



Insight **Bristol**

Integrated analytics hub



**10<sup>th</sup> December 2020**  
**Gary Davies**  
**Head of Service Early**  
**Intervention Safer Communities**

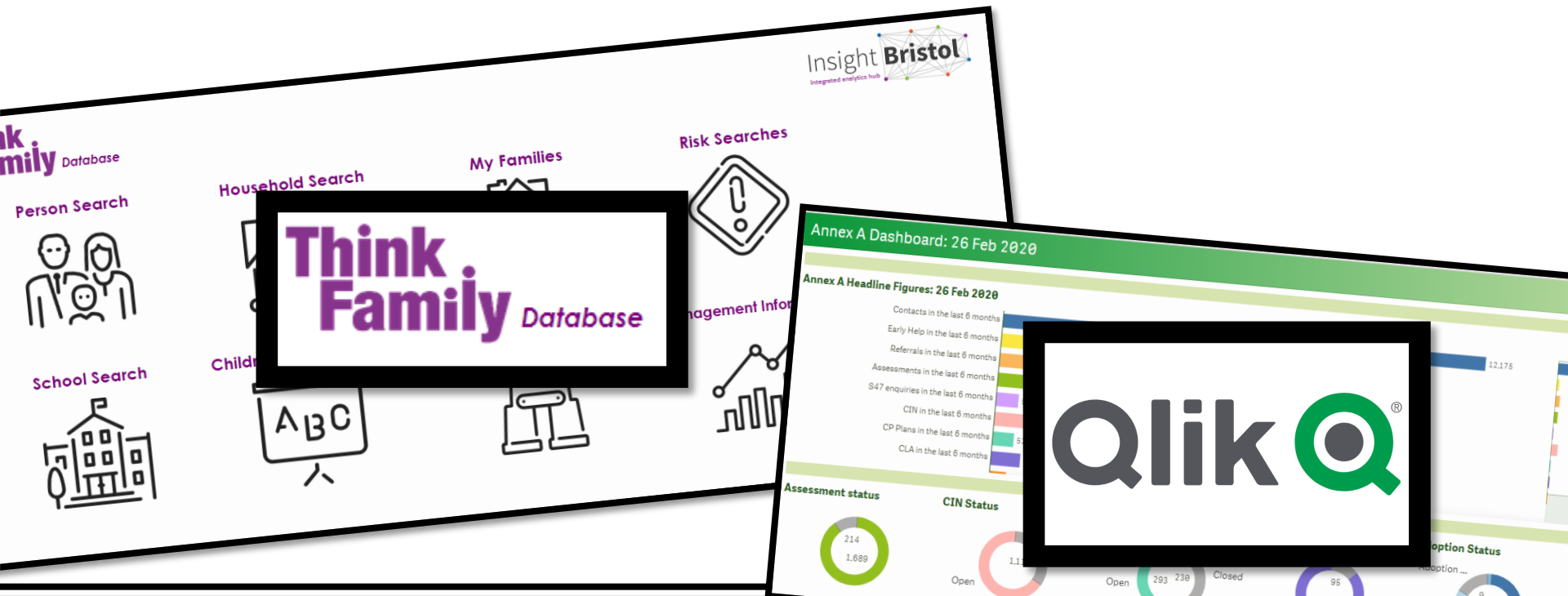


# What's Insight Bristol?

- Interagency analytics hub set up in 2015
- Responding to national Troubled Families programme
- Multi agency data warehouse focused around vulnerability
- Predictive analytical capability within the team



# Insight's Products



Indicator	Indicator Date	Value	Description
Child Risk of Sexual Exploitation	24 Feb 2020	55,000	These young people are vulnerable to Child Sexual Exploitation (CSE). They have a CSE risk flag in Police reports; they are linked to CSE-related Police reports; they have gone missing 19 times with concerns that they were in missing periods; they are or have been open to Families In Focus; they have been vulnerable due to homelessness; individual/s in their family have gone missing. They are linked to other young people who are also vulnerable to CSE and to people aged over 18 who are linked to CSE-related Police reports.
Child Risk of Child Criminal Exploitation	25 Feb 2020	55,000	These young people are vulnerable to Child Criminal Exploitation (CCE). They are linked to CCE-related Police reports and Police reports; they are linked to people who are linked to County Lines-related Police reports; they are linked to acquisitive crime; they are involved in criminality with people aged over 18; they have gone missing 19 times with concerns that they were vulnerable to gang involvement during the missing periods; they are linked to other young people who are also vulnerable to CCE and to people aged over 18 who are linked to CCE-related Police reports.

