# Police and Crime Panel 15<sup>th</sup> November 2018

Project Odyssey – An Evidence Based Approach to Understanding and Managing Demand



#### **Presentation Objective**

To provide an update regarding the progress of Project Odyssey

The Constabulary's evidence based approach to better understand and manage current demand and predict future demand. Thus enabling the effective and efficient alignment of resources to best deliver the PCC Community Safety and Criminal Justice Plan with a workforce that has both the capacity and capability to do so.

# Project Odyssey - Building Blocks

Built upon principles within the PCC Community Safety and Criminal Justice Plan including a focus on:-

- Protecting Local Policing Model Building on success
- > Releasing time for Neighbourhood policing
- > Effective response to victims
- > Improving proactive ability to reduce crime
- > Improving efficiency of local policing

# Updates tonight will include:-

Intervention Operating Model Review

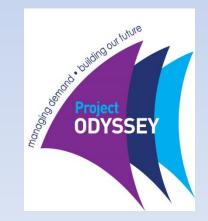
Neighbourhood Policing Model

Hertfordshire Neighbourhood Harm Index

Force Control Room – Including Initial Resolution Unit and appointments system

Crime Investigation Model

# Background



### HMIC 2016 Efficiency Report



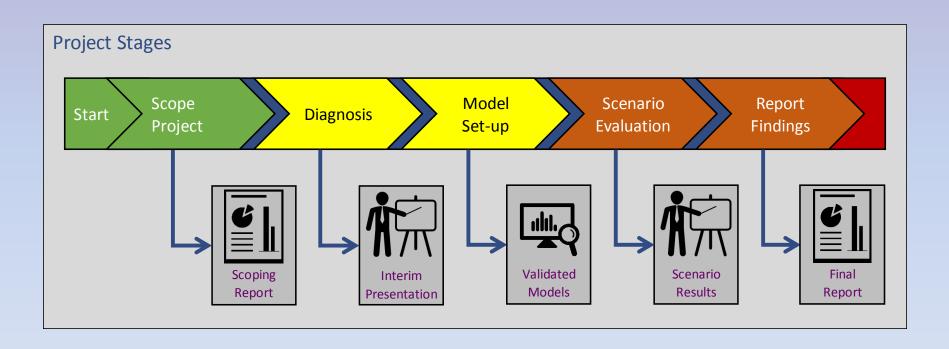
**Requires Improvement** 

Hertfordshire Constabulary does not yet have a comprehensive understanding of demand; it does recognise that more work is needed to enable it to reduce demand, increase productivity and effectively plan for the future. It fully recognises that it needs to improve in this area and some positive progress is evident, but more work is needed.

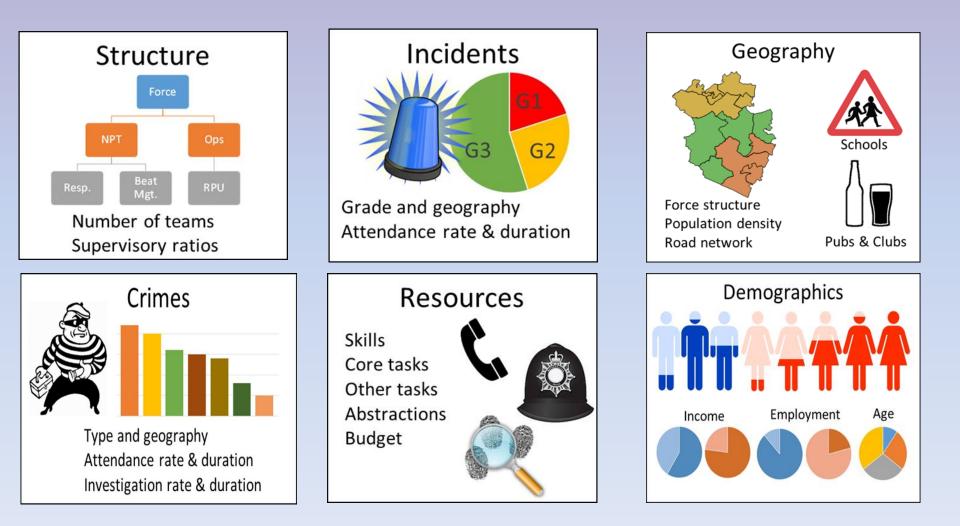
# HMICFRS 2017 Efficiency Report Good

Hertfordshire Constabulary is making good progress in understanding the current demand for its services. It has recently commissioned external expertise and purchased analytical systems to improve its assessment of current, complex and future demand, which will inform options for a new policing model

