

Information Systems & Technology Strategy

Summary for 2007 – 2010.

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1. IS STRATEGY SUMMARY3

1. IS Strategy Summary

- 1.1. In essence the IS/IT strategy has been to adopt and implement national solutions as and when they become available, augmented by local projects where there is no national solution to Derbyshire needs.
- 1.2. Reduce the cost of IS/IT to the Force by local, regional and national initiatives.
- 1.3. On occasions take a lead role within the ACPO Region and on occasions nationally to deliver IS/IT services to the Service and thence the Force.
- 1.4. The local IS/IT strategy is to work with the top ten national business capability requirements detailed in 2005, these were:
 1. Manage information
 2. Identify and eliminate threats to public safety
 3. Identify people
 4. Implement the National Intelligence Model
 5. Work in Partnership with the Community
 6. Manage investigations effectively
 7. Communicate with resources in real time
 8. Protect officers and citizens
 9. Manage and develop staff resources
 10. Manage performance
- 1.5. The top ten technology products that support the highest priority capabilities (as at 2005) were:
 1. Data repository
 2. Decision support tools (risk analysis & prioritisation)
 3. Data mining tools (search & retrieve)

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4. Secure scalable network
5. Intelligence recording & management systems
6. Electronic messaging (email, SMS etc.)
7. Incident recording & management systems
8. Geographical Information Systems
9. HR recording & management systems
10. Workflow mechanisms

1.6. Based on the above the Force position and short term (2-3 year) strategy regarding these technology products is as in the table below.

Product	Force Position.	Strategy
Data repository.	<p>Have implemented NMIS for 'statistical' data.</p> <p>Work done on ETL (extract, transform and load tools to populate a CRISP repository from Force operational systems.</p> <p>Guardian implemented and used as a base to record Force intelligence.</p>	<p>Retain NMIS. Enhance with a performance management tool (PB-Views).</p> <p>Implement CRISP locally if available or in its absence progress ETL work towards the PND.</p> <p>Develop Guardian with further modules to help hold more data in a single operational system (Guardian) and thence reduce the need to ETL to a warehouse.</p>

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Product	Force Position.	Strategy
Decision support tools (risk analysis & prioritisation)	<p>Approach is to centralise tools used with a few skilled practitioners and then provide 'outputs' to rest of Force.</p> <p>Crime analysts using i2 etc. for 'decision support' and then apply expertise for risk analysis / prioritisation.</p> <p>Business Objects Corporate license and use as the Force strategic product.</p> <p>Gap at moment in technology support on risks - awaiting national lead.</p> <p>A 6-monthly strategic group uses i2 to help guide this assessment.</p>	<p>Assess improvements which Guardian will bring.</p> <p>Business Objects site wide license will open up potential for wider 'mining' of data.</p> <p>Performance management / Intranet material will help support Management Information dashboards.</p>
Data mining tools (search & retrieve)	<p>Business Objects (common to most NSPIS applications) as tool. Now site-wide license.</p> <p>Centralising such activities via System Administrators and their immediate support personnel.</p> <p>Crime analysts use i2. Not deploying such tools widely to the workforce. Keeping under consideration possible wider deployment of web enabled 'mining' tools such as GENIE .</p>	<p>As above.</p> <p>GENIE seen as tactical deployment to overview systems where data not moved into Guardian.</p>

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Product	Force Position.	Strategy
Secure scalable network	<p>Working within a 'fixed' budget, investment to save approach. Rural nature of Derbyshire makes circuit cost per mile more expensive than urban Forces. Megastream links between main locations.</p> <p>Consolidated voice and data circuits to section stations (PANDATEL MUX's).</p> <p>Some VOIP to these. Smaller stations implementing ADSL.</p> <p>Signed up to PNN3 that will enable scaleable growth.</p> <p>Network strategy developed in context of 21C</p>	<p>Develop network strategy to reflect national move from private / leased circuits to virtual / managed provision (21C).</p> <p>Installing private microwave between key sites for resiliency / additional capacity.</p> <p>Broadband / 3G for higher bandwidth on smaller sites.</p> <p>Develop network in Regional context to enable collaboration unit to be established and access systems in Derbyshire irrespective of connectivity to ACPO Regional Force.</p>
Intelligence recording & management systems	Guardian implemented.	Build on and improve Guardian so that it acts as main Force repository and avoid duplication of data in other system database; reduced need to link across systems.
Electronic messaging (email, SMS etc.)	Microsoft based.	<p>Build on secure dial-in capability and extend to 3G laptops.</p> <p>Continue to develop Blackberry capability.</p> <p>Integrate voice, e-mail, SMS etc. into common messaging product(s).</p>
Incident recording & management systems	NSPIS CnC installed 2002.	<p>Continue to act as a lead Force to drive changes.</p> <p>Review @2008/9 in context of proposed Central Call Management centre.</p>
Geographical Information Systems	National solutions implemented, Compass. Central team in Corporate Development manages. 5-year contract (start 05) with Northgate for original GIS product set.	<p>Track national changes.</p> <p>Recognise constraint of existing systems having locked-in gazetteer but work towards single maintained version.</p>

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Product	Force Position.	Strategy
HR recording & management systems	NSPIS HR - DMS implemented.	Upgrade to 10i as directed nationally. Implement self-service in advance of this.
Workflow mechanisms	Guardian delivers workflow in crime and intelligence area.	More data / system area on Guardian where can apply Guardian workflow. Will probably move to new HR – self service. Pragmatic use of 'forms' products.

- 1.7. From the above many of the top 10 technology products are already met by the current Derbyshire deployment of previously accepted national solutions (e.g. NSPIS) and accepted industry products (e.g. Microsoft Exchange for e-mail). There are a few gaps and the Force approach will continue to be to await emerging national solutions and then, if none emerge, to liaise with neighbouring and similar Forces to source appropriate solutions for a merged Force.