**Targeted Analytics**

# What is it used for?

## Operational Decision Making

- Capability in place with good adoption by BCC and across Bristol by partners
- Data is informing decision making across single and multi-agency meetings
- Shared understanding of risk and vulnerability in families

## Strategic Capability

- Fully realised vision, utilised across BCC and Partners by 2019/20
- Data embedded in procurement cycles
- Using evidence and evaluation to plan strategically and drive continuous improvement within the city

## Think Family Database

Continued refinement of data model, agile development of new functionality

## Predictive Risk Analysis

- Greater understanding of individual risk
- Identify organisation risk e.g. per school
  - Modelling support service design
  - Alert practitioners to risk

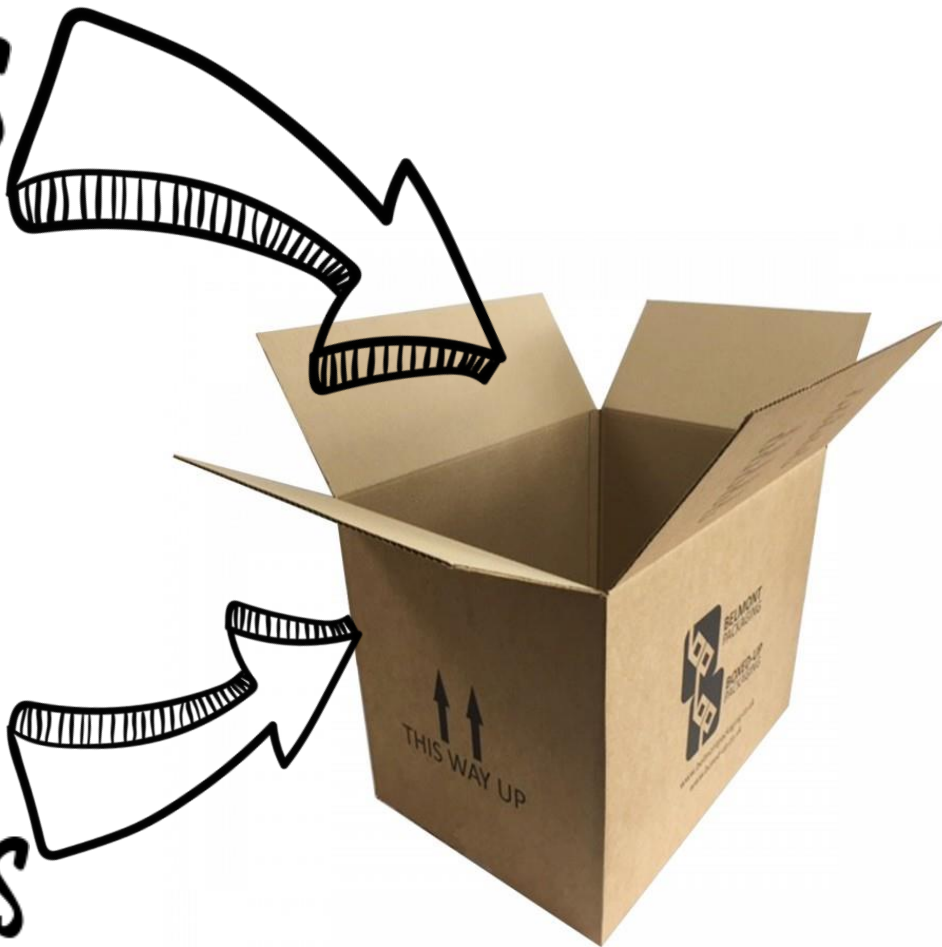
## Integrated Localities

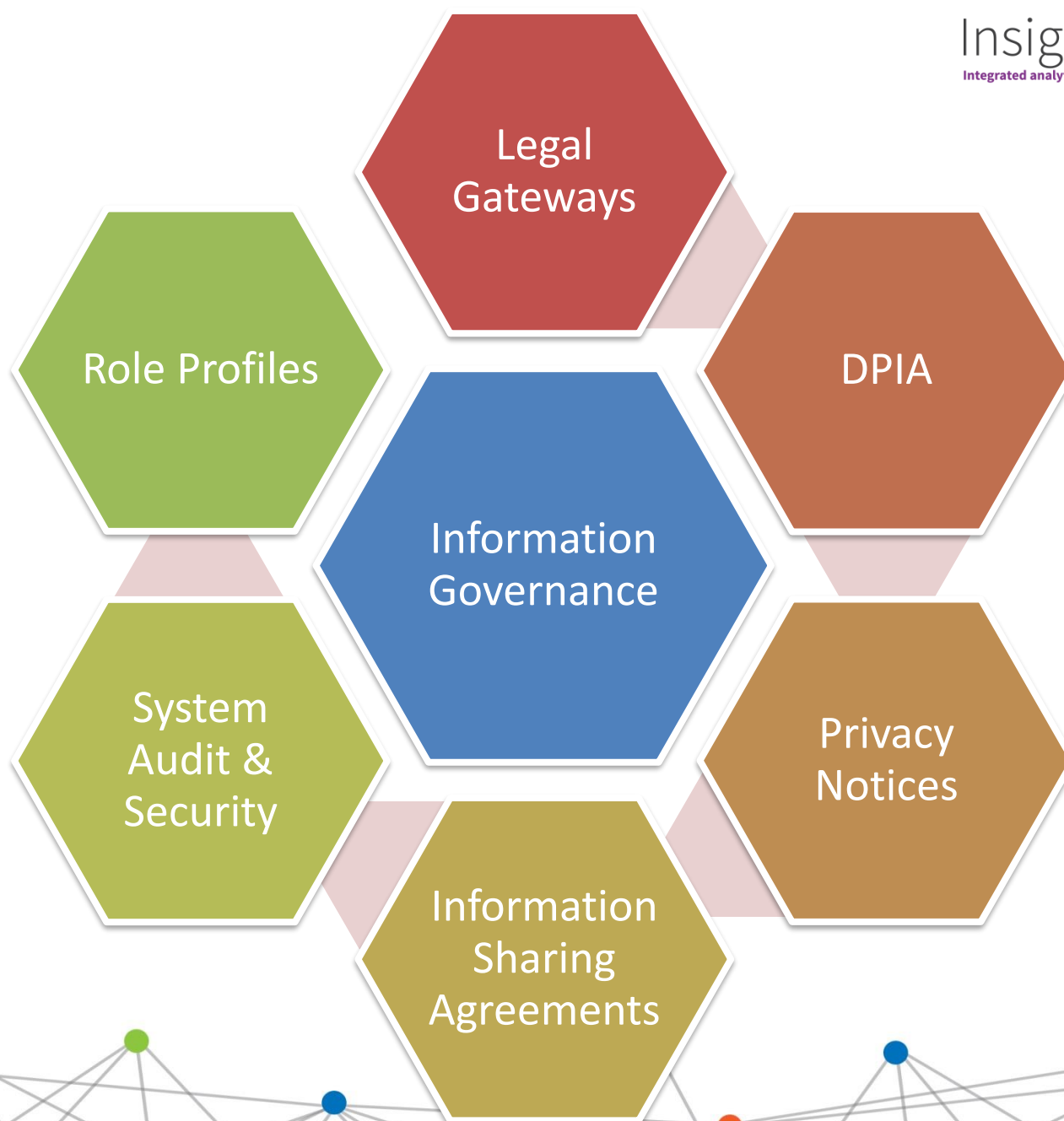
- Widely used within BCC
    - First Response
  - Families in Focus - Neet Tracking
- Insight Analytical Hub

