



BRINGING CHILDREN'S DATA

BACK TO LIFE

An interactive map of front door and assessment data

Presented by

Matt Wagner - Data Analyst for Children's Social Care, KCC


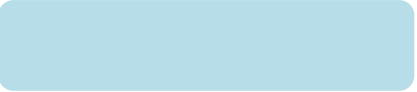
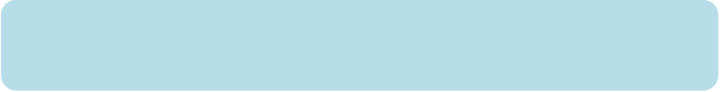
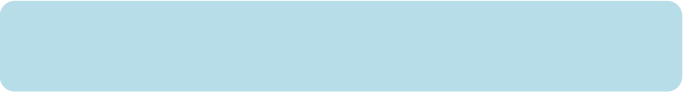
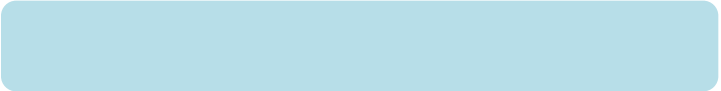
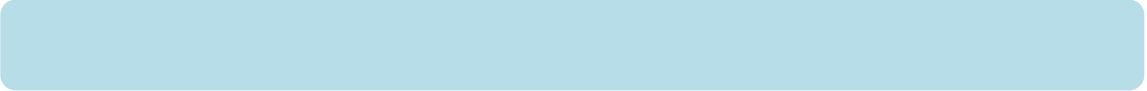
Dr James Geddes - Principal Data Scientist, The Alan Turing Institute

Sarah Hammond - Director, Integrated Children's Services, KCC

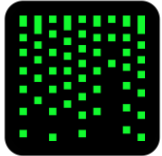
Penny Ademuyiwa - Assistant Director - Front Door, KCC



WHAT WE'LL BE COVERING

- 1 Challenges/opportunities in Kent 
- 2 Project set-up & problem definition 
- 3 Creating the prototype 
- 4 The prototype in action 
- 5 Possible developments 
- 6 Q&A 

STRENGTHS



Wealth of well-understood data



Variety of information available to managers and front-line workers

“Performance management systems provide detailed data and helpful analysis to monitor and develop services effectively.”

- *Ofsted Report, March 2017* -

CHALLENGES



There are many factors impacting children's routes and outcomes, which can be hard to identify



How do we know that we are asking the right questions?


COULD LOOKING AT THE DATA
DIFFERENTLY HELP US TO
UNDERSTAND HOW TO
WORK WITH CHILDREN AND
FAMILIES MORE
EFFECTIVELY?

WORKSTREAM SETUP

CONCEPT GENERATION

Two primary applications of data visualisation in children's social care:

- 1 Quickly testing hypotheses
- 2 Spotting unexpected trends or relationships



Application 2 was chosen with a focus on the entry into the social care system (including contact, referral and assessment).

