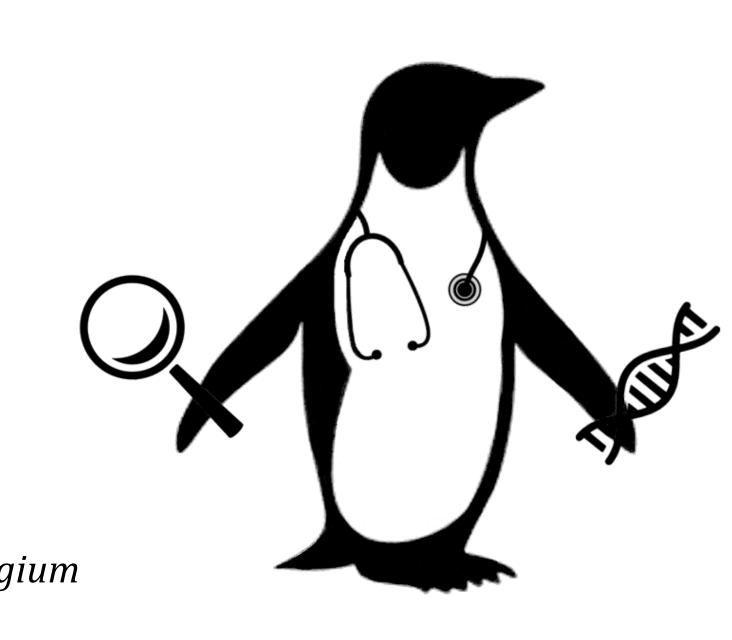
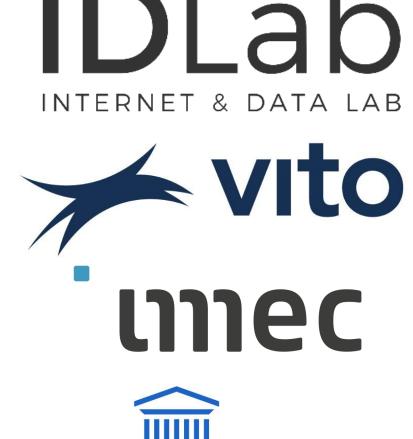
PENGQUIN:

PErsoNal Genome QUery IN Healthcare and Clinical Practice

Elias Crum^{1,2}

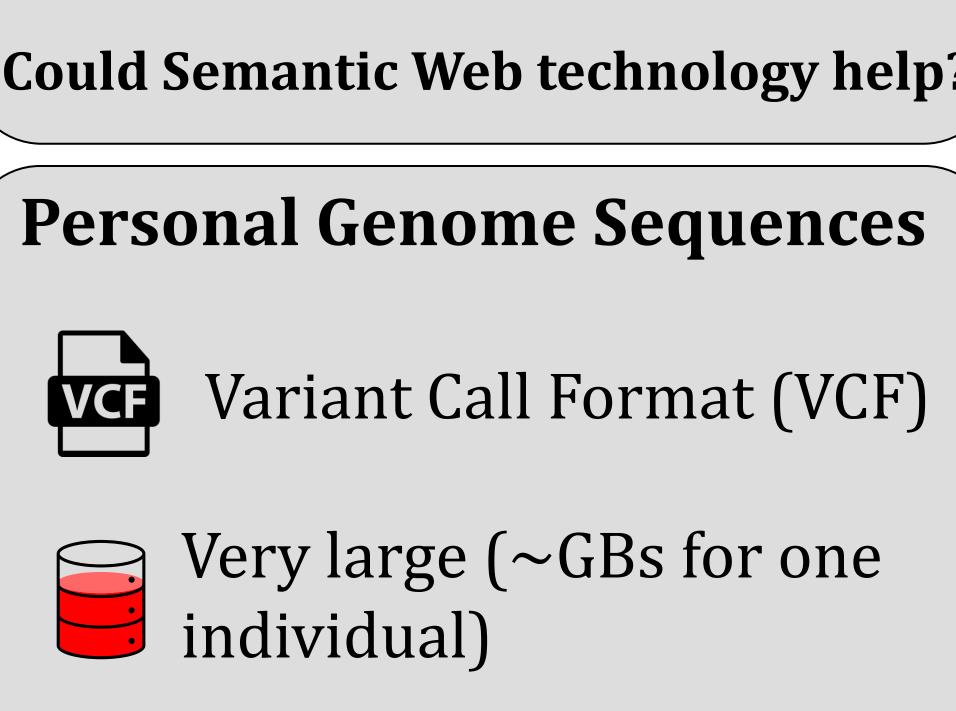
¹IDLab, Department of Electronics and Information Systems, Ghent University – imec, Belgium ²Flemish institute for Technological Research (VITO) Mol, Belgium

