LONGENESIS

World's most advanced life data escrow

Sergey Jakimov, deputy CEO

U.S. and PCT Patent pending

LONGENESIS

"

Data does not do you any good until turned into information, and that is really our challenge

- Stanford, 2018

Longenesis is an ultimate merge of blockchain excellence of Bitfury and proprietary AI from Insilico medicine, delivering world's most advanced and secure platform for life data storage and longevity analytics
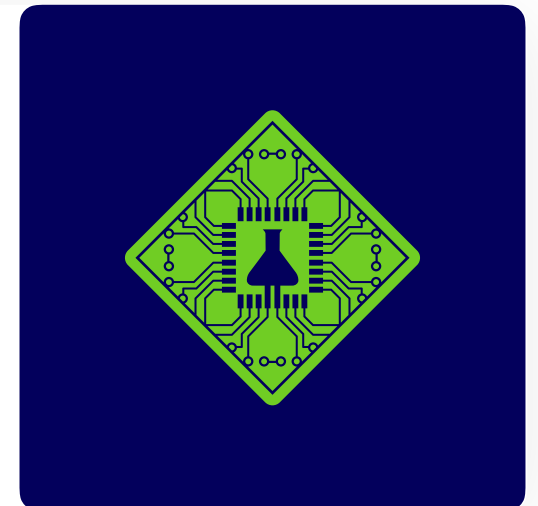
Our founders

Bitfury

The largest full-service blockchain technology company in the world. Bitfury provides its developed blockchain Exonum, the framework that is more flexible in implementing and upgrading functionality than permissionless blockchain networks (e.g., Ethereum).
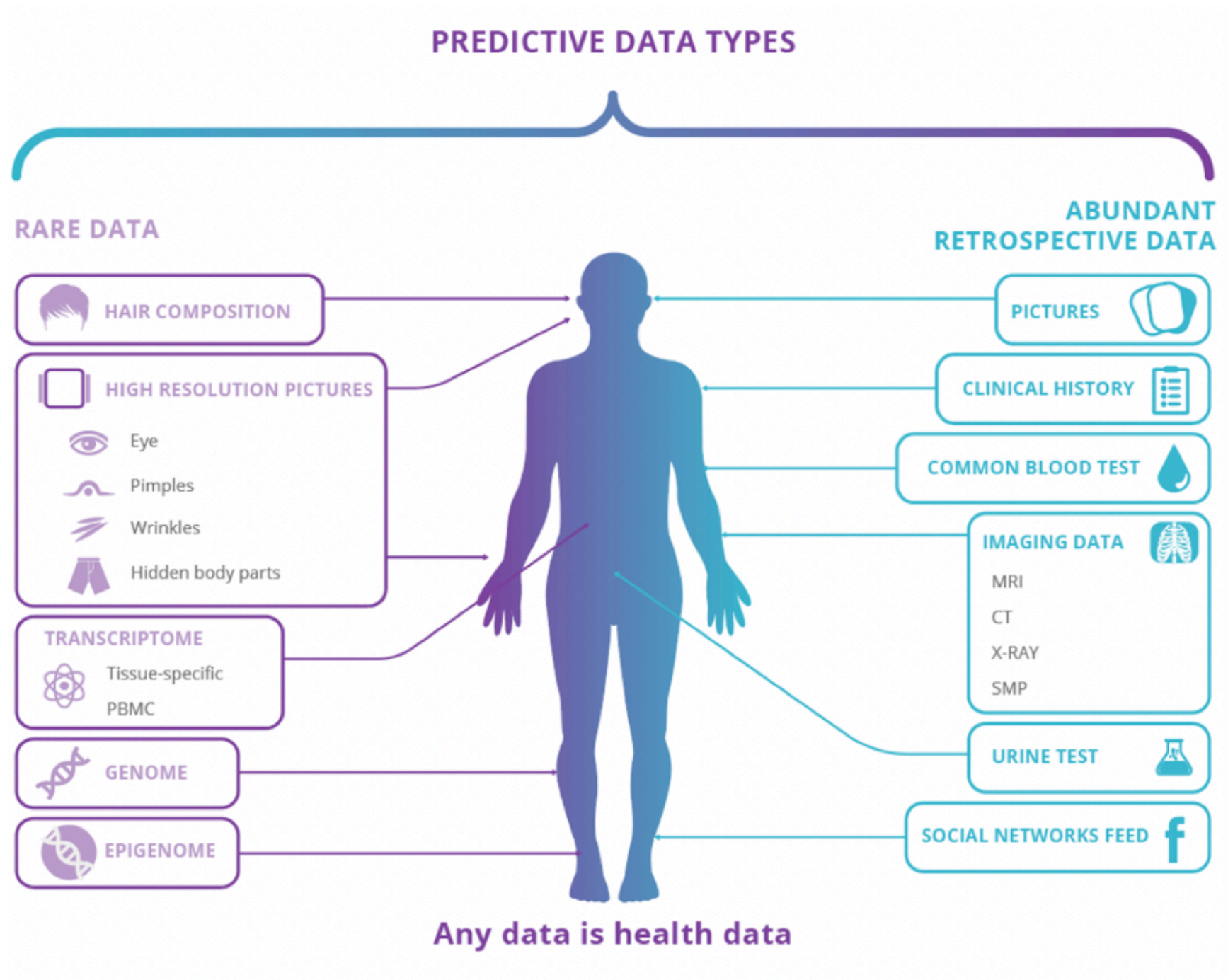
Insilico Medicine

