G-DOC Plus Launched a year ago

The next-generation research platform for translational research and precision medicine

- More than 1500 users
- > 10000 samples: patient samples and cell line data

Data types in G-DOC Plus

clinical	mRNA (gene expression)	microRNA expression	copy number variation

Metabolite mass spectrometry data	whole genome sequencing (WGS) data	medical images

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Tools and workflows

Precision medicine

Explore medical images
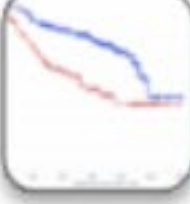
Explore somatic mutations

Translational research

Heat map viewer

Principal component analysis

KM plot using clinical data

KM plot using gene expression data

Group comparison

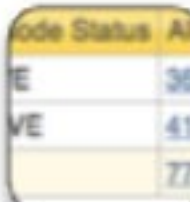Plot single gene expression

Chromosomal instability index analysis

Population Genetics

Explore 1000 genomes data

Other tools

Explore clinical data and create groups

Pathway Enrichment Using Reactome

Create Venn diagrams

Molecular target viewer

Genome browser
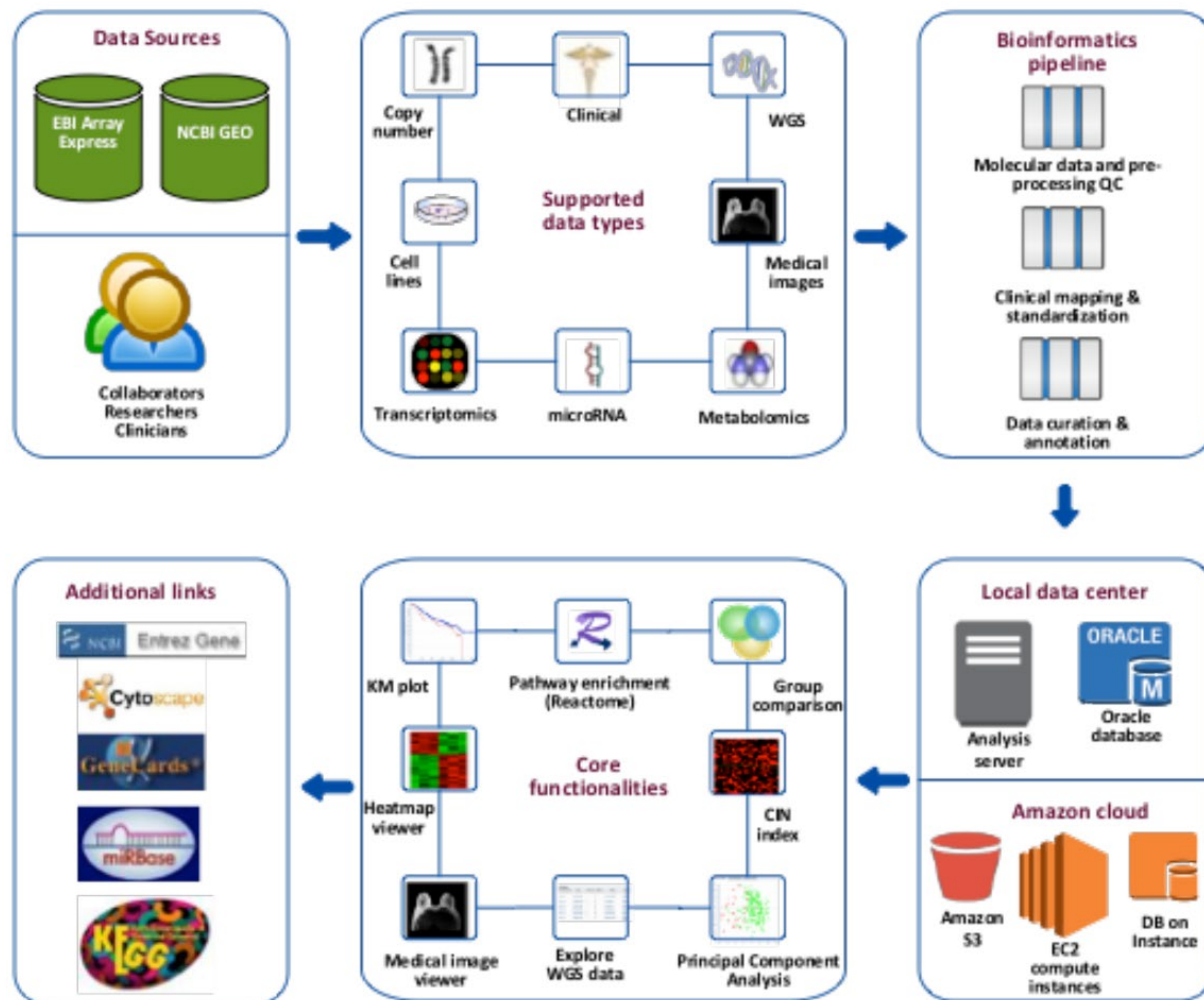
G-DOC Data Processing and Analysis workflow

