

## SQBM+™

Tackling optimization challenges through quantum-inspired computing

## SQBM+™

A quantum-inspired approach towards quantum computing advantage

SQBM+ is a quantum-inspired optimization solution based on the Simulated Bifurcation Machine (SBM) that is a combinatorial optimization solver utilizing the Simulated Bifurcation Algorithm (SB Algorithm) developed by Toshiba Corporation. We offer a lineup of optimization solvers according to the intended application, and have adopted a new SB Algorithm that greatly improves speed, accuracy, and scale.

Through collaborations and co-creation with expert partners, we are contributing to solutions to deeply complex problems in areas as diverse as finance, drug discovery, genetic engineering, logistics, and AI enhancement.

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### Reference to the technology foundation

H. Goto et al., Science Advances, 2019

H. Goto et al., Science Advances, 2021

K. Tatsumura et al., Nature Electronics, 2021

### Key features



#### Large-scale

Handle up to 10 Million variables



#### Fast

10-100 times faster than competing quantum-inspired solutions



#### Software-based

No special quantum hardware required



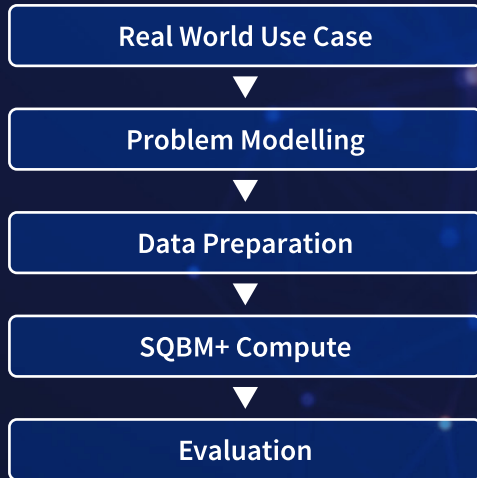
#### Classic infrastructure

Compatible with GPU and FPGA



## How to use SQBM+

Process to tackle real-world challenges using SQBM+





## Cloud SQBM+ Compute Options

SQBM+ for AWS 

SQBM+ for Azure 

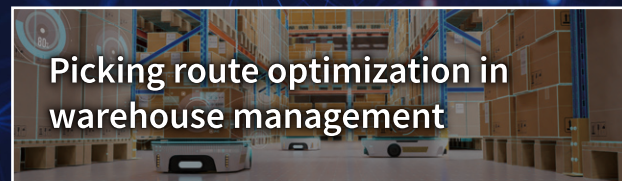
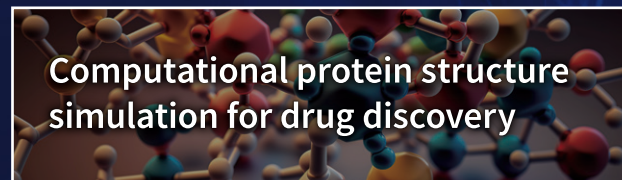
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Affordable learn & development plans available for trial 

Standard commercial plans available for scale-up business 

## Validated use cases



## Get in touch

### Website

go to [www.global.toshiba/ww/products-solutions/ai-iot/sbm](http://www.global.toshiba/ww/products-solutions/ai-iot/sbm)



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