# Methodology



# Modelling – some big data sets



# Response Operating Model

Protecting Local Policing Increasing Efficiency of Local Policing Effective Response to victims

# **Working Assumptions**

# Good Performance (Customer Service Levels) ▶85% of Emergency incidents within 15mins ▶80% of Priority Incidents within 60mins

#### **Demands on staff**

➢Officers Utilisation between 70-80%

#### **Efficient Shift Pattern**

Demand Match between 80-85%

### **Diagnostic Key Themes**

Five key themes have emerged from the Diagnostic:-

➢ Incidents

Attendance

> Processes

Resourcing and Shift Pattern

➢ Crime

### Incidents summary

9% 8%

Increase in overall incident demand

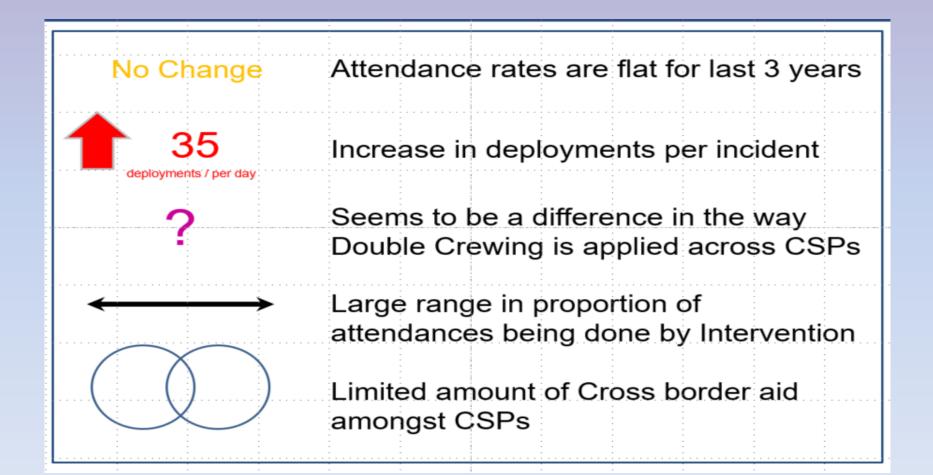
Growth in incidents requiring attendance

Drop in volume of incidents with time sensitive targets (15mins / 1hour)

Largest CSP has over twice the volume of the smallest

Emergency profile peaks consistent with the night-time economy

#### **Attendance Summary**



### **Process Summary**

No Change	Dispatch time remains flat over 3 years
No Change	Arrival times remain consistent
17%	Increase in time at scene for Emergency incidents
All CSPs	Increase in time at scene across all CSPs
83%	Current performance for Emergency
15.9pt variation	Emergency Performance varies between CSPs
Significant variation	Beats across the force experience very different levels of performance

#### **Resourcing Summary**

The original Herts 99 shift pattern does not provide a good match to demand at 58.4% (no split shift)

### **Process Scenarios**

#### Increasing Efficiency of Local Policing Effective response to Victims

### **Double Crewing Ratios**

- Quick wins
- Good performance gains
- Already in traction

Option	Emergency		Priority		Utilisation	
	Performance	Change	Performance	Change	Utilisation	Change
Budgeted FTE 500	79.7%		51.9%		85.7%	
Reduce Crewing Ratio 10pts	80.6%	+0.9pts	60.4%	8.5pts	82.4%	-3.3pts
Reduce Crewing Ratio 20pts	82.3%	+2.6pts	68.2%	16.4pts	78.7%	-7.0pts

#### **Dispatch Area and Emergency Incidents**

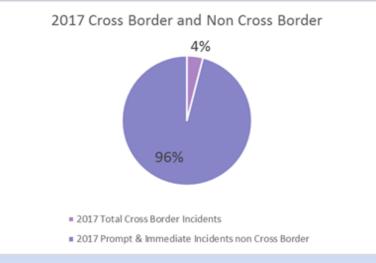
Retaining the current CSP structure, officers are now able to go to all incidents within their own CSP + those within X minutes for Emergency Incident

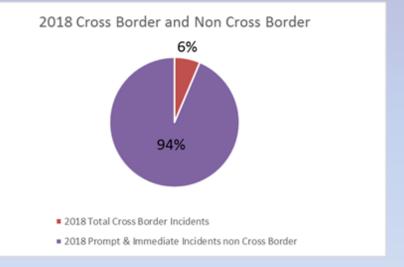
(For Priority, Scheduled and Appointments officers would stay within own CSP)

Option	Emergency		Priority		Utilisation	
	Performance	Change	Performance	Change	Utilisation	Change
Budgeted FTE 500	79.7%		51.9%		85.7%	
CSP + Incident within 5mins	79.6%	-0.1pts	51.5%	-0.4pts	85.7%	0.0pts
CSP + Incident within 10mins	80.1%	+0.3pts	52.7%	+0.8pts	85.7%	0.0pts
CSP + Incident within 15mins	83.7%	+4.0pts	56.3%	+4.4pts	86.2%	+0.5pts
CSP + Incident within 20mins	79.7%	0.0pts	57.4%	+5.6pts	86.9%	+1.2pts
CSP + Incident within 25mins	72.8%	-6.9pts	56.9%	+5.1pts	87.7%	+2.0pts
CSP + Incident within 30mins	66.8%	-13.0pts	55.6%	+3.7pts	88.3%	+2.6pts

Outputs show that providing some ability to cross-borders can be beneficial but when travel times are widening above 15mins performance deteriorates

#### **Cross-Border Analysis**





#### **Other tasks**

#### > 41% of their time working on 'other tasks'

Option	Emergency		Priority		Utilisation	
	Performance	Change	Performance	Change	Utilisation	Change
Budgeted FTE 500	79.7%		51.9%		85.7%	
Reduction - 10%	79.2%	-0.5pts	54.5%	+2.7pts	84.0%	-1.7pts
Reduction - 20%	79.2%	-0.5pts	59.0%	+7.1pts	82.3%	-3.4pts

- Scene Guards
- Hospital watches
- Mental Health Triage

### **Alternative Structure Scenarios**

Protecting Local Policing Effective Response to Victims Increasing Efficiency of Local Policing

# Dual District – 1 deployment base

Metric	Base Performance	Scenario	Variation
Emergency	79.7%	72.0%	-7.8%
Priority	51.9%	67.0%	+15.1%
Utilisation	85.7%	83.0%	-2.7%

#### **Deployment Hubs**

- Hemel Hempstead
- > Watford
- > Hatfield
- Stevenage
- Cheshunt

## Shift Pattern Design

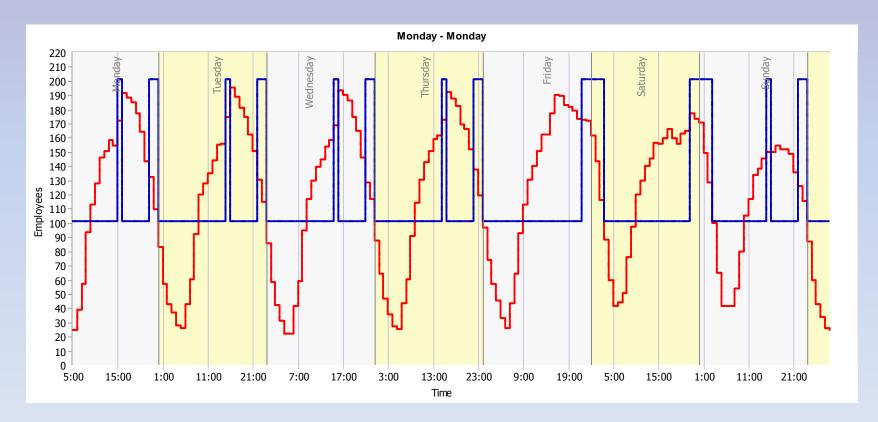
#### Increasing Efficiency of Local Policing Effective response to Victims