# Think Family Database

35 Datasets

170,000 People  
54,000 families





# Legal Gateways

- The Digital Economy Act 2017 and the Public Service Delivery, Fraud and Debt: Data Sharing Code of Practice
- Sections 10 and 11 of The Children's Act 2004,
- Section 82 of The National Health Service Act 2006
- Section 1 of The Childcare Act 2006
- Section 23 and 25 of The Children's and Families Act 2014
- Section 17, 37 and 115 of The Crime and Disorder Act 1998
- Section 11, 21, 157 and 175 of The Education Act 2002
- Section 1 of The Localism Act 2011
- Section 1 of The Children (Leaving Care) Act 2000
- Special Education Needs and Disability Regulations 2014
- Immigration and Asylum Act 1999
- Education and Skills Act 2008 (ESA 2008)





Description	Source	Legal Gateways
<b>ASB</b>		
Person Committed ASB	BCC & ASC	1, 5, 9, 10, 11, 12
Subject Managed by ASB Team	ASC	1, 5, 7, 9, 10, 11, 12
<b>Crime</b>		
Person Committed Offence	ASC	1, 5, 9, 10, 11, 12
Prisoner 12 Months From Release	ASC	1, 5, 7, 9, 10
Breach of Order of Injunction	ASC	5, 7, 9, 10
Other Professional Referral	EHM	5, 7, 9, 10, 11, 12
Youth Caution or Restorative Justice	ASC	5, 7, 9, 10
<b>Domestic Violence</b>		
Victim of DVA	ASC	1, 4, 7, 9, 10, 11, 12
Perpetrator of DVA	ASC	1, 4, 7, 9, 10, 11, 12
Involved in Domestic Incident	ASC	4, 7, 9, 10, 11, 12
Other Professional Referral	EHM	7, 9, 10
<b>Substance Misuse</b>		
Drugs and Alcohol Incident	ASC	1, 4, 7, 9, 10, 11, 12
Accessed Drug or Alcohol Support	BCC	1, 7, 9, 10, 11, 12
<b>Health</b>		
Teenage Parent	BCC	1, 2, 4, 6, 8, 9, 10, 11, 12
Mental Health Concern	BCC	1, 7, 9, 10, 11, 12
Other Professional Referral	EHM	1, 9, 10



Financial Exclusion		
Out of Work Benefits	DWP	1, 9, 10, 13
Child NEET	BCC	1, 4, 6, 9, 10, 11, 12
Other Professional Referral	EHM	4, 6, 9, 10
Adult Benefit Cap	BCC	1, 9, 10, 13
Person in Rent Arrears	BCC	1, 9, 10, 13
Child Claiming Free School Meals	DFE	1, 9, 10, 11, 12, 13
Missing Persons		
Person Reported Missing	ASC	1, 2, 4, 6, 8, 9, 10, 11, 12
Risk Models		
Child Risk of Sexual Exploitation	ASC & BCC	1, 2, 4, 6, 8, 9, 10, 11, 12
Risk of NEET	BCC	1, 4, 6, 8, 9, 10, 11, 12
Risk of Conduct Disorder	ASC	1, 2, 4, 5, 6, 7, 10, 11, 12
Domestic Abuse Offender Risk	ASC	1, 2, 4, 5, 6, 7, 10, 11, 12
Domestic Abuse Victim Risk	ASC	1, 2, 4, 5, 6, 10, 11, 12
Missing Person Risk	ASC	1, 2, 10, 11, 12
Child at Risk of Criminal Exploitation	ASC & BCC	1, 2, 4, 6, 7, 8, 9, 10, 11, 12

School Attendance and Exclusion		
Child Persistently Absent	DFE / EYES	1, 4, 5, 8, 9, 10, 11, 12
Child 3 Fixed Term Exclusions	DFE / EYES	1, 4, 5, 8, 9, 10, 11, 12
Child Permanently Excluded	DFE / EYES	1, 4, 5, 8, 9, 10, 11, 12
Child Pupil Referral Unit	DFE / EYES	1, 4, 5, 8, 9, 10, 11, 12
Other Professional Referral	EHM	8, 9, 10
Service Involvement		
Open to Families In Focus or Social Care	BCC	1, 2, 4, 6, 8, 9, 10, 11, 12
Child Looked After	BCC	1, 2, 4, 6, 8, 9, 10, 11, 12
Child in Need	BCC	1, 2, 4, 6, 8, 9, 10, 11, 12
Child Protection Plan	BCC	1, 2, 4, 6, 8, 9, 10, 11, 12
Accessed Homeless Prevention Support	BCC	1, 2, 3, 4, 6, 8, 9, 10, 11, 12
Other Professional Referral	EHM	2, 8, 9, 10