Next Generation Sequencing
Big Data Analytics on the Cloud: powered by GDOC Plus
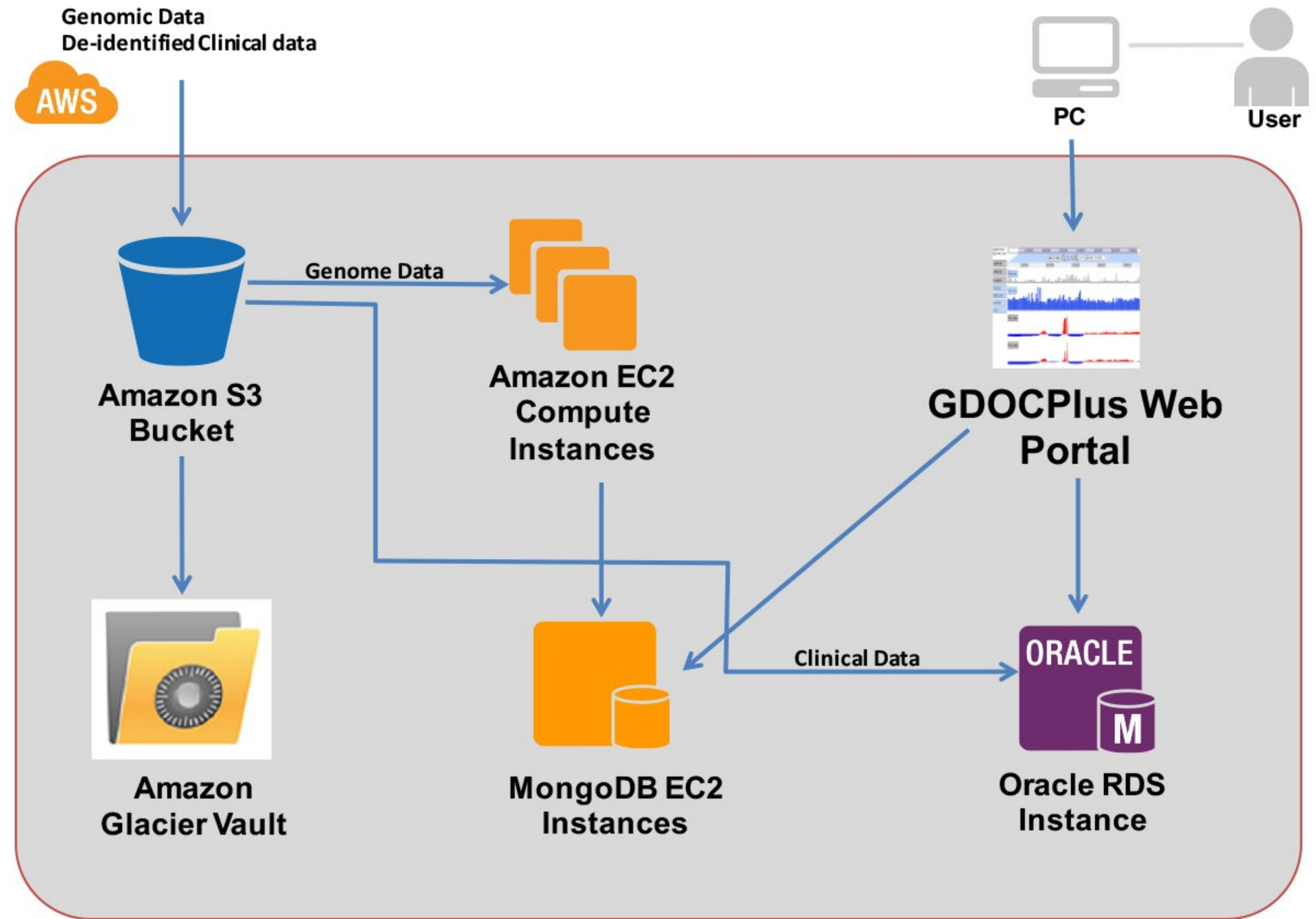
What's next for GDOC?

New disease studies to be added to GDOC: Immunology

New Data Types: RNAseq

Additional Workflows: Precision Medicine

IMPORTANT: tutorials are available in public folder
https://gdoc.georgetown.edu/tutorials

Next: Live demo session with G-DOC

Tutorials and webinar recordings are available in public Box folder: https://gdoc.georgetown.edu/tutorials

1. Register at login page: gdoc.georgetown.edu
2. Log In with your username and password
3. Look around – become familiar with the G-DOC interface