Reinventing diagnostics from the ground up:

One system. Three integrated innovations.

Born in Singapore
A spin-out of the Singapore-MIT Alliance for Research and Technology, co-founded by NTU Singapore and MIT scientists.



affinex

Bioengineered binders that replace antibodies

AI-ACCELERATED BY affinaut

10× higher sensitivity than antibodies

90 °C stable for 5 hours, no cold chain

>10× lower production cost



Multi-domain multiplex assay

One drop of blood. Up to six answers.

40 µL fingerprick, unprocessed whole blood

6 assays plus on-board controls

15 min sample to result



Point-of-care reader

Lab-quality results in the palm of a hand

Handheld battery powered, no lab needed

1 read every panel, no training

<$300 target unit cost at volume

Studies and data: three programmes already under way.

Malaria

Three species. Outperformed the FDA-approved rapid test.

AFRIMS Research Excellence · WRAIR

Ebola

All four human-infecting species, tested at BSL-4.

utmb Health

VIBEX

Bacterial or viral pneumonia, the lead commercial panel.

WRAIR · USU Uniformed Services University · National Centre for Infectious Diseases · NDSU North Dakota State University

thrixen®

thrixen.com

Our Fargo connection:

Our launchpad into the U.S.

Building in Fargo
A U.S. validation and manufacturing base for VIBEX, our bacterial-or-viral pneumonia panel.



VALIDATE · LIVE

NDSU core-lab partnership

Analytical validation of VIBEX on clinical samples

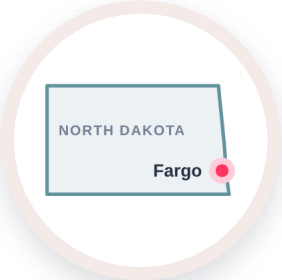
NDSU NORTH DAKOTA STATE UNIVERSITY



MAKE · PLANNED

American-made manufacturing

Our intention: cassettes, Affinex® binders and the reader made in the U.S.



CONNECT · IN PROGRESS

A strong local ecosystem

Research, health-system and industry partners on our doorstep

VIBEX path to market:

DoD-parthership study
Under way with WRAIR, USU and NDSU

Analytical validation
CLSI-standard studies

Clinical study
NDSU and clinical partners

FDA 510(k) submission
U.S.-made, ready for federal procurement