



Background and Overview

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Topics for this presentation

- History
- What?
- Why?
- When?
- Who?

... And in a later session before lunch

- A more detailed look at how, when and who.

What is happening?

- All Kentish MAN connected sites will be migrated to use the Kent Public Service Network for regional connectivity
- Over the next 6 – 8 months
- Same speed / performance
- Potentially even better reliability
- Similar cost to connected sites
- Some extra opportunities
 - More detail in a later session

History and background

- Summer 2009, JANET(UK) announced a change to the regional delivery model
 - Delivery directly from JANET(UK) instead of via regional networks
- Early October 2009, it became apparent that Kent MAN's rolling contract would not be renewed
 - Contract ends 30th September 2011
- Kent MAN began discussions with JANET(UK) about the future of connectivity in Kent

JANET(UK)'s goals

- Cost reduction
 - Though not at the expense of service quality
- Technical consistency across the UK
- Improve customer engagement
- Reduction in procurement risk

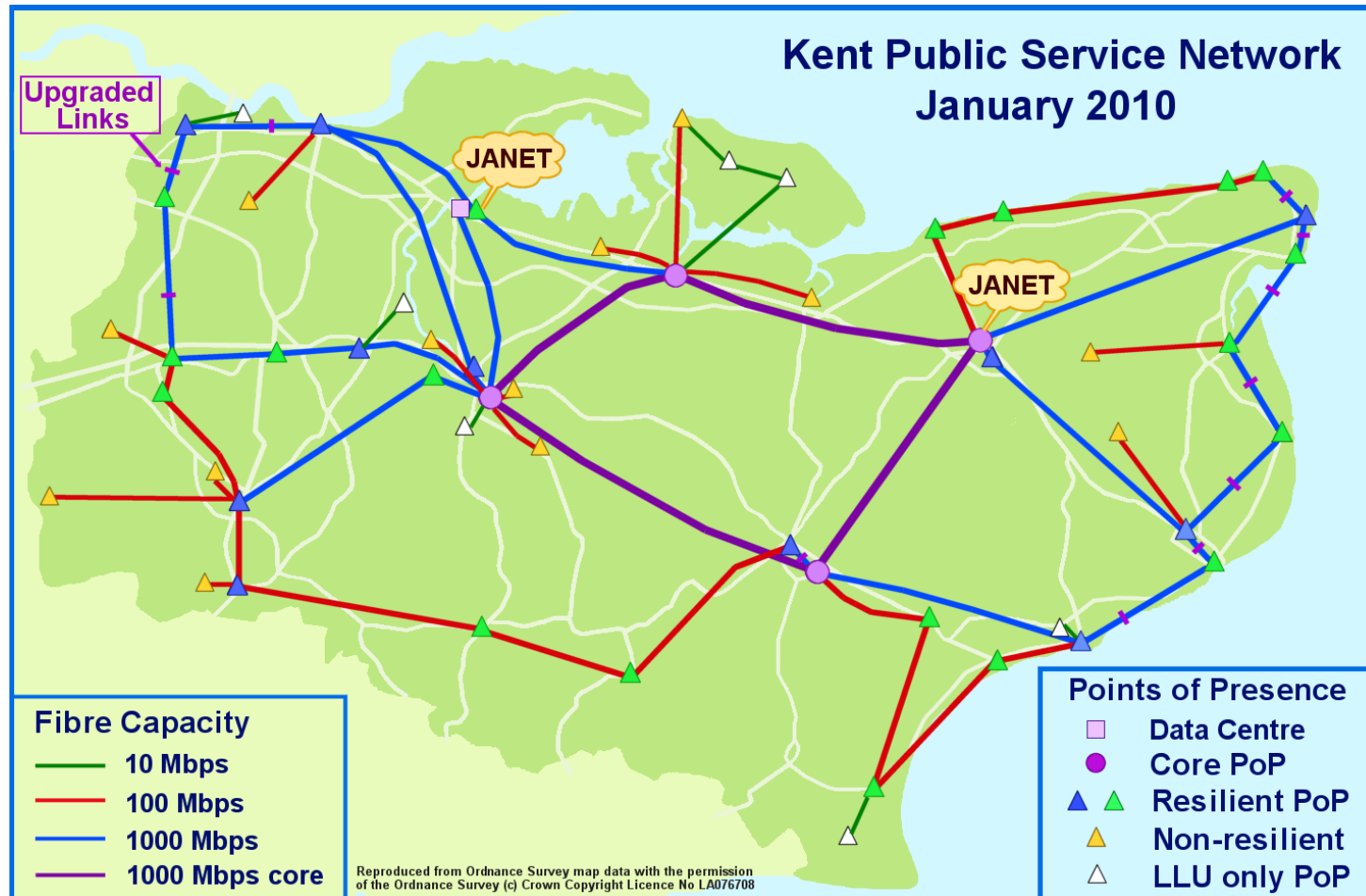
Kent Challenges

- Surrounded on 3 sides by sea
- Mixture of larger towns, coastal towns, and some very rural areas
- Good infrastructure in parts (near London)
- Relatively poor infrastructure elsewhere
 - BT or BT in large parts of the county
 - Even BT's fibre coverage is significantly lacking
- Surprisingly expensive to connect some sites, particularly further flung FE colleges

A possible answer

- The Kent Public Service Network (KPSN)

- Serving all parts of Kent
- Multiple ring design for resilience
- 53 Points of Presence
- Connects 1000+ sites across Kent



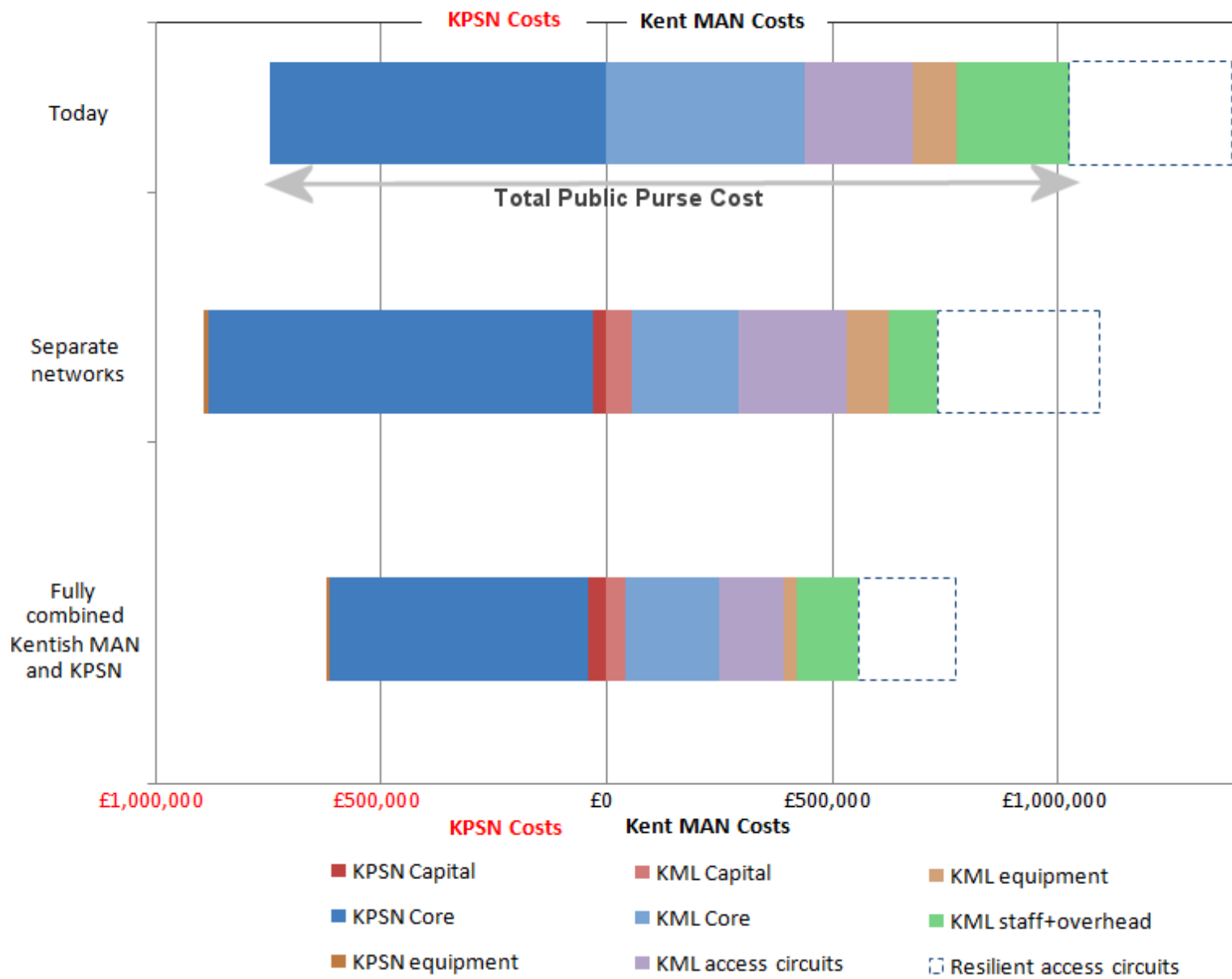
KPSN - A possible answer?

- Very well designed and well run network
- A strong partnership attitude
 - Kent MAN have worked with KPSN for a number of years
- Biggest challenges were political and organisational
- A series of meetings followed with JANET(UK)
- In early 2010, we agreed to formally investigate the use of KPSN

Options and a decision

- Several months of discussion and options analysis
- A number of options were considered
 - JANET(UK) simply take over the existing network
 - Relatively expensive / limited reach
 - Use a Telco provider's network
 - In practice, this means BT
 - Join forces with the Kent Public Service Network
 - Possibly just in parts – to reach far corners of Kent
 - Doing the whole thing made more sense

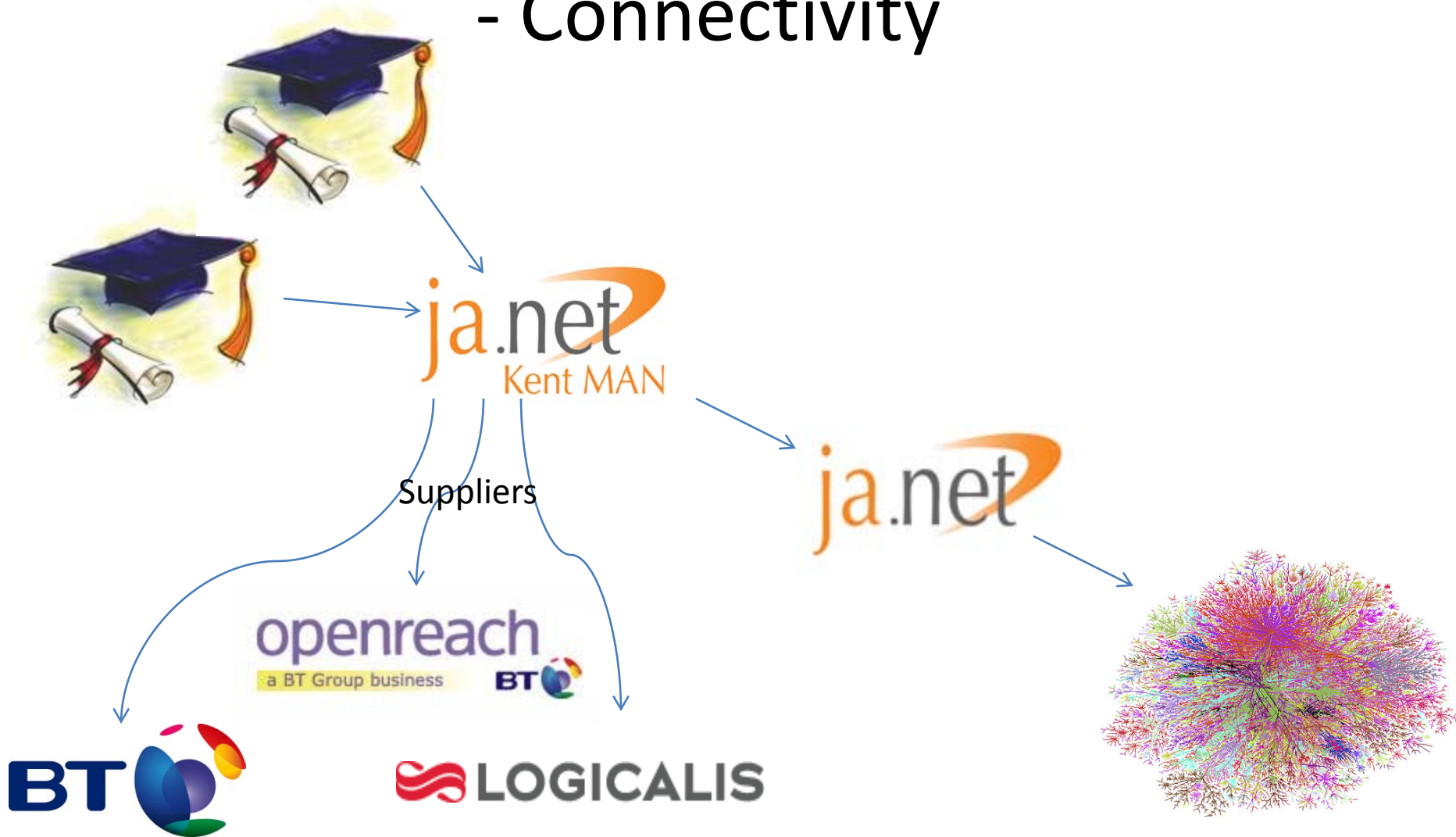
