

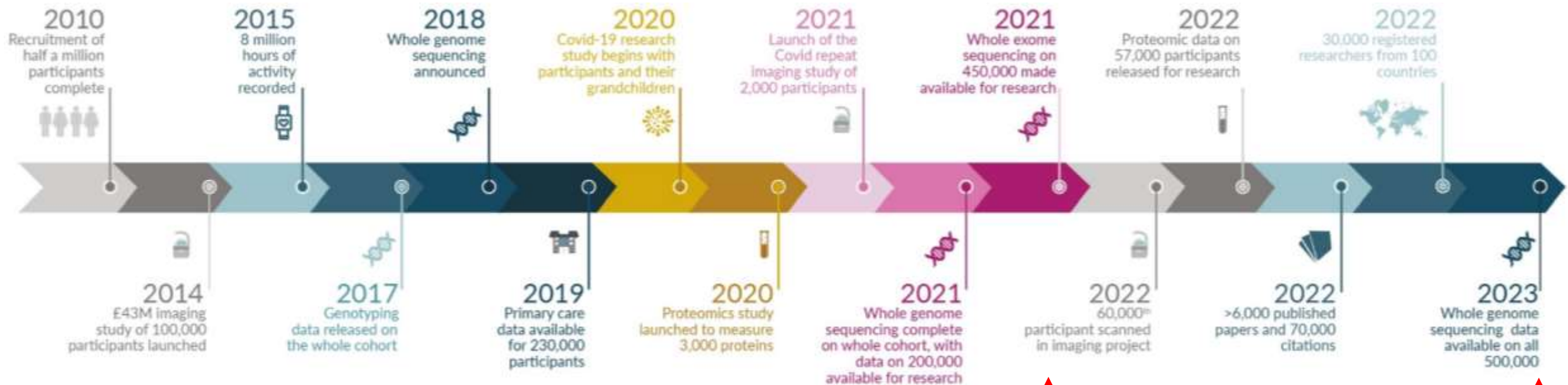
Accelerate your research through UK Biobank sequencing data in the RAP

2nd November 2023

Mark Effingham
Deputy CEO
UK Biobank



UK Biobank: High-level timeline



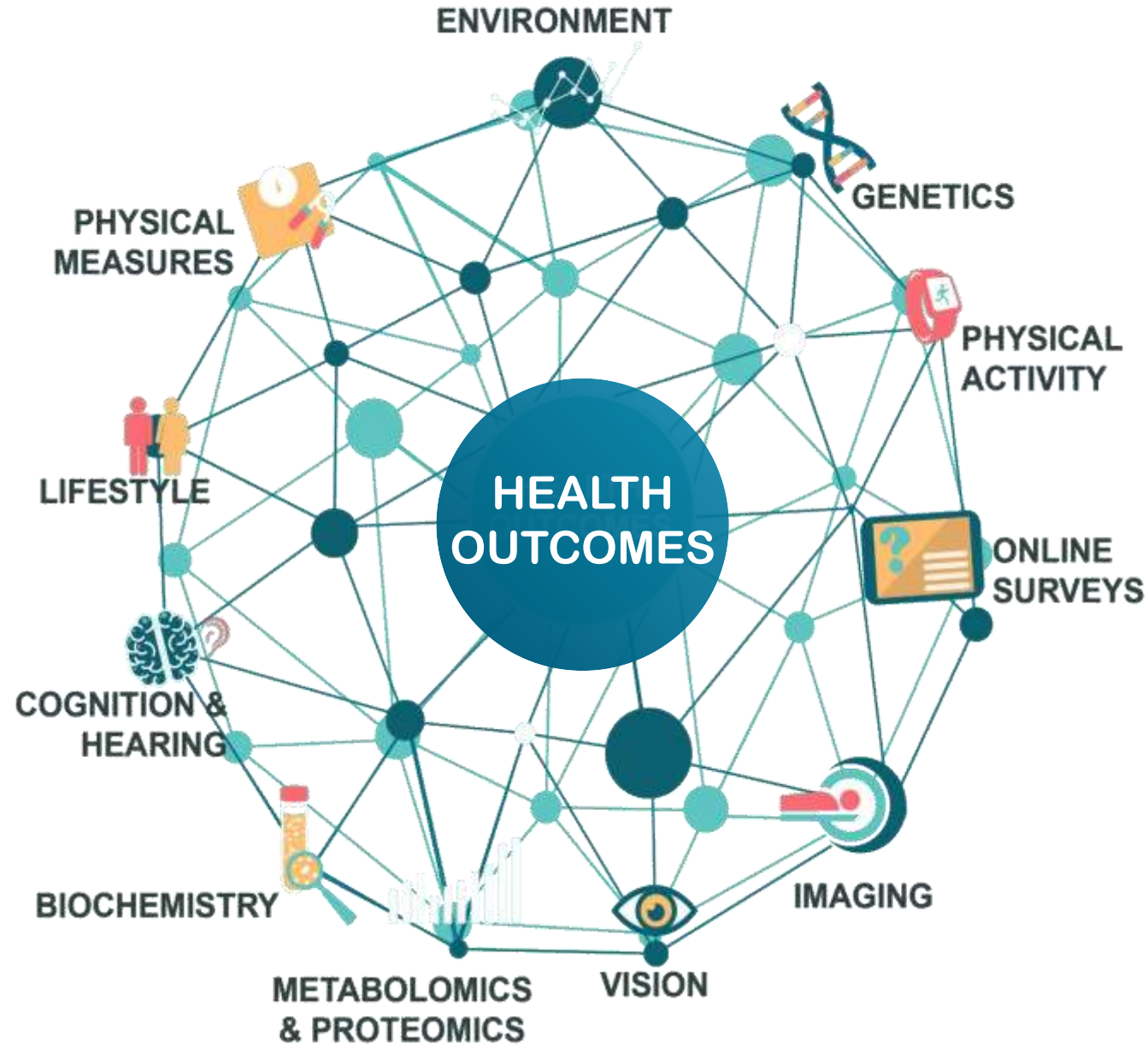
Research Analysis Platform Launched

November 2023
500k genomes
DRAGEN version
+ GATK version

What makes UK Biobank unique?

