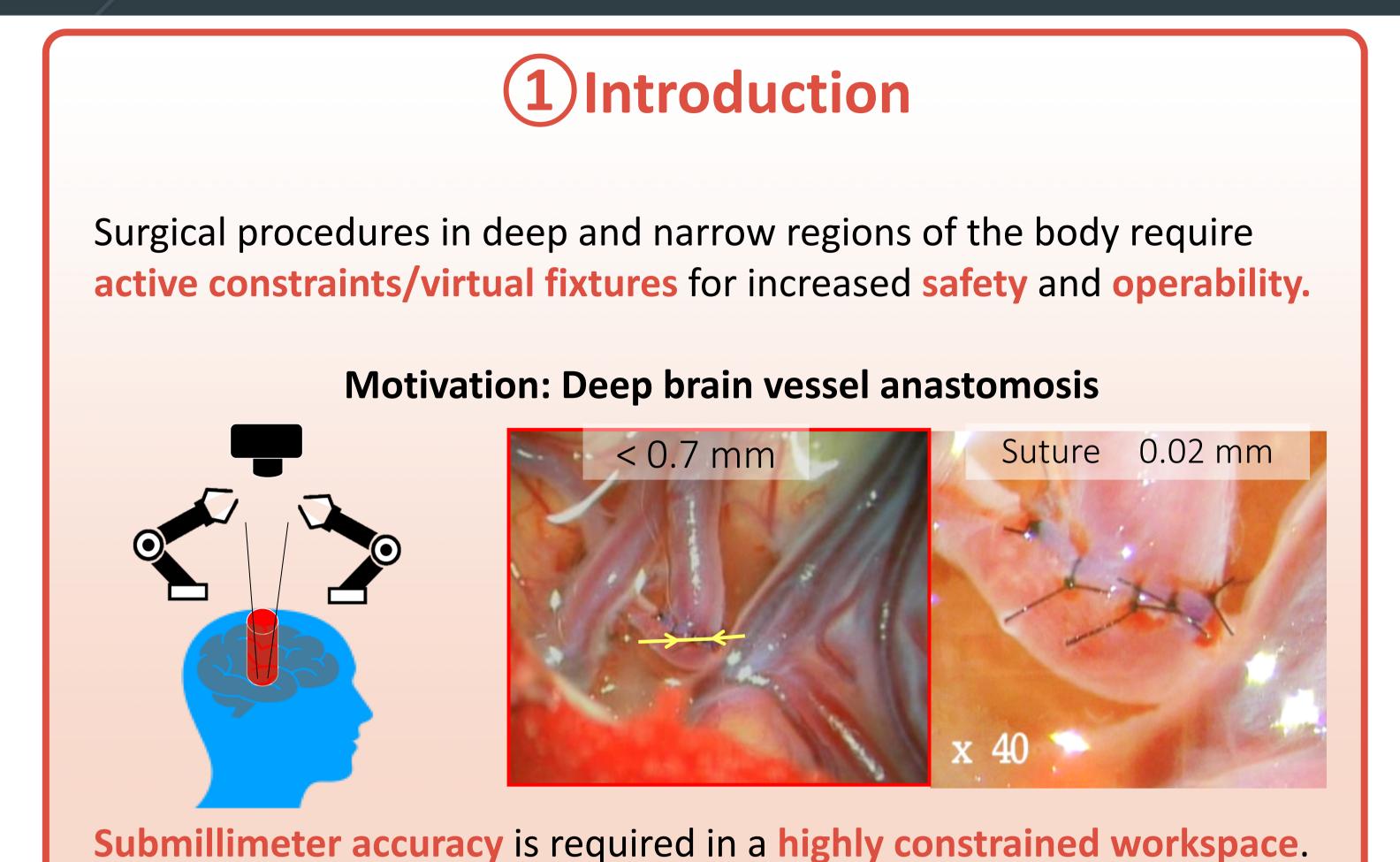
## Active Constraints Using Vector Field Inequalities for Surgical Robots

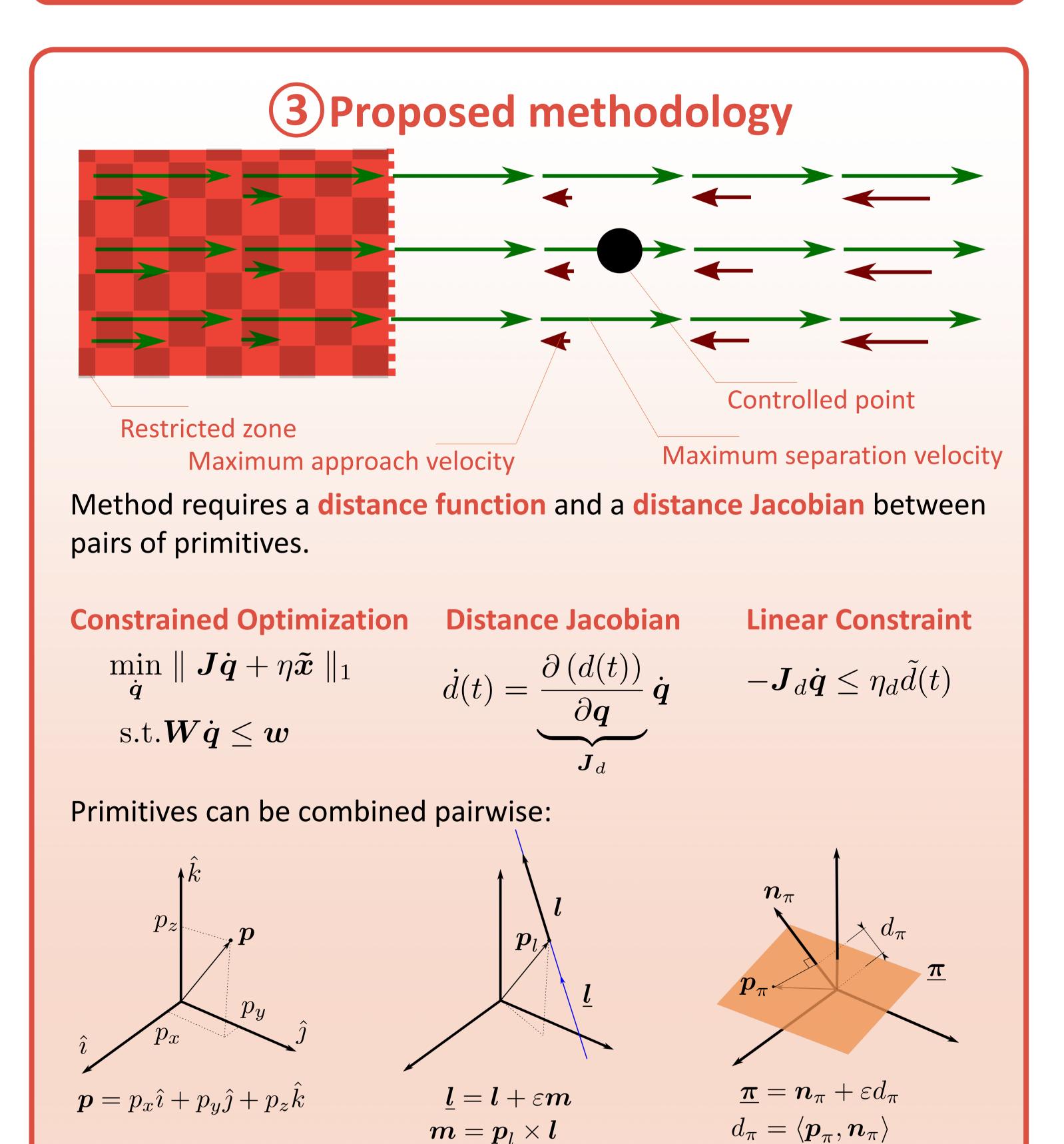
<sup>1</sup>The University of Tokyo, Tokyo, Japan,

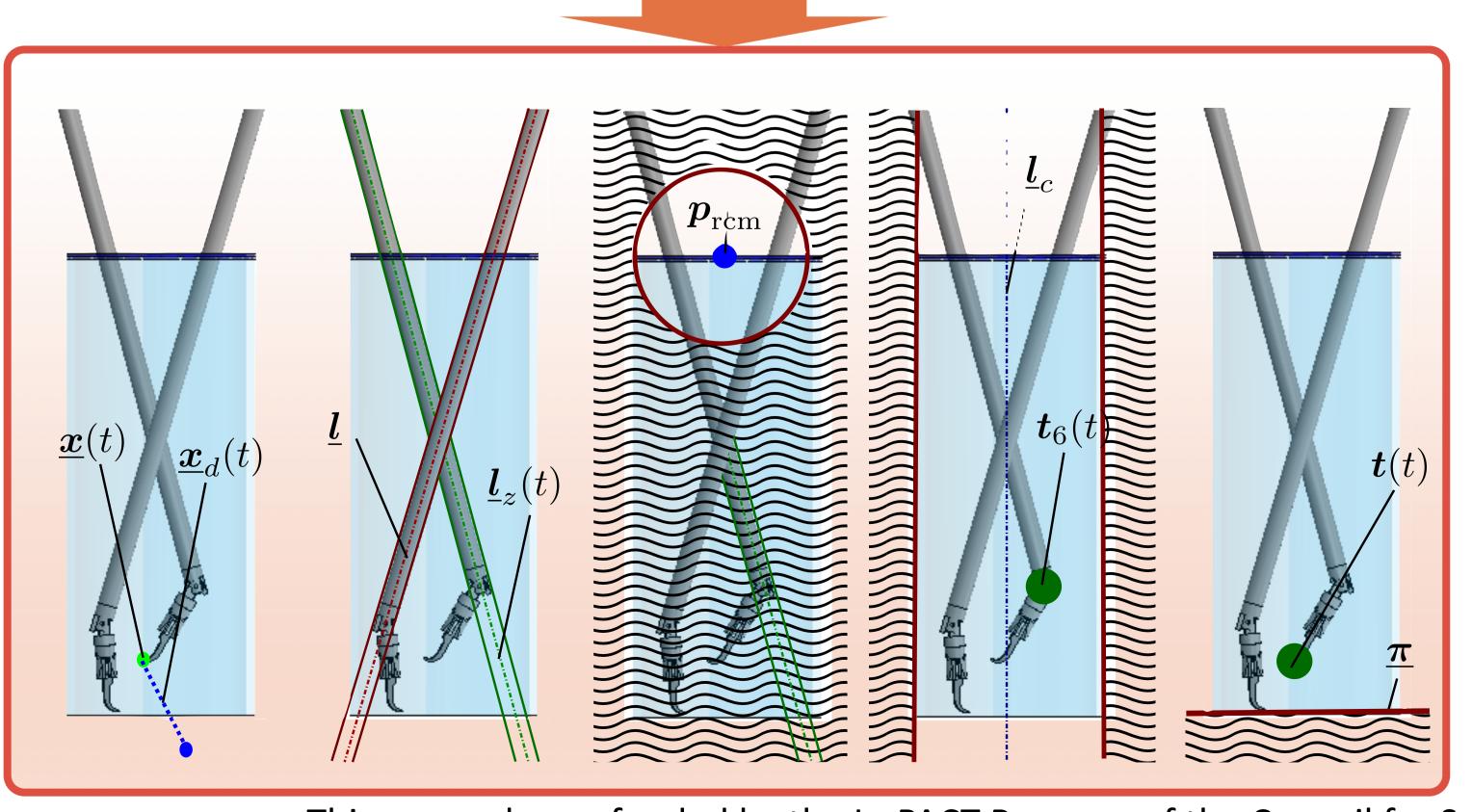
<sup>2</sup>Federal University of Minas Gerais, Belo Horizonte, Brazil

Murilo M. Marinho<sup>1</sup> Bruno V. Adorno<sup>2</sup> Kanako Harada<sup>1</sup> Mamoru Mitsuishi<sup>1</sup>