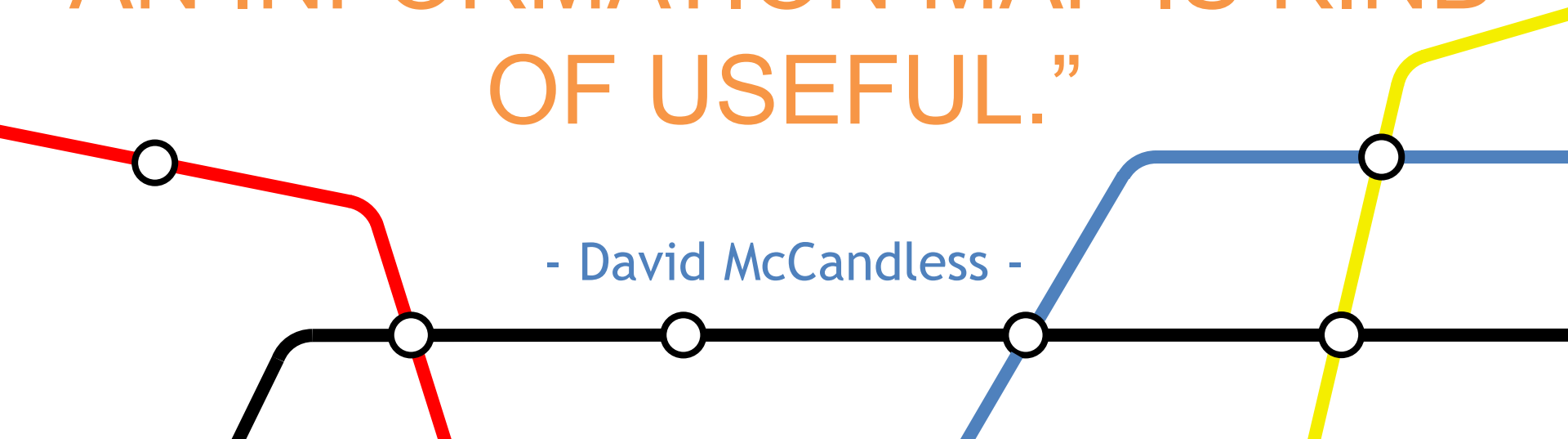
AIM

CREATE A **PROTOTYPE DATA VISUALISATION**
AS A PROOF-OF-CONCEPT TO DEMONSTRATE SOME OF THE
POTENTIAL BENEFITS WITHIN CHILDREN'S SOCIAL
CARE.

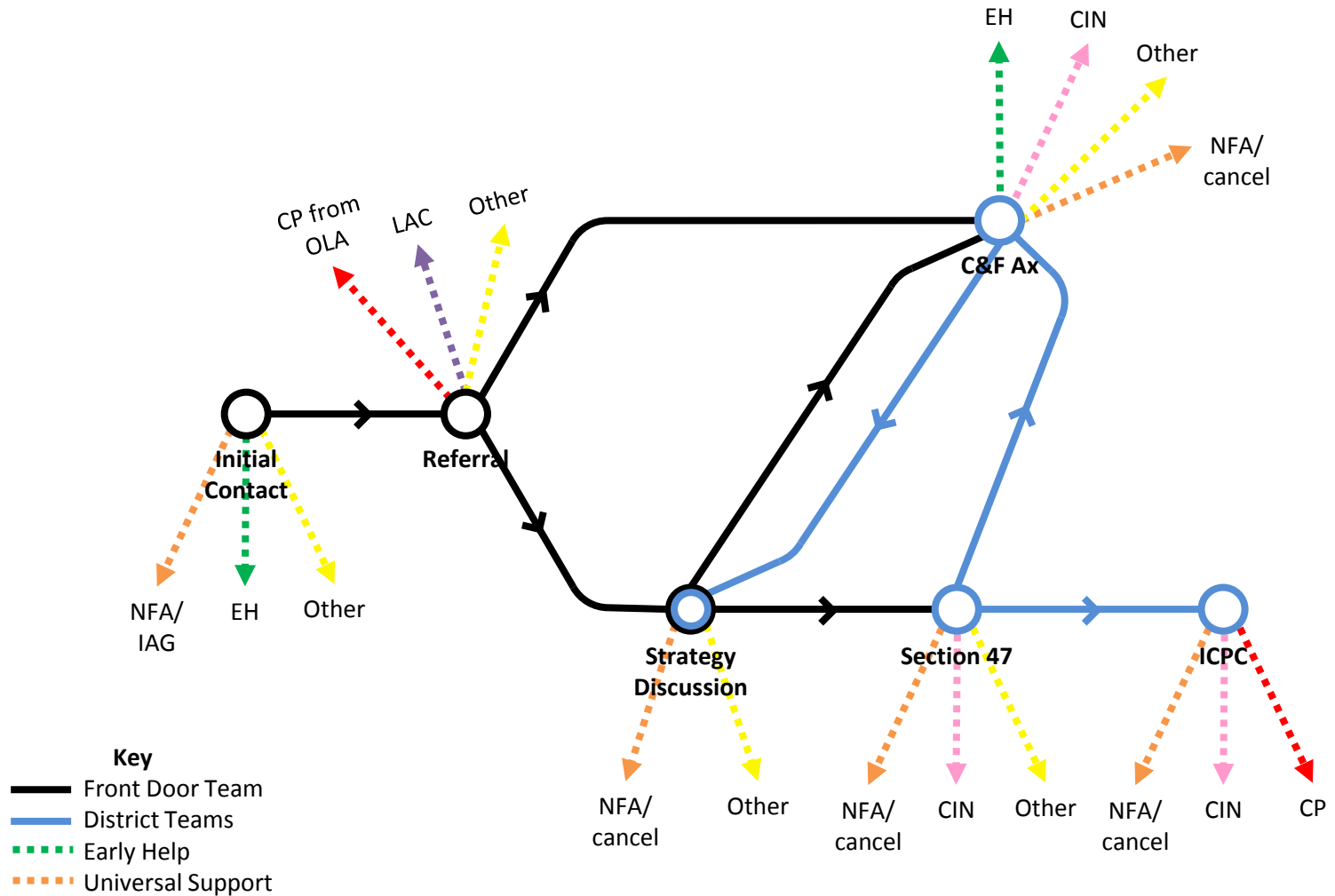
“BY VISUALIZING INFORMATION, WE TURN IT INTO A LANDSCAPE THAT YOU CAN EXPLORE WITH YOUR EYES. A SORT OF INFORMATION MAP.

AND WHEN YOU’RE LOST IN INFORMATION, AN INFORMATION MAP IS KIND OF USEFUL.”

- David McCandless -



OUR INFORMATION MAP



CREATING THE VISUALISATION

1 EXTRACT
DATA
into 10 datasets



2 COMBINE &
ANONYMISE



3 RESTRUCTUR
E &
SYNTHETISE
for developer



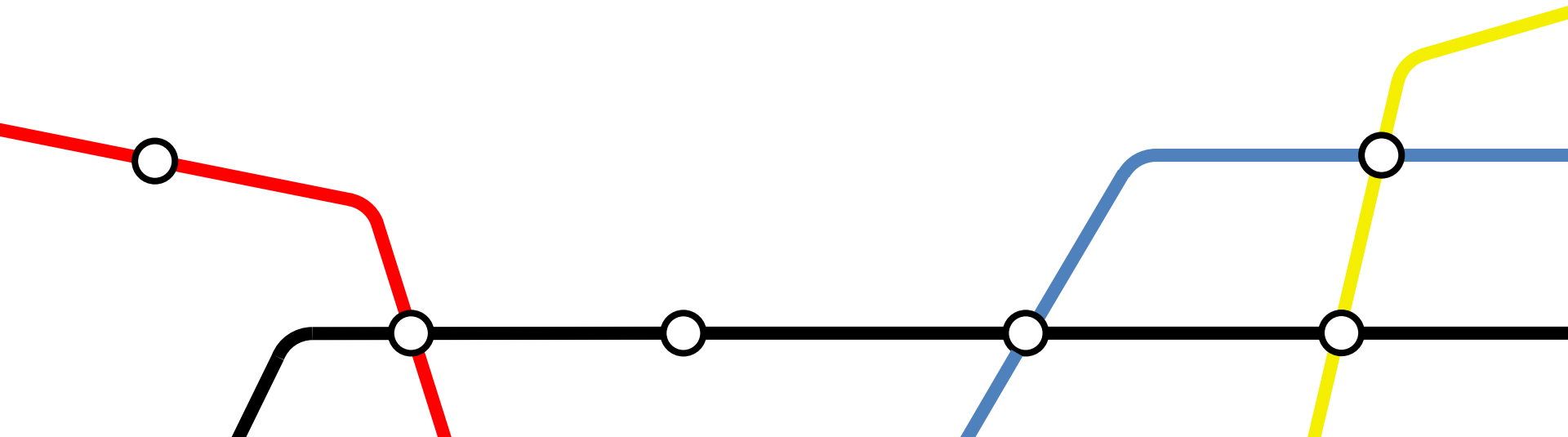
4 DEVELOP
initial visualisation



5 ENHANCE
visualisation



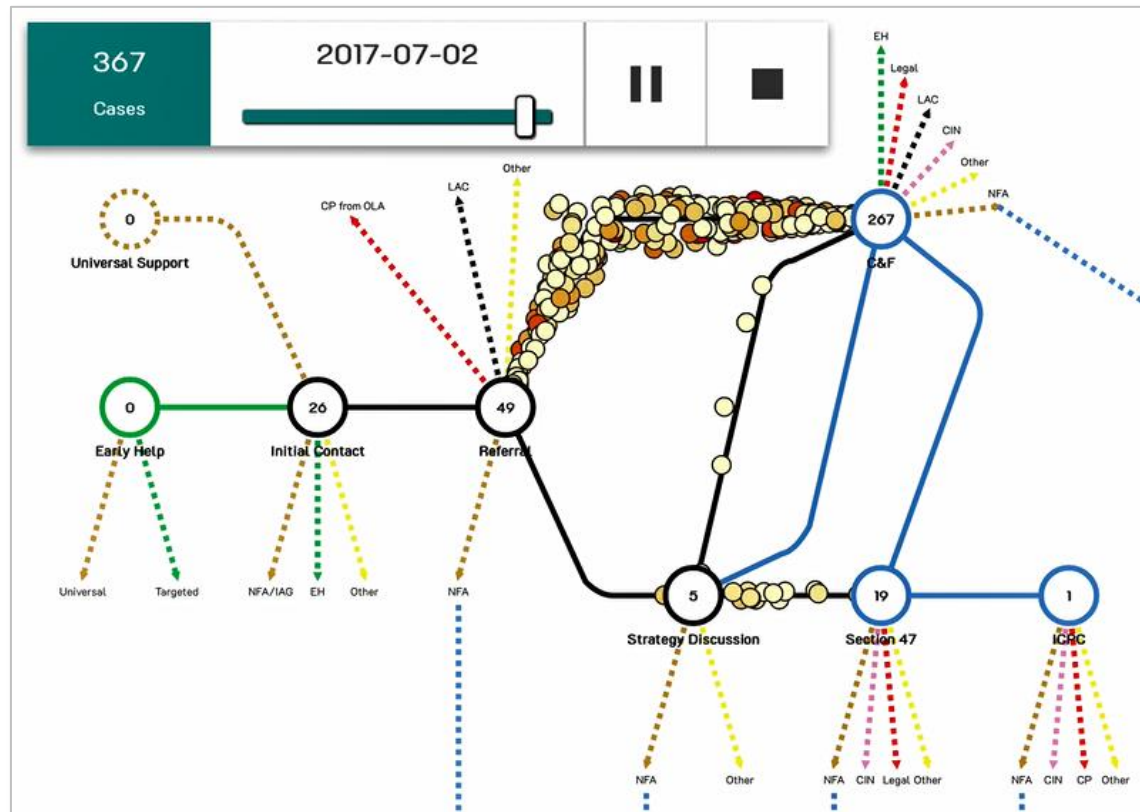
PROTOTYPE VISUALISATION



FUTURE POSSIBILITIES (1/2)

DEVELOPMENT OF THIS VISUALISATION

- Different classification options:
 - Age;
 - Gender;
 - Asylum status;
 - Referral source;
 - # of missing episodes;
 - etc.
- Expand the scope of the map
- Display key statistics
 - e.g. % of children taking each route out of a node



FUTURE POSSIBILITIES (2/3)

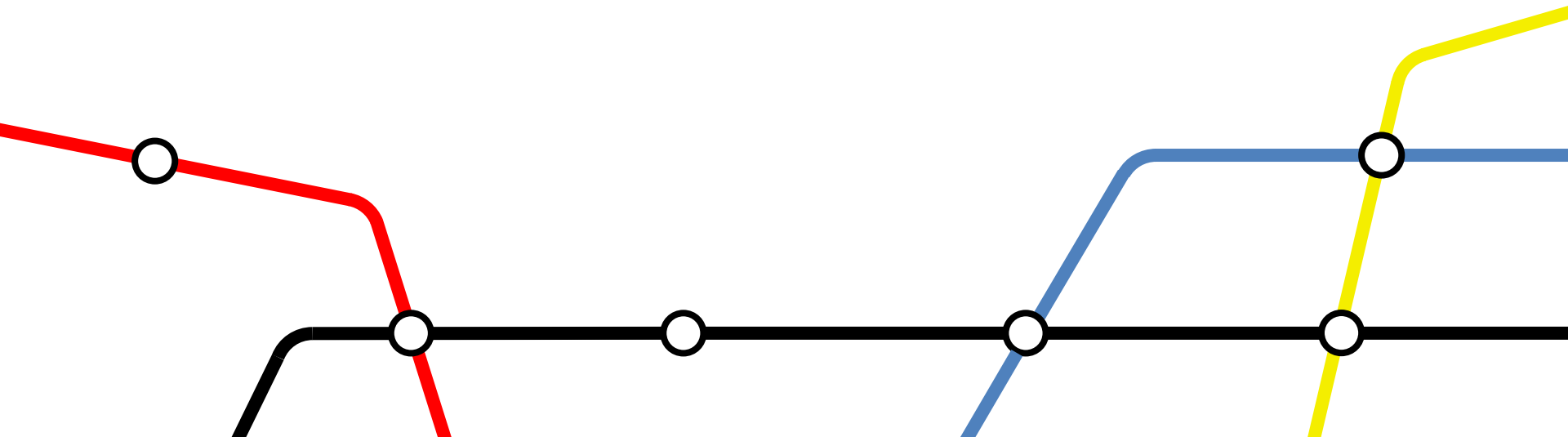
DIFFERENT VISUALISATION OPTIONS

- Visualisation of aggregate information (e.g. average duration)
 - E.g. [Boston subway map example](#)
- Comparison between teams within the LA
- Comparison to other local authorities

WIDER USE OF THESE TOOLS

- Standard data input tool for local authorities to use
 - Similar to Annex A / CHAT tool
- Could there be a facility to compare your aggregate information to that of other local authorities if you also agree to share yours?

CLOSING REMARKS



QUESTIONS & ANSWERS

