



Kent Research Network for Education and Learning

KeRNEL

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Transforming health and social care in Kent and Medway

OPSR Matrix







Background to KeRNEL



- Over the last 7 years Kent has developed a leading reputation for the creation of linked data for the purposes of planning and research. This is known as the Kent Integrated Dataset (KID).
- The KID has been used extensively for local and national research. For example NHSE have used it to calibrate their national funding model, meaning that £28 billion of spend has been calculated using the direct input of the KID. The KID was central to the submission of the Long Term Plan (LTP) response for Kent & Medway.
- Significant progress has been made working with Optum to develop further the capability around the use of linked data.
- The plan now, using the data feeds which informed the KID as one of its foundations, is to create the KeRNEL and expand its breadth and depth in the use of more clinical datasets and across more NHS and partner organisations.

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Drivers

Background to KeRNEL



- PHM Wave 3 from NHSE
- ICS/ICP/PCN development

- Analytics strategy for Kent and Medway
- Shared Health and Care Analytics Board and Joint Data Control
- Resources Academic relationships in Kent
 - Lead the way on PHM; adverse childhood events, intimate partner violence
 - Data feeds from KMCR
- Opportunity Leverage local expertise

Transforming health and social care Infrastructure: breadth & depth in Kent and Medway







Applications



Analysis vs team	КМАР	Public Health	Providers	CSU	Universities	Independent Sector			
Operational		PCN profiles	ED dashboards			Mortality monitoring			
Planning	MSK		Segmentation and Outcomes						
Strategic		JSNA	UTC deve	lopment		Measurement System dynamic modelling			
Research									



What KeRNEL Enables:







Benefits of the KeRNEL



Operational

- Close to real-time operational performance dashboards and reports
- Automation of local and national returns and alignment of methodologies

Planning

- System-wide planning views of demand and capacity across ICS / ICPs
- Alignment of methodologies and automation of elements of the planning process

Strategic

- System-wide view of performance to support commissioning and service transformation / redesign
- Benchmarking of quality and performance

Research

- Dataset to support local and national research initiatives
- Building a centre of excellence for Data Science and AI with academic partners





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KeRNEL



Segmentation and Modelling from Linked Data

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outcomes based health care

