Metal Theft Analysis

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What is The Problem
Case Study 1

BRITISH TRANSPORT POLICE

In July 2009 a utility company received a fine of £24 million for the loss of service resulting from the attempted theft of copper from an electrical substation in Bexley, London. The incident occurred when thieves broke into a substation forming part of the Dartford Bridge crossing and cut the earthing cable causing a power surge. This left some customers with no power for up to four days. The company paid each affected customer £50 in compensation.

Case Study 2

BRITISH TRANSPORT POLICE

In July 2011, 16,000 telephone customers and 26,000 broadband customers lost service in the Southampton area following a cut of fibre optic cable in Salisbury. It was believed that the incident was caused by the cutting of fibre optic cables to gain access to copper cable underneath. This incident also disconnected the 999 service, the National Air Traffic Service (NATS) and parts of the Ministry of Defence's (MOD) communication.

Railway Case Study

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At 3.28am on 12 September, Network Rail reported signal failure due to an attempted cable theft on the main London to Portsmouth line near Guildford station. The outage has also meant that some level crossing barriers were stuck in the down position. BTP attended the scene, which was 200m from Compton Road Bridge on the A3000 near Guildford crematorium. A cable has been cut and there was some leakage of hydraulic fluid and initially a small fire.

The attempted theft of cable caused considerable disruption to services and caused:

- **16 Fully cancelled trains**
- **36 Part cancelled trains**
- **141 Train delays**
- **1428 minutes delay**

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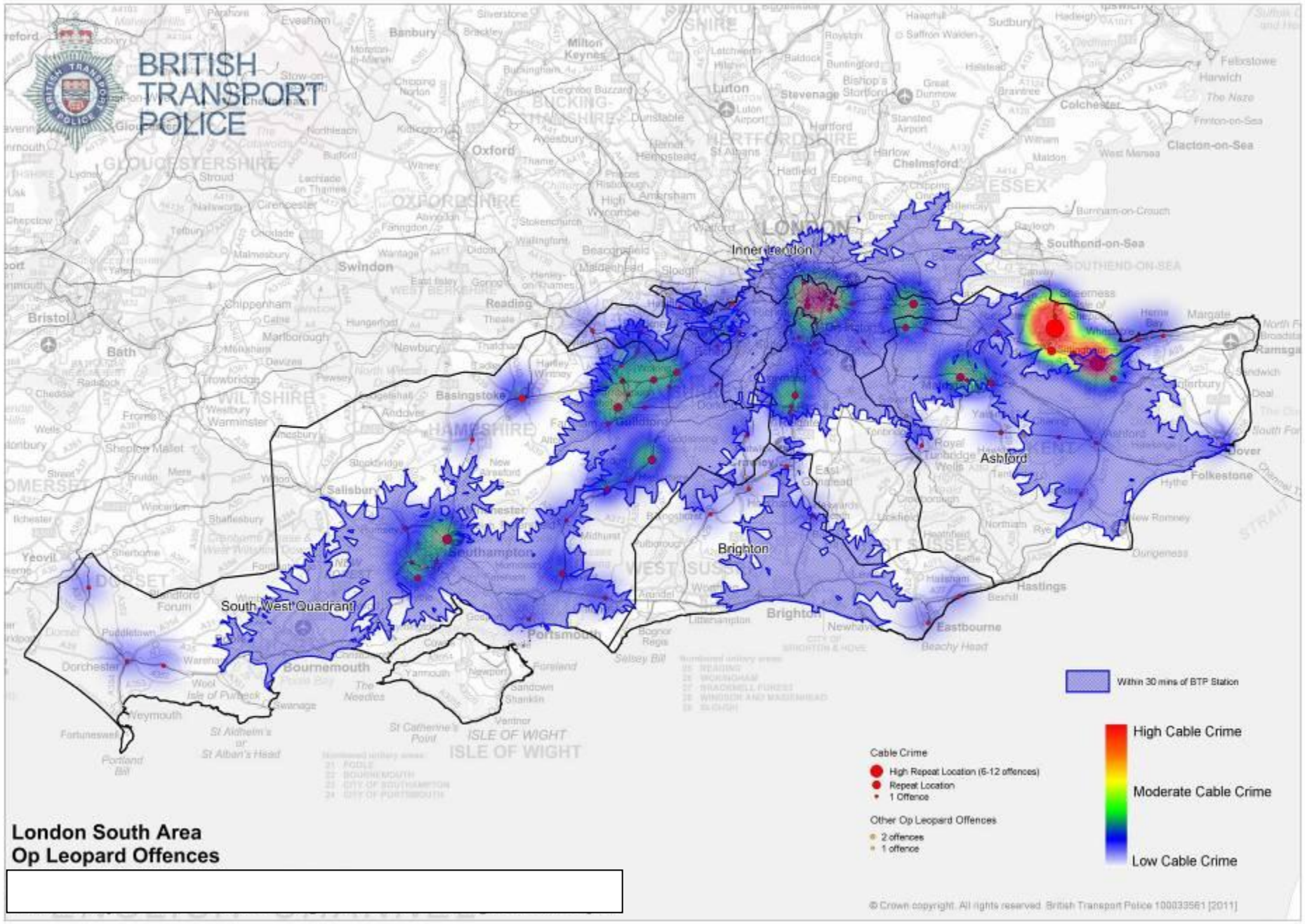
Estimated annual cost to organisations, industries and companies