Kent networking cost projections



Challenges of using KPSN

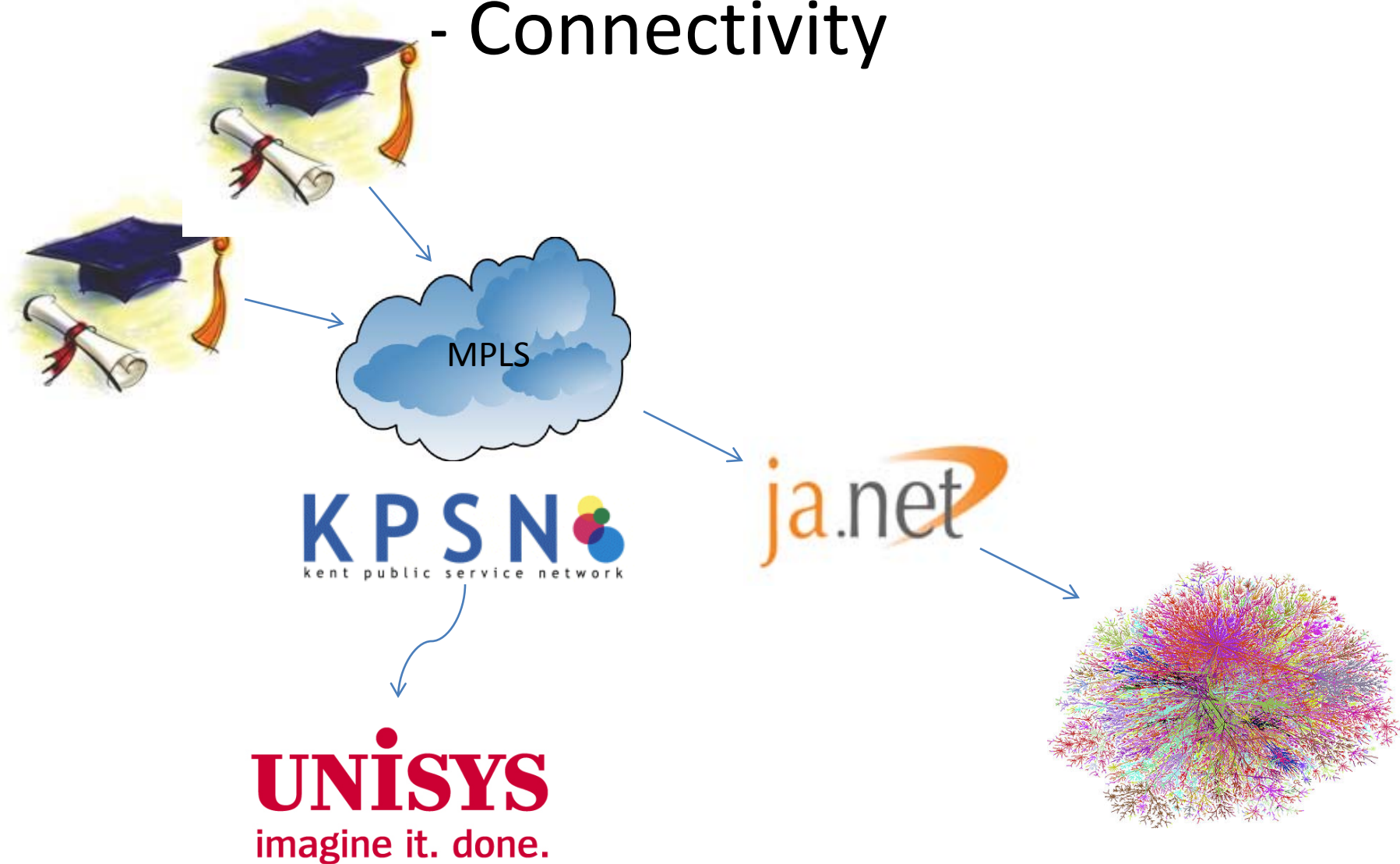
- Biggest concern was and is retaining the very high quality of service that Kent MAN / JANET(UK) has delivered
 - KPSN has a very good track record
 - Extra resilience in KPSN network (more later)
 - JANET(UK) and Kent MAN will work to ensure a smooth transition and continued high quality
- Debates about tertiary education involvement in governance of KPSN
 - Colleges/universities will be represented by Kent MAN on KPSN Boards
- Lack of support for IPv6 and multicast
 - Adding support not too difficult
 - and other KPSN partners will need this in due course
- Lots of detail to deal with

Relationships today - Connectivity



Relationships in future

