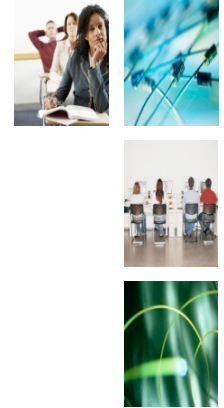


WELCOME

The Future of JANET

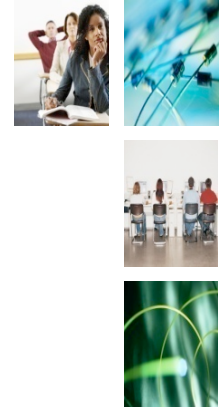


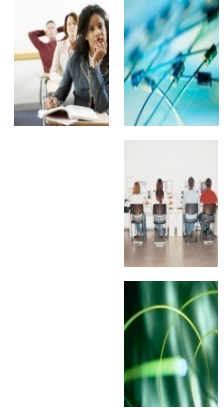
The Future of JANET

Jeremy Sharp

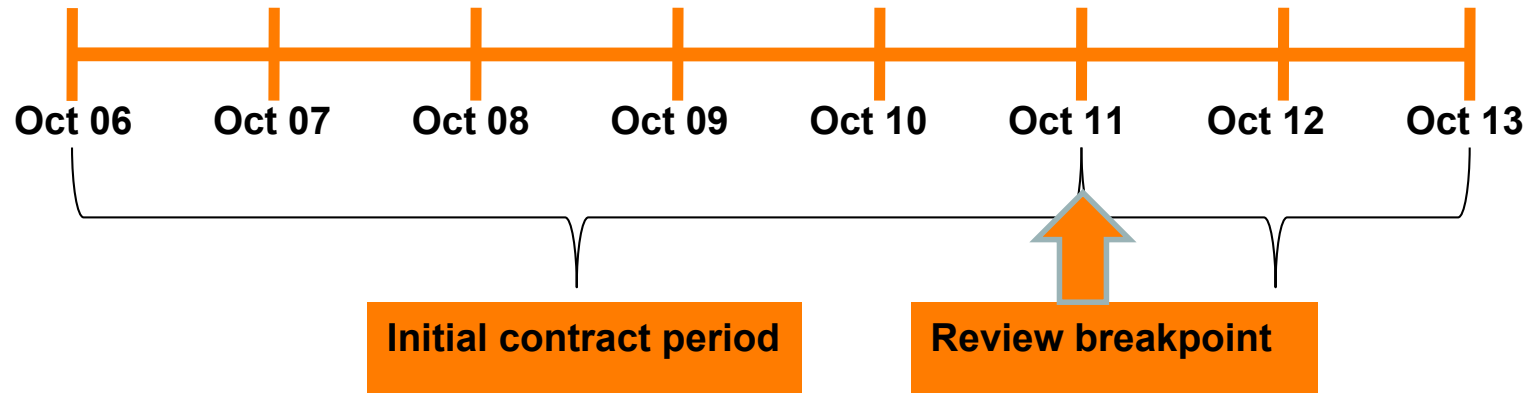
Themes

- SuperJANET5 Update
- SIX



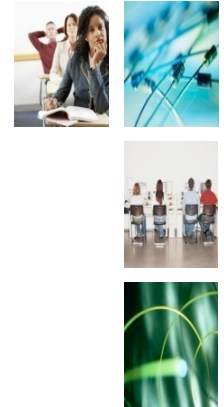


SJ5 Backbone timeline

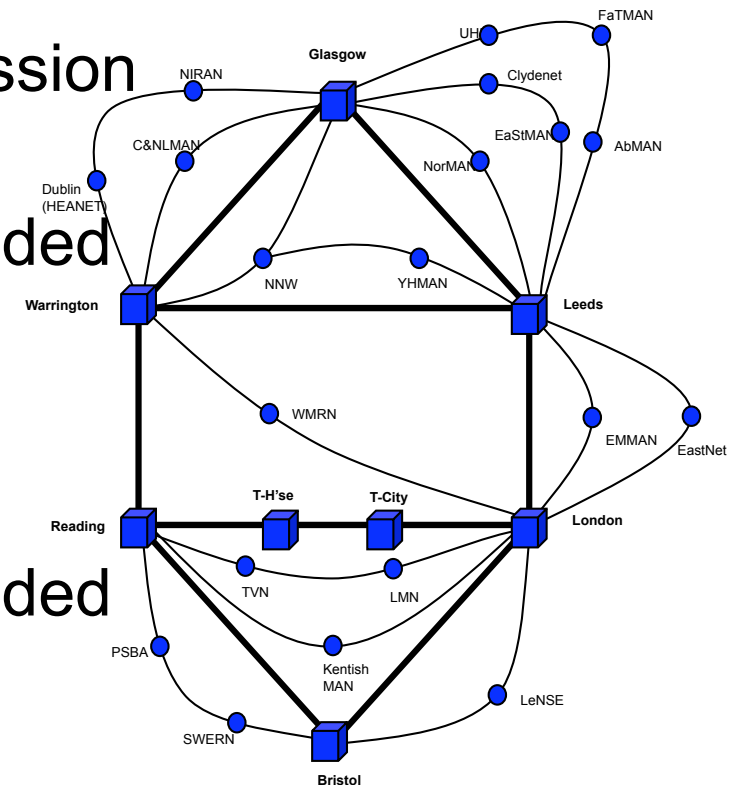


- Fitness-for-purpose reviewed and OK (subject to upgrades)
- Upgrade programme agreed with Verizon

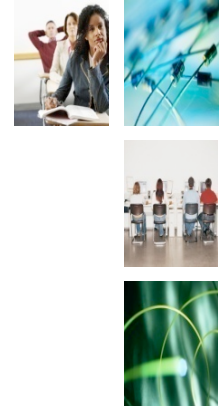
SJ5 contract to 2013



- continuation of network 'as is'
- On a call-off basis:
 - Upgrade capability of core transmission infrastructure
 - Add additional wavelengths as needed to core
 - Upgrade capability of regional transmission infrastructure
 - Add additional wavelengths as needed to regional infrastructure



Predicted bandwidth upgrades

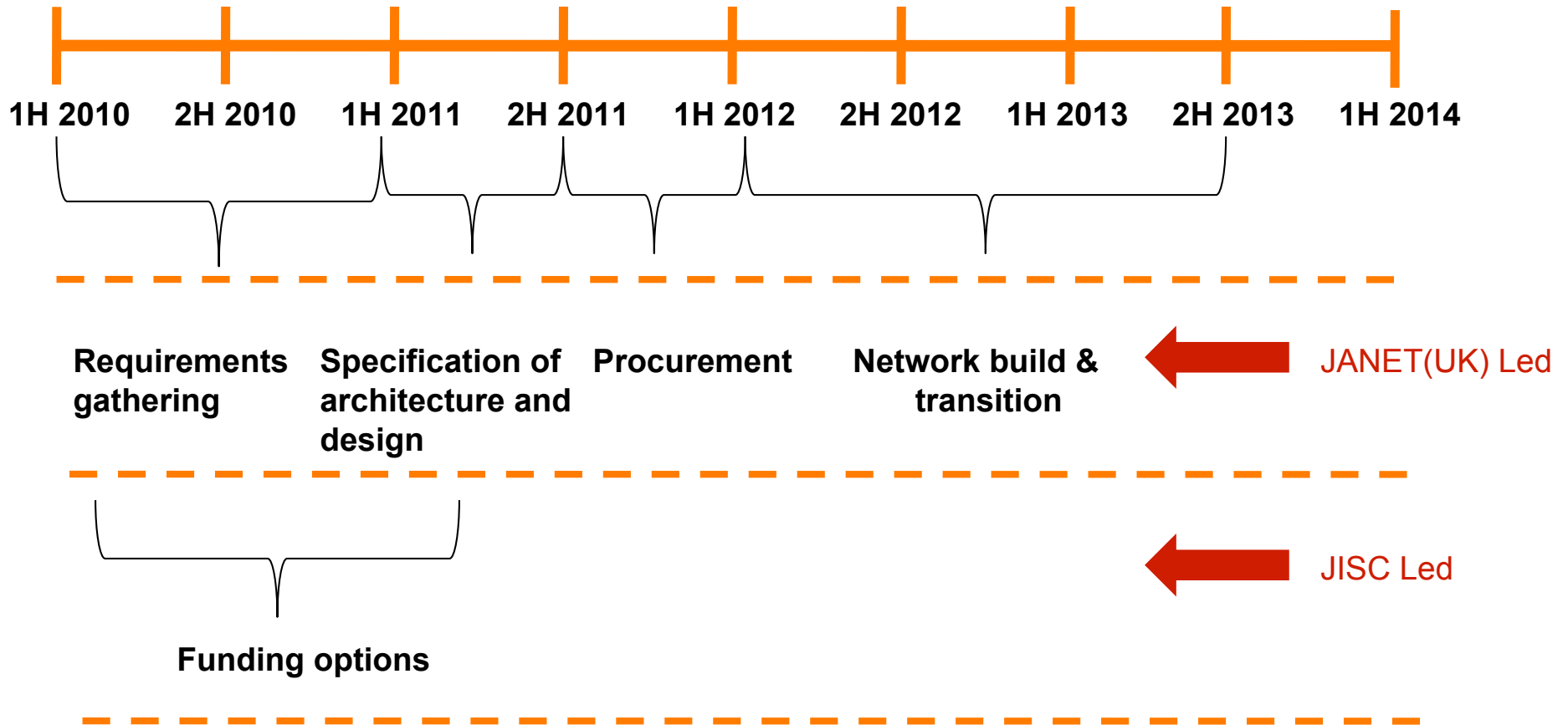
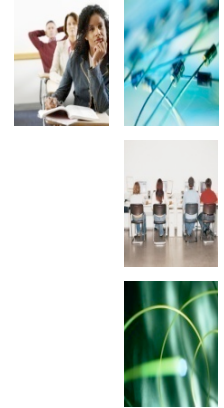


Approx 1 Tb now

By end 2013, approx 2 Tb

	AY 10/11	AY 11/12	AY 12/13
extra links needed:	2 x 10G	8 x 40G 25 x 10G	6 x 40G 2 x 10G
TOTAL Additional Capacity PA	20 G	570 G	260 G

SIX – Indicative steps & timescales



SIX – first steps

JISC led - Funding Options Group

- Consider range of funding options
- Report to JIR committee in Feb 2011

JANET(UK) led – Requirements gathering

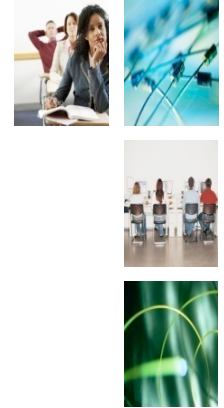
- Study areas
- ‘Call’ for requirements
- Requirements gathering workshops

End result

- Strategy for future of JANET: Backbone; Regional delivery; International

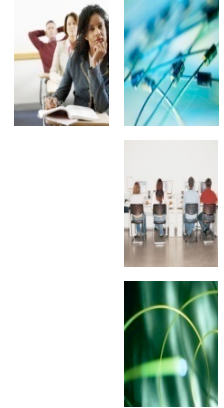
Regional delivery strategy

- Being implemented,

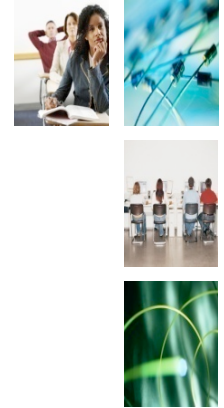


New funding models?

- when will costs really exceed central income?
 - student expectations
 - move to outsourcing
 - impact of CSR on JISC budgets
- charging out to individual institutions?
 - basic entitlement + top-up model?
 - e.g., extra services, bandwidth, reliability
 - develop models with JIR
 - dates for introduction?



Requirements gathering activities and studies



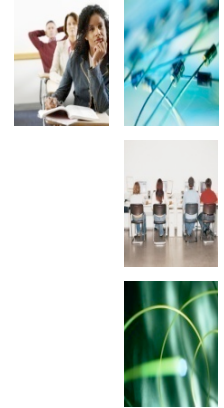
Requirements gathering

- Invitation to provide input sent to all JANET connected institutions
- Series of workshops with representative bodies scheduled
- Open event for Network Managers on 21st October



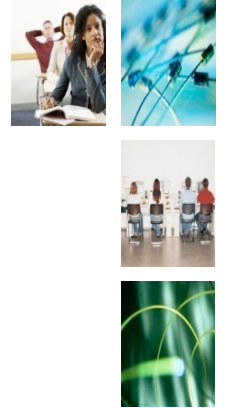
‘Studies’

- Review of telecoms market
- Review of impact on JANET of remote hosted apps / data centres



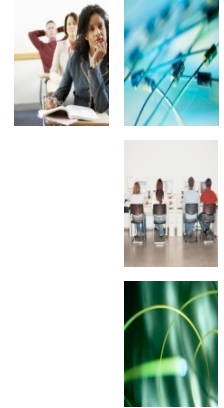
General early findings

- Mission critical nature of JANET
- Move to remotely hosted apps/data
 - Connectivity options for content & service providers
- Connection with other sectors
 - Higher Information assurance levels
- ‘Climate commitment’. Look to JANET to help deliver



