



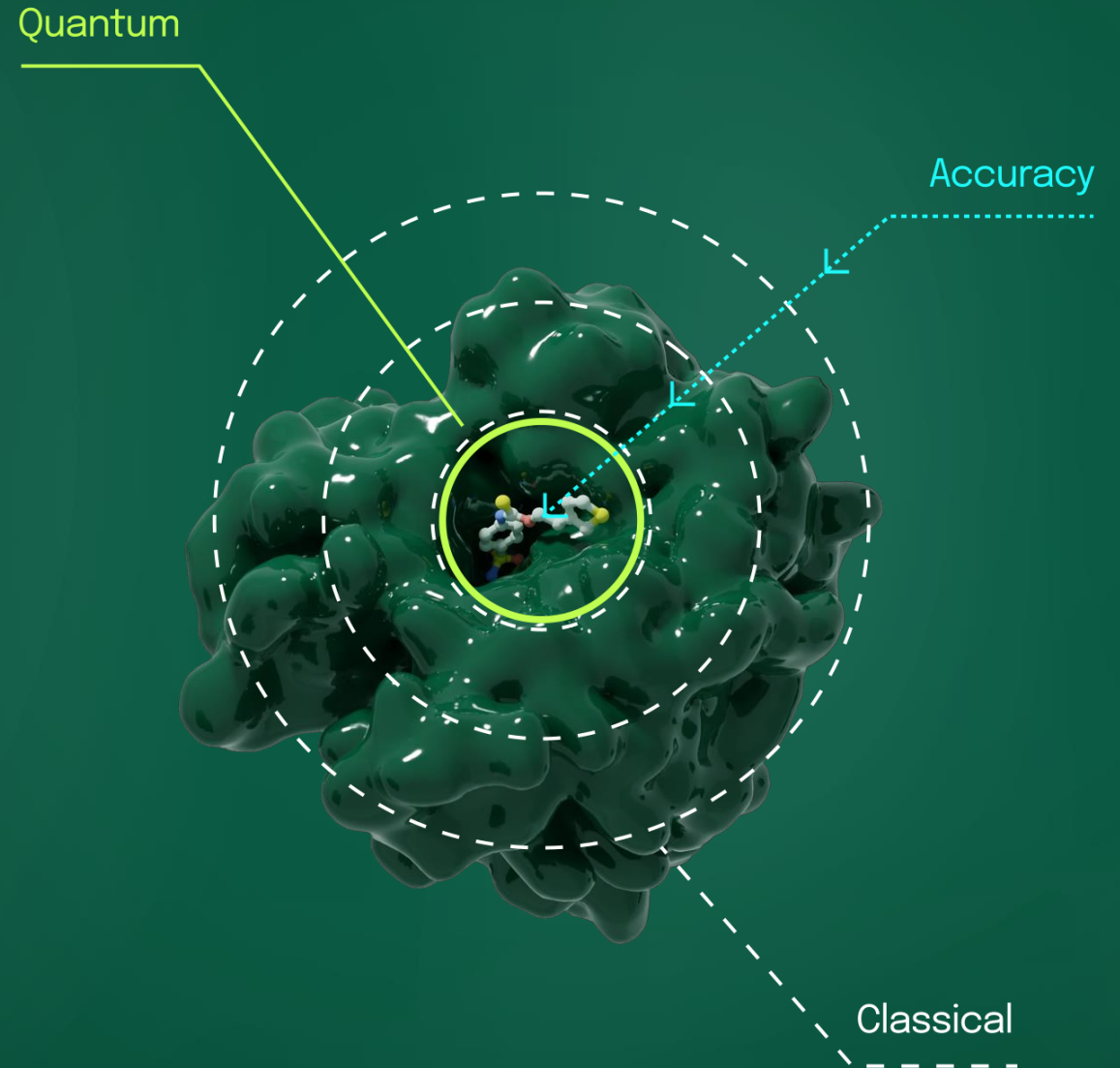
A new approach to drug discovery
– *introducing kvantify koffee!*

Our Vision

Solve the world's
*most difficult computational
challenges delivering tangible
value for businesses and society*



The road to useful quantum computing includes both *classical and quantum computing*



Our team | We have one of the strongest cross-functional quantum computing and HPC software teams in Europe


Founded in the spring of 2022, Kvantify already has one of the strongest *Quantum Computing-focused* teams in Europe with *more than 65 experts*, including *>35 PhDs* and *12 professors* with expertise in e.g.:

 1 Drug Discovery

 5 Quantum Chemistry

 2 AI / ML

 6 Quantum computing

 3 High performance computing

 7 Algorithm development

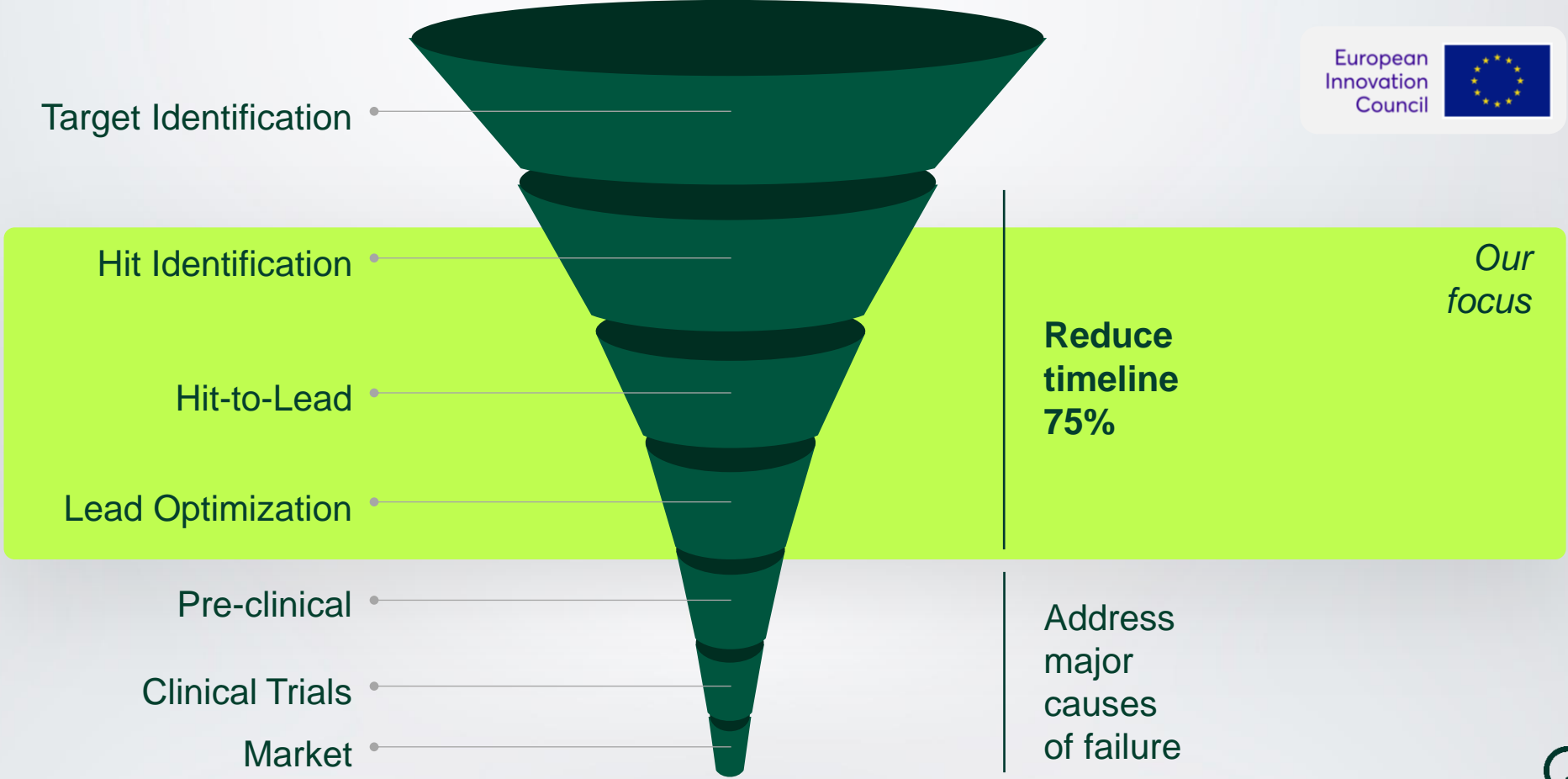
 4 Cloud computing

 8 Mathematics



Offices in Denmark and the UK

Our vision is to develop the best cloud drug discovery platform, *building on physics*



Our initial focus area has been *unbinding kinetics*




Unbinding kinetics can help

*Uncover
selectivity*

*Support dosing
estimates*

*Ultimately reduce
failure rates*



No way to fail fast today – limited availability

1

No existing scalable *in-silico* solution

2

Currently lab-based with high overheads

3

Expensive and time consuming, reserved for advanced assets

Koffee | We have developed a fast, accurate physics-based solution for predicting unbinding kinetics

1

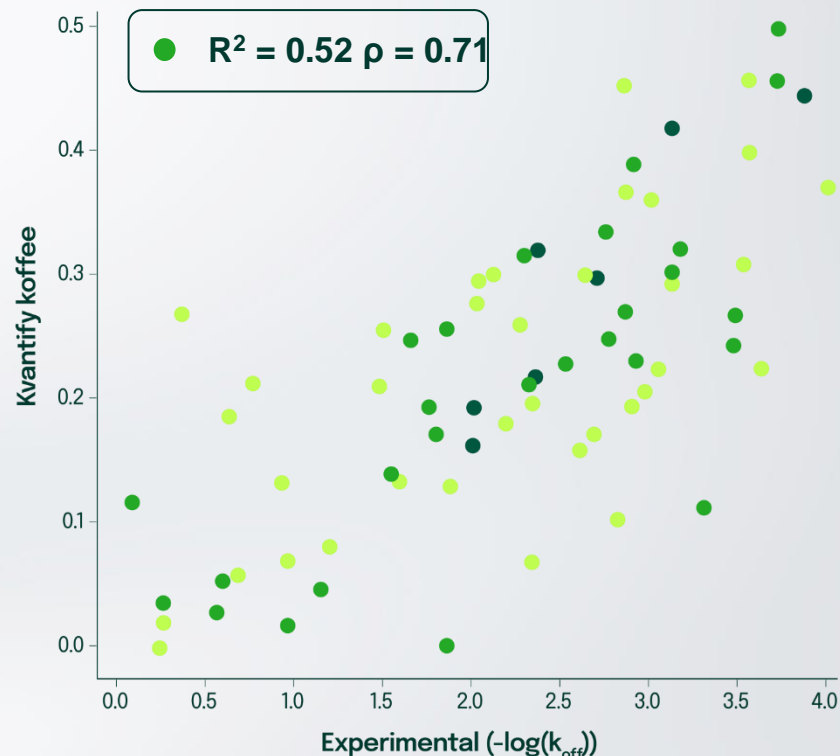
Accurate prediction and ranking of drug unbinding kinetics (k_{off})

2

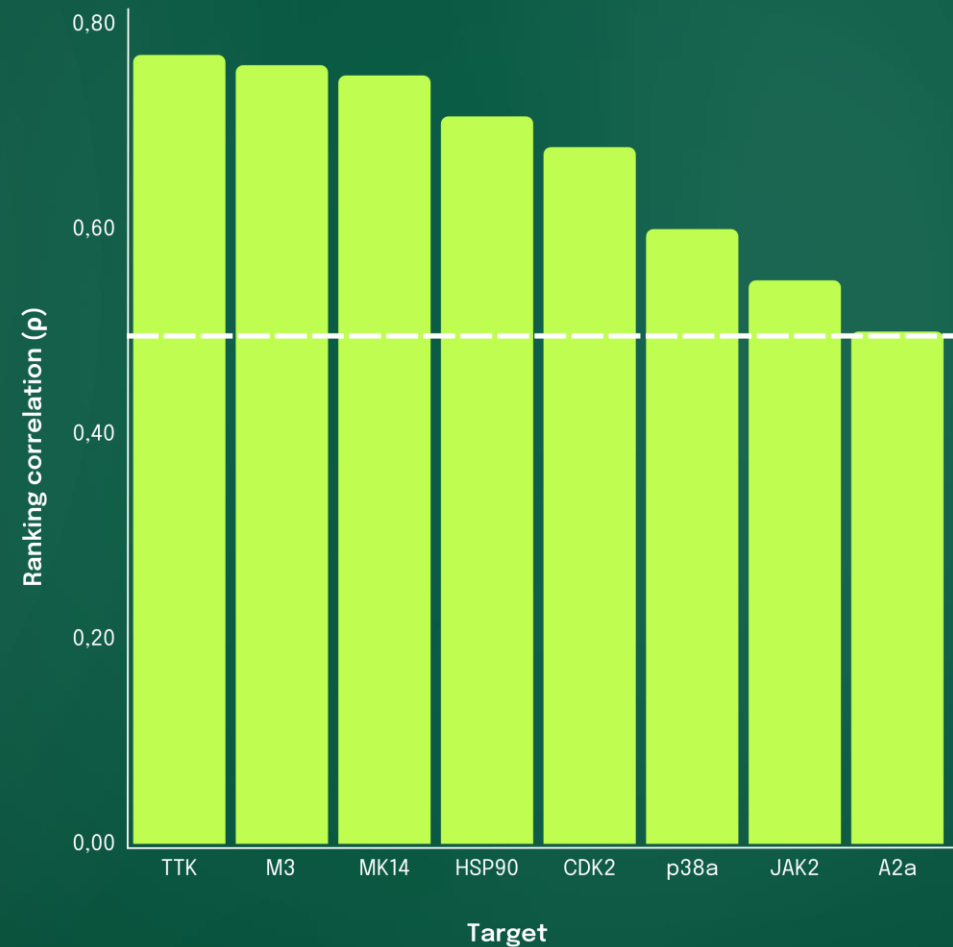
Fast and scalable for iterative optimisation – 10 minutes per compound

3

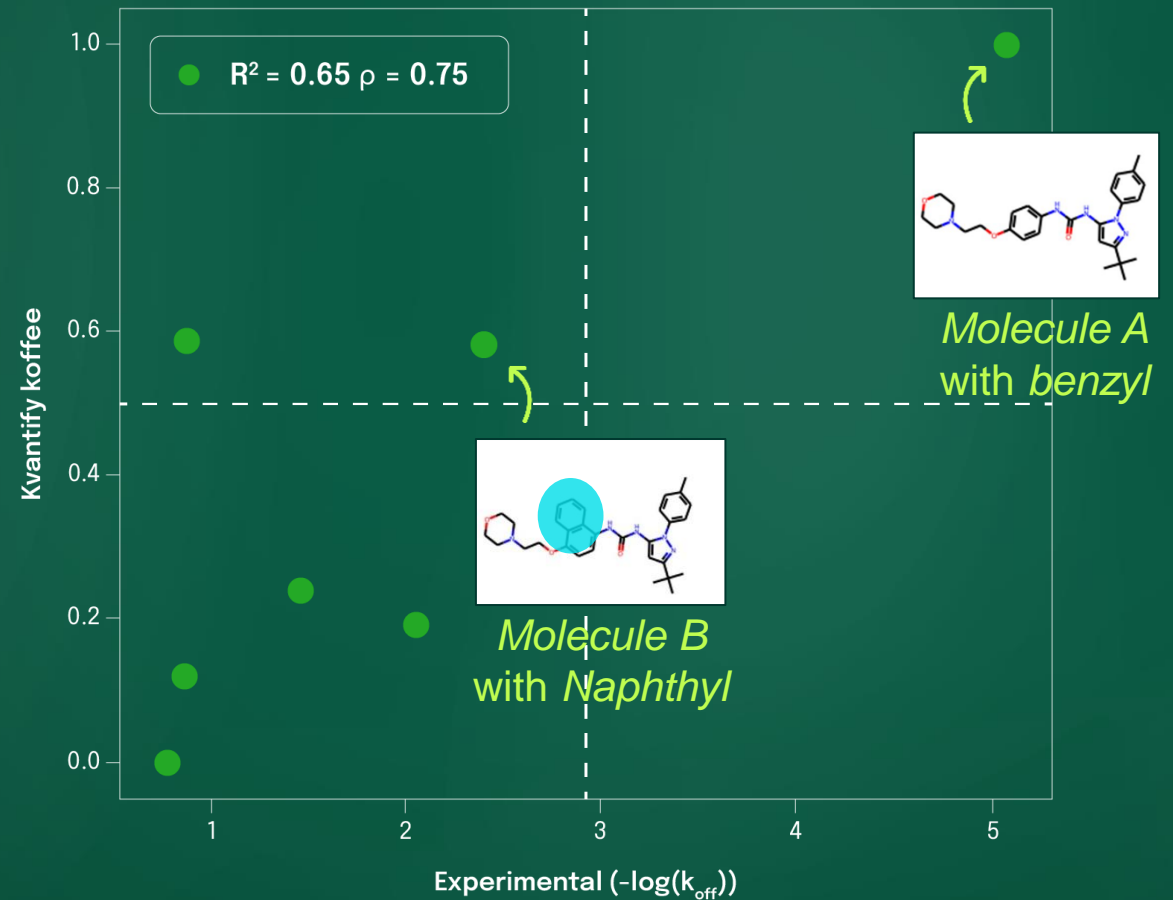
Benchmarked against experimental data from >8 protein targets and >140 data points



