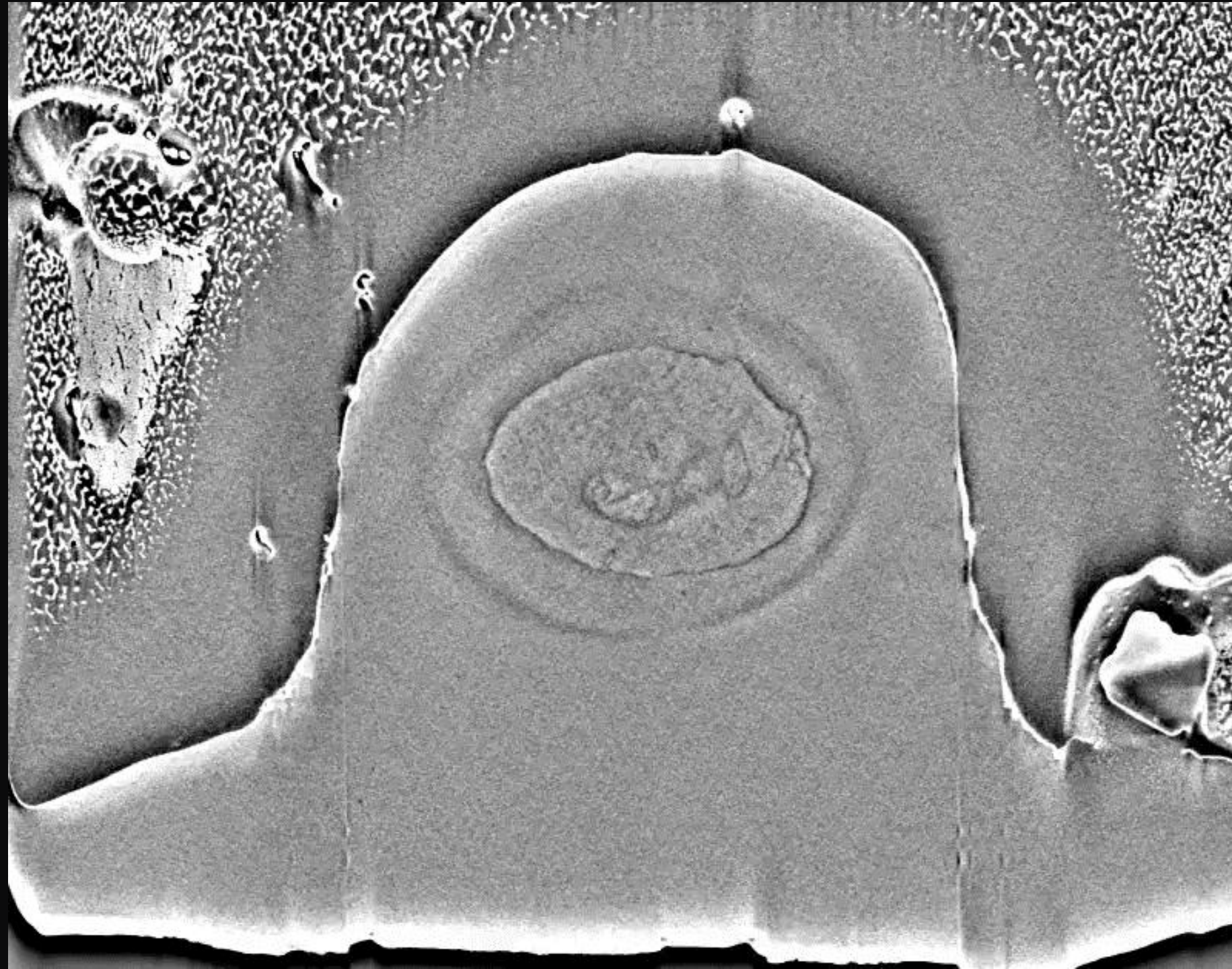
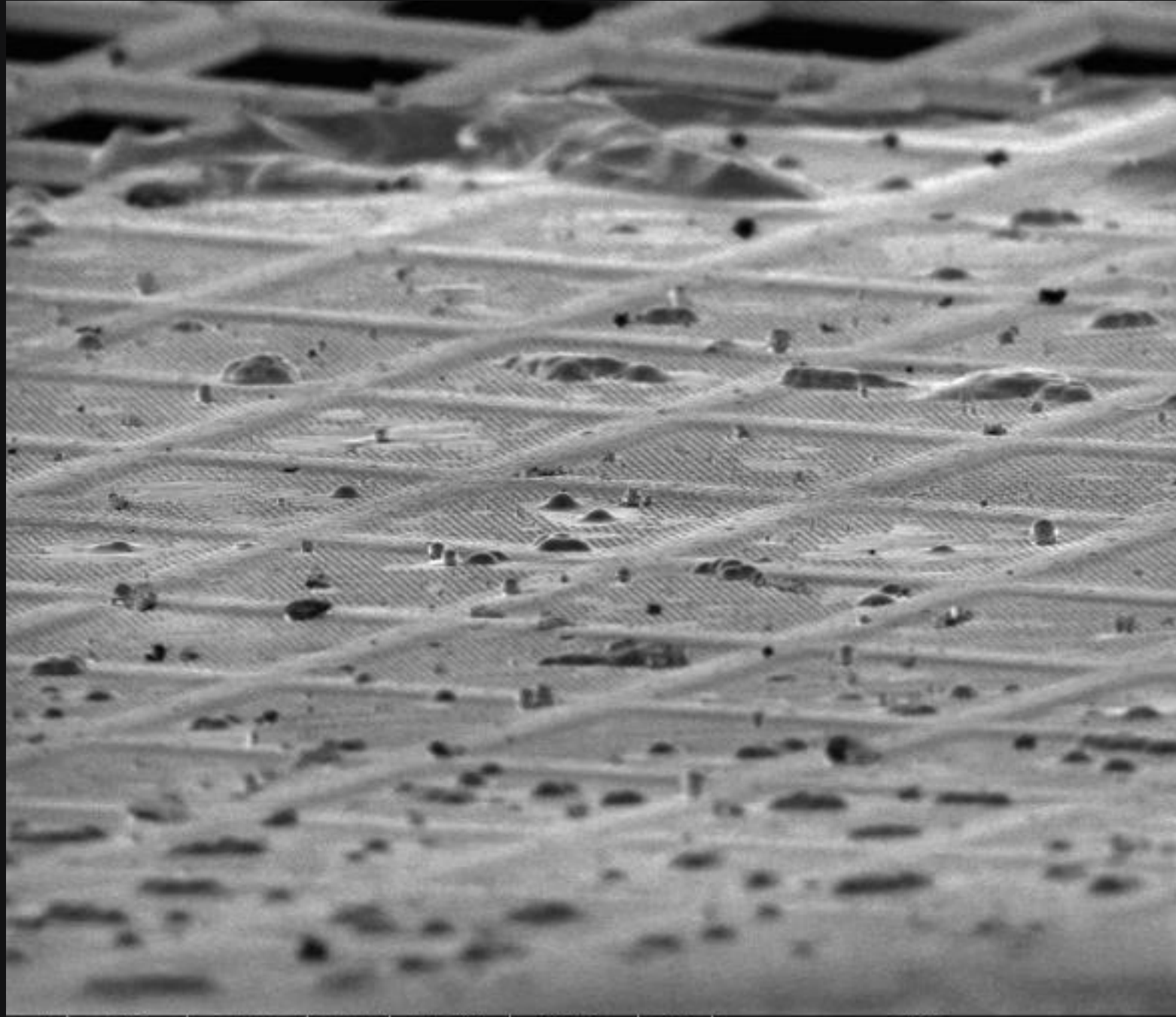








