Supporting Internet Operations

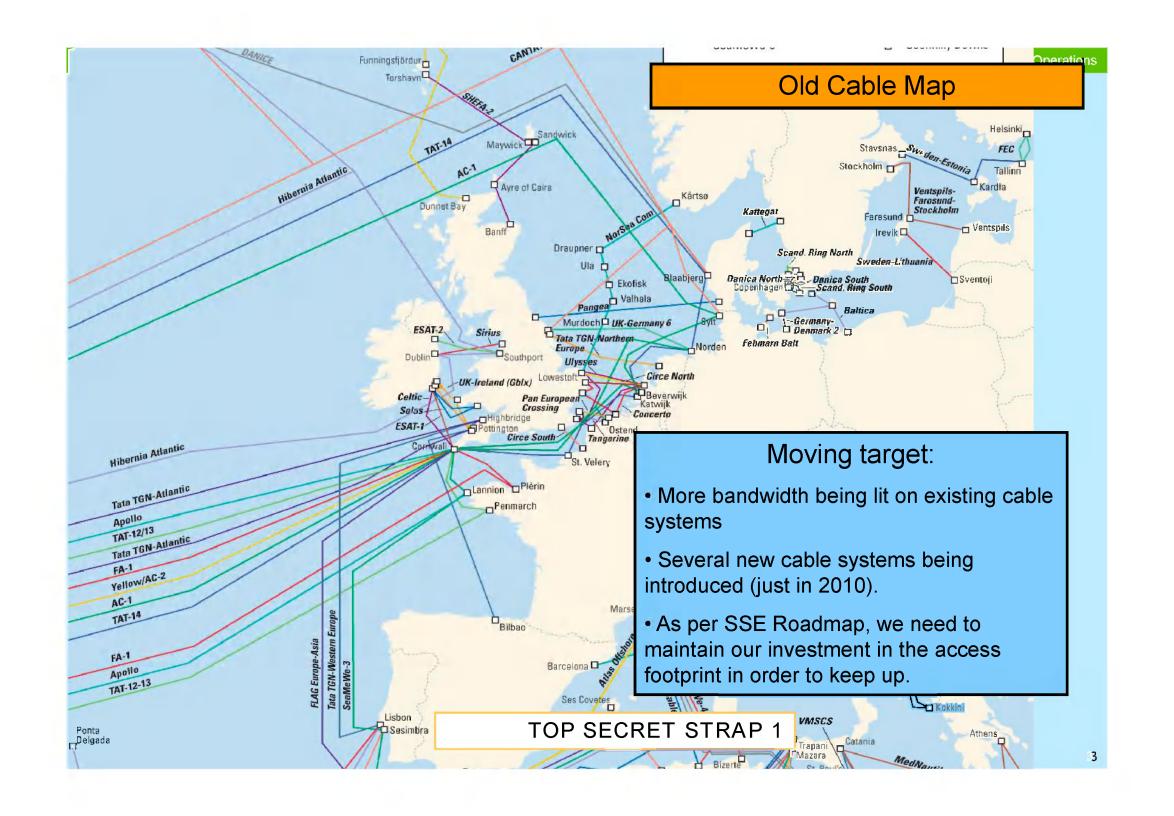
Special Source Access

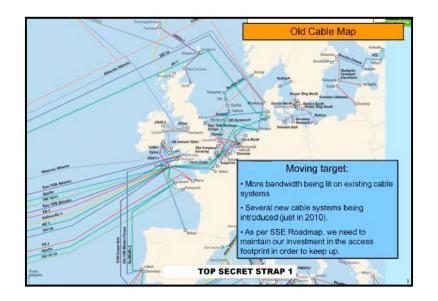


15 mins to cover:

- What does the environment look like
- What does the SSE Roadmap tell us:
 - Current posture
 - ..and where do we want to be
- Where are we now
- Access plans for FY 10/11







- 1. This is a view of the commercial cable systems transiting the UK. There are around 1600 available 10Gs within these cables.
- 2. This is 25% of all internet traffic
- 3. Although the total percentage processed may seem in the lower percentile range we can actually survey the majority of the 1600.
- 4. This allows us to select the most valuable to switch into our processing systems.
- 5. Advancing techniques will allow a greater rate of processing by using targeted techniques (bulk presence events and TIPC).