Organisation	Annual Cost (£ million)
BT	15
Energy Networks Association (ENA)	26.5
Network Rail	16.5
UK Wireless Industry	5.2
Western Power	0.2
EON Central Networks	3.4
Stainless steal processing	0.4
Aerospace	0.4
Mobile Broadband Network Ltd	0.2
Rail Passengers and Freight Operators	10
Local Authorities	4.6
Religious buildings	3.3
Catholic National Mutual	0.9
Construction industry	3
Education	9.6
Total for all organisations	**99.2**


BRITISH TRANSPORT POLICE
Inner London
Ashford
Brighton
South West Quadrant
Within 30 mins of BTP Station
High Cable Crime
Moderate Cable Crime
Low Cable Crime
Cable Crime
High Repeat Location (6-12 offences)
Repeat Location
1 Offence
Other Op Leopard Offences
2 offences
1 offence
London South Area
Op Leopard Offences
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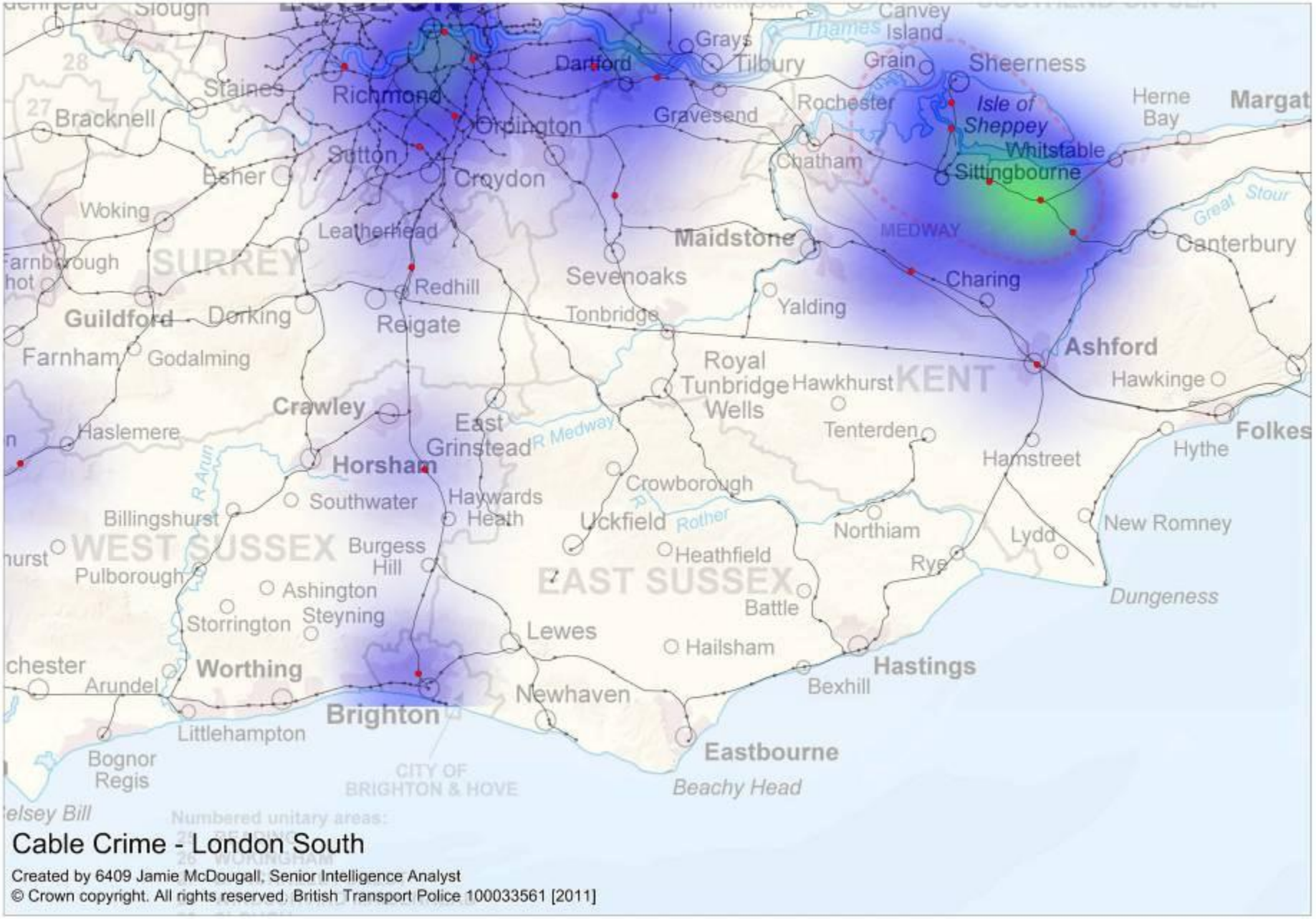