HV
30.0 kV

curr
10.3 pA

dwell
1 μ s

HFW
379 μ m

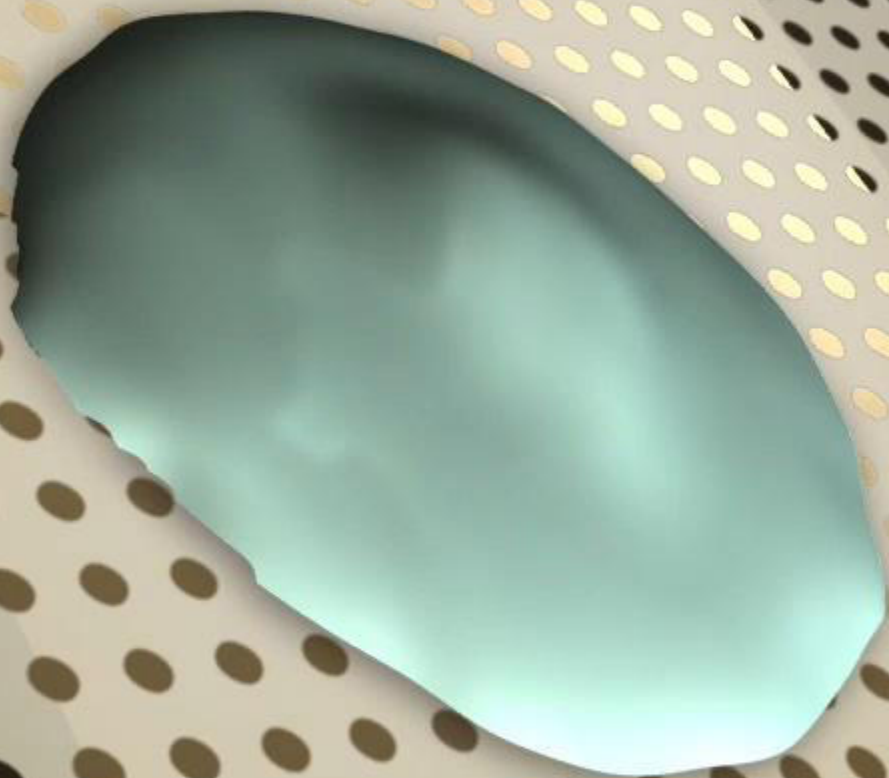
WD
19.1 mm

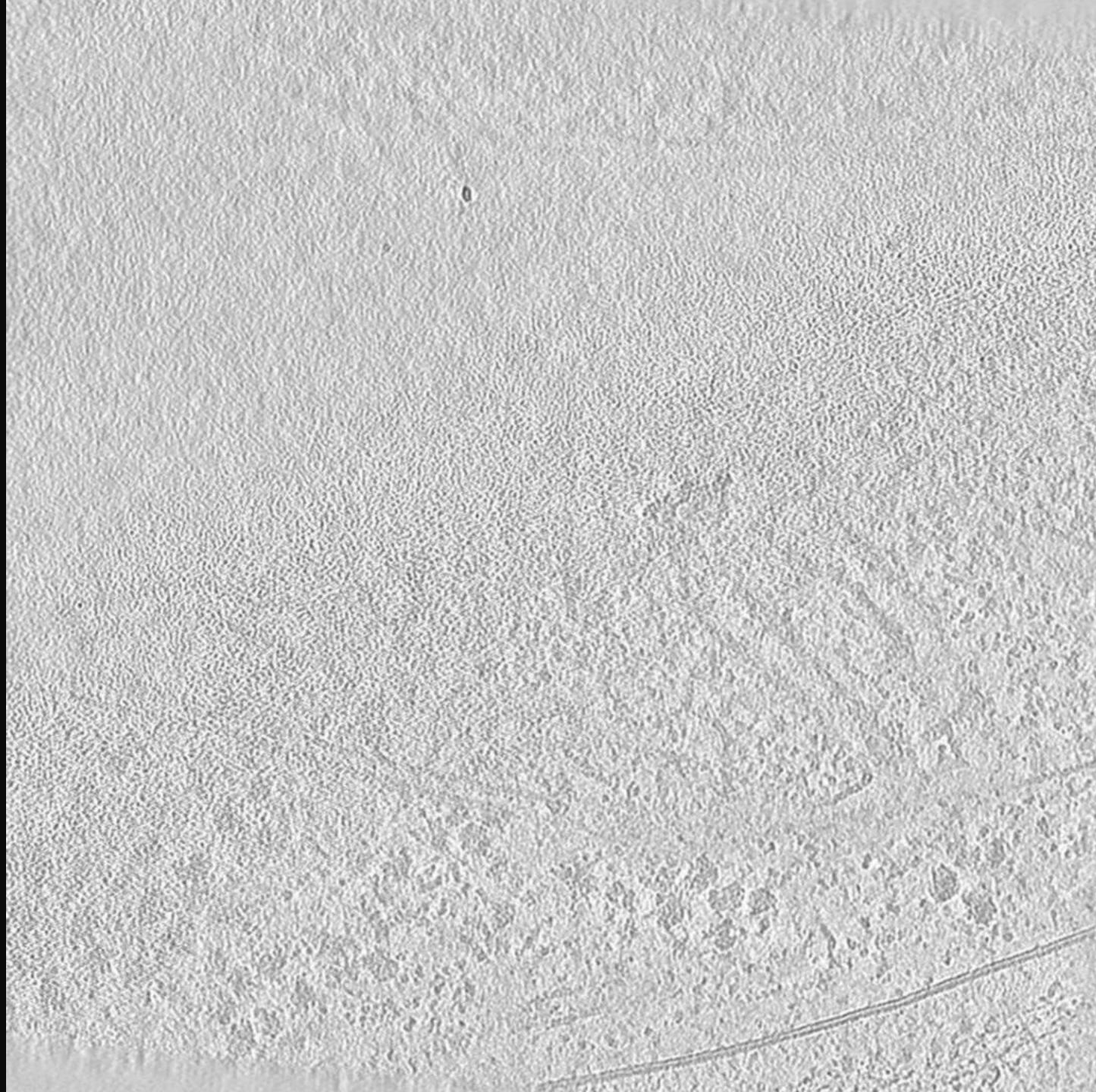
tilt
17 °

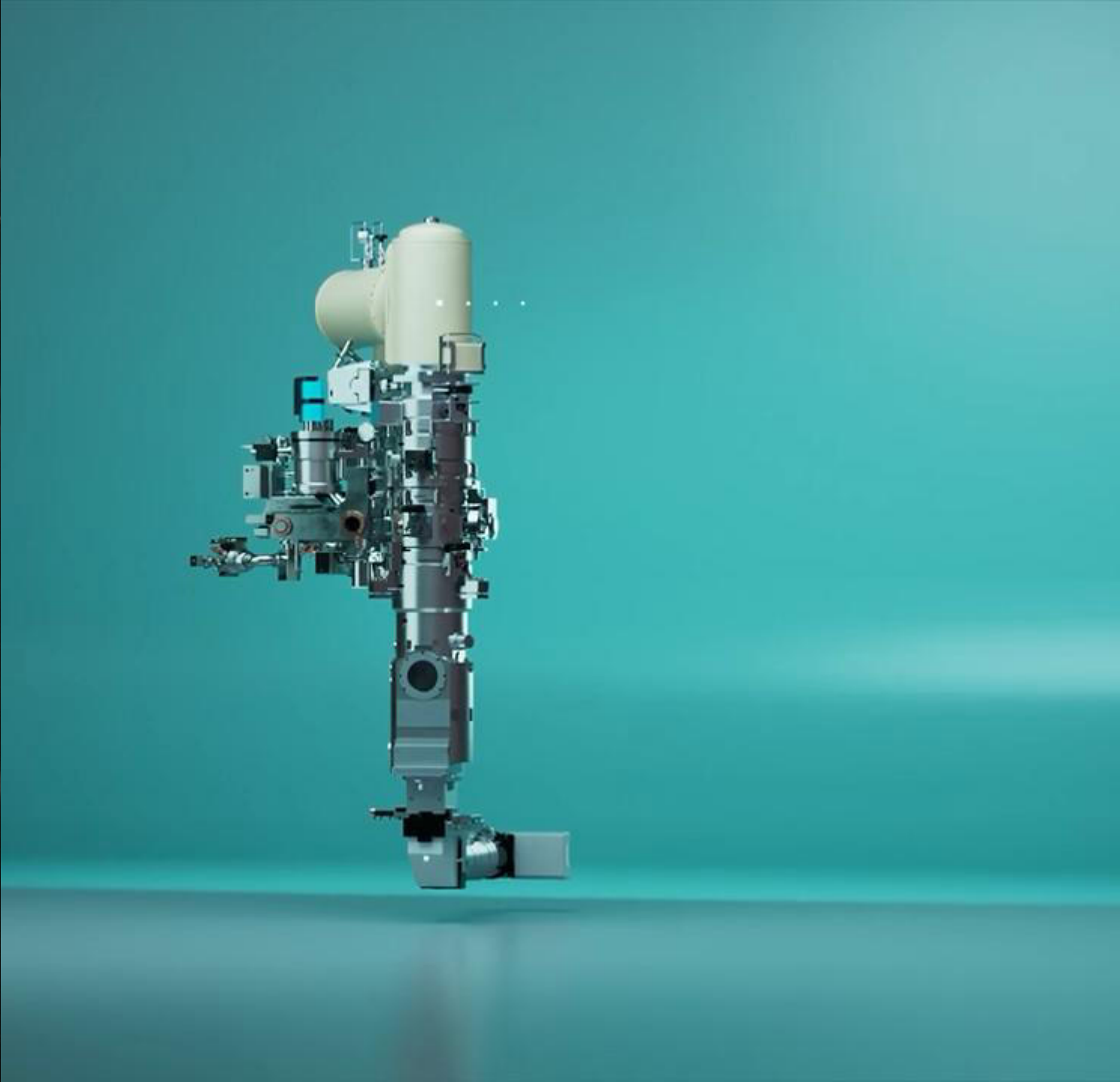
100 μ m
MPI für Biochemie

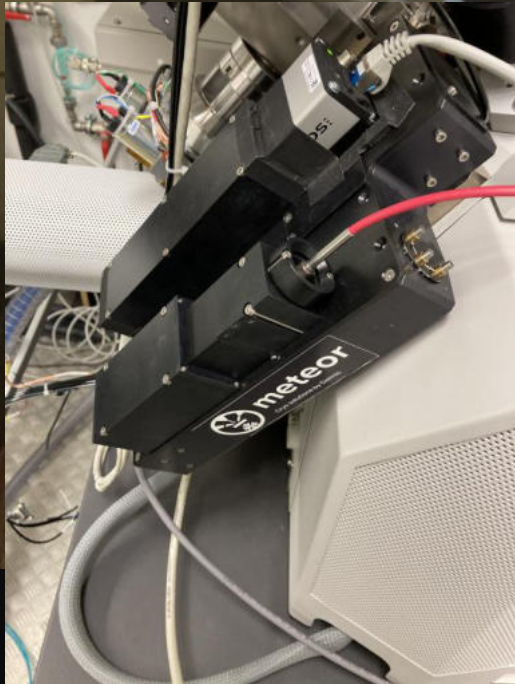


Frozen Hydrated Cell









~100

people can do this end to end

<10

labs in the world can do it reliably

**ADVANCED MICROSCOPY IS A
CRAFT.**

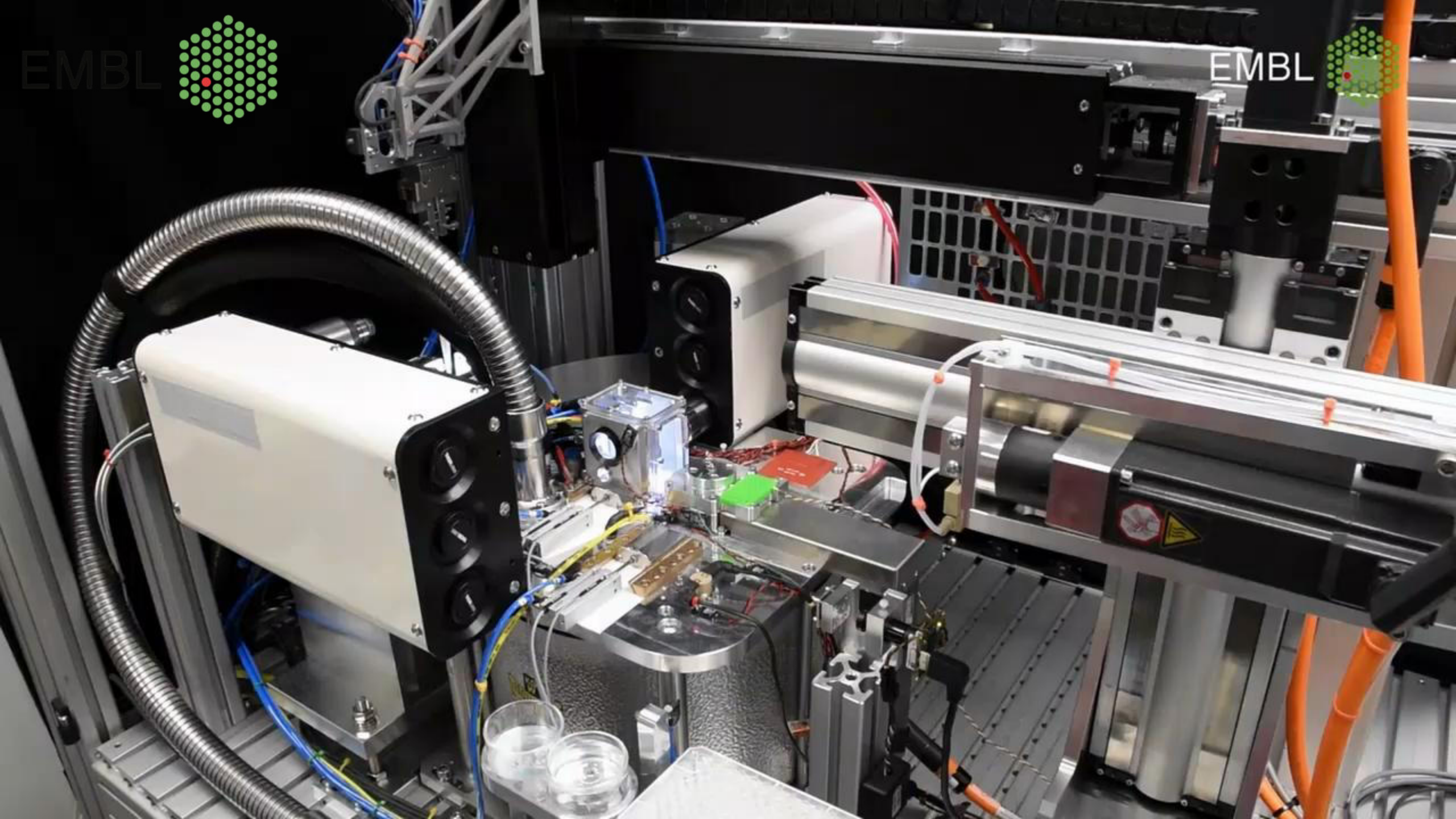
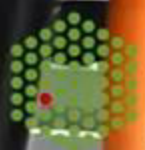
CRAFTS DO NOT SCALE.

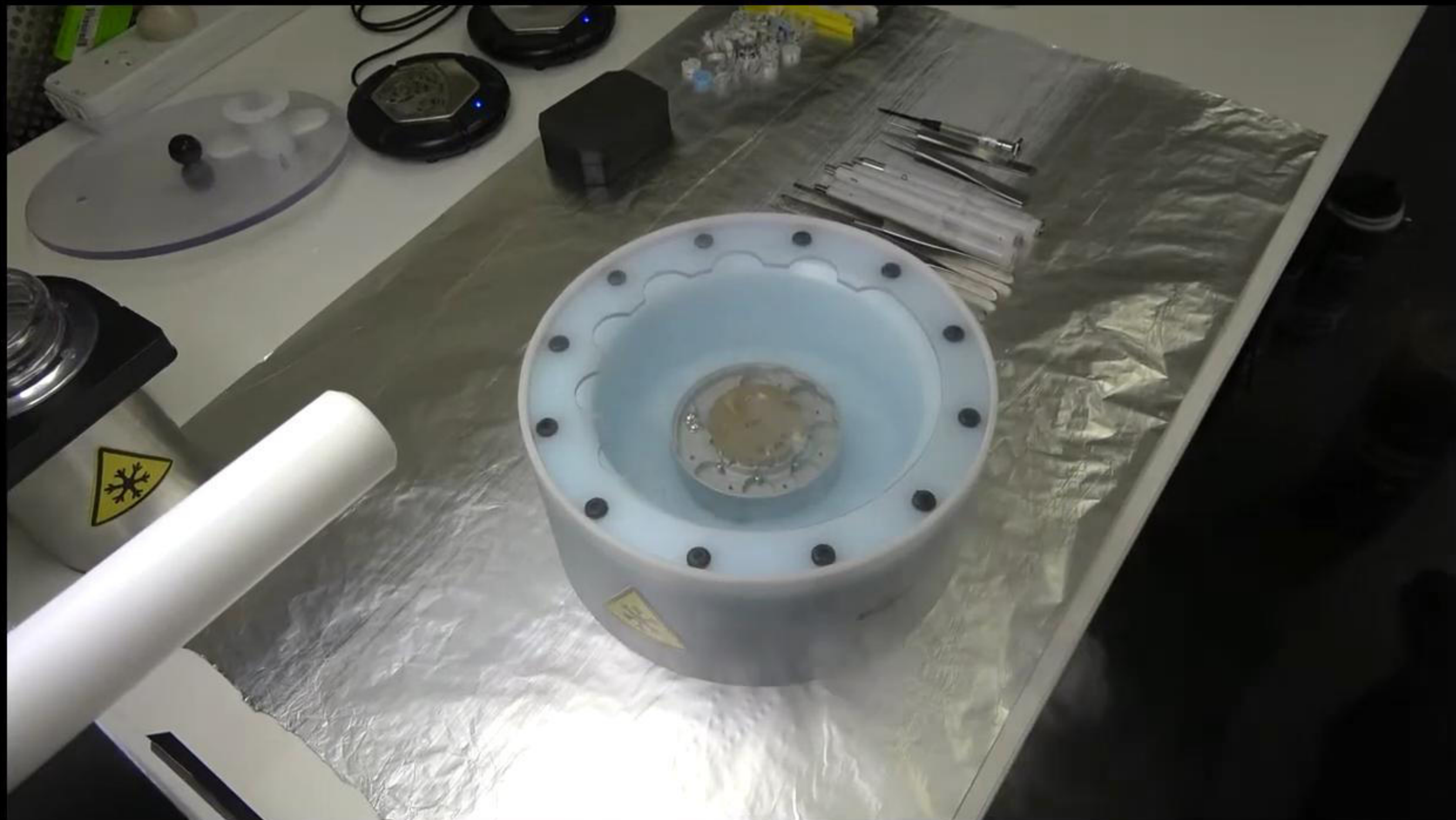


EMBL

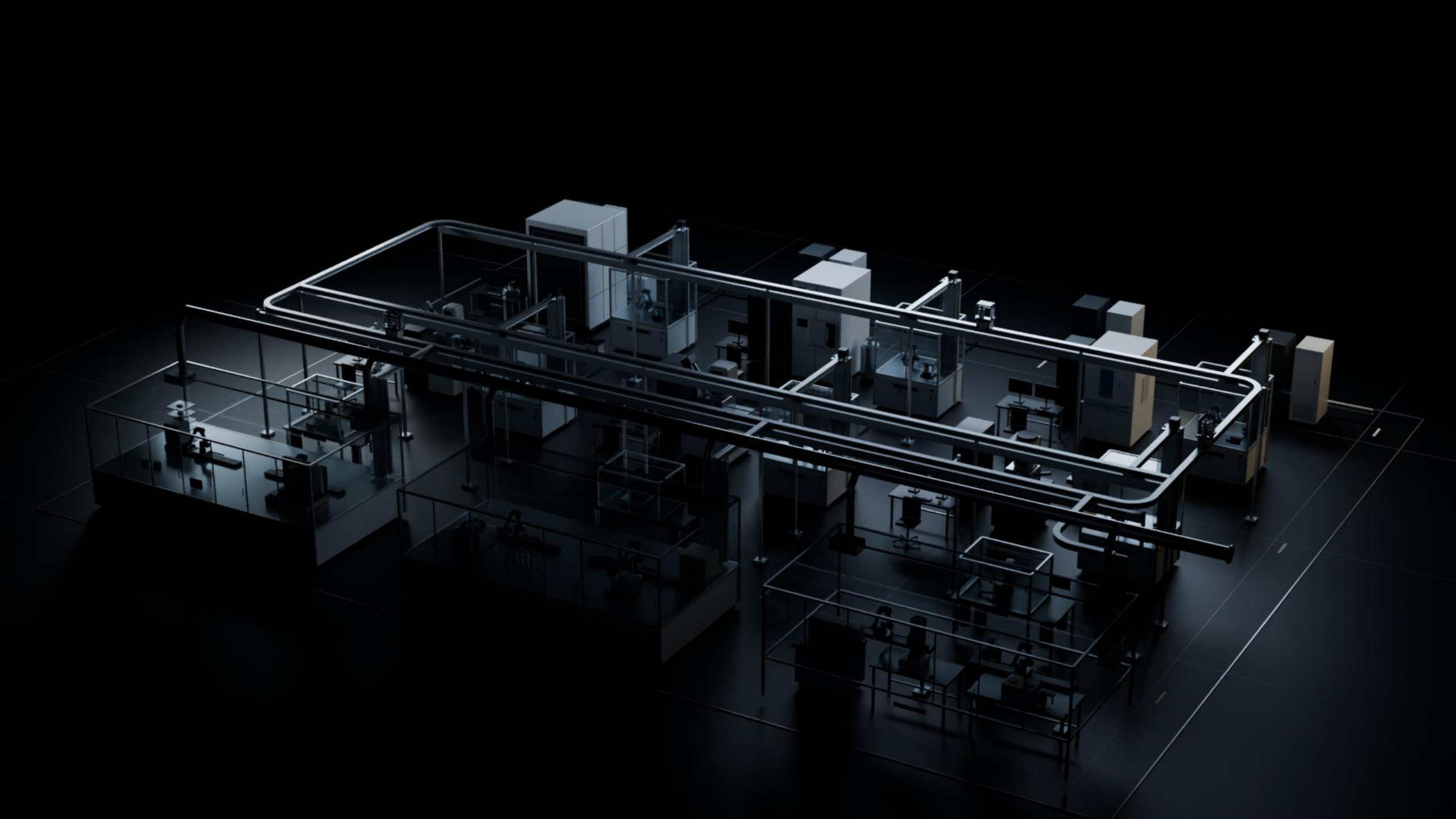


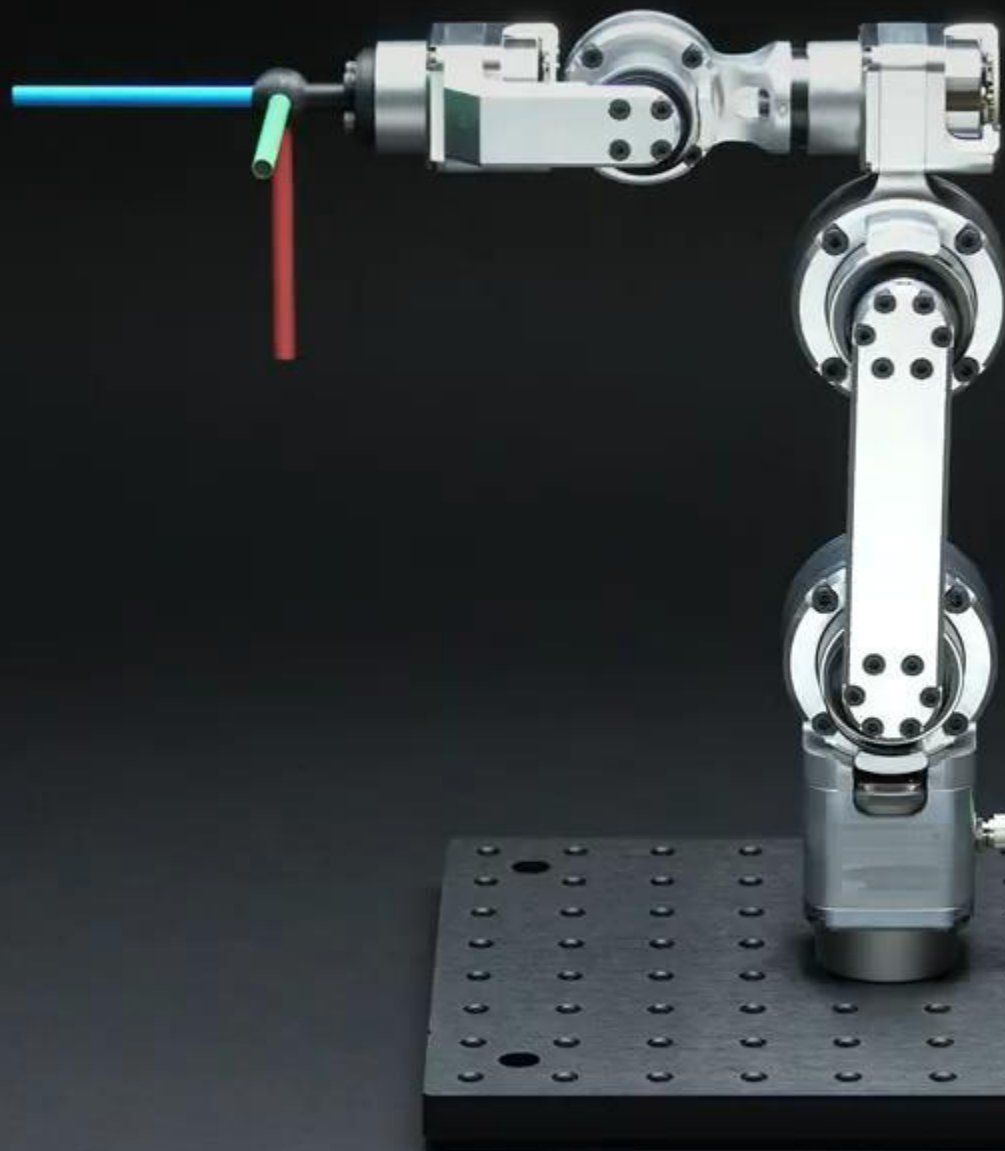
EMBL

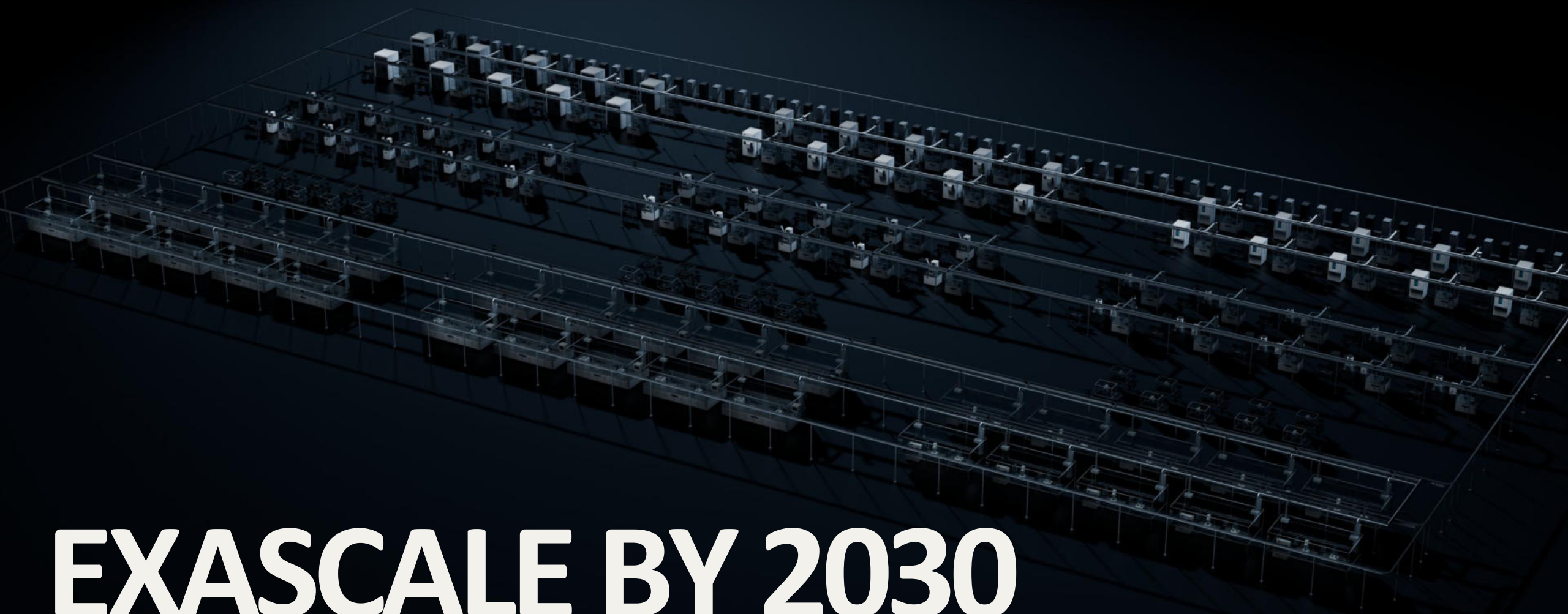








