
- Technical advice
- Security
- Communicating
- Infrastructure
- Research
- Training
- Purchase frameworks
- Cloud

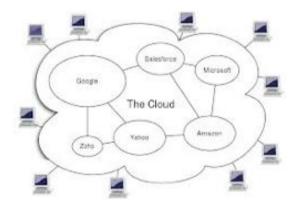


There's going to be more!

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Video services

- Any video client
- Multiple participants
- Easy scheduling
- Customisable

Telephony

- SIP based telephony delivered over Janet

Access and Identity Management

- Integrated product set, including eduroam and other AIM services
- Moonshot: the future of AIM
 - Janet pilot with 44 organisations
 - GÉANT pilot

Mobile services

- Janet 3G
- 4G trials with EE



e-Infrastructure for research: directions & priorities



- maximising research investment
- strengthening cross-border
 links
- open market for researchers
- gender equality
- accessing scientific knowledge
- joint programming

use of e-infrastructure – UK priorities for support:

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- engineering & manufacturing
- life sciences
- energy
- construction (smart cities)
- information economy
- financial & professional services





Thank you

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