

SYLI in one slide: Next-Generation Cancer RDI Infrastructure

An initiative to unify research infrastructure integrating biobank-derived cancer samples, advanced analytics, and bioinformatics at the University of Eastern Finland.



Co-funded by
the European Union

The Foundation: Investment & Timeline

Investment Project

Total Budget: €625 240

ERDF Funding: €437 600

Development Project

Total Budget: €434 175

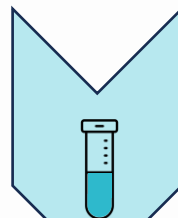
ERDF Funding: €347 340

2025: Infrastructure and kick-off

2026: Pilot Studies and Co-development

2027: Implementation & Ecosystem Growth

The Pipeline: From Sample to Insight



Step 1: Sample Management & Pre-processing

Covers biobank permits, tissue sample acquisition, liquid biopsies, and quality control (QC).



Step 2: Multimodal Analyses

Includes high-content imaging, single-cell sequencing (scRNA-seq), and spatial transcriptomics.

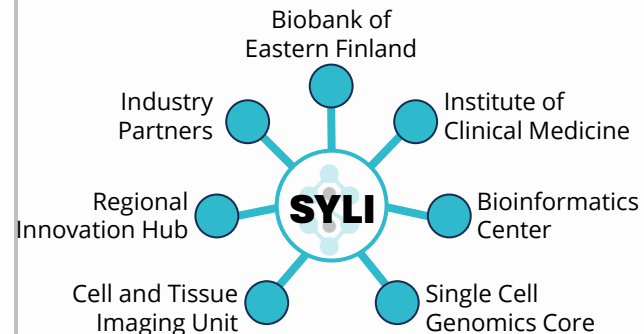


Step 3: Bioinformatics & Reporting

Provides primary data processing, visualization, and scientific reporting for data-driven decision-making.

The Stack & Collaborative Ecosystem

1	CTC Isolation	CellSearch, Parsotix, DEPArray
2	Molecular Profiling	Visium CytAssist, 10x Chromium, 10x Xenium
3	High-Content Imaging	OperaPhenix, Multiplex IF, Liquid Handling



Access & Users: Open to academic and industry partners. Co-develop pilot studies and service concept with a multi-disciplinary team of experts.



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