# **Design Principles**

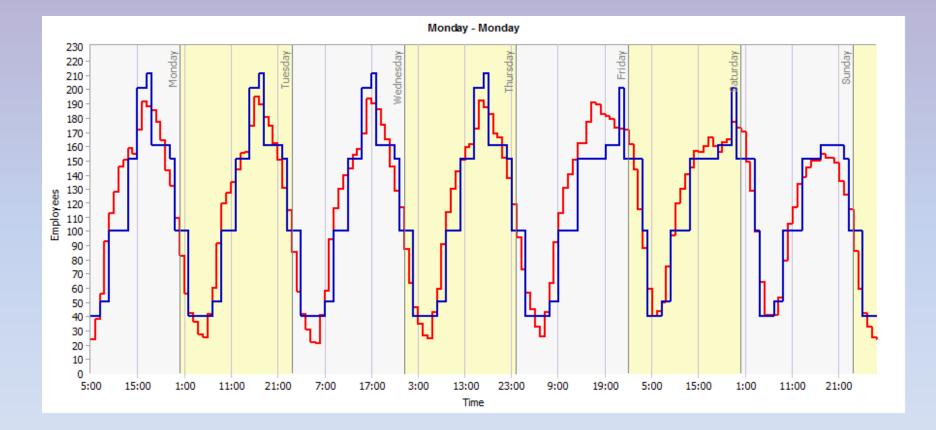
- Provide a rota for FTE consistent with the Force establishment number which could be split into equal teams
- Provide as good match to demand(Minimum Numbers)
- Meets working time directives
- Takes account of Force and Officer preferences
- Risk and Fatigue levels measured against HSE Index
- Uses shifts between 8-hours and 10-hours in length, no 12 hour shifts
- > No single rest days
- > Provides a training day at regular intervals

#### Herts 99 Shift Pattern Vs Demand

- Poor match to demand 56.7%
- High number of resources on duty, at times of low demand



### **Potential Shift Pattern**



#### Match to Demand 78.5%

## Neighbourhood Policing Model

Protecting Local Policing Increasing Efficiency of Local Policing Releasing time for Neighbourhood Policing Improving proactive ability to reduce and prevent crime in Partnership

### **Neighbourhood Policing Model**

#### **Purpose and Scope -**

- Provide a baseline of current SNT activity and its alignment with the SNT role definition
- Maintains Local SNT Policing Model
- Retains 10 CSP & local government structure
- Develop a mechanism for allocating SNT resources in line with force priorities and drivers of demand that align with the SNT role
- Determine the resource allocation using this mechanism for an agreed financial scenario whilst considering outputs from the response work (Combination of Harm Index and PBB)
- Provide the Force with a tool for running further scenarios

## **Priority Based Budgeting**

### **6** SNT Capabilities

#### **Reducing Crime** and Anti-Social Behaviour

#### Effective Problem Solving

- Find sustainable solutions to long-standing problems
  Work collaboratively with partners,
- public and other agencies to resolve
- Understand, identify and take action to tackle signal crimes and signal
- incidents\* e.g. graffiti and minor damage Maximise public satisfaction Own and resolve problems

#### \* A crime or incident often minor, which can disproportionately affect fear or concern within communities.

#### Catching Criminals

#### **Proactive Enforcement**

- Attend and investigate crime
   Arrest offenders bring them to
- justice Seek out intelligence about criminals
- Effectively tackle ant i-social be haviour
- · Provide reassurance through visible
- Take responsibility for local crime and criminals

#### Keeping People Safe

#### **Protecting Communities** from Harm

 Identify vulnerable people and repeat victims and help protect them from harm, including anti-social behaviour. • Work with specialist units to effectively manage offenders. . Know how communities normally feel and identify local tensions and those who may be at risk from radicalisation by extremists (Prevent Strategy) Conduct effective victim follow-up visits - assess vulnerability, provide crime prevention advice and sign post to other agencies

#### **Contact with a** Purpose

#### Purposeful Engagement

- activity each month e.g. Neighbourhood Surgery, Street Meet, Public Forum

 Help to shape the Neighbourhood Priorities by listening to the views of local communities · Build proactive engagement into daily

activity
• Maximise opportunities to have face
to face contact with people

#### **Capacity Building** Maximise opportunities to share the work with others

· Develop Neighbourhood and **Business Watches** 

Involved

- · Identify organisations suitable for the Community Safety Accreditation Scheme\*
- Engage with Volunteers and the
- Special Constabulary . Help communities look after

themselves

#### Understanding

#### **Understanding Communities**

- Use Key Individual Networks\* to know and understand communities
- Identify emerging communities
  Use all available information to understand local community
- demographics . Look out for variations in the demand
- for local services and amenities which may indicate changes in community demographics Build contacts with local employers

#### Keep people informed

Toffuential Individuals e.g cou

#### 6 Capabilities

- $\geq$ Effective problem solving
- $\triangleright$ Proactive enforcement
- $\geq$ Protecting communities
- $\geq$ Purposeful engagement
- Capacity building  $\geq$
- Understanding communities  $\geq$

#### 3 additional streams

- **Responding to Incidents** •
- **Other Policing Activity** ٠
- Administration •

#### **Overview of the PBB Neighbourhood Profiler Process**



- The process started with the definition of the role of SNT in Hertfordshire
- Workshops with Chief Inspectors and Inspectors mapped current activities onto the key capabilities
- Detailed understanding and prioritisation was conducted by the same officers in further workshops
- Analysis of SNT activity returns was used to baseline the cost of the various types of work based on the time spent on them
- Resource allocation was then determined based upon the demand drivers of the prioritised, in-budget activities

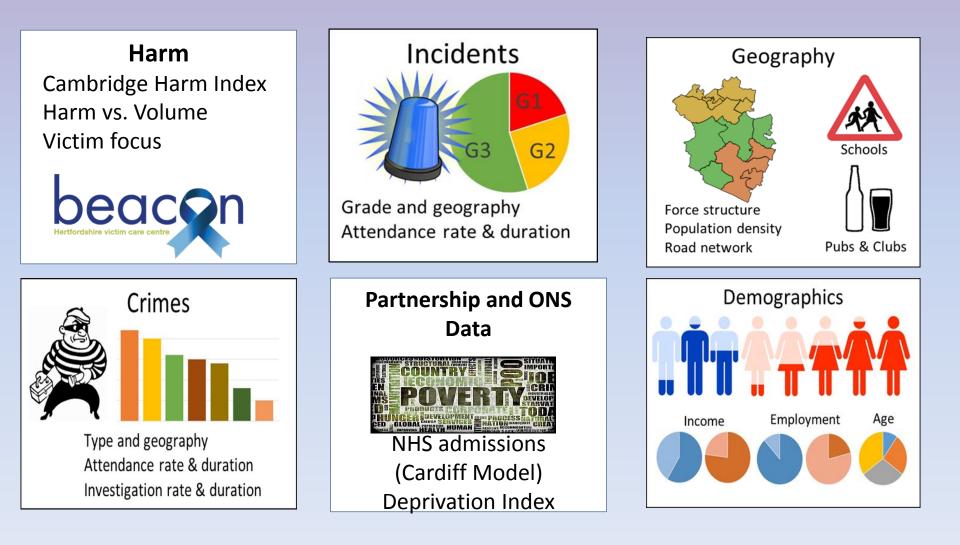
# Hertfordshire Neighbourhood Harm Index

## Hertfordshire Neighbourhood Harm Index

Development of a Neighbourhood Harm Index to inform allocation of resources based on SNT being the building blocks of the policing model

- Allows predictive modelling around community needs
- Reactive to change strategic direction PCC CS and CJ Plan
- Victim focused
- Incorporates various metrics
- Interprets large data sets and what this means for policing and the citizens of Hertfordshire
- Provides informed products to local CSP commanders

## Neighbourhood harm index – some big data sets



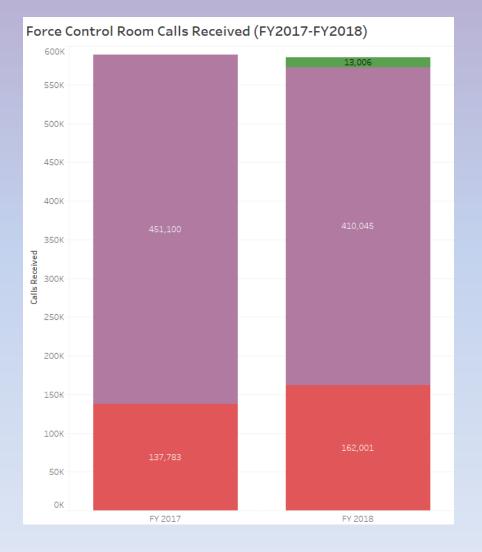
# Current Projects November 2018 onwards

#### Project Odyssey – FCR review

Including......

- Target Operating Model
- FCR structure (management / line management)
- Staffing (including levels, Training and Development)
- Current practices process evaluation and efficiencies
- Shift patterns Designed and in consultation with staff
- Demand profile obtained
- Service levels Improving performance measures
- Opportunities for savings and / or reinvestment

#### Call Volume and Trends 2017 – 2018



Total Calls have reduced by 0.7% between FY 2017 and FY 2018

Reduction of 3,831 calls

Growth in 999 calls with reduction in 101 call volumes

Emergence of Other channels e.g online report

Are people now more likely to call 999 than they were previously? Station Appointments – Improving police contact.

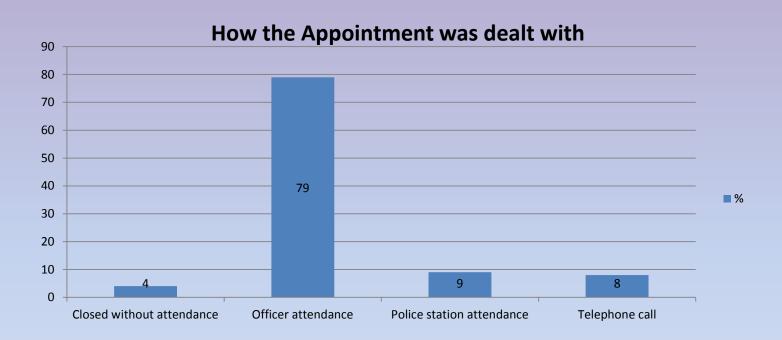
Enhanced diary car appointments systems from May 2018.

Hertfordshire residents can choose their appointments venue from:-

 $\,\circ\,$  Attending a Police Station

Diary Car to Home Address

A dip sample of over 240 Hertfordshire Incidents indicate that police attended the address of the caller 79% of the time.



Recent sample indicated that the vast majority of customers prefer the diary car than visiting stations

#### **Incident Resolution Team**

- An Incident Resolution Team (IRT) will enable us to ensure an appropriate service to victims based on a proportionate response to threat, risk and harm
- $\circ~$  A trail is due to begin at the end of November 2018.

#### Crime Management – Review

The aim of this review is to carry out an analysis of demand within crime management and investigative teams across both the Local Policing and Safeguarding Commands.

- Current and future demand analysis
- Current policy and practice including service levels
- National best practice and evidence base
- Processes and Efficiencies
- Training and development of staff
- Options for crime management and investigation delivery to include: Allocation of resources, Staffing levels, Shift patterns

Thank you

### **Any Questions?**