Cable Crime - London South

Created by 6409 Jamie McDougall, Senior Intelligence Analyst

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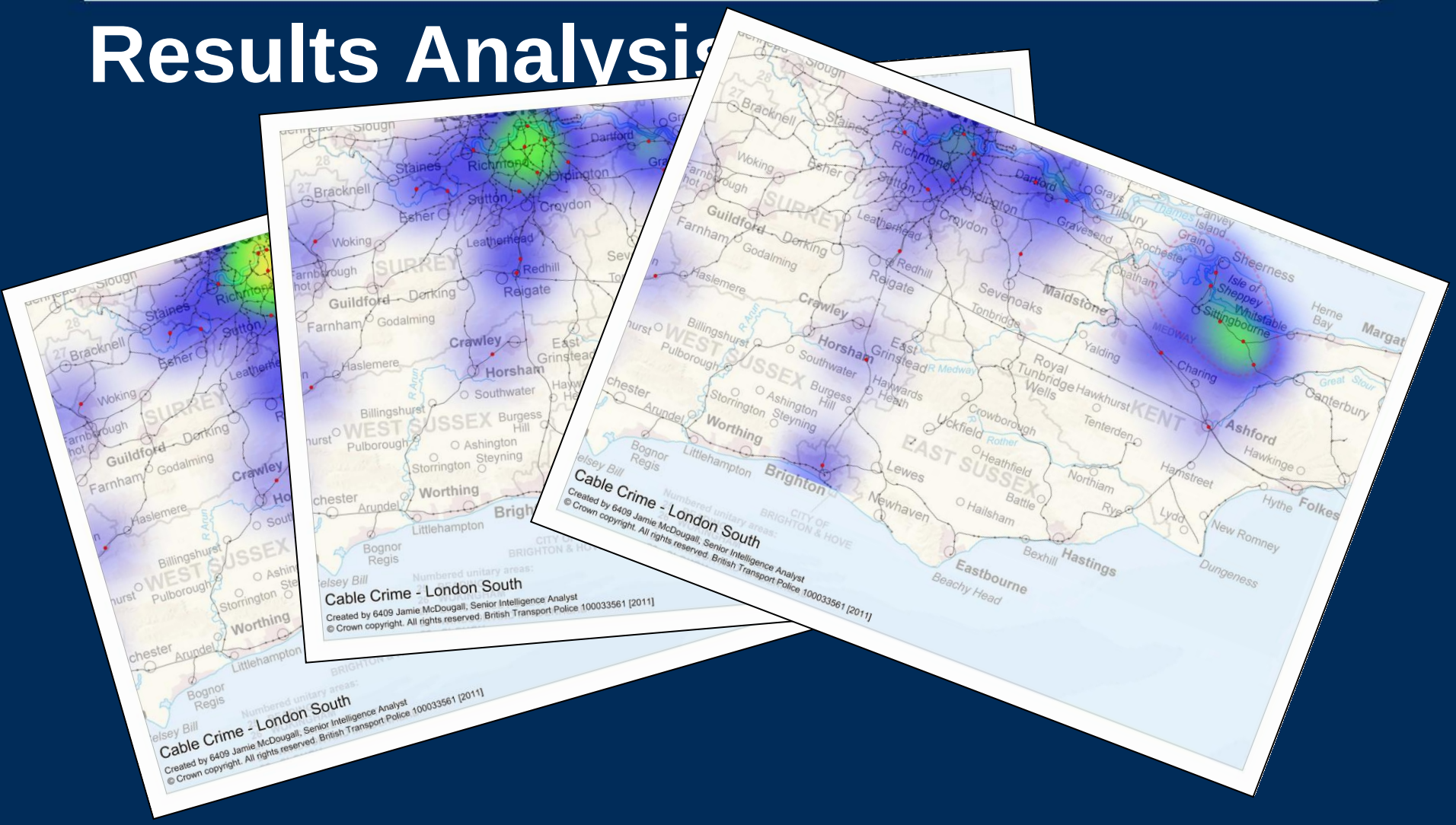
Results Analysis



London South Maps

LEVEL 1/LOCALOFFENDERS

- Teens and Adults
- Degree of organisation (spotting, stripping and cutting cable)
- Small quantities and prolific
- Lead, manhole covers, traffic signs etc…
- Rudimentary techniques
- Migrated from other acquisitive crime
- Drug dependency
- Travel up to 7 miles – wheelie bins, shopping trolleys and taxis
- Economic issues

Organised Offenders

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- Organised Crime
- Travelling community
- Highly organised
- Vehicles used
- Travel great distances
- Deception / destruction
- Large quantities
- Specialised techniques

