

# Practical - Genomics England Embassy

### **Getting at the Data**

Matthew Parker Lead Bioinformatician Sheffield Diagnostic Genetics Service



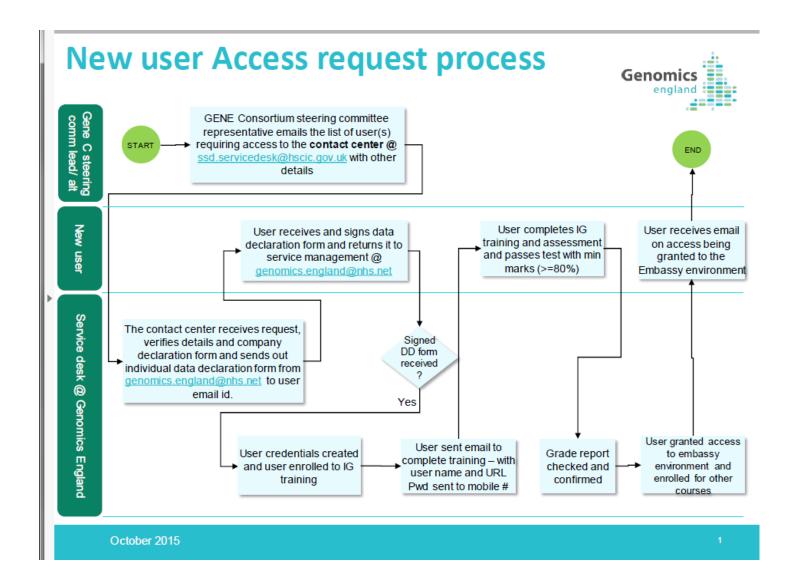
#### Information Governance



- Patient confidentiality and protection is a key cornerstone of the 100,000 Genomes Project.
- individual level data will not be "released" but will instead be analysed within a secure, monitored environment akin to a reading library
- To protect patient confidentiality access to this environment will be reviewed and granted only for specific, approved purposes in accordance with informed consent and the ethical scope of the Protocol, and any attempted usage beyond the specified purpose may lead to exclusion and possible legal action, supported by automatically-generated electronic evidence.

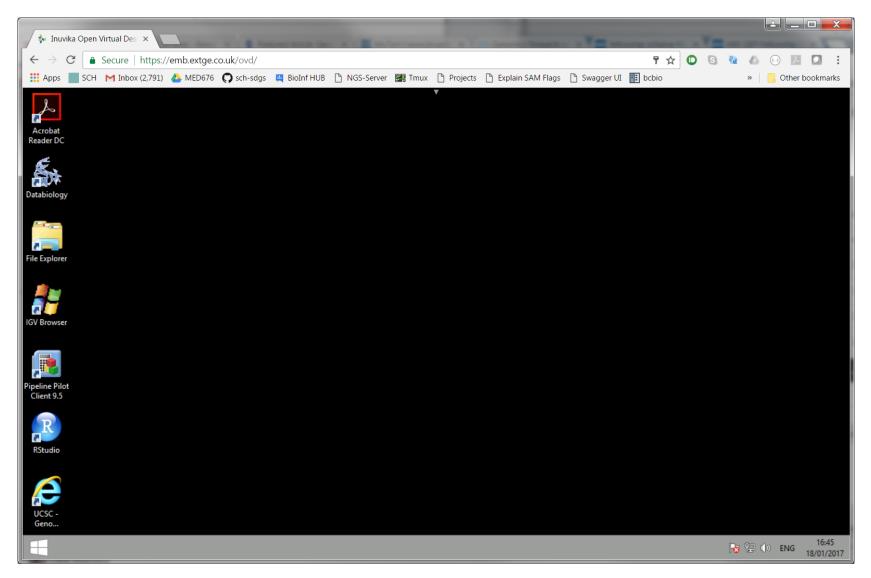


- Secure area to query GEL repository, store results etc
- Browser based virtual desktop interface
- Access controlled by GEL
- Not everyone has access to the embassy: we'll talk through how to get access and the structure of the data
- The education embassy is currently very limited not many tools or much data is available



