

Medway Youth Trust

HIDDEN PATTERNS

'Predictive Risk Modeling and its importance to NEET Prevention'

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NEET PREVENTION IN MEDWAY

- Tracking
- Caseload Management
- CCIS
- RONI
- RPA

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HIDDEN PATTERNS

'Predictive Risk Modeling and its importance to NEET Prevention'

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NEET PREVENTION

- The 'Big' Issue
- The Solution & Process
- Demonstration
- Outcome of Model
- One Year on
- RPA – The Future

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THE BIG ISSUE

- NEET's Rising – Less Resources
- Disparity between Text & Recorded Destination
- Early Identification & Prevention

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THE SOLUTION

- IBM SPSS Modeler
- CCIS – Rich Data Source
- 360 Degree Client View

THE PROCESS

- Combine CCIS data to have a single record that describes clients
 - Contacts, targets, destinations, categories, special needs, benefits, disabilities
- Text mining – look for key concepts
 - Compile a dictionary
 - Group terms into word subjects (types)
 - Create categories and build a model
 - Score each case on key concepts

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LIVE DEMO

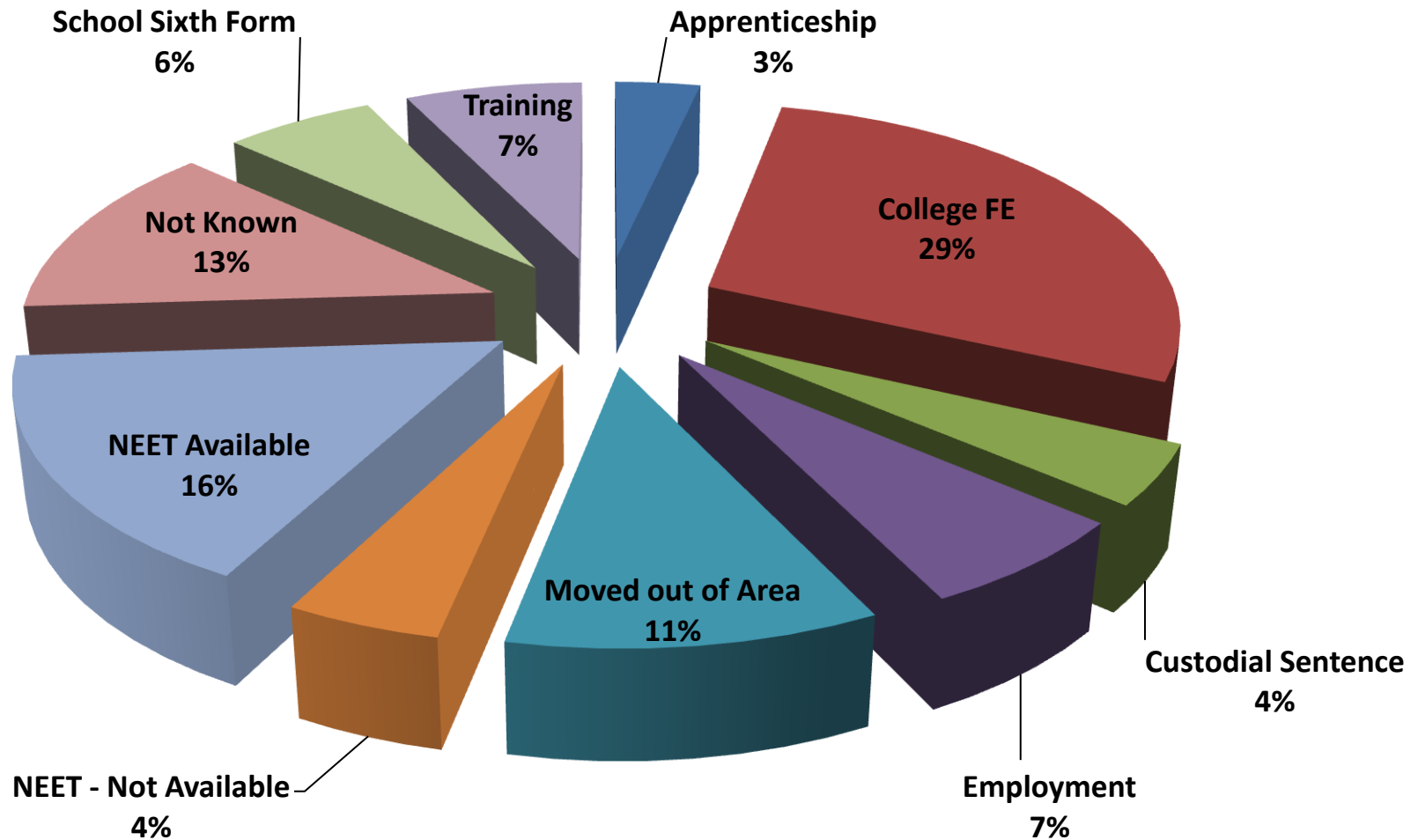
DEMONSTRATION

OUTCOME OF MODEL

- Two models were produced
- Built a composite model to predict NEET
- Scored clients as most likely to be NEET
- Selected 723 as most likely candidates
- Previously searched 10,000 clients

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ONE YEAR ON



Of the 723 identified as having a propensity to become NEET from our model. 52% have progressed into EET.

- Create specific Models – Identify those who are better suited to Apprenticeships, Training or Employment with Training
- Improved Data Sharing – Analyse more data to improve Model performance
- Risk of NEET Indicators – Embedding Analytics into your day to day activities
- Bespoke local CCIS – Collect and analyse data local to your area

IBM – MYT YouTube
Video

http://www.youtube.com/watch?v=eow_YggeBgM&feature=player_embedded

CONTACT

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