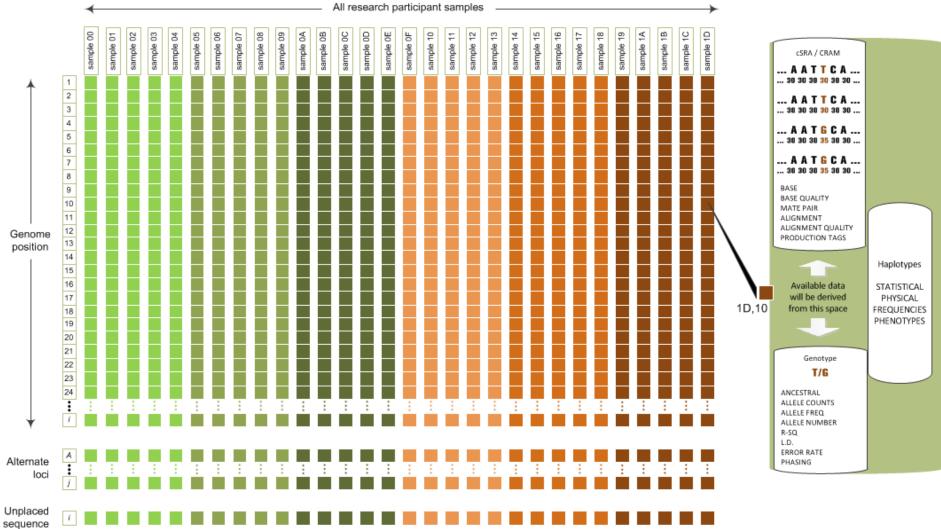
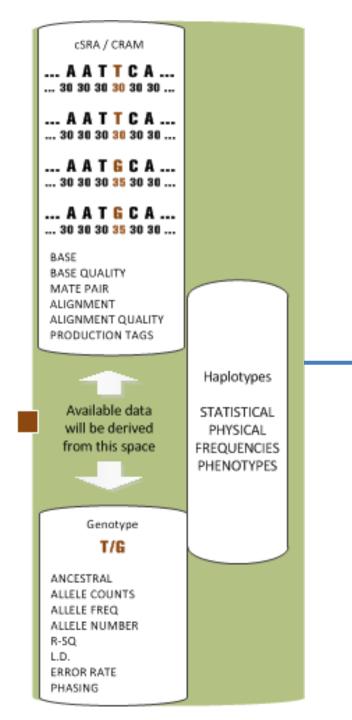
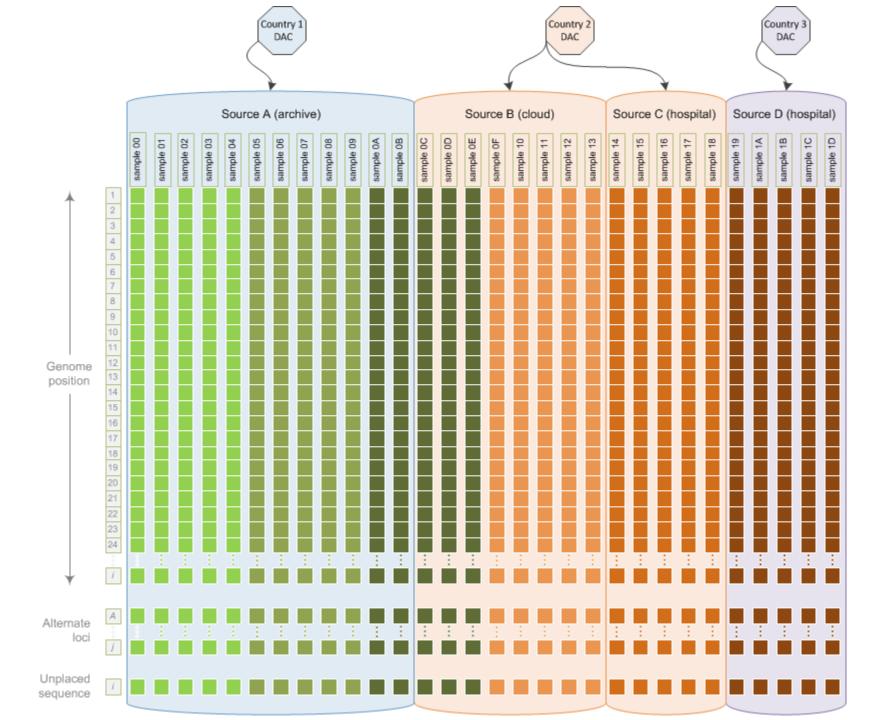
## Database, computing capacities and resources