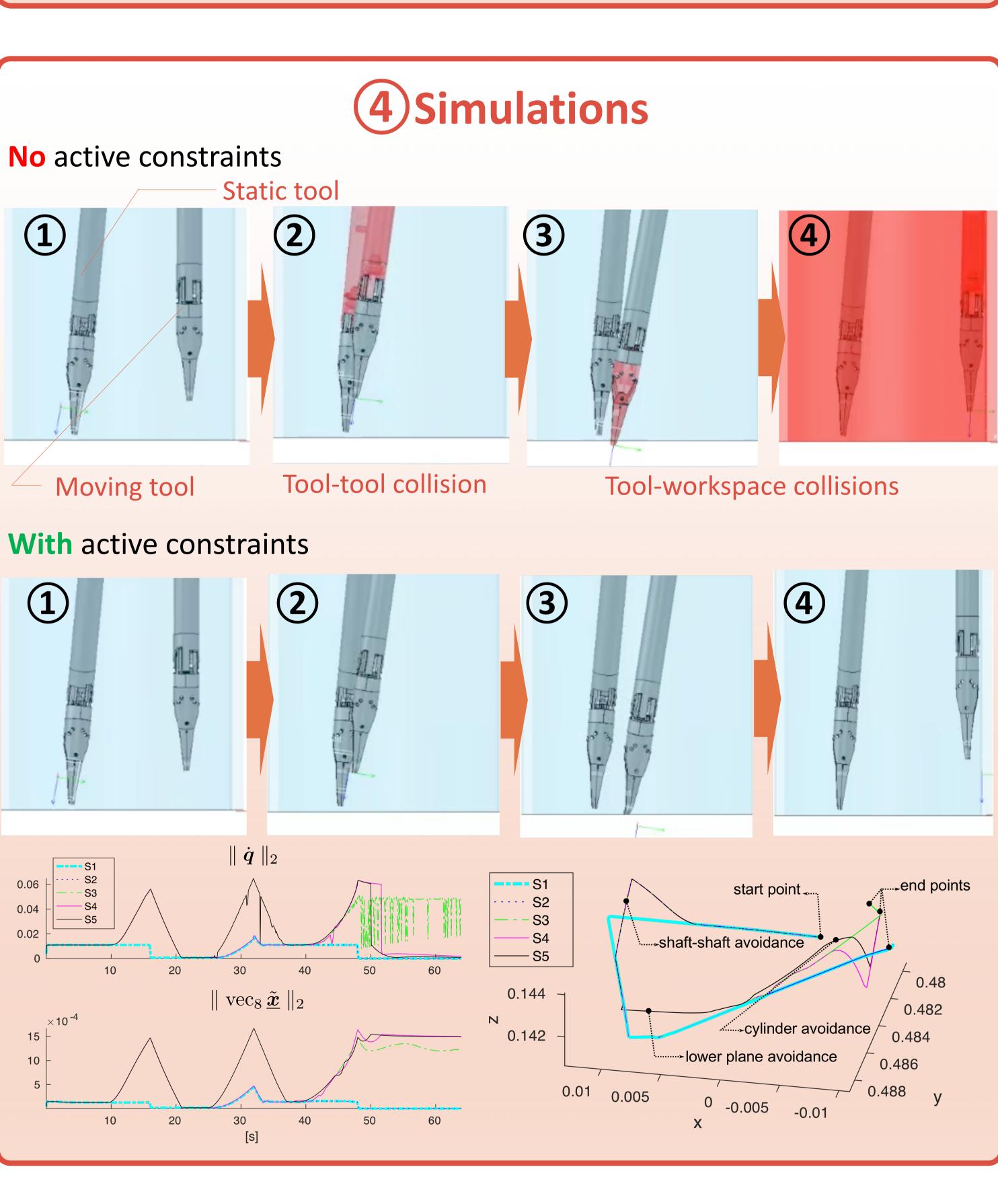












## 5 Conclusion

Primitives modelled complex interactions between robots and workspace, preventing collisions with smooth velocities in real-time.

This research was funded by the ImPACT Program of the Council for Science, Technology and Innovation (Cabinet Office, Government of Japan)