Depth

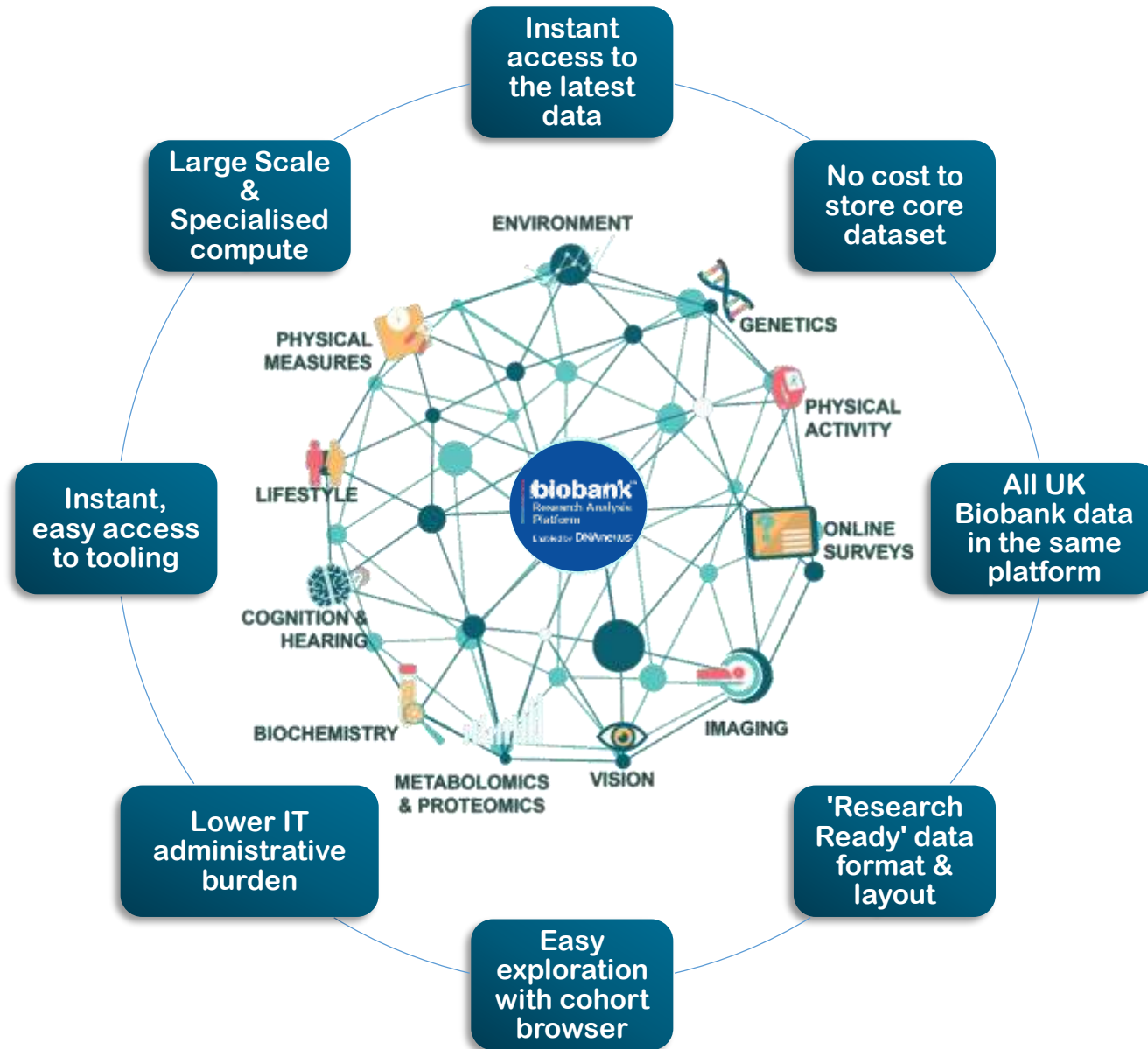
Breadth



Duration

Open Access

UK Biobank Research Analysis Platform



<https://ukbiobank.dnanexus.com>




Lower cost research


Faster time to results


Higher productivity


Democratising access to data & compute infrastructure **biobank**^{uk}

 **>5,000**
Users

 **>550**
Community
Members


 **30 PB**
Data

 **>500**
Mthly Active Users

 **>2,700**
Projects

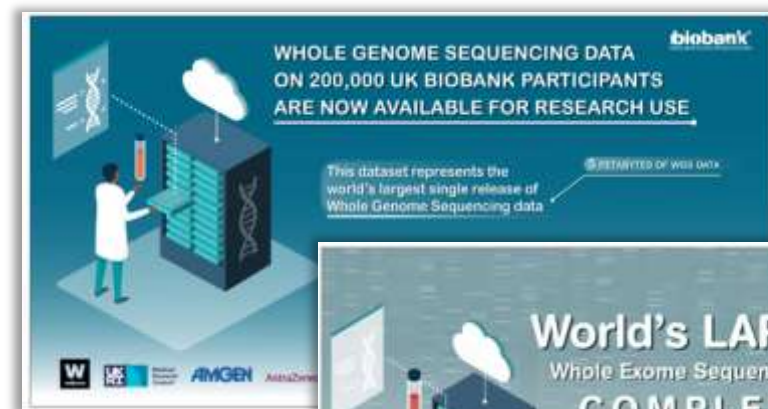
 **11M**
Files

 **26**
Webinars &
Workshops*

 **463+**
Apps

 **200+**
Tools

*During 2022



~2 fold increase in users in 12 mths

>15 data releases since 2020

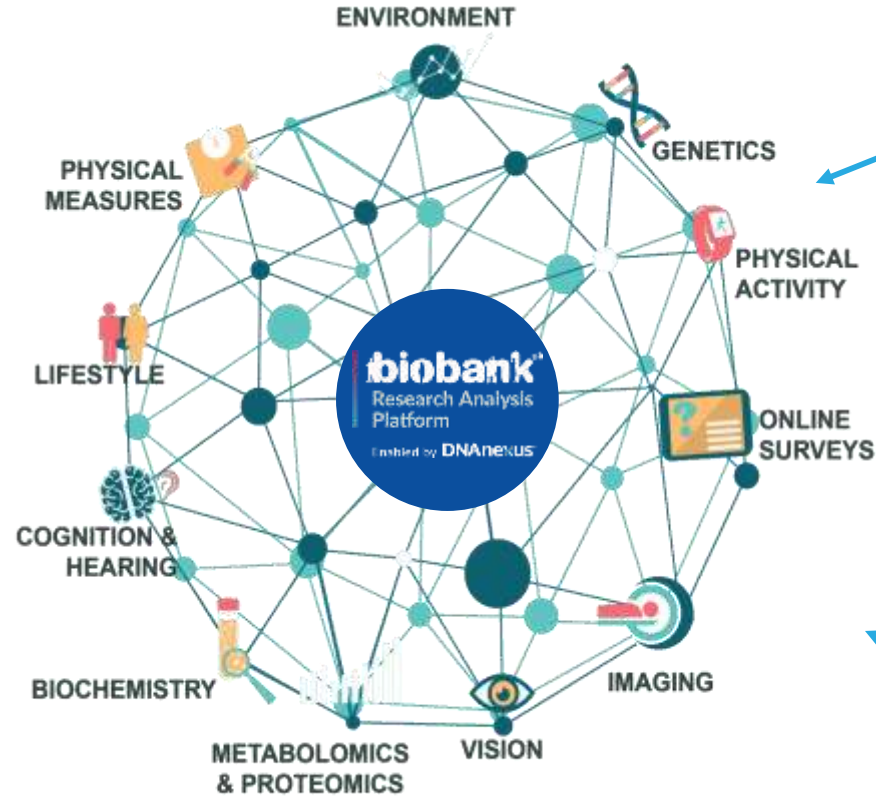
Tools and resource sharing on the
Community Forum

Democratising access to analysis tools



UKB RAP UI/ Cohort Browser

<https://ukbiobank.dnanexus.com>

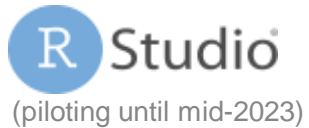


Workflow managers

Bring Your Workflow to the Platform



Apps

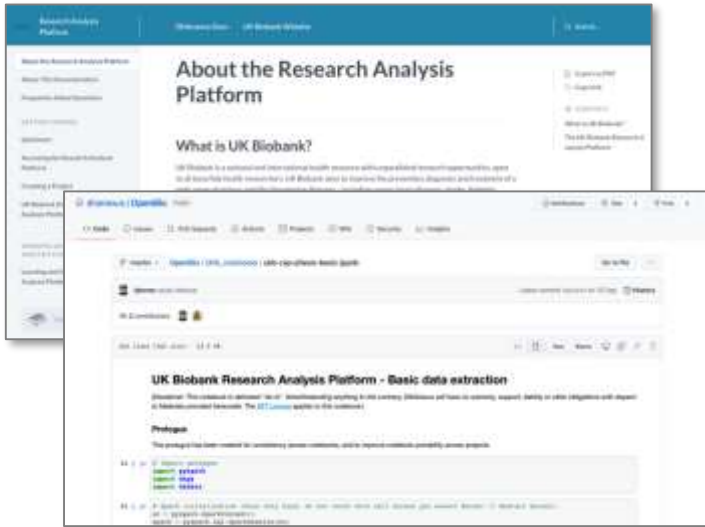


Bring your own...
Install your own software packages

Spark / JupyterLab

Python/R/Stata





Online Training

- Wide-range of online webinars available
- Spanning overview content through to detailed step-by-step tutorials



Online Documentation