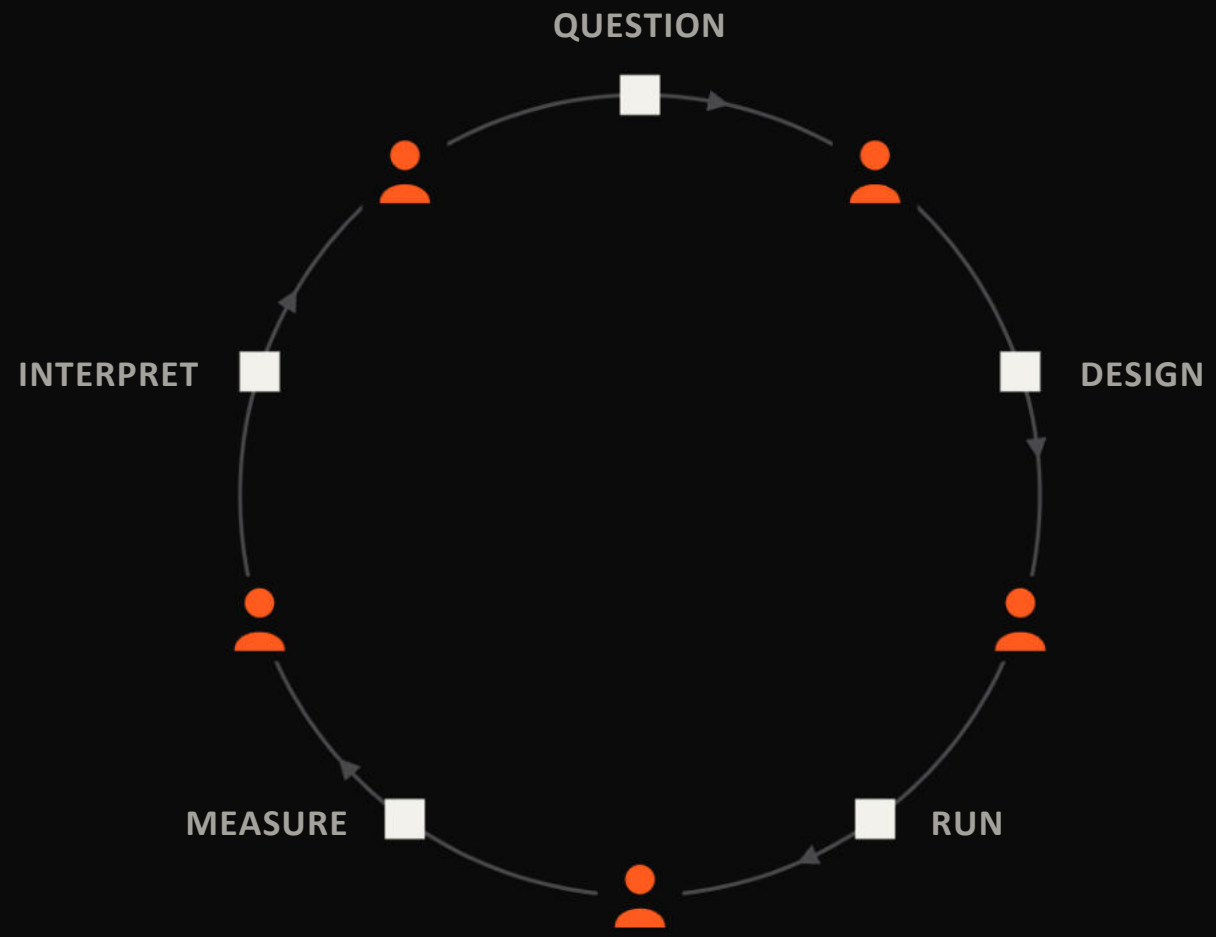




EXASCALE BY 2030

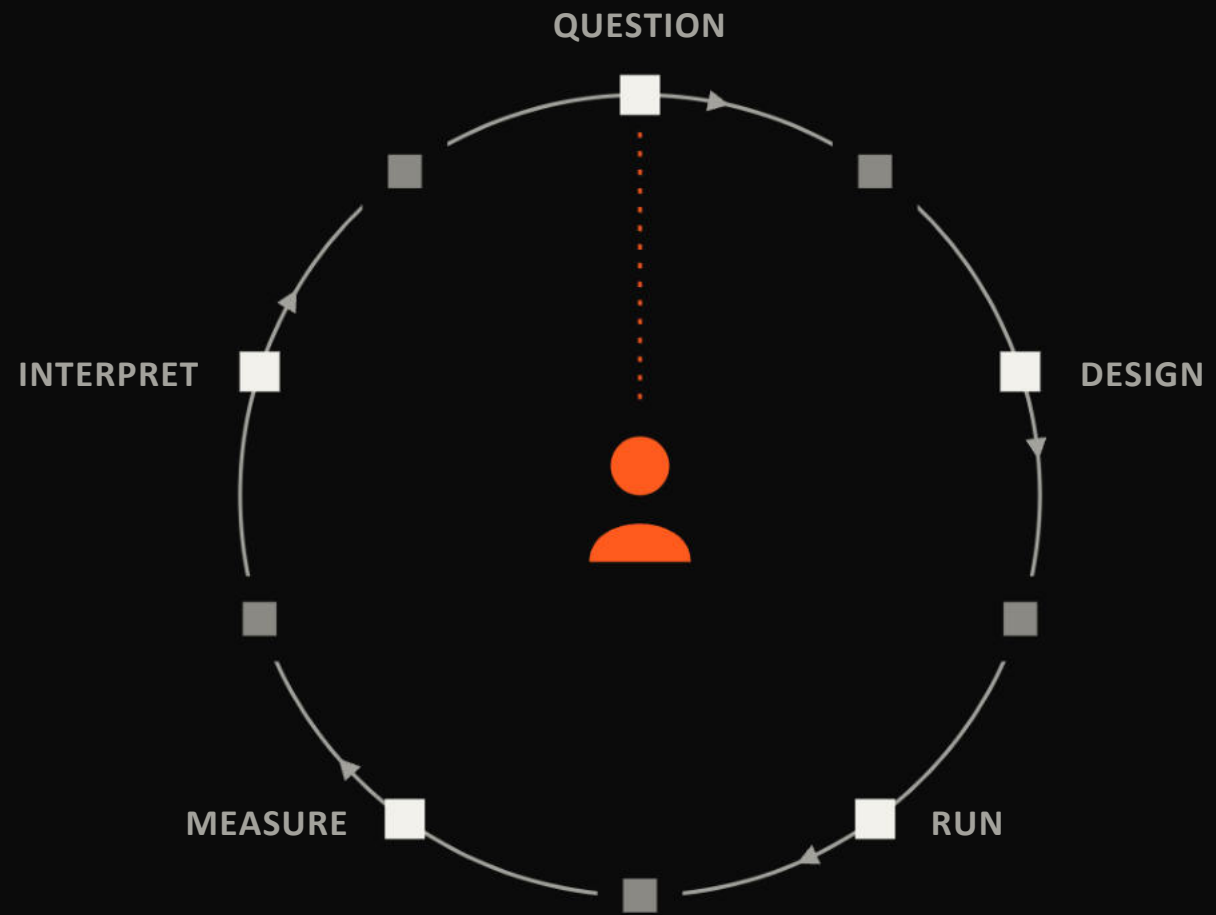
1925





WE ARE AGAIN AT TURNING POINT.

