

**Children with Special Educational Needs (SEN)
Using Analytics & AI to Produce Better EHCPs**



**Join the conversation on
SEND transformation**

**FREE workshops for Service
Leaders, Commissioners,
Developers / Technologists**

Friday 17 May, Kings Cross

**To share our experiences, observations, learnings, and seek feedback on
this exciting Local Digital project**

Venue: WeWork, Room 7G, Kings Place, 90 York Way London N1 9AG

Session 1 – The Power of Data & Design (10:00 - 11:30)

How data analytics, AI technology and design thinking can be used to unlock the potential for breakthrough improvements in SEND service value and efficacy.

This session will work for policy makers, service leaders, business transformation and development specialists, and others who want to know more about the value and impact of rapid prototyping, data and design thinking in driving high impact change.

Session 2 – Applied Data Science for Service Innovation (12:30 - 14:00)

Focus on the importance of data driven change. We will talk through the methods and techniques used to make sense of complex EHCP data sets. We will show how these insights can be applied using low cost, open source technologies to deliver high value applications.

This session works best for those wanting to know more about evidence-based change. It will especially appeal to data/financial analysts, heads of service with a technical or maths background. It will prove valuable and interesting for people involved in IT or systems analysts.

Each session will include a short demonstration of the Digital EHCP application and SEN Benchmarking Tool. There will be ample time for questions, answers, and further discussion.

For further information: Tom Penney tom@socialkemistri.com

To reserve a space please contact: Jane Fernley fernleyj@ealing.gov.uk

The back story

1. In July 2018 Ealing Council commissioned [Rainmaker Solutions](#) to carry out research into the SEN service - from the initial request for a statutory assessment to the completion of an EHCP (Education Health and Care Plan). The extensive research with parents, schools, staff and professionals resulted in recommendations for process and system improvements.
2. Following a successful bid to the MHCLG's Local Digital fund, Ealing Council (with partners Suffolk and Staffordshire County Councils) commissioned Social Kemistri to investigate how analytics and artificial intelligence can improve EHCPs – to redesign the process to make it more customer-centric, simpler, faster and more cost effective.
3. An Alpha (prototype) system was produced, delivering faster, more effective needs' assessments for children and young people living with a special educational need or disability. **View the digital EHCP now** <https://socialkemistri.shinyapps.io/digitalehcp/>
4. As a by-product of the project we have brought together national data sets showing SEN data into a **simple dashboard covering SEN2 data for all local authorities**. Available now at <https://algotpark.shinyapps.io/SENS2/>
5. [Local Digital](#) is a growing community of organisations working together with a shared vision to deliver more user-centred, cost-effective local public services through open, collaborative and reusable work; it is supported by the Ministry of Housing, Communities and Local Government (MHCLG).
6. In the spirit of open working and collaboration we are making the SEN2 benchmarking tool available for open access. Our user research, proposed solution and potential for development of a 'beta' project, including cost savings, will be published on [Local Digital](#) after 21 May 2019.

Workshop detail

Session 1 – The Power of Data & Design (10:00 - 11:30)

- What is an Alpha
 - The discovery
 - Special educational needs
 - Feedback & quality
 - Prototype functionality
 - Value modelling
 - Beta development plan
7. In this session we will describe how data analytics, AI technology and design thinking can be fused together to unlock the potential for breakthrough improvements in service value and efficacy.

8. This session will work for policy makers, service leaders, business transformation and development specialists and others who want to know more about the value and impact of rapid prototyping, data and design thinking in driving high impact change.

Session 2 – Applied Data Science for Service Innovation (12:30 -> 14:00)

- Data analytics approach
 - Opportunity gap and value mapping
 - Algorithm development
 - Fast prototyping & prototype walk through
 - Data architecture & technology
 - Roadmap & future development
9. In this session we will talk about the importance of data driven change. We will talk through the methods and techniques used by data scientists to make sense of complex data sets. We will also show how these insights can be applied using low cost, open source technologies to deliver high value applications.
 10. This session works best for those wanting to know more about evidence-based change. It will especially appeal to data/financial analysts, heads of service with a technical or maths background. It will also prove valuable and interesting for people involved in IT or systems analysts.

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