- UKB-RAP docs and tutorials
- Example notebooks / scripts

Helpdesk

- Responsive email support available



Community Portal

- New online support community
- Collaborative space to exchange information, ideas, tips and techniques on using the RAP
- Quick links to helpful resources



Democratising access across wealth inequality

Maresh Pancholi
@mareshpancholi

Hey #PhDchat #AcademicTwitter #EarlyCareer & #LMIC researchers, did you know that courtesy of @awscloud @uk_biobank has \$500k of credits per year for use by eligible researchers in the UKB Analysis Platform hosted by @dnanexus?

Hit the link for details: ukbiobank.ac.uk/enable-your-re



For more detail, please don't miss...



Sequencing and Analysing Whole Genome Data from 500,000 UK Biobank Volunteer Participants

Friday, Nov. 3, 2023 - 3:45pm – 4:15pm
CoLab Theater 2

Presenters:

Lucy Burkitt-Gray, UK Biobank
Ben Busby, DNASexus



Efficiently Analysing Large-Scale WGS Data

Webinar on Youtube channel
Hands-on training guide



UK Biobank: Executive team and Coordinating centre staff, Strategic Oversight Committee, International Scientific Advisory Board, Scientific Working Groups, Oxford University team

Funders:



And, of course, our 500k Participants:

