

MORE THAN 50% OF PRE-CLINICAL STUDIES CANNOT BE REPRODUCED

50%

OF PUBLISHED STUDIES CANNOT BE REPRODUCED

COSTING THE PRE-CLINICAL INDUSTRY \$28.8BN ANNUALLY.

PLOS Biology, The Economics of Reproducibility in Preclinical Research

EFFECTS OF ANTI-CANCER DRUGS CAN BE EASILY MISSED

[WITH CALIPERS] AS TUMORS WILL TEND TOWARDS BEING DETERMINED WITH A GREATER BIAS AS THEY GROW LARGER.

Ishimori et al. Acad Radiol2005; 12:776-781



CREATING A COMMERCIAL CHALLENGE



5 IN 5,000

DRUGS THAT BEGIN PRE-CLINICAL TESTING MAKE IT TO HUMAN TESTING

1 IN 5

WILL NEVER BE APPROVED FOR HUMAN USE

Hollingshead. JNCI. Vol. 100, Issue 21, November 5, 2008

IT IS NOW COSTING COMPANIES

US\$2.5BILLION

TO BRING A DRUG TO MARKET VS

US\$1.25BILLION (HALF)

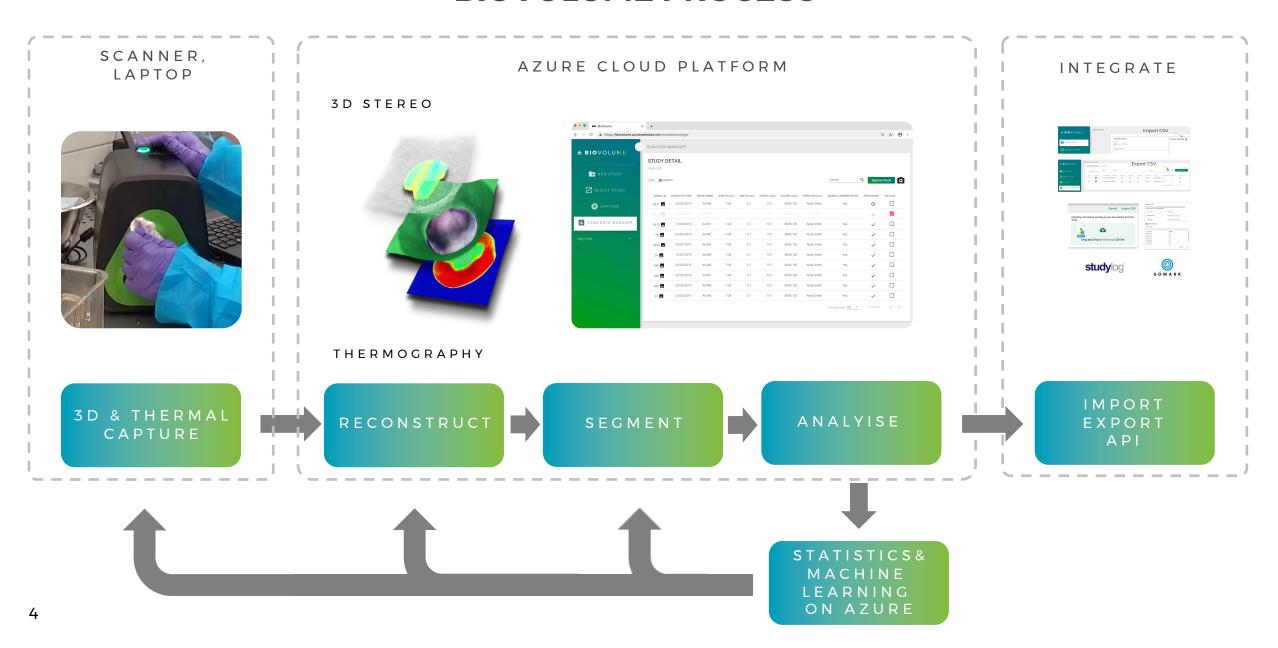
OF THIS 10 YEARS AGO

2010 2018

Scientific American - Cost to Develop New Pharmaceutical Drug Now Exceeds \$2.5B. - Rick Mullin.



BIOVOLUME PROCESS



GREATER TRACEABILITY - THROUGH A CLOUD PLATFORM

- + THERMAL CAPTURE
- + MULTI-TENANTED CLOUD PROCESSING
- + BIG DATA SET
- + BROWSER ENABLED
- + CONSOLIDATED STUDY DATA & ANALYTICS DASHBOARD



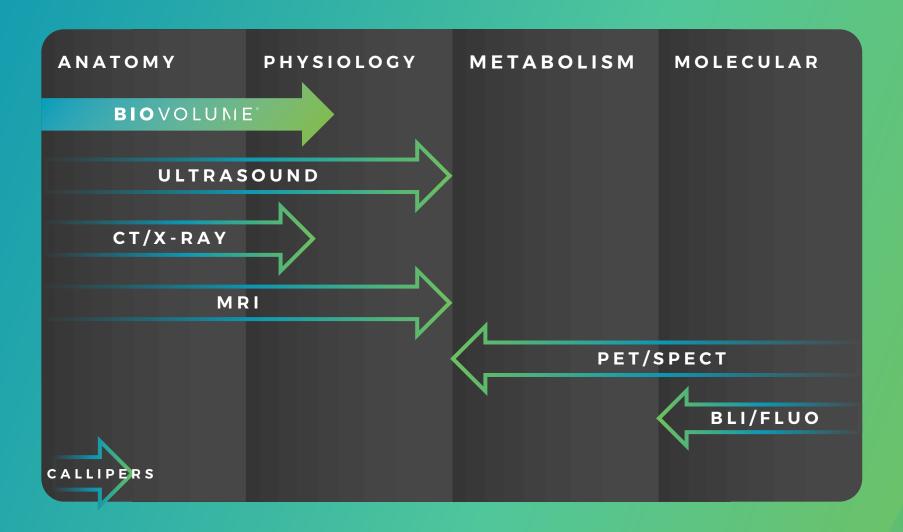
Additional Thermal
Capture to aid accuracy
and precision

FUELS D

Browser-enabled

Multi-tenant cloud

MUCH MORE THAN CALLIPERS







GLOBAL DATASET NOW IN EXCESS OF 10,000 SCANS

31ST May

Total scans: 6,532

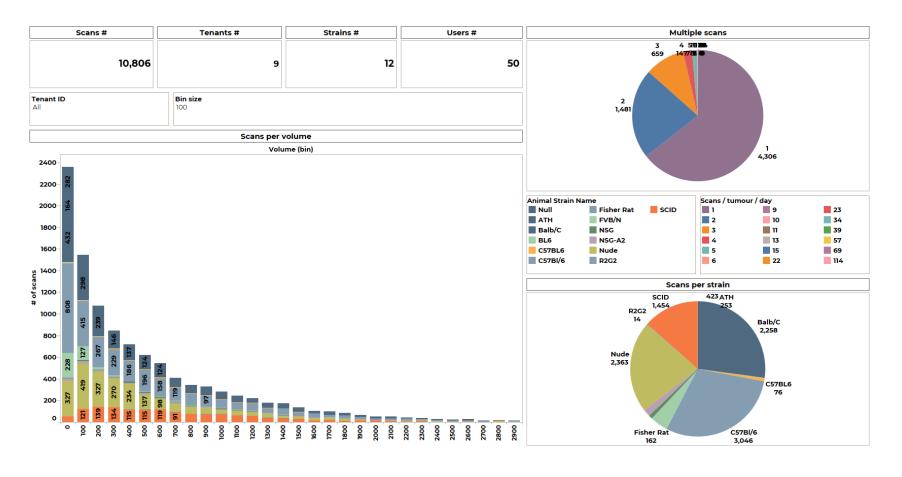
8TH August

Total scans: 8,561

13th September

Total scans:

10,806





IMPROVING THE SCIENCE THROUGH DIGITISATION AND DATA

BASED ON CURRENT FORECASTS WE WILL HAVE



IN OPERATION MID-2020

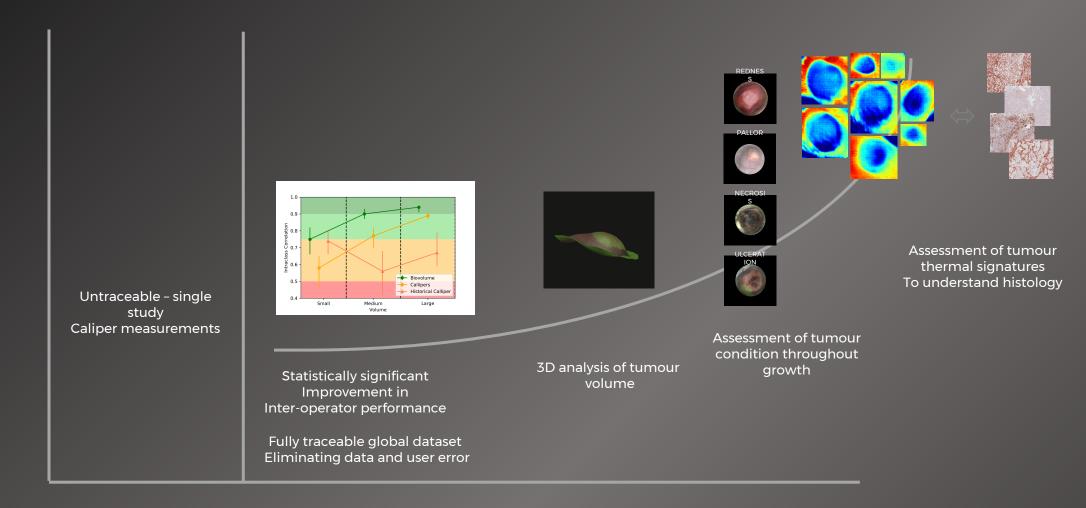
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TOTAL DATA
COLLECTED

960,000



TRANSFORMING THE SCIENCE



A fully traceable cloud connect platform is designed to transform the way drug efficacy is monitored and understood

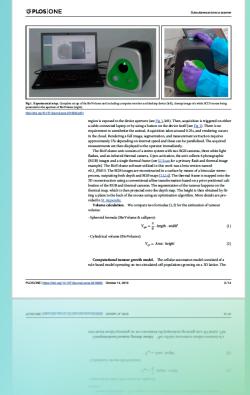
CONTINUOUS LEARNING ARTIFICIAL INTELLIGENCE EFFORT

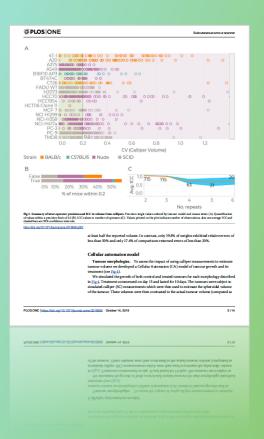
SOFT LABELLING IMAGE SEMANTICS N ш SCAN QUALITY ANIMAL WELFARE SCIENTIFIC OUTPUT TUMOUR REGION DIGITAL SHAVING < TUMOUR MORPHOLOGY THERMAL POSITIONING CONDITION SIGNATURE S ш S EMT PHENOTYPE VASCULAR TRAINING MARKERS

BIO VOLUME[®]

PUBLISHED PLOS 1 - OCT 2019 - An innovative non-invasive technique for subcutaneous tumour measurements







https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0216690&type=printable



MORE DATA, BETTER SCIENCE: A GREATER ADVANTAGE



REPRODUCIBLE RESULTS



GREATER SCIENTIFIC CONFIDENCE



BETTER TRACEABILITY

INTRODUCING NEW BIOMARKERS:









