Response to ICT Review				
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A series of recommendations came from the ICT review. These recommendations have been actioned and the activities planne are detailed in this formal response statement from ICT.				
Recommendation		ICT Response	Task Deadline	ICT Owner
mmediate Actions - by the end				
. ICT Infrastructure Design an	-		I	1
1.1 Continue with recovery work from incidents and stabilisation efforts	include changes to to configuration, the u	Stabilisation project established. Activities completed so far include changes to the storage area network (SAN) configuration, the upgrading of SAN firmware and the employment of a data technician to monitor metrics.		Paul Arthur
2 Continue to engage with the Council to ensure all current requirements are being met.	Management Team Directorate Manage	ne to be presented to Corporate (CMT) for approval. Attendance at ment Teams (DMT) to commence to d requirements are captured.	30/6/10	Rachel Murphy- Cooper
A* Continue with recovery work from incidents and stabilisation efforts especially those around power and disk failure.	 the change to stand monitoring and repor Power resilience is in Further power resilience backup generation of the planning regular uninterruptable power enables a controlled exists. There is only building. The SAN infrastruct minutes that enable power fails. Back uf could be provided by same capability it is this capability for D The risk of future provided by same capability it is this capability for D The risk of future provided by same capability it is this capability for D The risk of future provided by same capability it is this capability for D The risk of future provided by same capability is so that capability is this capability for D The risk of future provided in national strategy is number of public set accessed over network Government Cloud 	In place for the Bedford SAN that failed. ence will be very costly to implement. structure at Priory House cannot have facilities as this is not permitted under tions for the building. An ver supply (UPS) of 35 minutes that d shut down of servers if the power fails of one supplier of electricity to the ure at Dunstable only has a UPS of 35 es a controlled shut down of servers if p generators for the whole building nut with Priory House not having the s not seen as cost effective to provide	31/12/10	Paul Arthur

		Supplier has reviewed SAN configuration and standard		
1.4	Specify a full technical review of SAN and other infrastructure.	configuration has been implemented. SAN firmware upgraded at both sites. Monitoring of metrics is occurring on a daily basis.	Completed 30/4/10	Paul Arthur
1.5	Develop systems to encourage culture of challenge and debate within the ICT service.	As the new Assistant Director of Customer and Systems I have arranged to visit all team meetings and hold drop in sessions on a one to one basis to ensure the management team culture develops to become open and fully consultative. Issues log will be kept of all concerns raised at team meetings. Staff have also received communications on how to raise concerns.	30/6/10	Clive Jones
1.6	Develop a communications management plan for staff at all levels to be led by team leaders.	Team meetings will be held monthly and Team Talk will be on each agenda to ensure the opportunity to hold discussions on key topics is available to all staff. Issues log will be kept of all concerns raised at team meetings. These regular communications activities are being put into place to ensure regular and consistent staff engagement.	30/6/10	Clive Jones
2. Ma	anagement of ICT			1
2.1	Develop business case and plans for delivery of asset and configuration management systems.	Asset and configuration management business case was developed for Touchpaper and the appropriate system modules to enable this to happen have been procured out of transition funding. For implementation schedule see 6.2.	Complete 28/2/10	Rachel Murphy- Cooper
2.2	Initiate a project to review the use of ITIL with CBC	The review of ITIL use occurred and a supplier has been appointed to undertake training on ITIL processes for all of the ICT team which is planned.	Complete 30/4/10	Rachel Murphy- Cooper
2.3	Initiate measures to build capacity of the current ICT team to include short term provision of contract resource.	With the current available resources in ICT a work programme will be agreed by CMT to ensure priorities are correct and resources are focussed on those priorities. This will enable a budget review to be undertaken and financial resource requirements established. The business will then have to decide how it wishes to proceed with resourcing any new requirements.	30/6/10	Clive Jones
2.4	Seek liaison with business on SLAs (Service Level Agreements) around ICT provision. Seek alternative models to fund team.	ICT team will attend DMT's to capture business requirements. Work programme will be agreed by CMT to ensure priorities are correct and resources are focussed on those priorities. This will enable a budget review to be undertaken and financial resource requirements established.	30/6/10	Clive Jones
2.5	Instigate a review of IT technical support activities in place now.	Data Centre technician has been appointed who now monitors infrastructure matrices and produces daily reports. Automated monitoring tools still need to be implemented and are scheduled to be delivered in July.	31/7/10	Paul Arthur
3. As	surance and Governance of			
3.1	Initiate a project to develop processes around testing and change control.	Change control process and testing was put in place at the end of January. Processes were approved by CMT.	Complete 31/1/10	Paul Arthur

