synthia

Synthetic Data Generation framework for integrated validation of use cases and AI healthcare applications

A unified platform for high-quality Synthetic Data:
Advancing Personalized Medicine for all stakeholders.

Key Offerings

- Access to tools and methods for **Synthetic Data Generation** (SDG), validated in a set of clinical use cases.
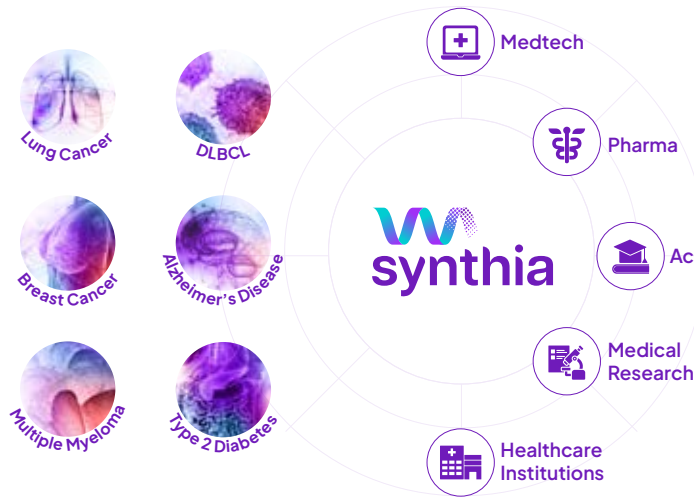- Access to **predefined, clinical-grade Synthetic Data (SD) collections** for a set of clinical use cases.
- For **various data types**, including laboratory results, clinical notes, genomics, imaging, and mobile health data.
- For **unimodal, multimodal and longitudinal** datasets.
- With a framework for SD evaluation, **ensuring privacy, quality and bias mitigation.**

Clinical Use Cases

- Lung Cancer
- DLBCL
- Breast Cancer
- Alzheimer's Disease
- Multiple Myeloma
- Type 2 Diabetes

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- Medtech
- Pharma
- Academia
- Medical Research
- Healthcare Institutions

Targeted Healthcare Stakeholders

Legal Experts	SDG developers
Socio-Economic Analysts	FAIR Data Experts
Regulatory	Clinical Researchers
Policy Advocacy	Developers of Therapies and Data-Based Tools
Communication Experts	

SYNTHIA

A multidisciplinary collaboration of

32 Consortium Partners

including

7 Med Tech and Pharmaceutical Industries

running from

September 2024 to **August 2029.**

Targeted SD Applications
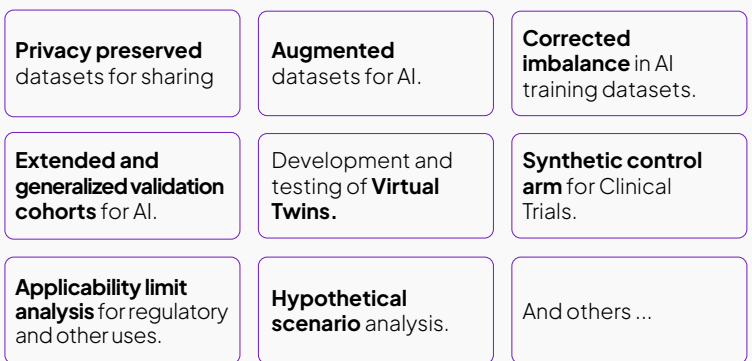
- **Privacy preserved** datasets for sharing
- **Augmented** datasets for AI.
- **Corrected imbalance** in AI training datasets.
- **Extended and generalized validation cohorts** for AI.
- Development and testing of **Virtual Twins.**
- **Synthetic control arm** for Clinical Trials.
- **Applicability limit analysis** for regulatory and other uses.
- **Hypothetical scenario** analysis.
- And others ...

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innovative health initiative

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