A Baltimore-based next-generation AI company specializing in the application of deep learning for target identification, drug discovery and aging research.

Merging different data types in one time point unlocks extended insight in individual's health and longevity

PREDICTIVE DATA TYPES

RARE DATA

ABUNDANT RETROSPECTIVE DATA

HAIR COMPOSITION

HIGH RESOLUTION PICTURES
- Eye
- Pimples
- Wrinkles
- Hidden body parts

TRANSCRIPTOME
- Tissue-specific
- PBMC

GENOME

EPIGENOME

PICTURES

CLINICAL HISTORY

COMMON BLOOD TEST

IMAGING DATA
- MRI
- CT
- X-RAY
- SMP

URINE TEST

SOCIAL NETWORKS FEED

Any data is health data

Why is data a big deal

84%

OF PEOPLE ARE WILLING TO SHARE BASIC TEST DATA AND BLOOD PRESSURE

48%

OF PATIENTS ARE WILLING TO SHARE OR OTHERWISE MONETISE THEIR HEALTHCARE DATA

Why is data a big deal

760TB
OF DATA

Average hospital is generating yearly

2314 exabytes
OF HEALTH DATA

to be produced 2020

40% growth
IN MEDICAL IMAGE ARCHIVES

annually

300mUSD
GSK spends on 10% of 23andMe

80%
OF HEALTH DATA

Is unstructured in emails, images and scans

2bn USD
Personalised medicine market by 2022

Challenges in health data storage

Lack of Data

Misdiagnosis

Lack of preventive healthcare

Lack of application

Oversaturation with Data

What matters among the noise and generic data items?

Data Ownership & Transparency

You own your data

Trust in Data / Validation

Use of analytics

Smart life data escrow

Data users

Use live search to compile custom datasets based on unique search criteria. They access phenotypic and other anonymized data, having user consent, to accelerate research and drug development in a traceable way.
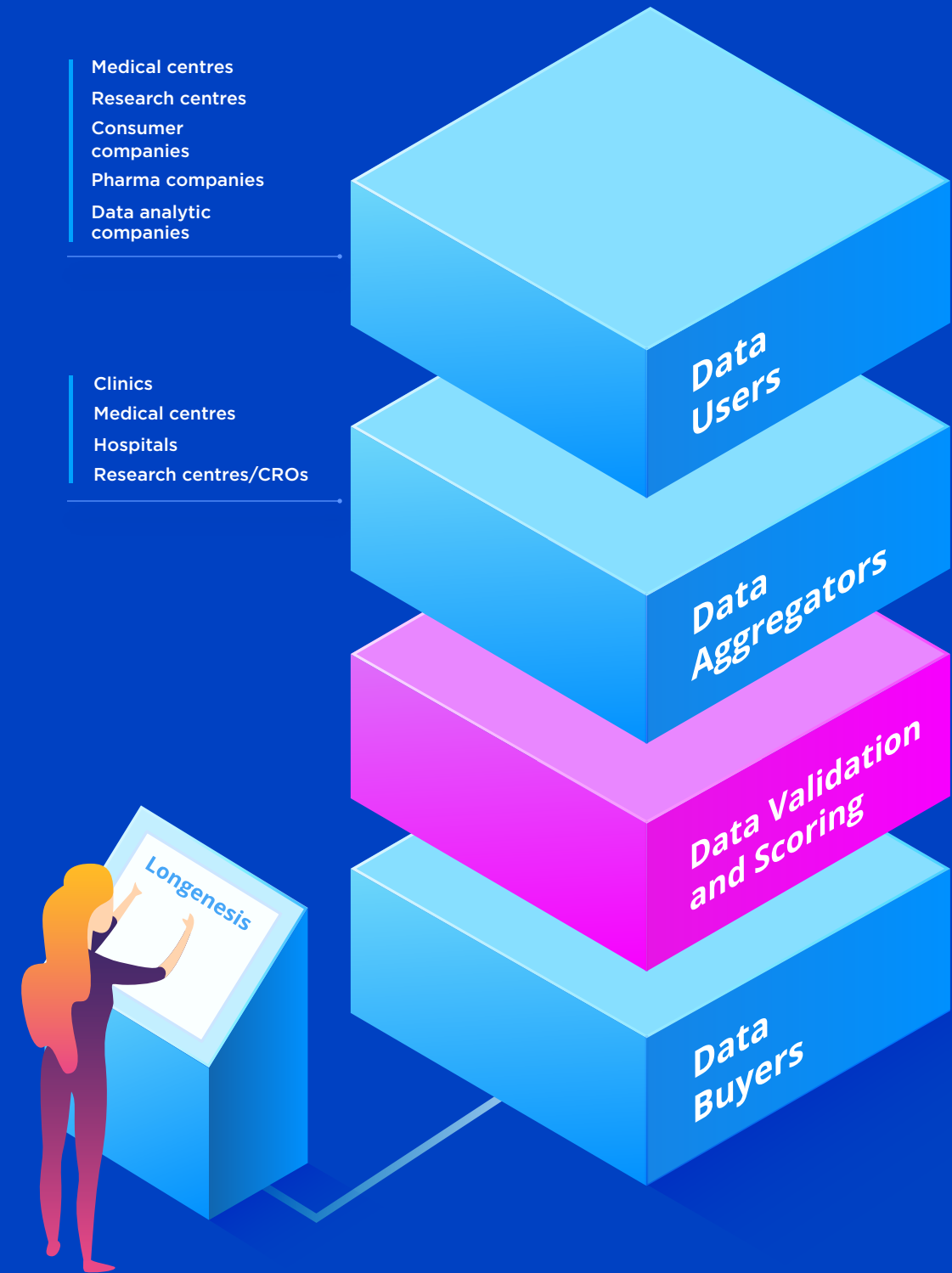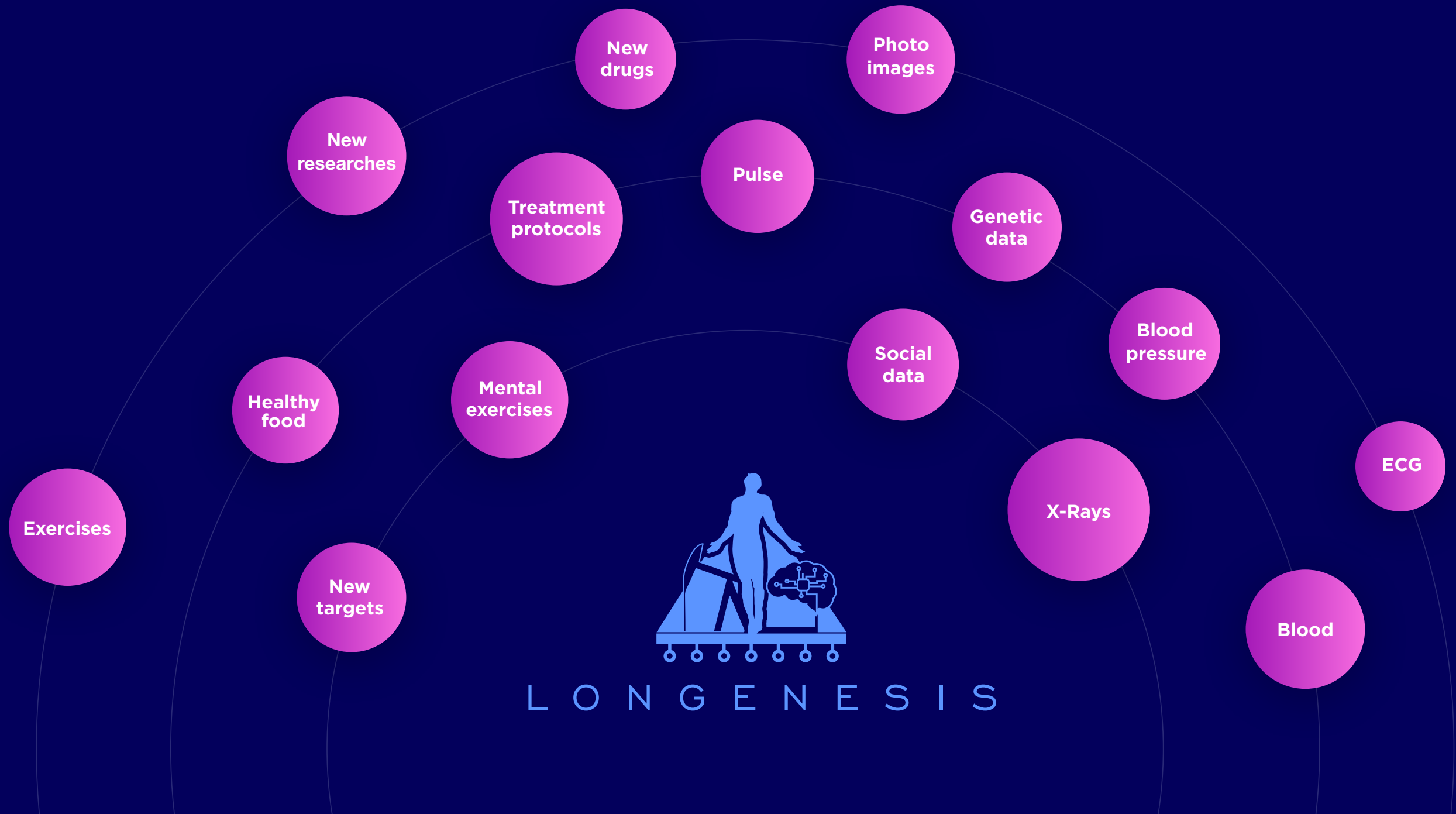
Ai-based data verifier

