



Designing quantum molecular algorithms & solutions for innovative applications

Chemical & material design

Quantum molecular sensing & control

Training & consultancy

Quantum software

MolKet encryption

MolKet cloud services

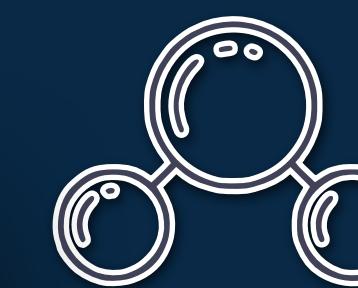
MolKet >

- We are a service company.
- We design quantum molecular algorithms & solutions for innovative applications.
- We provide cloud-based services & solutions.



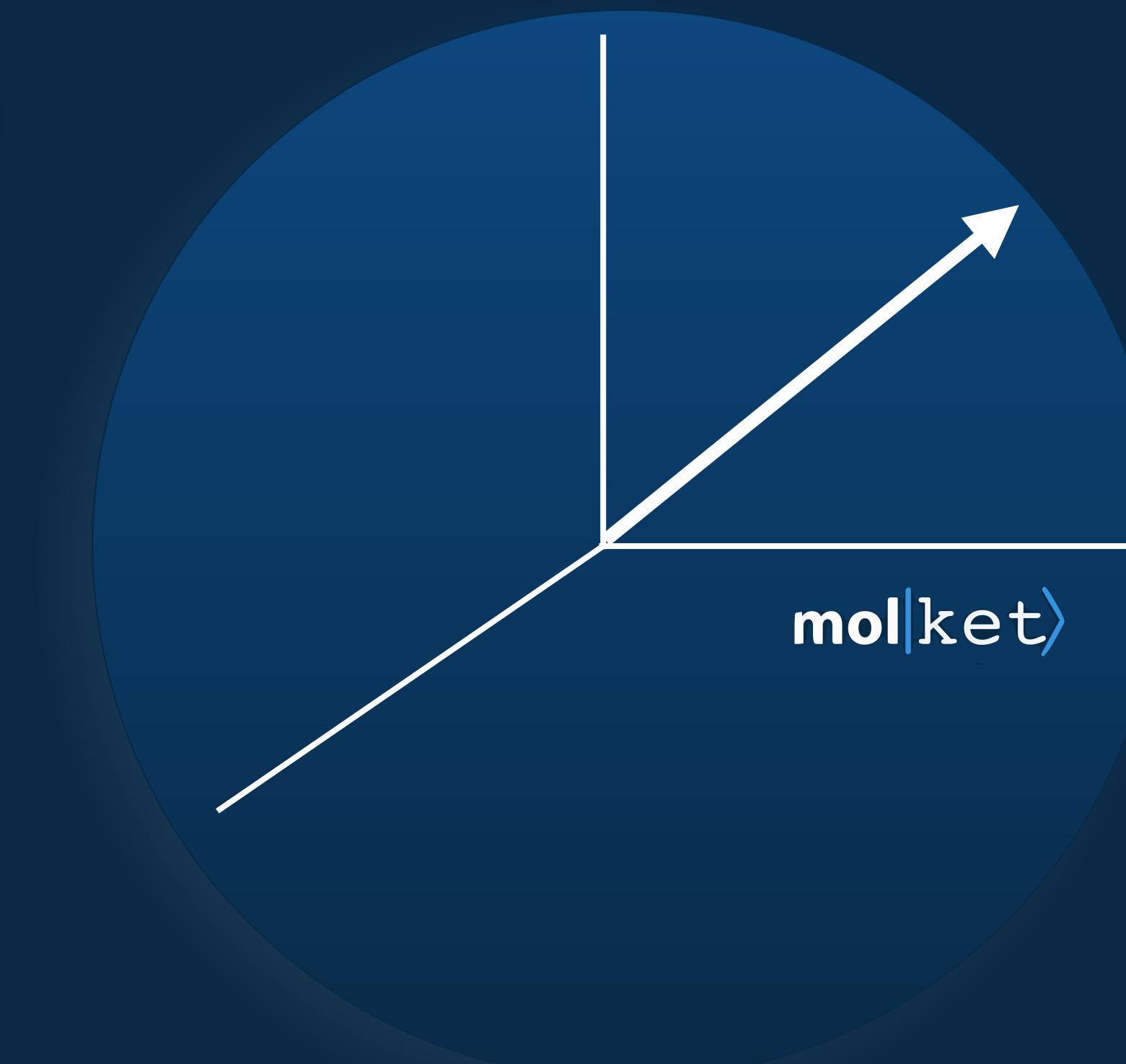
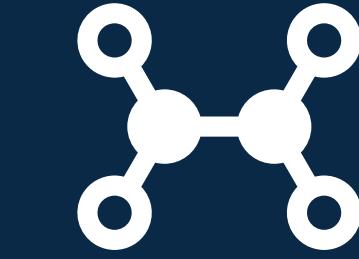
Efficient algorithms QC/HPC >

Smart designs tailored to customer needs using HPC + quantum algorithms & simulations.



Molecular modelling & design >

Chemical reactions, molecular qubits
molecular collisions & interactions.



Quantum molecular sensing & control >

Conceptual designs & simulations for quantum molecular sensors.

Applications: space, communications, astrophysics, cybersecurity, biology, & electric batteries ...



| What makes us different? >

We enable our customers to achieve accurate designs, thus reducing the cost of R&D lab work and materials, and speeding the time to market.

| Innovative algorithms >

| Real-time simulations >

| Expertise & skills >

| Training & consultancy >

| Optimised software using our cloud >

| Offering >

Algorithms, classical, quantum, hybrid & quantum inspired

- Molecular & Material design
- Molecular simulations
- Optimisation
- Chemical reactions

Quantum molecular sensing & control Simulations & design

- Vibration sensors
- Battery sensors
- Gyro sensors
- Energy sensors

Consulting, training, mentoring

- Problem formulation
- Knowledge transfer
- Customized trainings
- Workshops
- Quantum computing

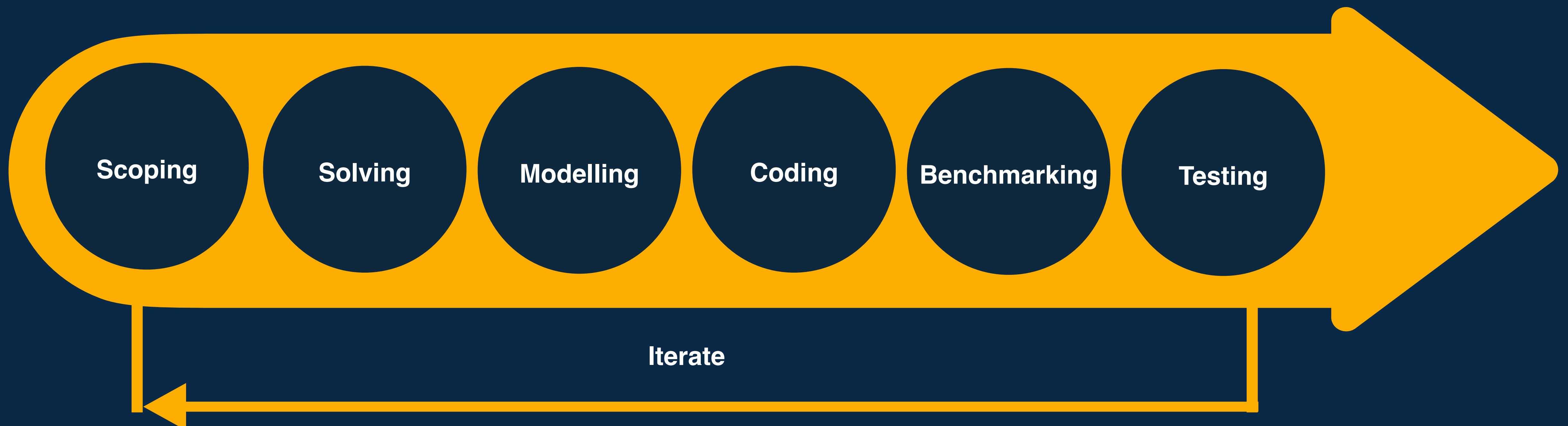
Chemical & material design, Energy, telecommunications, Cybersecurity, Astrophysics, Aerospace, Automotive, Pharmaceutical, & Personal care

All our software, codes, and scripts run on our secured hybrid computing clouds:

www.molket.io

Our Methodology >

Six steps from the problem formulation to the solution:



| Execution>

Quantum molecular modeling requirements

Theory & modelling
Develop the algorithm

Coding

Hybrid optimizer

Computing/simulations



Cloud APIs

Optimize/analyze

ML

AI

CPUs GPUs QPUs

TPUs ASIC AI

mol|ket>

Real time-dependent quantum molecular model

| Founders >



Taha Selim

- CEO & co-founder, MolKit.
- Lead scientific team.
- Theoretical & computational quantum engineer.
- PhD candidate, Theoretical & Computational Chemistry, IMM, Radboud University Nijmegen, the Netherlands.
- M.Sc. of Quantum physics, Lasers, & Materials.
- B.Sc. of Physics & Mathematics with Electronics & Communication Engineering.
- Non-degree diploma in Business Administration & Economics.



tiselim



Alain Chancé

- Chief Business Officer & co-founder MolKit.
- Lead consulting & project management team.
- Technical manager with 30+ years in consultancy of technical solutions in major tech firms.
- Qiskit Advocate & IBM Certified Associate Developer.
- Expert in teaching, training, & knowledge transfer.
- Author of the book “Quantum Chemistry and Computing for the Curious: Illustrated with Python and Qiskit® code”.



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| Reach us >

Contact us:

General inquiries: contact@molket.io

Business discussions: business@molket.io

Website: www.molket.io



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