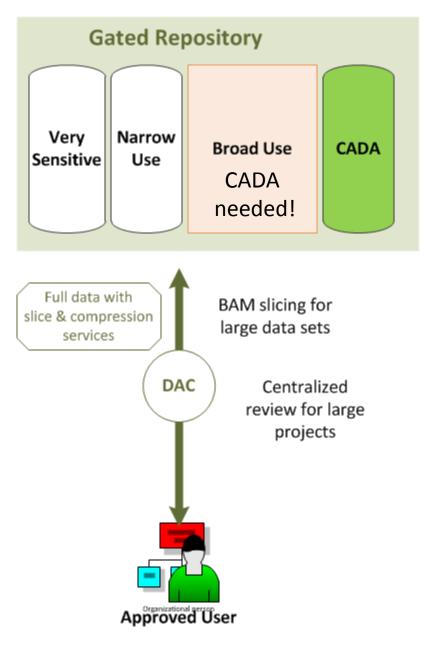


Publications Clinical Assertions Aggregate data



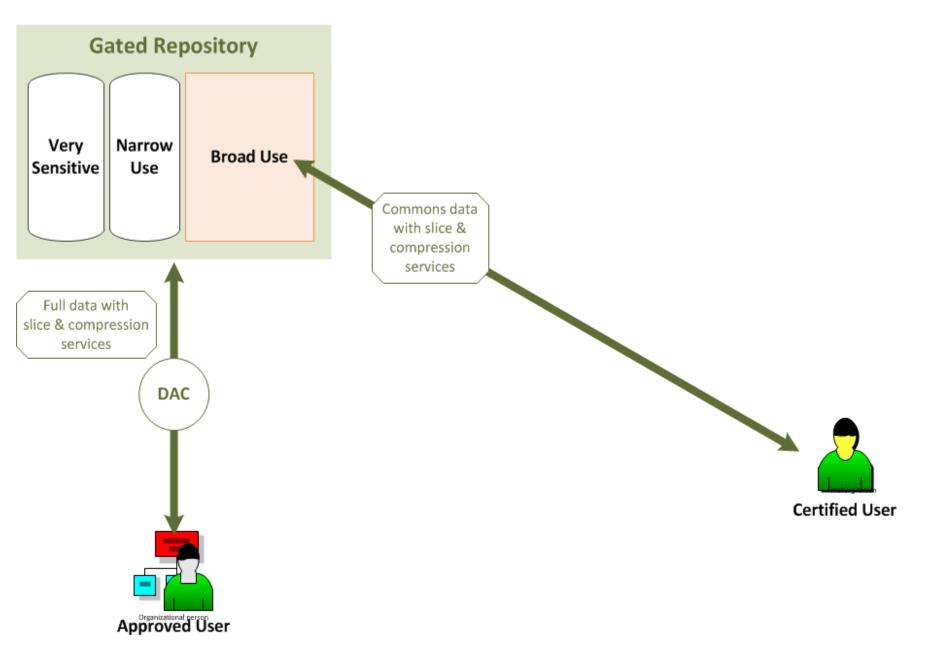
BAN BAN BAN BAN BAN Source A (archive) Source C (hospital) Source D (hospital) Source B (cloud) sample 03 sample 07 sample 09 sample 0D sample 11 sample 15 sample 16 sample 1A sample 1D sample 05 sample 06 sample 0F sample 0E sample 1C sample 00 sample 01 sample 08 sample 0A sample 0B sample 0C sample 12 sample 13 sample 17 sample 18 sample 19 sample 1B sample 02 sample 04 sample 10 sample 14 1 ▲ 2 3 4 5 6 7 8 9 12 Genome position 14 15 16 18 19 20 21 22 24 3 3 ÷ v A Alternate Ξ ÷ з. loci Unplaced sequence