THIS TIME AT A PACE NOBODY IS USED TO.



WHAT CAN WE ACTUALLY AUTOMATE?

ALREADY AUTOMATED

MOVING SAMPLES, RUNNING INSTRUMENTS, ROUTINE ANALYSIS, REPORTING.

BEING AUTOMATED NOW

THE HANDOVERS: PLANNING, CODING, ANALYSING, CHOOSING THE NEXT EXPERIMENT.

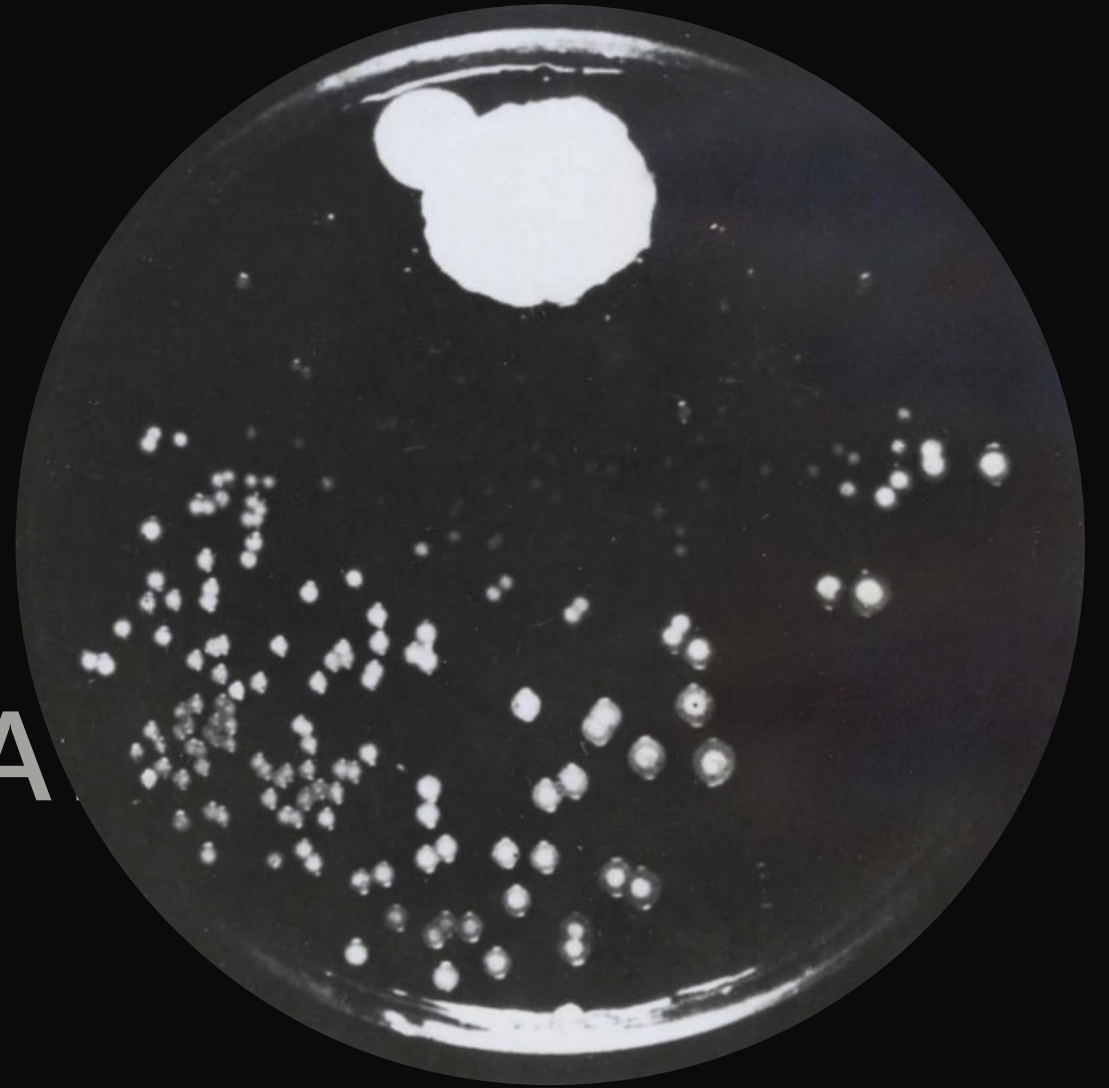
STILL HARD

VARIABLE, FRAGILE SAMPLES. KNOWING WHICH RESULT MATTERS.