- Connectivity



Relationships

Contractual – primary connection

Today



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Future



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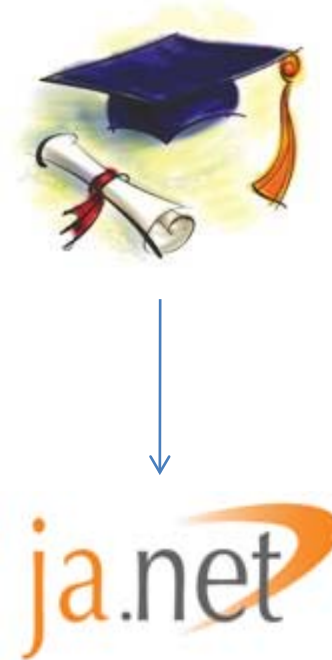
Relationships

Contractual – additional connections

Today



Future



Migration Timescales

- Oct – Dec '10 - Design and testing of the solution
 - Includes a “virtual” test site
- Dec '10 – Pilot site migration
- Jan – Apr '11 – most sites migrated
- May – Jun '11 – Project complete
- Active management of KPSN service delivery throughout and beyond the project
- More detail later

Project Management

- Jon Aldington is the overall programme manager
- John Littledale from JANET(UK)
- Peter Banbury is the key contact from KPSN