# Who's it used by?

- FIF staff
- Performance / Analysts
- Social workers
- YOT
- Housing
- First Response
- Police safeguarding
- Council Benefits team
- Employment, skills and learning team
- Neet tracking
- Safeguarding in Education

600 users

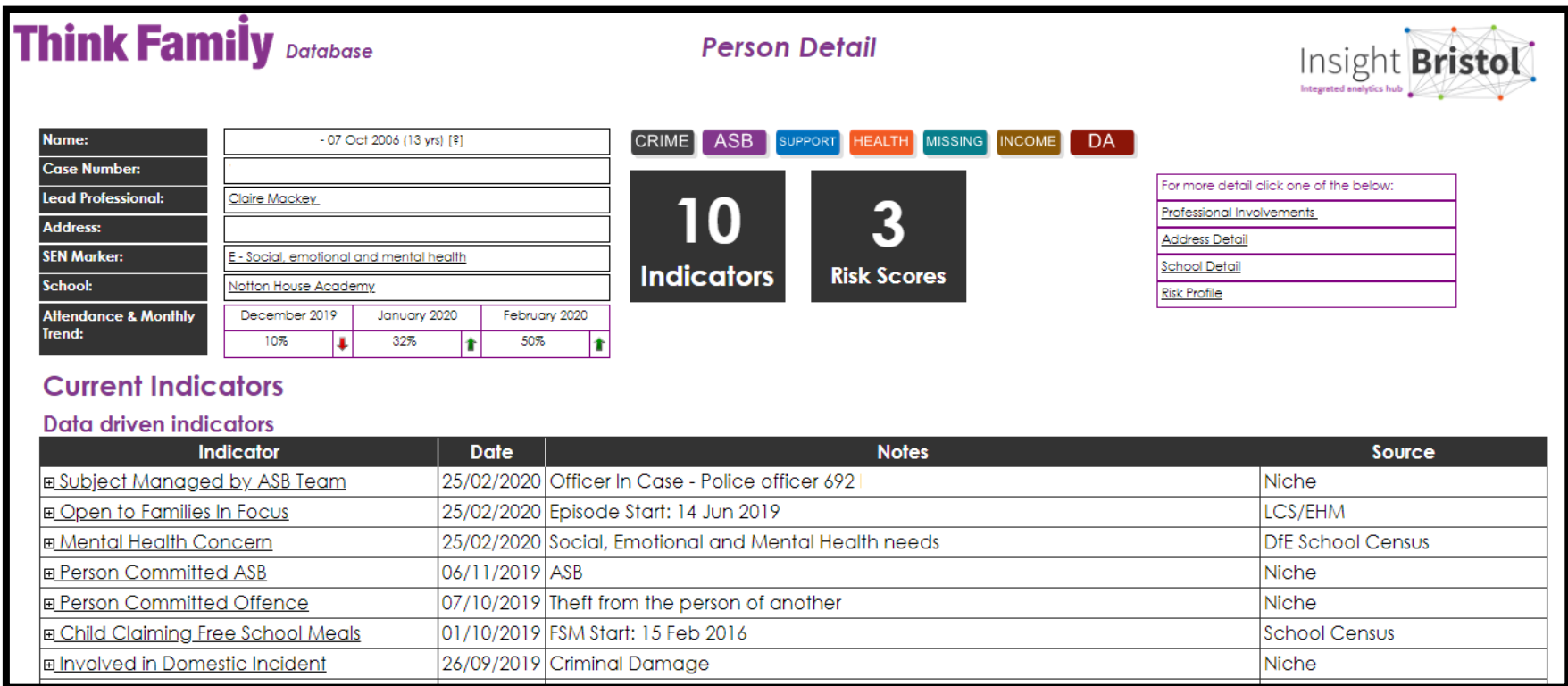
Around 5000  
searches per  
month

130k searches  
since 2018

Ingrained in  
working  
practices



# Think Family Database



# Think Family Database

## Think Family Database

### School Detail

UPN Number:

Current Risk of NEET [?] Yes

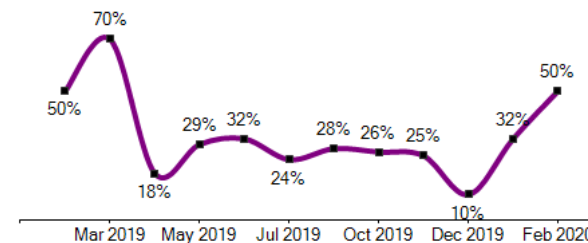
SEN Status	SEN Type
Education, health and care plan	SEMH

XVault (Live Feed from Schools System covering 12 months) [Not Validated]

School Name	Month	Date	Sessions Attended	Sessions Possible	Percentage
Notton House Academy	February 2020		10	20	50%
Notton House Academy	January 2020		12	38	32%
Notton House Academy	December 2019		3	30	10%
Notton House Academy	November 2019		10	40	25%
Notton House Academy	October 2019		9	34	26%
Notton House Academy	September 2019		10	36	28%
Notton House Academy	July 2019		8	34	24%
Notton House Academy	June 2019		12	38	32%
Notton House Academy	May 2019		10	34	29%
Notton House Academy	April 2019		4	22	18%
Notton House Academy	March 2019		28	40	70%
Notton House Academy	February 2019		2	4	50%
<b>Total</b>			<b>118</b>	<b>370</b>	<b>32%</b>

Updated: 26/02/2020 07:30 AM

### Attendance



# Think Family Database

## Think Family Database

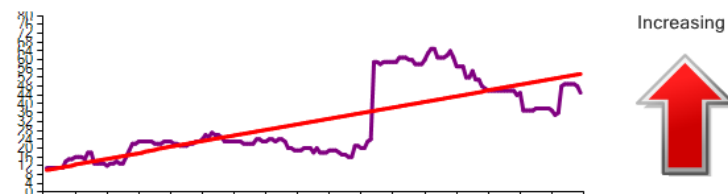
### Family Detail

Change Family Selection?

Lead professional: Claire Mackey

Name	Criteria
01/01/2015 (5 Years)	
20/01/2014 (6 Years) Relationships...	<b>SUPPORT</b> <b>SCHOOL</b> <b>INCOME</b>
20/01/2014 (6 Years)	
30/04/2012 (7 Years) Relationships...	<b>INCOME</b>
13/05/2008 (11 Years) Relationships...	<b>SUPPORT</b> <b>SCHOOL</b> <b>INCOME</b>
07/10/2006 (13 Years) Relationships...	<b>CRIME</b> <b>ASB</b> <b>INCOME</b> <b>SUPPORT</b> <b>MISSING</b> <b>HEALTH</b> <b>DA</b>

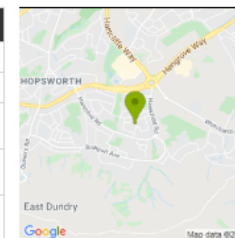
### Family Indicators



Address:

### Other Addresses

Bristol Foyer 2A Victoria Street Bristol BS1 6DT (East Central)  
1 St Lukes Mews Bristol BS4 4RL (South)  
Flat 5A Bristol Foyer 2A Victoria Street Bristol BS1 6DT (East Central)  
21 Stone Hodges Gloucester Road Bishopston Bristol BS7 8NH (North)  
Flat 9B Bristol Foyer 2A Victoria Street Bristol BS1 6DT (East Central)  
71 Brighton Crescent Bristol BS3 3PP (South)



