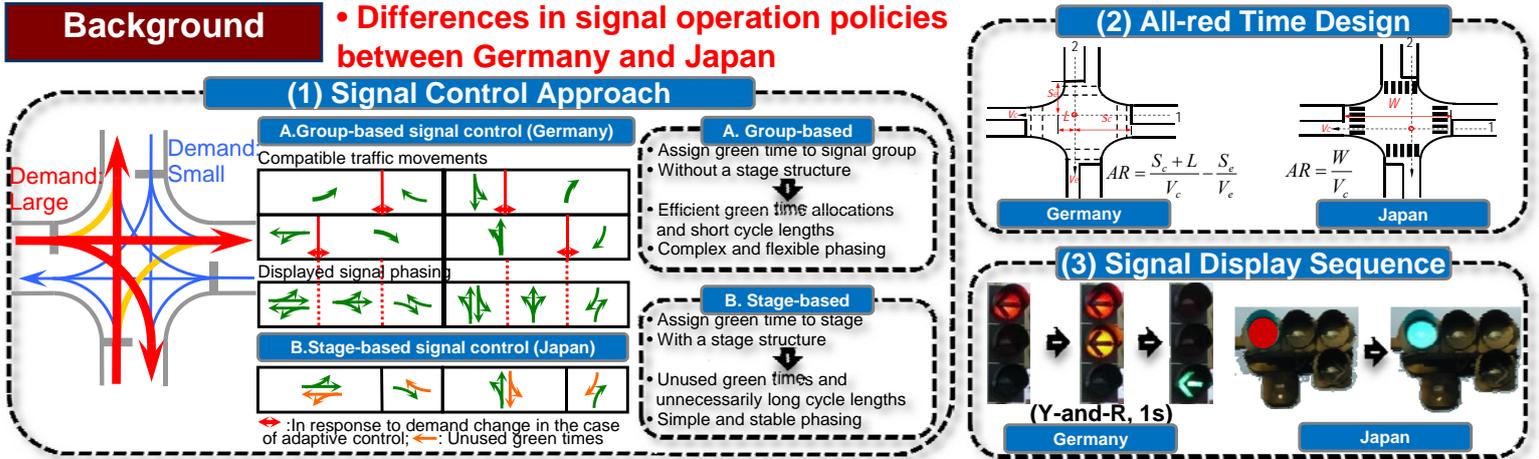


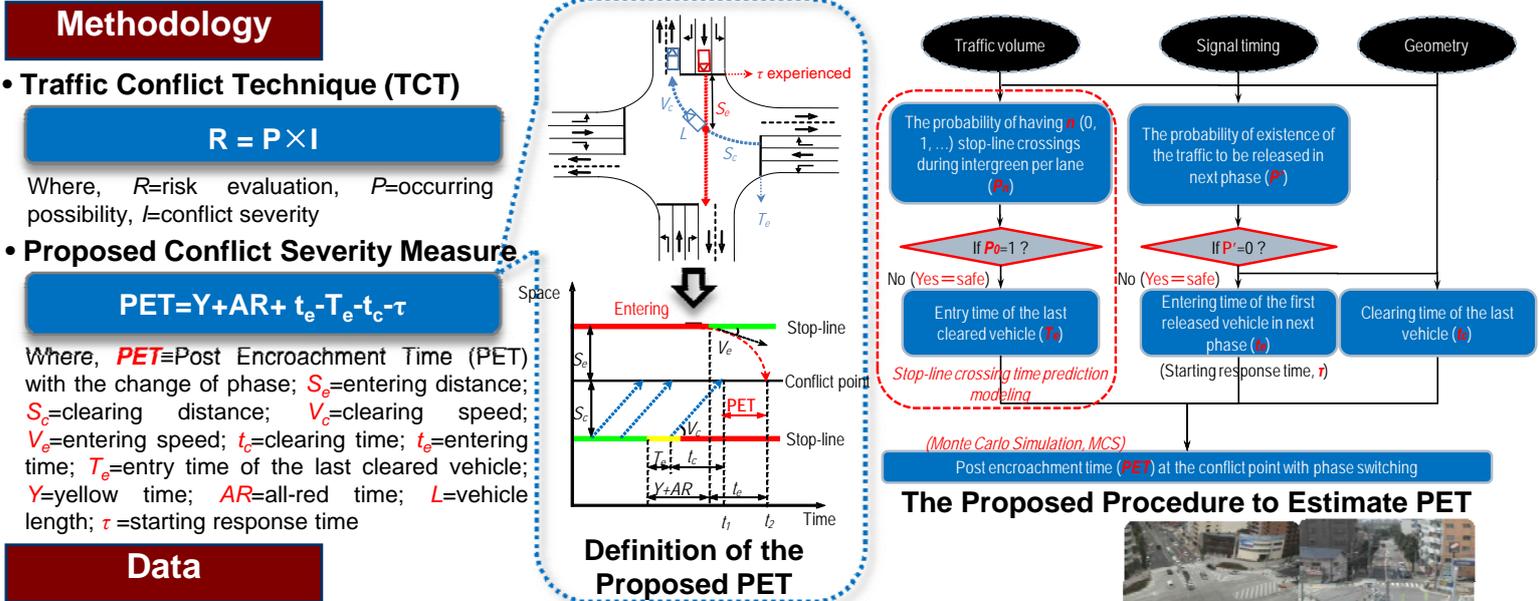
Key words: signalized Intersection, intergreen, safety



