

Offset evaluation for non-cyclic control of adjacent intersections

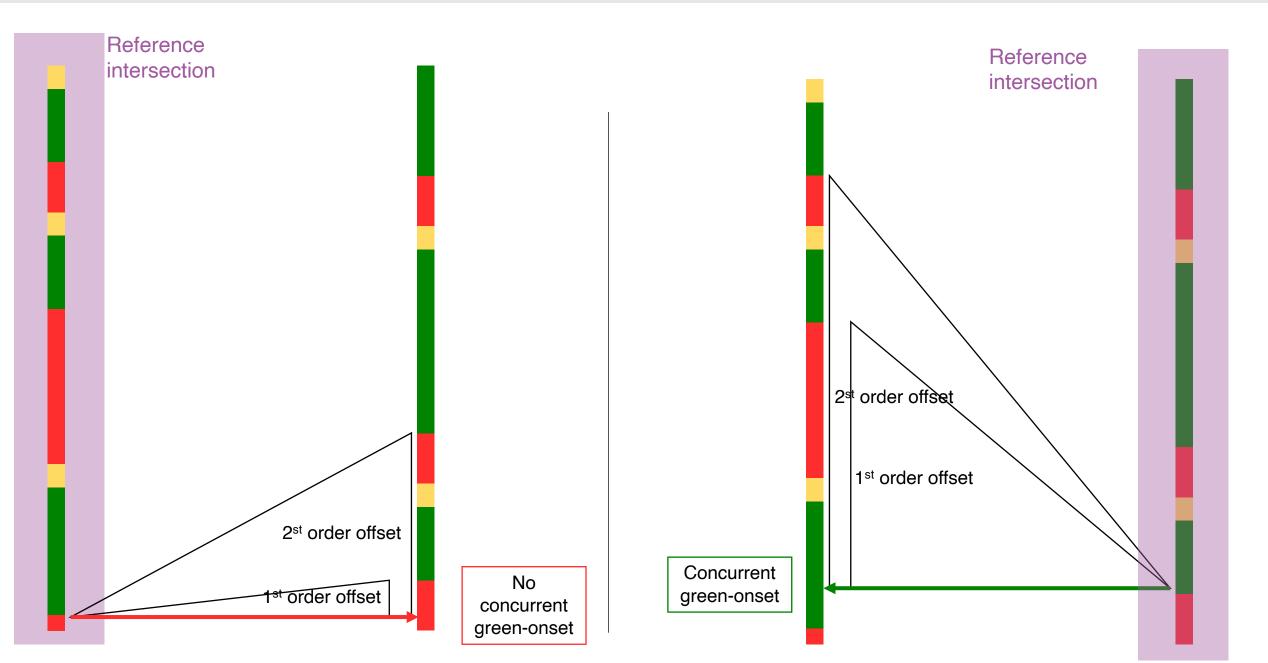


General

- Offset time, also called offset, is defined as the time difference between the green onsets of 2 adjacent intersections.
- Conventionally;
 - Offset time is travel time for driving from an intersection to the adjacent one at an assumed speed.
 - Onsets of green times of the two intersections are separated by the offset to establish green waves.
 - It is a-priori information (based on progressive speed) for signal coordination calculation: not a metric.
- In non-cyclic control, this value keeps changing.
 - It is seen as a metric here, and we would like to evaluate it.









Additional

- An additional metric is setup for greater understanding of coordination
- This metric definition is based on the travel time (cyclic offset) between the two intersections at an assumed progressive speed.
- Usable green time is the remaining green time of the corresponding offset stage after the green wave arrives.





