

# All of us together

UK Health Data Research Alliance Symposium

Tuesday 1 December 2020  
09:30 - 17:00

## Scaling up data services to meet national and global challenges

Chair: Ben Gordon, Health Data Research UK

Panellists: Blythe Adamson, Flatiron Health; Sarah Culkin, NHSX; Adrian Jonas, NICE

**HDRUK**  
Health Data Research UK

UK Health Data  
Research Alliance

Health Data Research  
Innovation Gateway

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@HDR\_UK  
#HDRAlliance20

December 1, 2020

# Scaling analysis of RWD

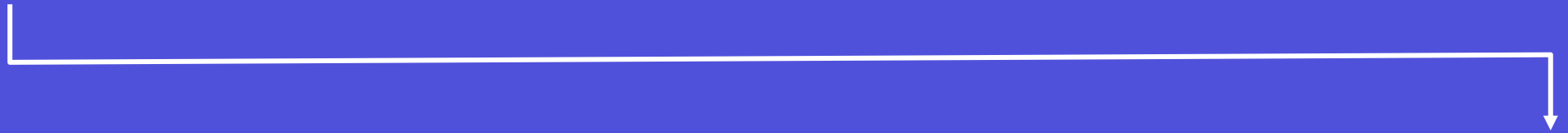
## Health Data Research UK Alliance Symposium

**Blythe Adamson, PhD, MPH**

Director of Quantitative Sciences, Flatiron Health

## FLATIRON'S MISSION

Improve lives by learning from the experience  
of every cancer patient



## FLATIRON'S METHOD

Create comprehensive real-world datasets;  
support the use of that data to accelerate oncology  
research and high-quality care



**David Robinson**

@drob

Following

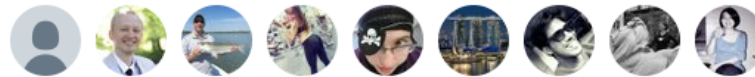


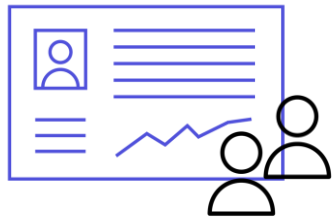
“90% of data science is wrangling data, the other 10% is complaining about wrangling data.”