3.2	Engage with Internal Audit to understand the role they can play in providing assurance to ICT.	Internal audit review schedule will be developed with Internal Audit team and audits will commence. The schedule of audits will be reviewed by the Audit Committee.	30/6/09	Rachel Murphy- Cooper
4. Dis	aster Recovery			
4.1	Document lessons learned from the recent ICT outages, to be included in Disaster Recovery plans.	A workshop was held and the resulting actions have been fed into the stabilisation project activities.	30/6/10	Paul Arthur
5. Inc	cident Management			
5.1	Work with supplier to establish the root cause of the SAN failures.	The cause of the outages is as a result of the combination of two disk failures over a period of time not being detected as a result of the alerting mechanism being off line and this occurred possibly as a result of vibration caused by faulty air conditioning units in the Bedford location. The vibration and monitoring arrangements have now been rectified. Not having any off site disk replication added to the length of time it took to recover from the outage.	Complete 12/5/10	Paul Arthur
5.2	Gain an independent view of the supplier recommendations.	Workshop being held with independent suppliers on the 8 th June that will identify an appropriate partner to commission to undertake the review.	30/6/10	Paul Arthur
	Im term actions - by the end		L	J
6. IC	[Infrastructure Design and	Implementation	1	1
6.1	Translate all Business Impact Assessments (BIA) into IT requirements for resilience in ICT	Recommendation accepted. The BIAs that determine the business requirements for recovery will be reviewed and translated into a revised resilience strategy that will be accepted by CMT.	31/10/10	Paul Arthur
6.2	Implement short term solutions for addressing disk failure issues	Supplier has carried out SAN configuration changes and firmware upgrades to address the disk failures.	31/5/10	Paul Arthur
6.3	Carry out SAN infrastructure review.	Review will be performed and findings issued in a report. Workshop is scheduled for the 8 th June.	31/7/10	Paul Arthur
6.4	Implement the communications plan	ICT team meetings will be attended by the Assistant Director to ensure effective communication is occurring and the communications plan is effective.	30/10/10	Clive Jones
6.5	Consider the introduction of and ICT staff survey	An ICT staff survey will be conducted in December to ascertain staff views on communication and the ability to contribute to decision making and challenge. This survey will enable service management to assess impact of the communication plan objectives.	30/12/10	Clive Jones
7. Ma	nagement of ICT			
7.1	Develop requirements for delivery of asset and configuration management systems and start	Service Assurance team are managing the project. Requirements are defined and the Configuration of the Touchpaper system has started.	Complete 30/4/10	Paul Arthur

	implementation.			
7.2	Develop Project Initiation Document (PID) and roll out plan for ITIL.	PID for roll out of ITIL best practice will be developed.	31/10/10	Rachel Murphy- Cooper
7.3	Analyse the options for increasing the size of the ICT team. Assess the feasibility of outsourcing ICT provision and the scope of such an outsource project.	Future ICT strategy will be developed to enable the appropriate ICT team organisation to be put in place to support the strategy. Therefore a new ICT organisational structure will be established by November.	31/10/10	Clive Jones
8. Dis	aster Recovery		1	
8.1	Develop Disaster Recovery plans in line with BIAs developed by the business.	Disaster recovery plans for our existing infrastructure will 3 be created and agreed by CMT.		Paul Arthur
8.2	Implement disaster recover measures.	Some mitigation has occurred as part of the stabilisation project. Disaster recovery measures will be in place fully once the infrastructure has moved into the G-Cloud which will take time to complete.	31/3/11	Paul Arthur
9. Inc	ident Management			
9.1	Implement measures resulting from the supplier analysis.	Measures identified and were implemented immediately.	Complete 31/3/10	Paul Arthur
	end actions – by the end of CT Infrastructure Design and			1
10.10				
10.1	Make amendments to ICT in line with requirements for requirements capture and stabilisation.	Resilience strategy document will be created and ICT programme approved with engagement processes in place.	31/12/10	Clive Jones
10.2	Make amendments to ICT for improved power resilience.	Will only be possible to complete this recommendation fully if the move of the infrastructure into the G-Cloud is approved. This will be presented as part of the ICT strategy and if approved the entire SAN and server infrastructure should migrate into the G-Cloud by September 2011 subject to appropriate G-Cloud locations being established in line with the HM Government ICT Strategy for data centres.	30/9/11	Paul Arthur
10.3	Carry out actions resulting from SAN and infrastructure review.	All actions in the SAN and infrastructure review report will be implemented.	31/12/10	Paul Arthur
11. M	anagement of ICT		I	
11.1	Complete delivery and start to populate asset and configuration management databases.	The configuration of the Touchpaper system will be complete by the end of July, but the discovery of assets on the network to populate the database will require a single CBC network to be in place and this will not be completed until December. The three key locations of Priory House,	31/12/10	Paul Arthur

		Technology House and Dunstable will be covered from the end of July. This covers the majority of our asset base.		
11.2	ITIL process implemented	Best practices will be implemented as soon as all of the ICT team have received training.	31/3/11	Clive Jones
11.3	ICT Team resourcing supports business need.	Organisation changes made to ICT team to support ICT strategy and business need	31/12/10	Clive Jones
12. Disaster Recovery				
12.1	Carry out a full DR test.	This will not be possible to complete until the infrastructure has moved into the G-Cloud but a partial test will occur before this later this year.	31/9/11	Paul Arthur

*A The move of infrastructure into a Government data centre is dependent on the ICT Strategy being approved and the data centre locations being established.

*B ITIL training is dependent on the new roles of the organisation being defined.

*C Time is being given to establish a changed culture in the organisation before surveying staff.

*D The portfolio holder asked if retrospective testing of all existing infrastructure had been considered. This was not part of the Deloitte recommendation and the cost of retrospectively testing all existing infrastructure would be very high and would not provide good value for money, as the anticipated issues found are assumed to be inconsequential.