### Purpose

**Q:** To what extent do the above differences affect safety performance during intergreen interval ?

- To investigate the impacts of German signal operation policies on safety during intergreen interval in the context of Japan traffic, while accounting for the random nature of traffic

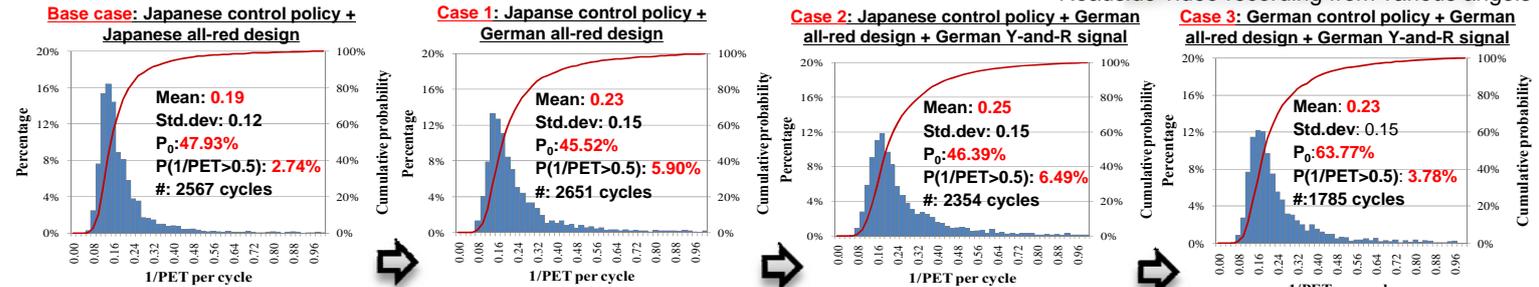


### Data

- Necessary data:** traffic volumes; signal timing and geometric parameters; driver behavior ( $V_c, T_e, \dots$ )
- Data collection method:** video recording; reduction by image processing program
- Obtained Data:** 3 typical intersections in Germany and 12 in Japan; at least 2h video for each site.

Video recording from high building

Roadside video recording from various angles



### Conclusion

Safety and its reliability at Japanese intersections might significantly drop if simply changing the all-red time from the value based on Japanese method to the value based on German method or applying the Yellow-and-Red signal, without supplementary countermeasures. However, **safety level is possible to be maintained if completely replacing Japanese policies with the German policies.**