## Virtual Desktop

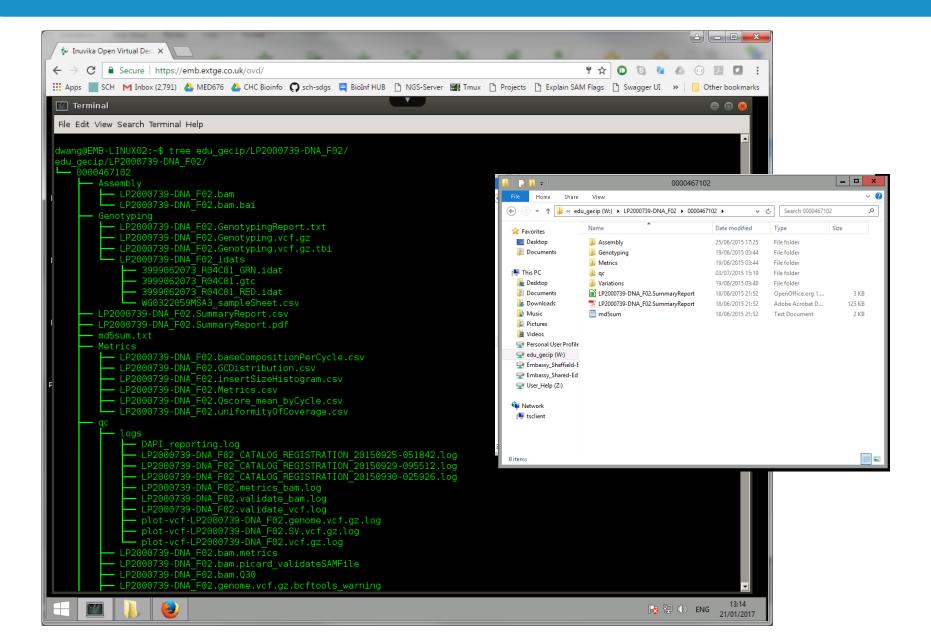




https://emb.extge.co.uk/ovd/

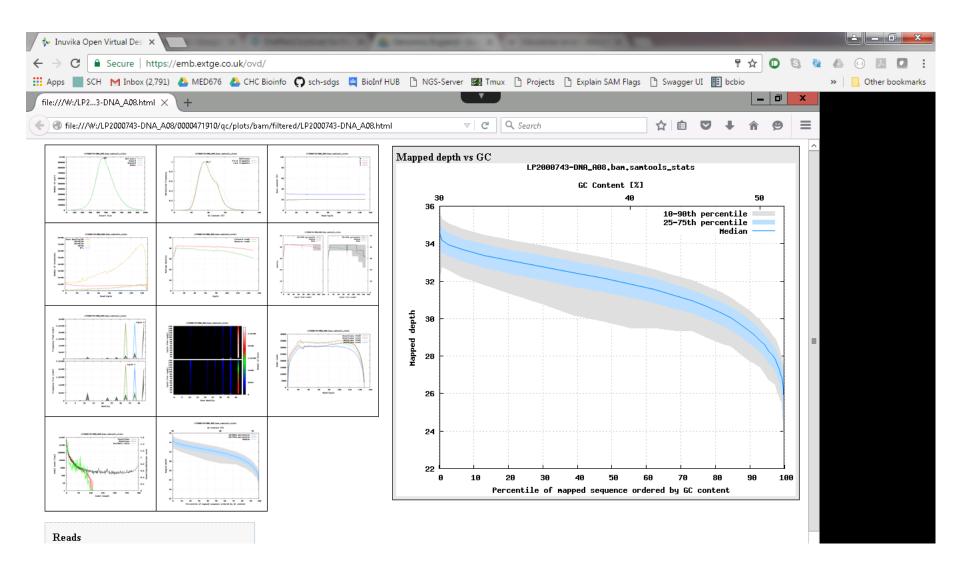
#### Structure of the Data







- Samtools tool for interrogating sequence files also includes ability to generate stats on these files
- W:\LP2000743-DNA\_A08\0000471910\qc\plts\bam\filtered\LPS 000743-DNA\_A08
- Low level qc of the sequencing run



# **IGV Viewing BAM & VCF**