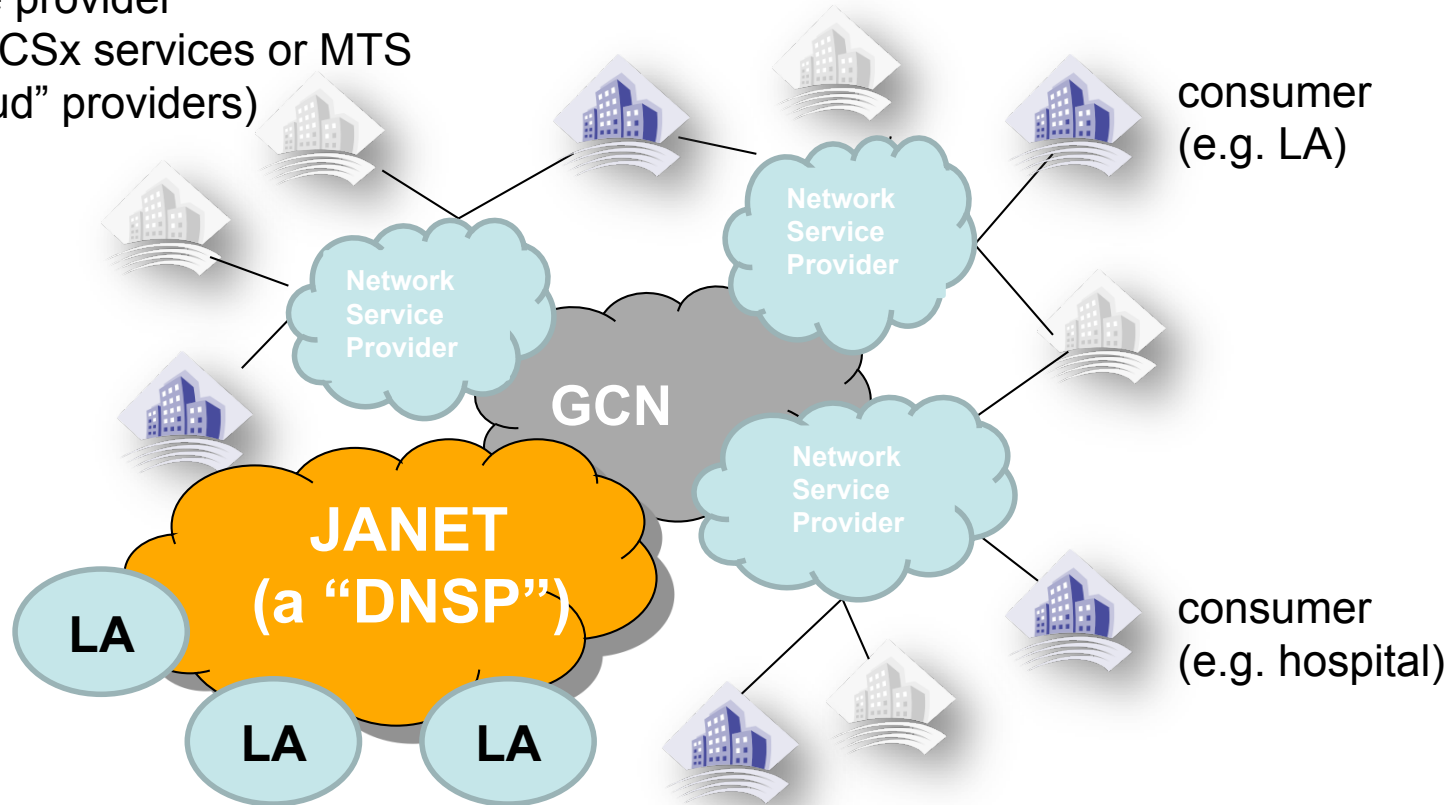
Questions

Public Sector Networking (PSN)

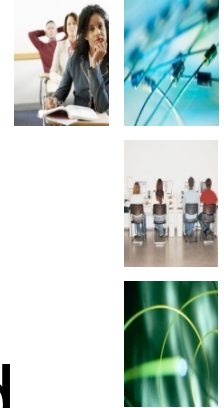


service provider
(e.g. GCSx services or MTS
or “cloud” providers)

consumer
(e.g. LA)



Making JANET a “DNSP”



- trial involving Kent CC, Hants CC and EMBC
 - and Global Crossing (GCN provider)
 - technical feasibility (information security)
 - impact on JANET Operations
 - developing a commercial proposition
- interest from Cabinet Office and SOCITM
- and from commercial network providers ...