DISTRIBUTION PROCESS

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STOLEN METALS

SCRAP DEALERS
Tier 1, 2 & 3

RECYCLING PLANTS
Smelters / Granulators

CONTAINERS
National & International

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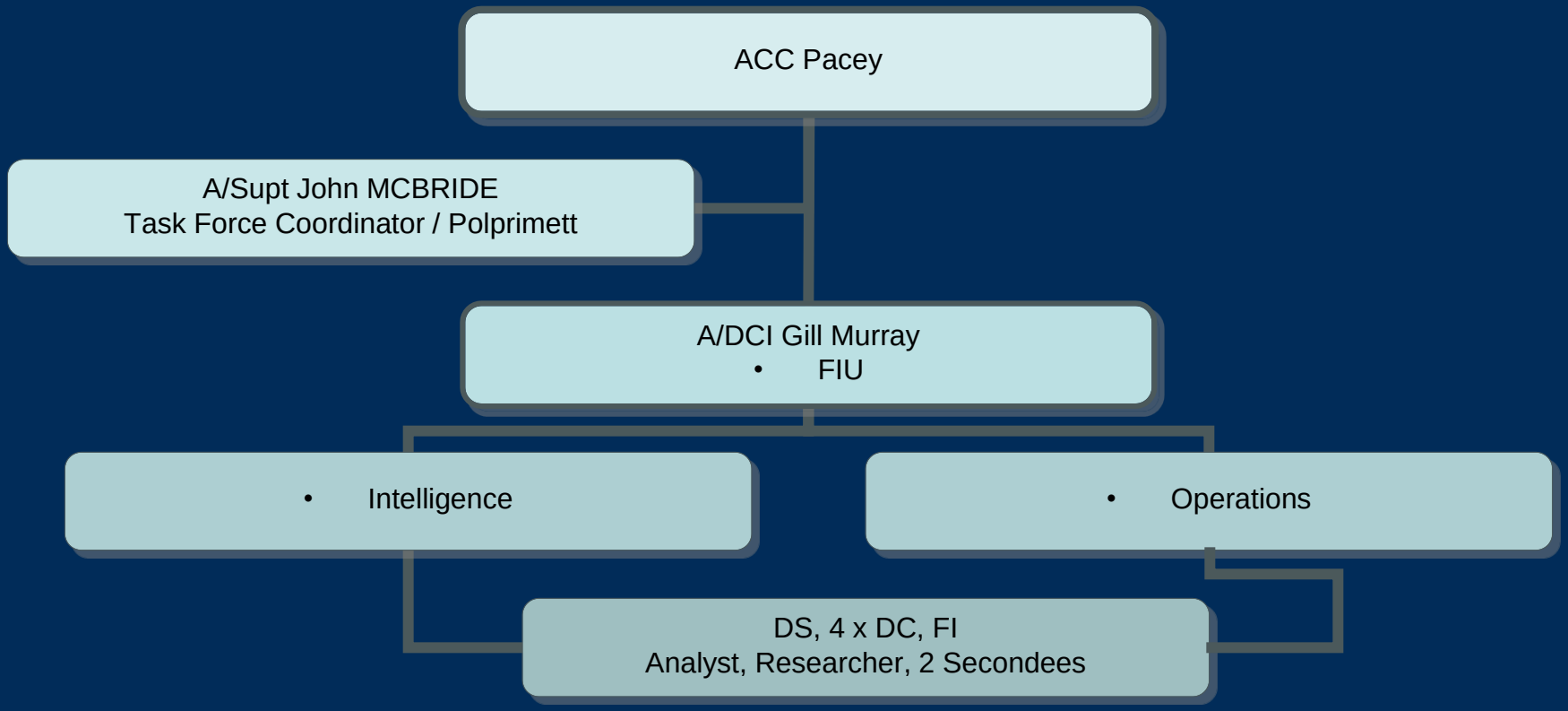
Analytical Techniques

- Horizon scanning
- Cross border/organised
- Key works/infrastructure
- Strategic Offender Analysis
- Strategic Trends
- Operational Analysis
- Impact/Cost Benefit Analysis
- Geographical Analysis
- Insider Threat
- Network analysis
- Social and demographic trend
- Performance Trend Analysis
- Operational Planning Analysis
- Resource Analysis
- Operational Analysis
- Partnership Data Analysis
- Geographical Analysis
- Offender Analysis
- Intelligence Analysis
- Predictions
- Threats and Risks

BTP Fusion Unit



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Priorities

- Fusion Team
- Data Hub
- Best Practice
- Legislation
- SMDs – improve processes
- Industry – phasing out metals
- Predictive analysis – price of copper, offenders
- Increased punishments
- Focus on hotspots, key works and prolific offenders
- Operational planning – infrastructure developments
- Assess impact of activity
- Partnership operations/initiatives
- Targeted operations led by intelligence and analysis

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Questions?