**WHAT HAPPENS
WHEN DATA IS ABUNDANT!**

1928

A CONTAMINATED PLA



**LET THE MACHINES MAKE
MISTAKES.**

**MAKE THEM DOCUMENT
EVERYTHING.**

ROUTINE

UNEXPECTED



KEEP

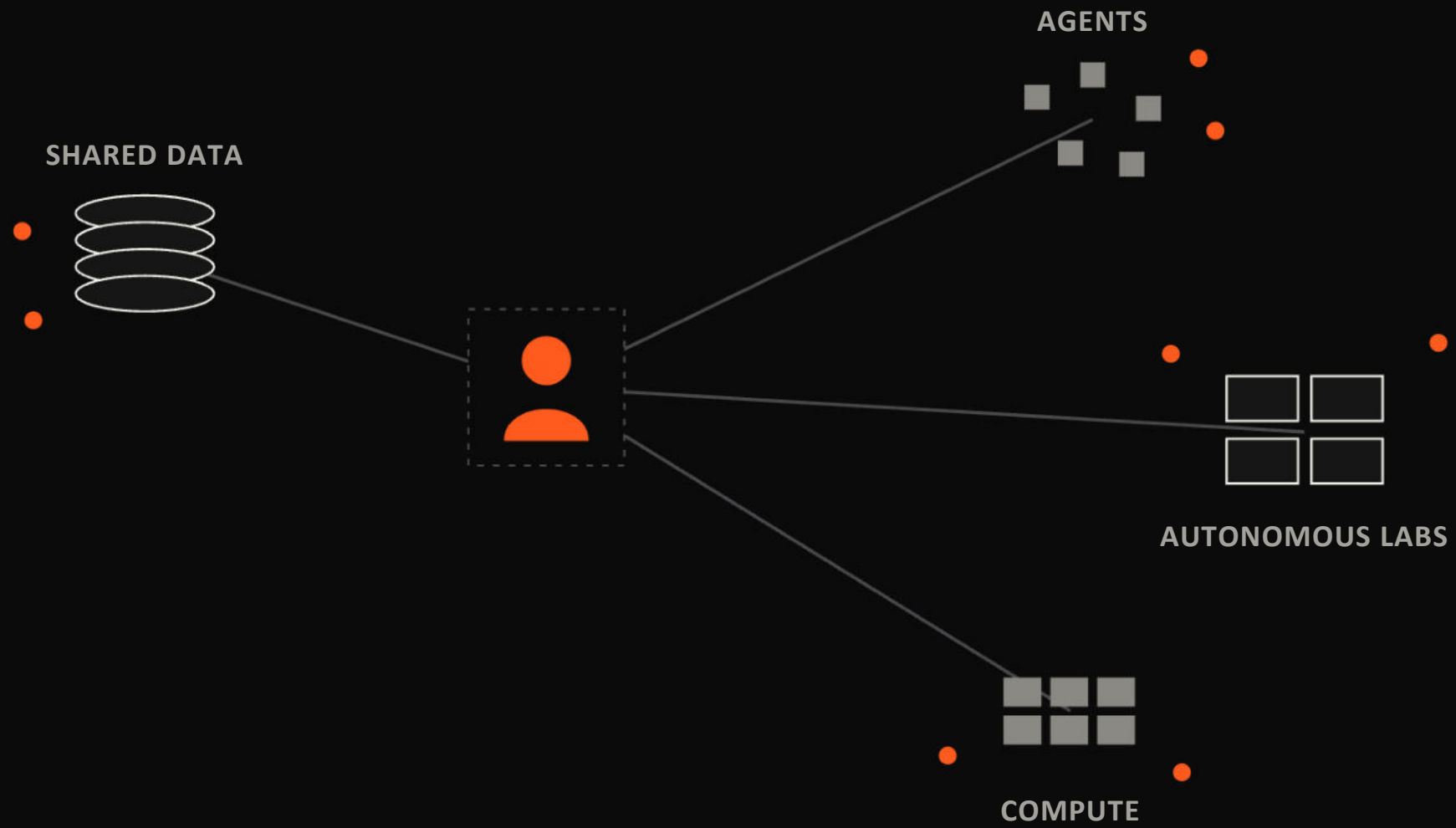


CHECK

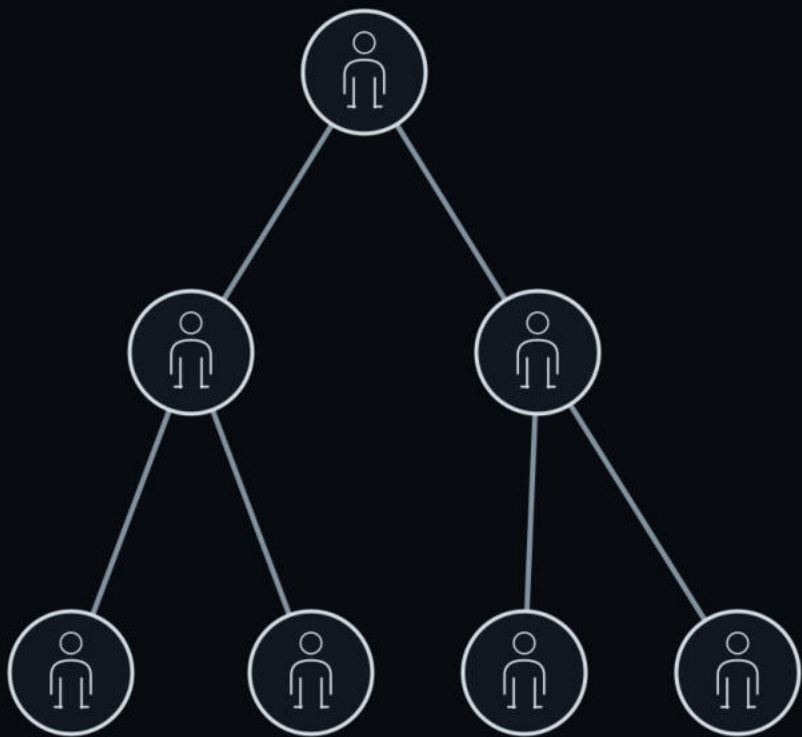


FOLLOW UP

**WE ARE STILL TRAINING SCIENTISTS FOR A
LAB THAT IS DISAPPEARING.**



**WE MUST CHANGE OLD ORGANIZATIONS
WITH RAPIDLY CHANGING FUTURE.**





Preprocess

subspÅTiΔl

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SAMPLE CHARACTERISATION & EX VIVO IMAGING

CORRELATIVE & MULTIMODAL IMAGING

IMAGE DATA ANALYSIS

EVOLVE SME ACCESS PILOT

What is on offer?

Up to EUR 5.000,- per project (10 projects) for start-ups and SMEs
to access and/or test a Euro-Biolmaging facility

Who can apply?

- Start-ups and SMEs in Europe and associated countries

Timelines

- 1st contact between applicant and Node or Hub team by 16 October 2026
- **Application deadline: 13 November 2026, 5pm CET**
- Project implementation: 1 January - 30 June 2027
- Reimbursement request submitted by 31 July 2027