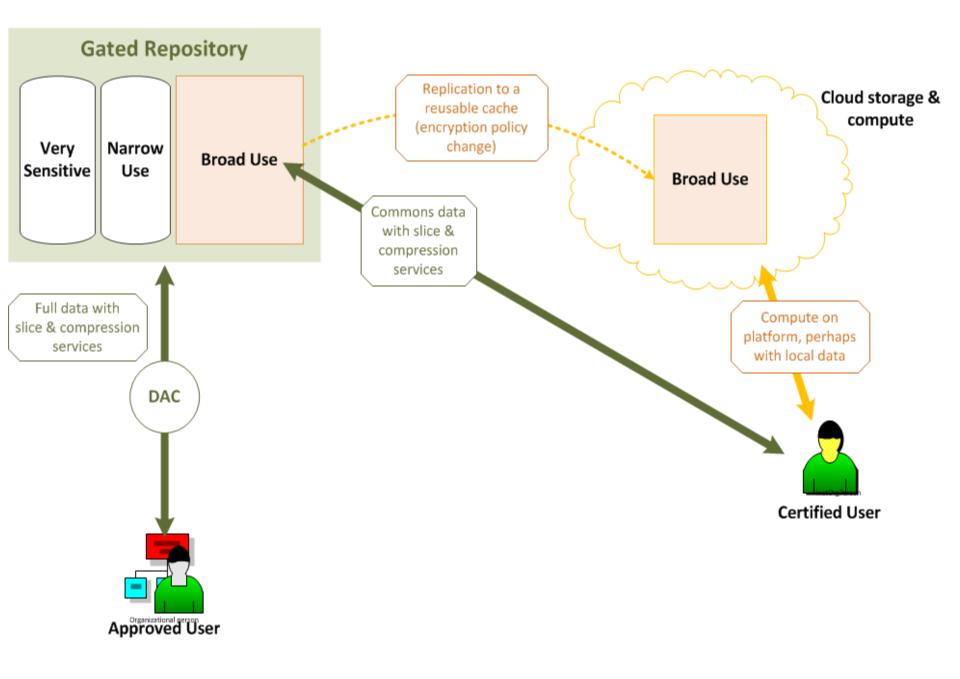
VCF

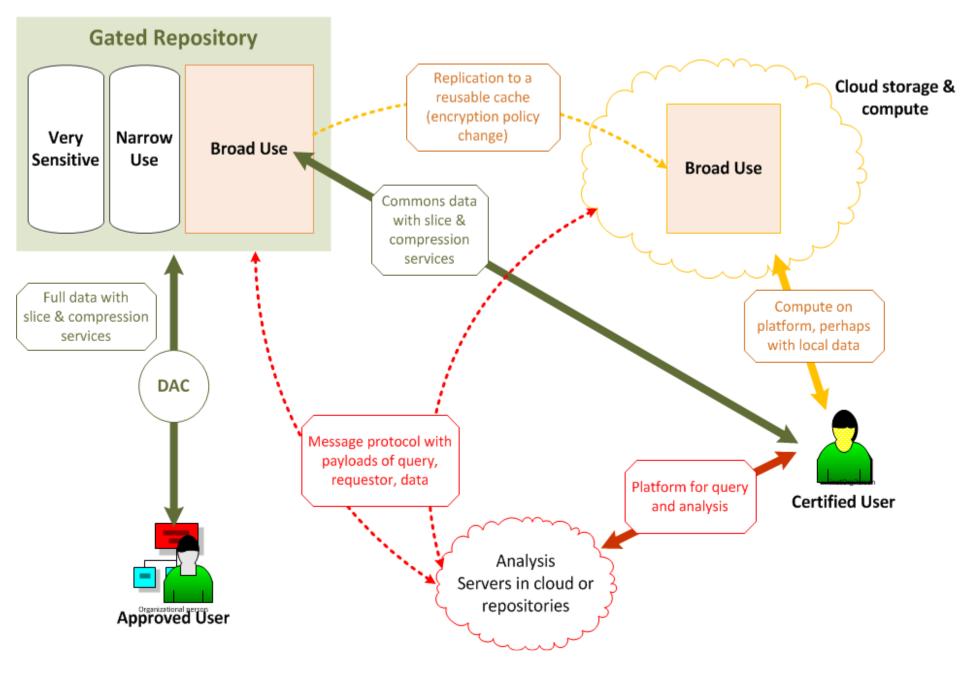


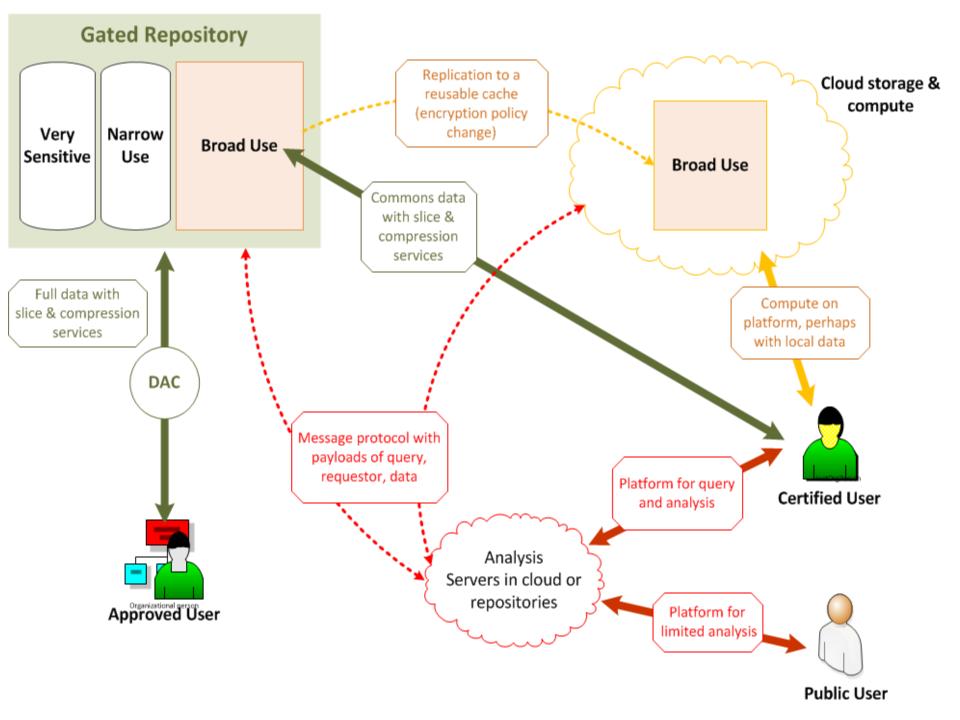
This can be done in July and ready for the fall if recomputes for Broad Use GRU sets are prepared!

Adding combined aggregate data analysis sets for expedited access









## Elements of a general platform

- Standards for security that permit many individuals to access a source copy.
- Data presentation standards: BAM, VCF, haplotypes, phenotypes, environment
- Message structures for global queries and results. Payload of user properties, question, data permissions
- International coordination for policy & requirements (needs a body)
- Special attention (recalculation) to Research Commons Broad Use studies (or parts of studies)?