Proprietary and flexible system for data validation and scoring in order to classify and evaluate uploaded data for better future analytics.

Data aggregators

Institutions and individuals (healthcare organizations, doctors, etc.) use the platform for data storage and analytics.

Data owners

Individuals/Patients, who contribute or otherwise upload their data.

Medical centres
Research centres
Consumer companies
Pharma companies
Data analytic companies

Clinics
Medical centres
Hospitals
Research centres/CROs

Data Users

Data Aggregators

Data Validation and Scoring

Data Buyers

Longenesis

Longenesis - fit for any data type

New drugs

Photo images

New researches

Pulse

Treatment protocols

Genetic data

Social data

Blood pressure

Healthy food

Mental exercises

ECG

Exercises

X-Rays

New targets

Blood

LONGENESIS

System described — key metrics

Security and data privacy

Secured data storage, allowing convenient mechanisms for data encryption and storage, minimizing the risks of data leaks. Selected unique security features include data encryption algorithms, key splitting, and advanced deployment

Multiple data types in one ecosystem

Longenesis helps to organize various data types from a patient/group of patient, allowing to query data by a variety of phenotypic types and forming a "data lake" for future analytics and aggregation

Data analytics

The ability to analyze collected data types and correlate them in order to "view the bigger picture", providing in-depth health analytics for certain patient/cohort of patients

Full data access control

Ability to manage the access controls to certain data, limiting 3rd party usage of certain data items

Data validation

Automatized system for data validation and scoring in order to classify and evaluate uploaded data for better future analytics, as well as drive out generically generated/artificial data items

Data traceability

Gives the users an opportunity to see who and when accessed their data, as well as purpose it was used for

U.S. and PCT patent pending

Media
featured in:

WIRED

nature **medicine**

REUTERS

Pub **Med**

COINTELEGRAPH
The future of money

N **NEBULA** GENOMICS

Ongoing Deployments

September 2018 — **Longenesis established a partnership with Nebula Genomics** — a company that wants to sequence your genome and let you share it on a blockchain, while retaining your rights to control its usage (co-founded by prof. George Church).

Contacts

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