# Think Family Database

Indicator	Indicator Date	Value	Notes
Risk of NEET	25 Feb 2020	88.00	This child is at risk of becoming NEET due to factors present in their Think Family, school attendance and educational attainment history (Think Family and educational attainment factors apply to the individual and/or their family).
Risk of Conduct Disorder	25 Feb 2020	94	This person has been flagged at risk as they meet 3 risk factors. These are derived from income deprivation, crime and ASB, substance misuse, domestic abuse and neglect within their families.
Risk of Child Criminal Exploitation	25 Feb 2020	50.000	This young person is vulnerable to Child Criminal Exploitation (CCE). They are supported by the Safer Options and Youth Offending Teams. They are linked to CCE-related Police reports; they are linked to people who are linked to County Lines-related Police reports; they are linked to Police intelligence relating to acquisitive crime; they are involved in criminality with people aged over 18; they have gone missing 16 times; they are linked to other young people who are also vulnerable to CCE and to people aged over 18 who are linked to CCE-related Police reports.







Latest snapshot: 27/03/2019

Cost for Children  
74.99M

Cost for Adults  
178.8M

Cost for Persons  
253.8M

Child/Adult

Department

School

Ethnicity

Age Drill Down

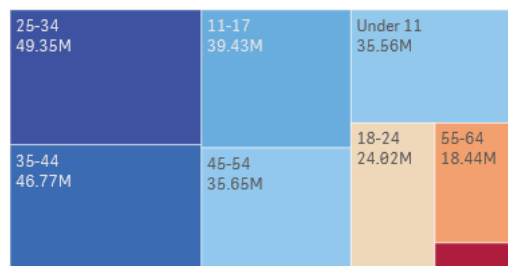
Indicator

...

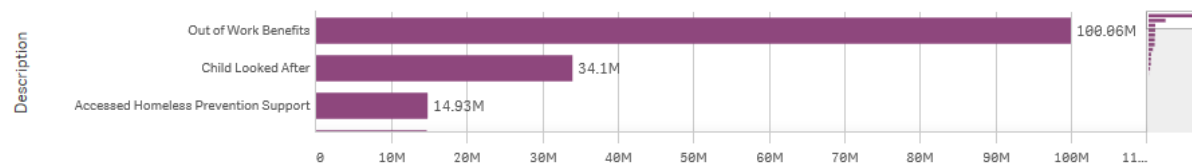
### Region Cost Split



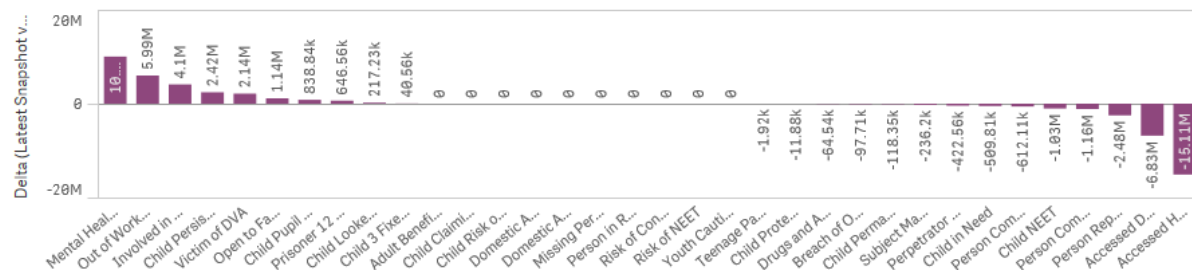
### Distribution of Child Age Band Cost Estimation



### Cost per Indicator Code



### Current vs Previous Year Cost Estimation



# Operationalising Analytical Products

*Developing bespoke analytical products that meet an emerging business need, are integrated into operational practice and improve outcomes for young people and families across the city*

Child at Risk of  
Criminal  
Exploitation

Child at Risk of  
Sexual  
Exploitation

Child at Risk of  
Becoming NEET

Serious Violence  
Offender/Victim  
Risk

# Risk of Neet Model

- Identify entrenched neets aged 17
- Understand their profile at younger age
- Model on risk factors
- Apply risk factors to current age group
- Identifies risk of neet cohort
- Broader and detailed analysis compared to current RONI models -



# Next steps

- External partner access
- Bring in health data on risk and vulnerability
- Develop ethics framework
- Focus on safeguarding leads in schools
- A lot of scope and opportunities



**Thanks for Listening**  
**Any questions?**