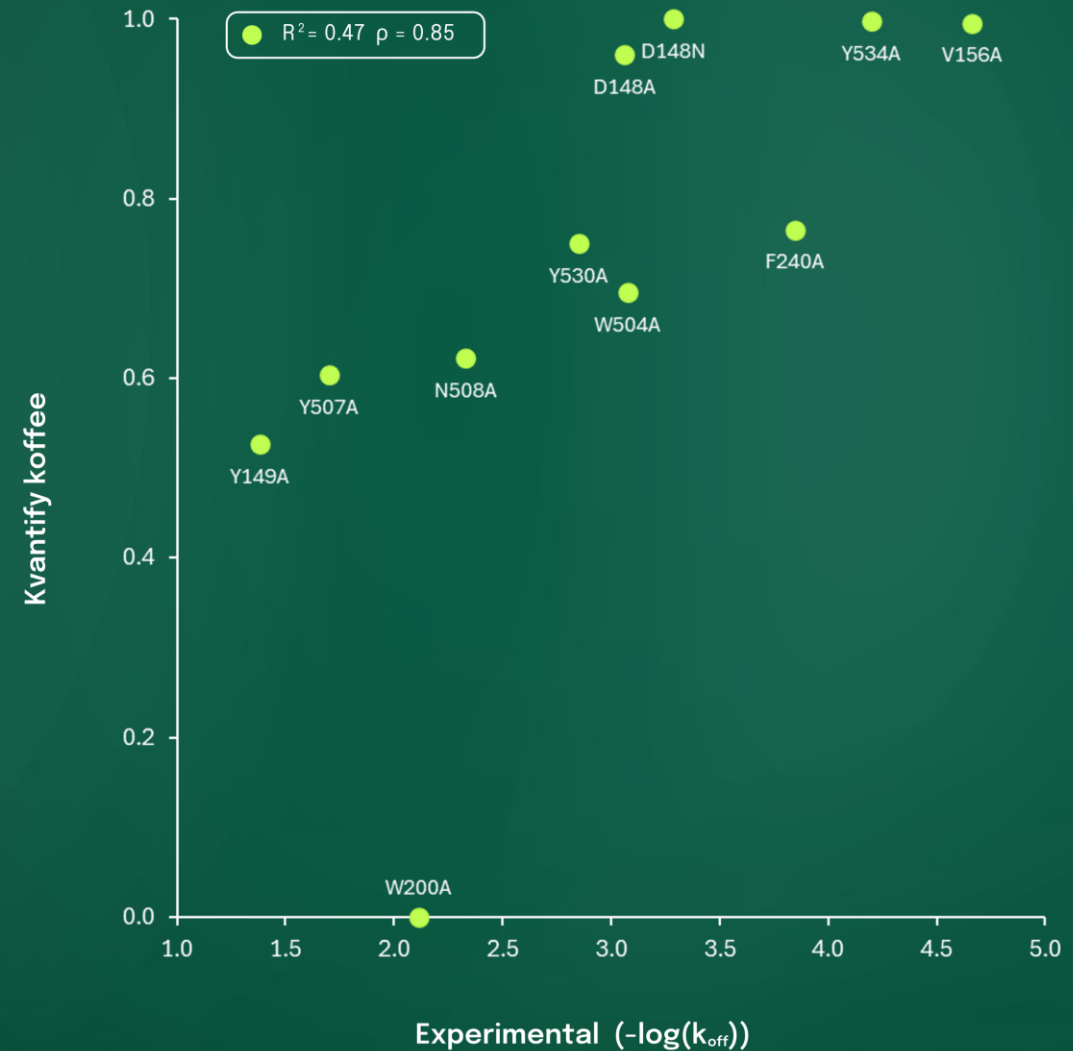
*Accuracy validated
by experiments*
across a diverse range
of targets and ligands



Koffee can also differentiate between *subtle molecular modifications*



Koffee is also highly sensitive to *point mutants*



kvantify koffee



- ✓ *100x speed-up*
- ✓ *Accuracy validated by experiments*
- ✓ *Applicable across targets & ligands*
- ✓ *Quantum-ready software*

kvantify koffee

- Pilot access today for core partners
- Reach out at contact@kvantify.com





Thank you

We help companies take
the next leap in computing

kvantify.com/koffee