@evelgab at #rstatsnyc

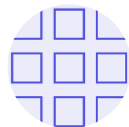
2:03 PM - 20 Apr 2018

97 Retweets 335 Likes





**EHR**



Structured Data

Diagnosis

Demographics

Drug Orders

Visits

Labs



Unstructured Data

Physician Notes

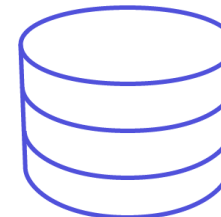
Radiology

Pathology

Discharge Notes

Structured  
Data  
Processing

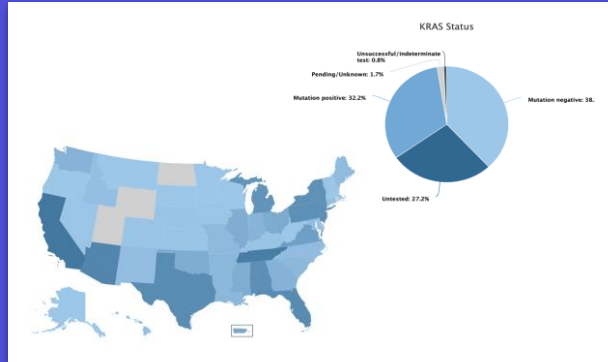
Unstructured  
Data  
Processing



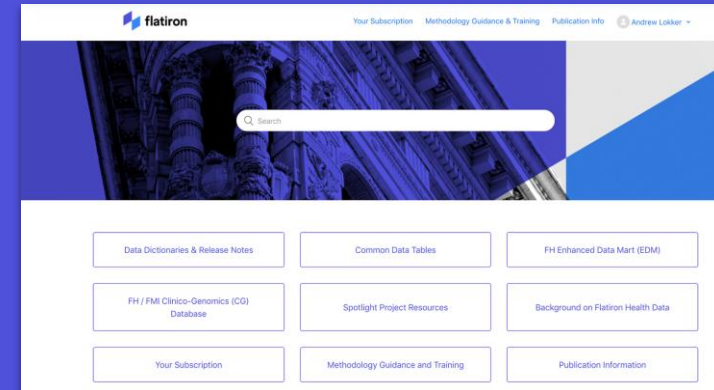
RWE  
Database



Interactive data visualisations for Flatiron databases



Knowledge Center: FAQs, resources, trainings and technical webinars



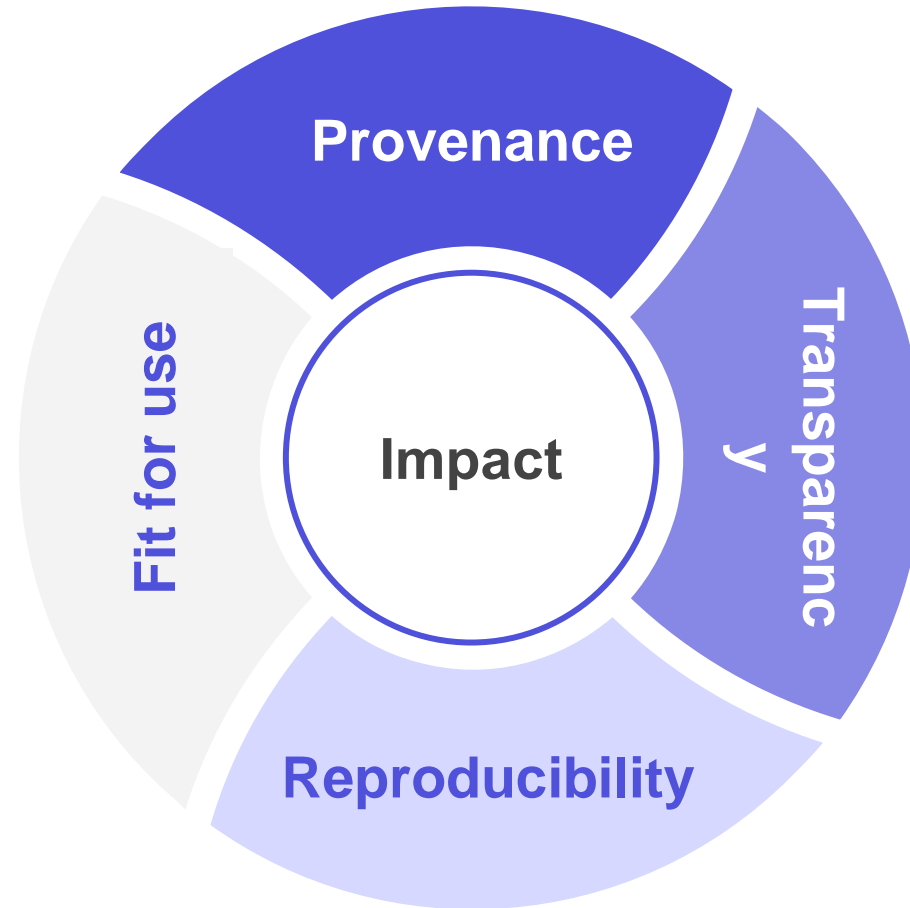
Suite of R packages for statistical analysis and visualisation



Designated Support Contact

[AskResearch@Flatiron.com](mailto:AskResearch@Flatiron.com)

# “Flatiron Values” for scaling evidence generation





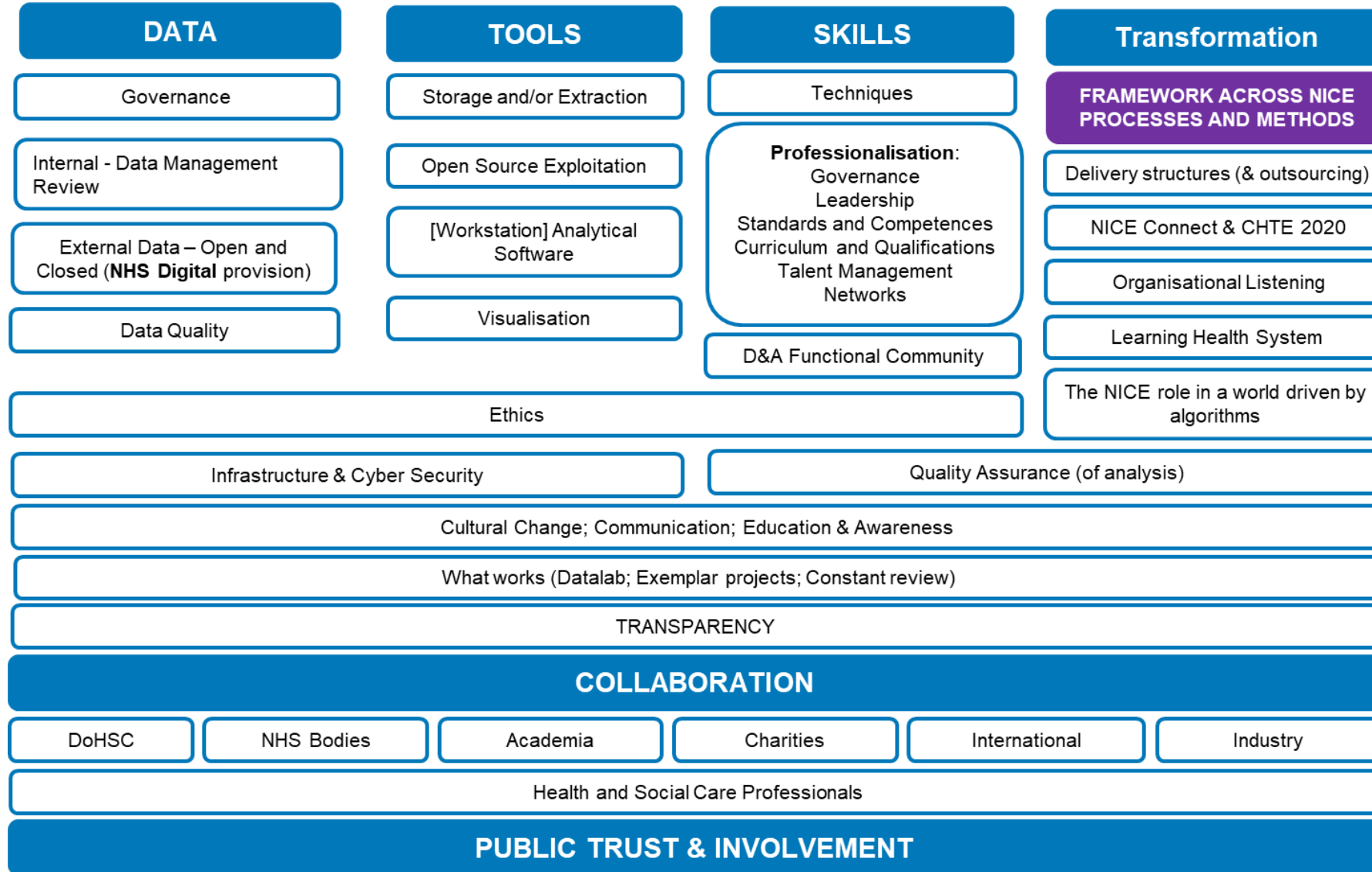
Thank you

# Scaling up data services to meet national and global challenges

Adrian Jonas

\*Disclaimer – any views expressed in this presentation are my own and not those of NICE

# Transformation required across the whole Health ecosystem to support our ambitions...



# Data Analytics as a key part of our Coronavirus response

- Established a COVID-19 Data and Analytics taskforce within NICE with members drawn from across the organisation (including SP&R and ER/IS)
- Anticipated the well-publicised retraction of a hydroxychloroquine study based on unverifiable data; thus developed and **published an interim approach to assessing the quality of [real world] evidence based during COVID-19**
- Identified and prioritised areas of uncertainty in rapid COVID-19 guidelines suitable for analysis – e.g. Risk stratification for patients treated with drugs affecting the immune system
- Continually monitoring and communicated the external environment for external COVID-19 data and analytic initiatives
- Used data science techniques to develop a automated pre-print scraper and trial tracker dashboard



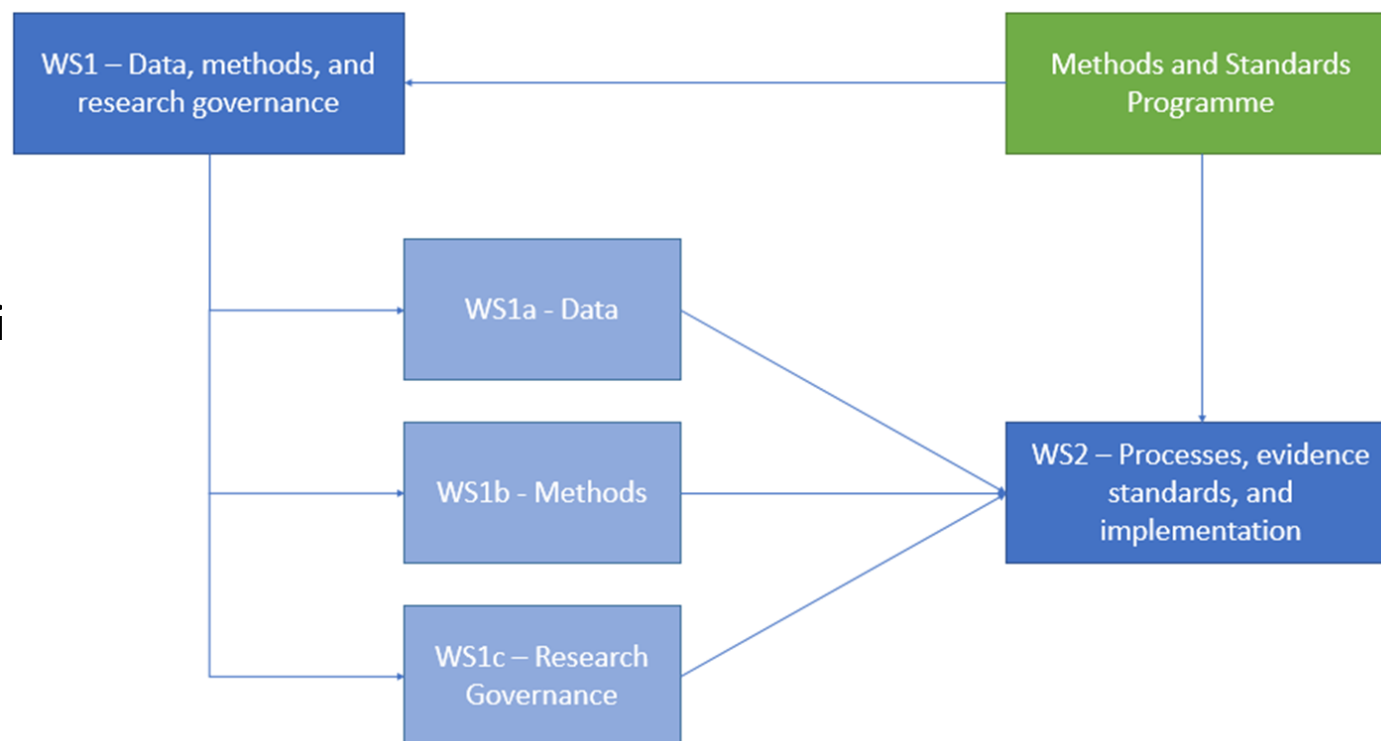
# Next steps (2021) NICE Methods and Standards programme

## Types of data

- Routine health and social care delivery (EHRs, registries, etc.)
- Data from digital health technologies, social media, etc.
- Trial data analysed using observational methods

## Applications

- Evidence in HTA (programme benefits/treatment effects, characterisation resource use/costs, etc.)
- Within RCTs (design, recruitment, outcomes)
- Primary data collection, secondary use, published studies
- Across evidence generation (from collection to analysis)



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Coming up next...

14:20-14:30 Break

14:30-15:00 Federation and a look to the future

Find the links to join in your brochure or at [hdruk.ac.uk/symposium-links-20](https://hdruk.ac.uk/symposium-links-20)

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