Current Capability

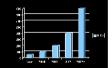
- Following the efforts made for the July deliverable, and the progress being made towards the 100 March 2010 target, GCHQs current 10G SSE capability is:
 - We can intercept/touch: ~800x 10Gs (See note #1)
 - We can cyclic survey: 188
 - We can egress to GCHQ processing: 87 (See note #2)
- In addition we are working with GERONTIC to agree an IRU which will enable a significant reduction in annual running costs (~£2M saving p.a), along with a further 10x 10G egress.

Note #1. Does not include CIRCUIT/WAYGOOD

Note #2. HIASCO access/egress to Bude complete – awaiting extra ARCANO egress



SSE Roadmap / Future Capability

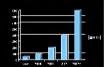


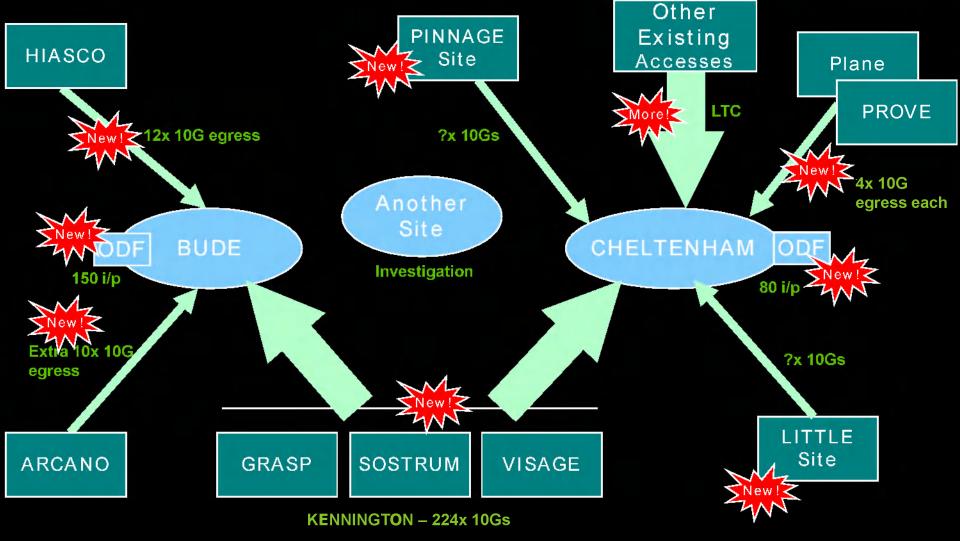
- The SSE Roadmap is still valid though needs re-visiting to update/validate the recommended intercept and egress expansion.
- Along with TEA and SRT (and ECB) we are developing new relationships to expand our access footprint, to bring the number of 10G bearers:
 - Intercepted by Mar 2011 to: 1513 (or there abouts...)
 (+70 if we include CIRCUIT/WG)
 - Egressed to GCHQ processing systems by Mar 2011 to: 415

Eagle eyed will have noticed that this doesn't align with the projected processing and storage profile.

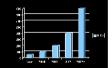


SINO Access Plans for 2010





SINO Access: Where are we



- 10 x 10G from HIASCO now available at Bude: awaiting DEBIT CARD commissioning to process
- 8 out of 10 additional ARCANO bearers for Bude on track for March 2010
- KENNINGTON agreement complete to enable increased SOSTRUM, GRASP and VISAGE access and egress
- PLANE & PROVE sites available:
 - Egress comms from PROVE to Cheltenham will be in place by March 2010 (PLANE to follow)
 - Initial capability planned for March includes KEA, SD and FKB
- OSDS:
 - Bude OSDS IOC's today (capability now 150*)
 - Cheltenham OSDS upgraded December (capability now 78)
- New relationships and access PINNAGE and LITTLE progressing but no dates yet.
- Assessment of potential RPC-2 (and 3/4) sites underway

Questions..