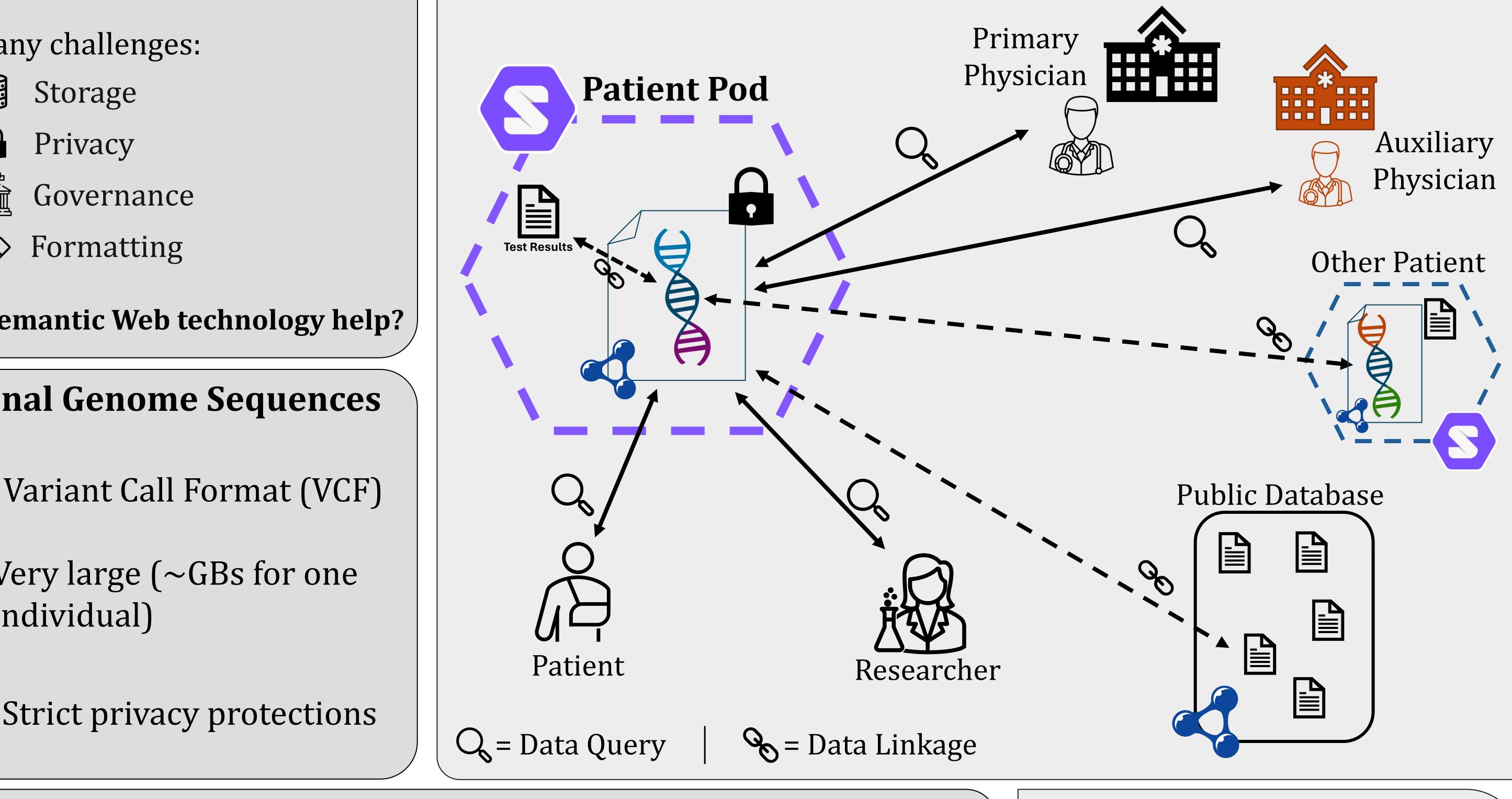




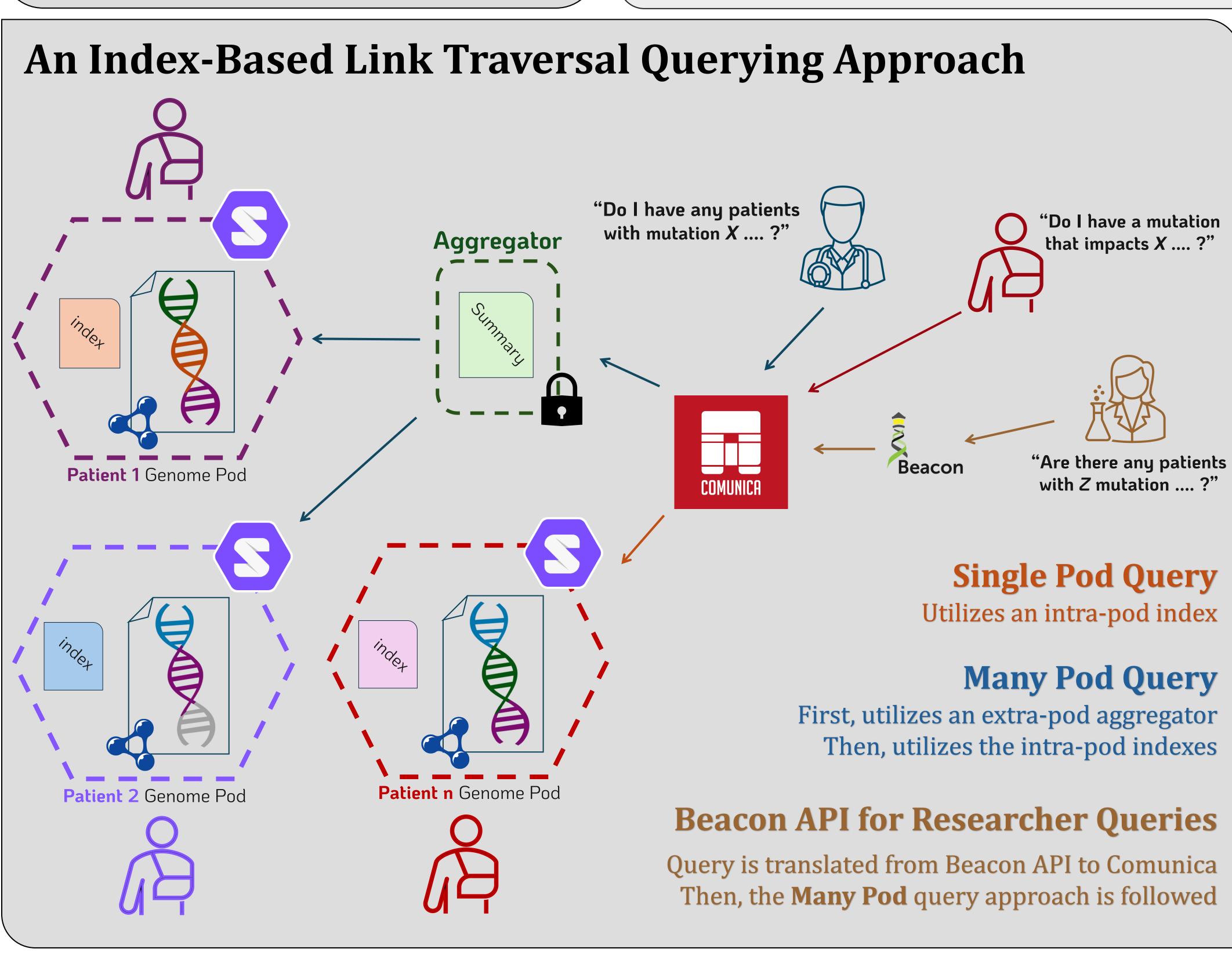


Genome Data for Clinical Care? Still Many challenges: Storage Privacy Governance Formatting Could Semantic Web technology help? Personal Genome Sequences





A Patient-Centric Storage Approach



Research Challenges



Index privacy concerns?

How granular is adequate?



VCF to RDF Conversion?

What data should be linked?

Automation of data linking?

Querying performance

Many, large data sources

Algorithms that use indexes?

Engineering Tasks



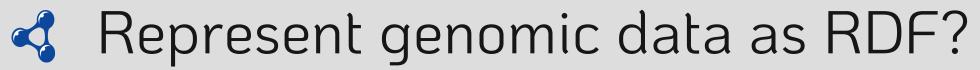
Genomic data storage in Solid pods

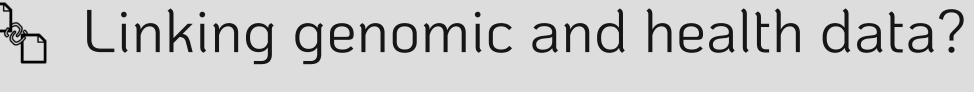


Data access via the web

Research Pursuits













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