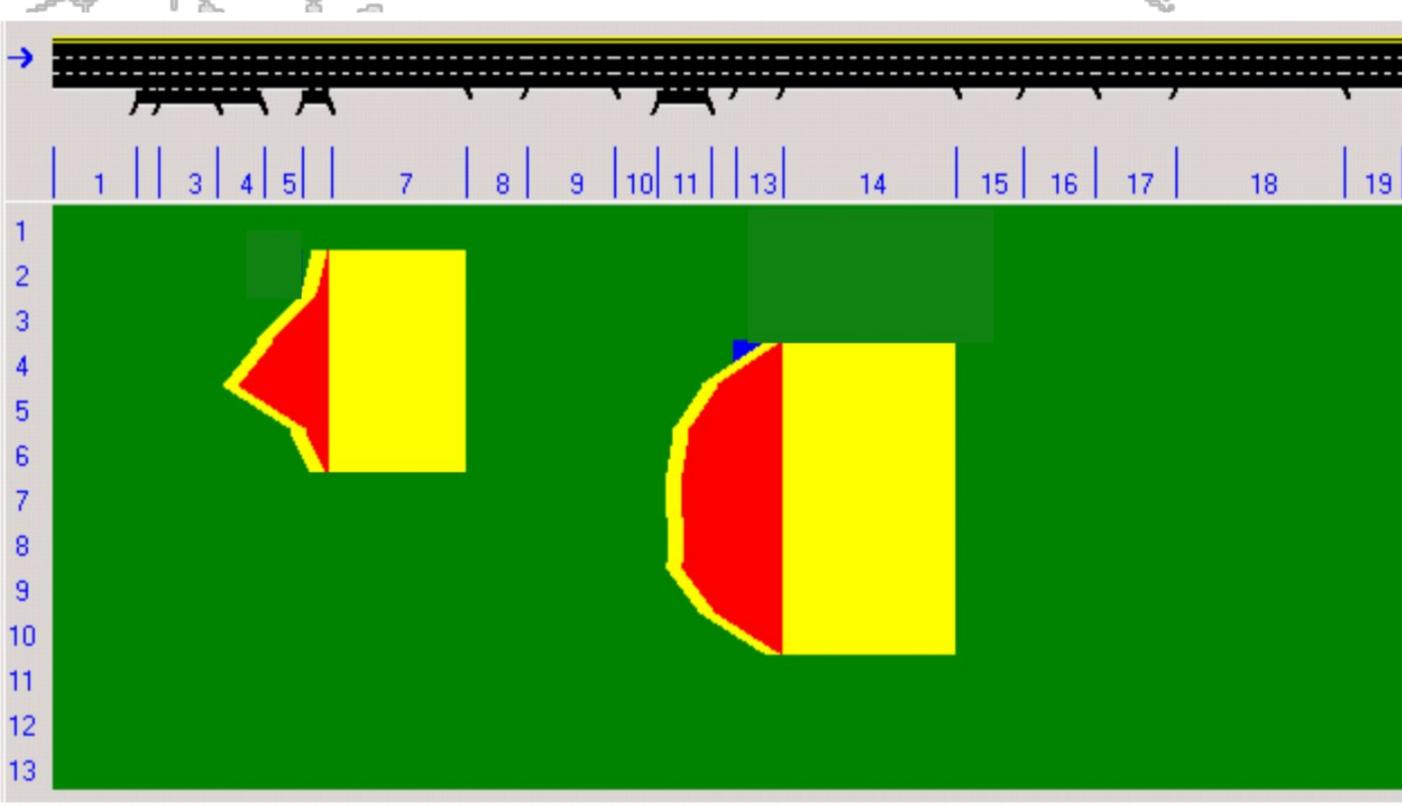
FREEWAY CORRDOR MODELING

Intelligent Transportation Systems

Team: Bingyi Fan, Yingying Chen

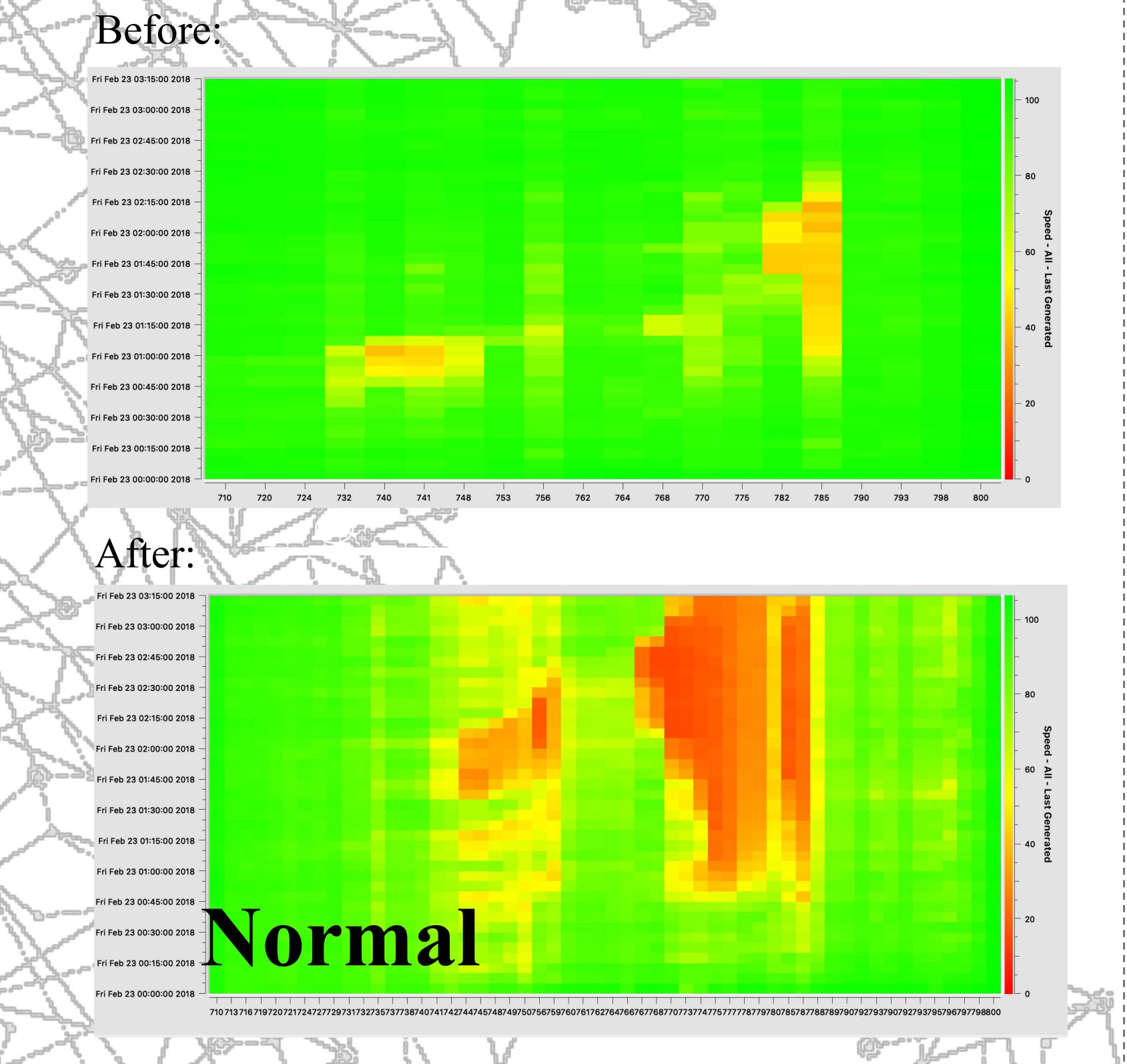


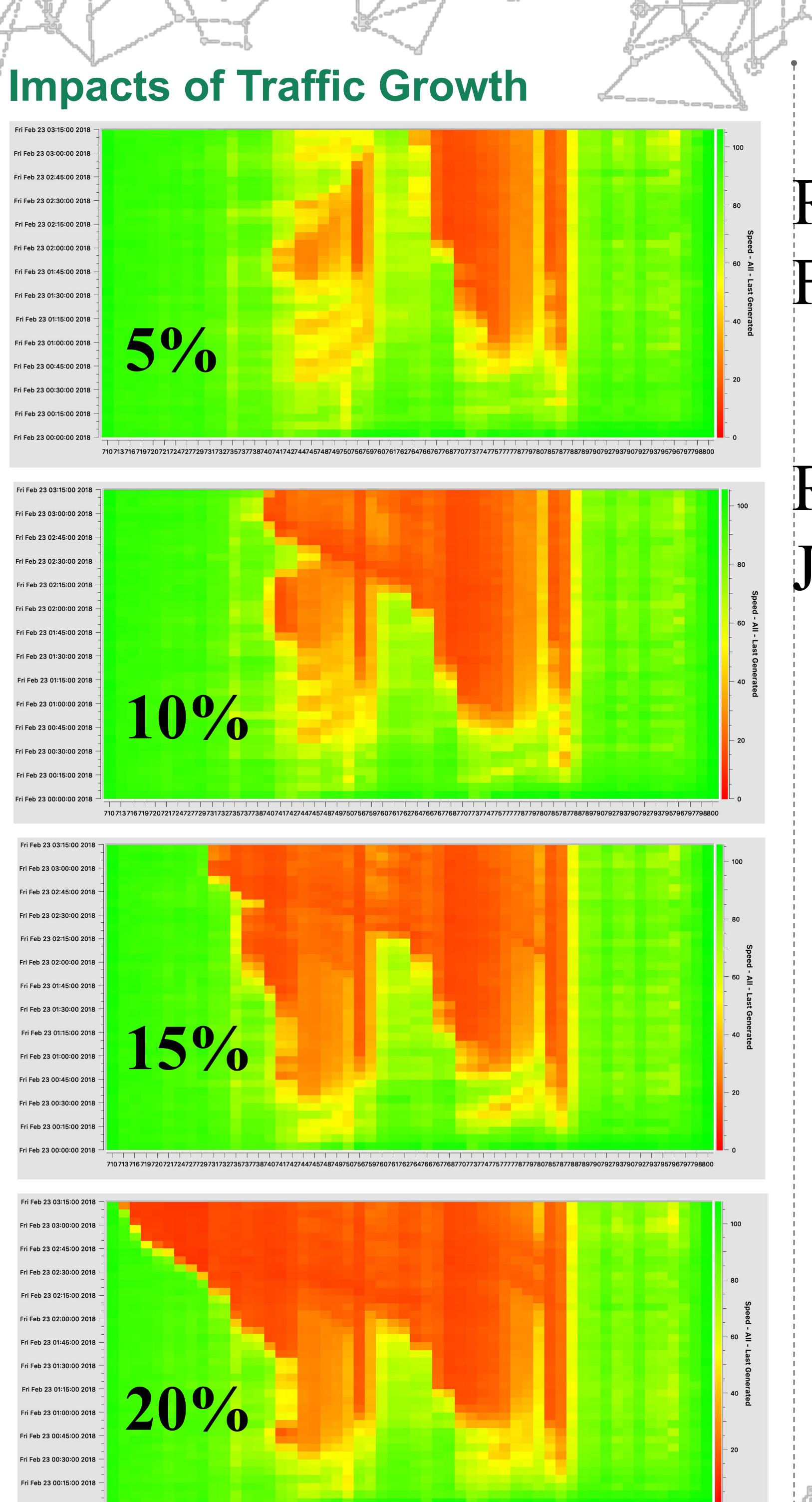
Study Section



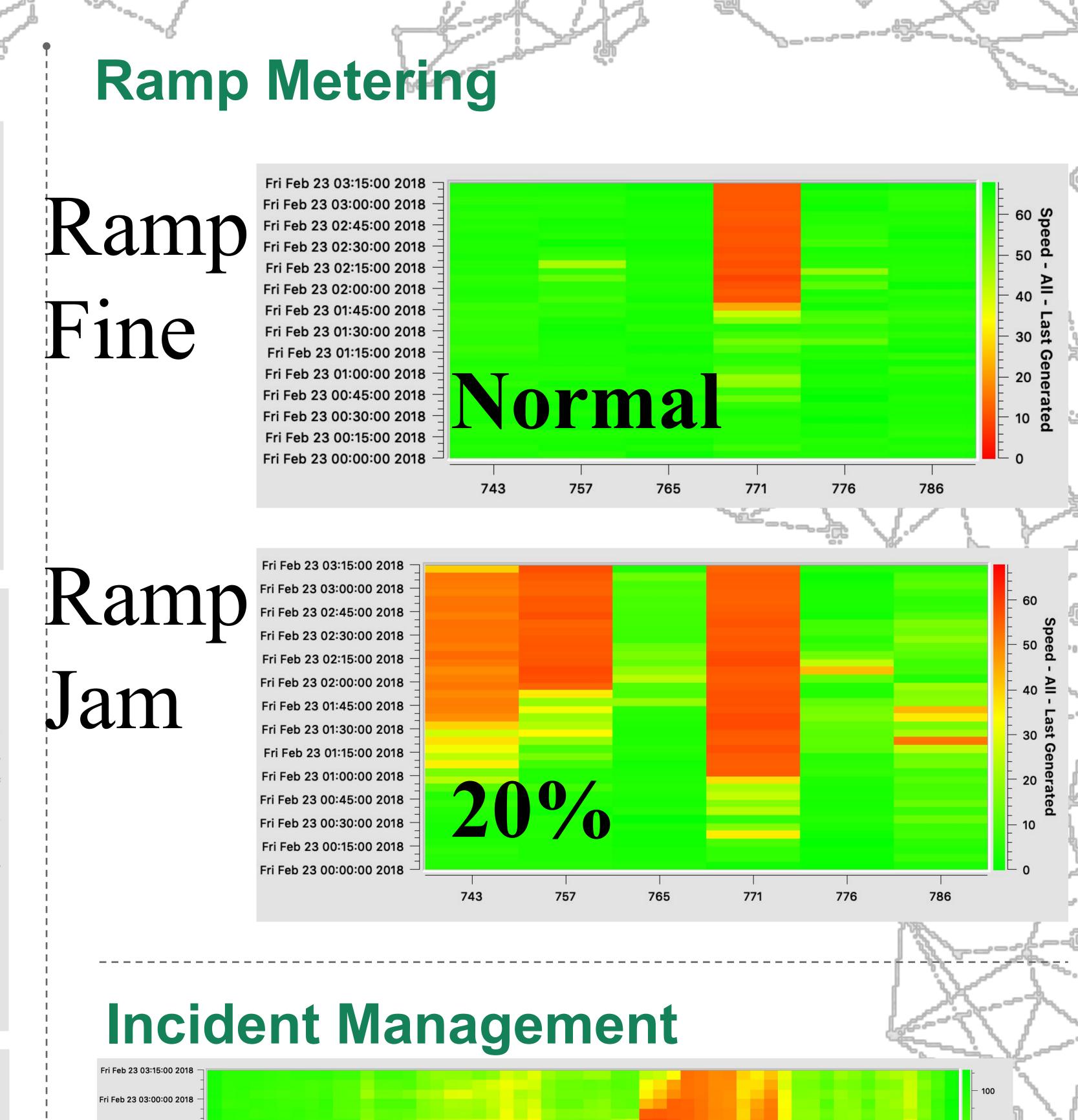
Model Calibration

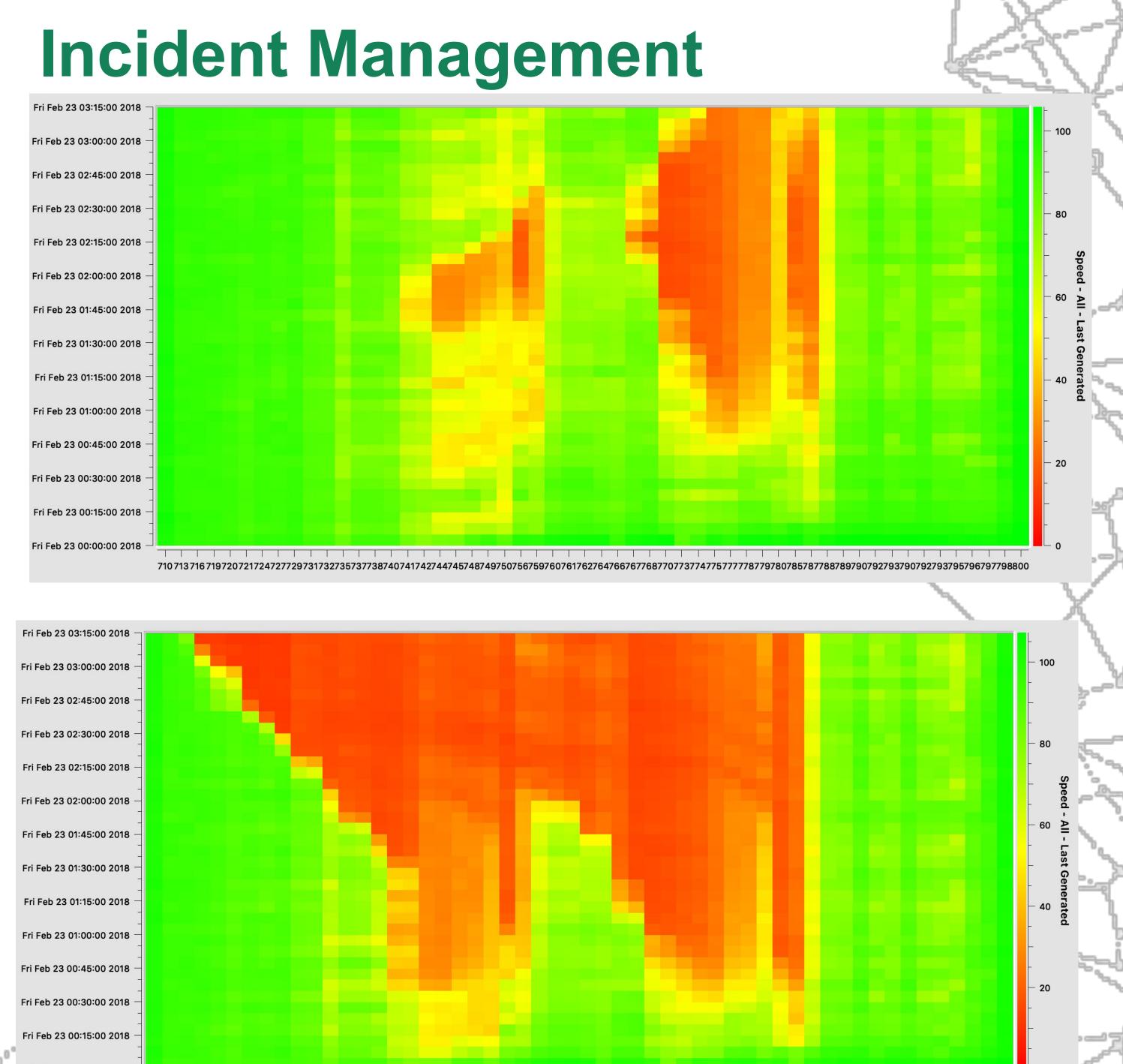
Modified the parameters such as acceleration / deceleration, and parameters of the car following model including gap and sensitivity factor.





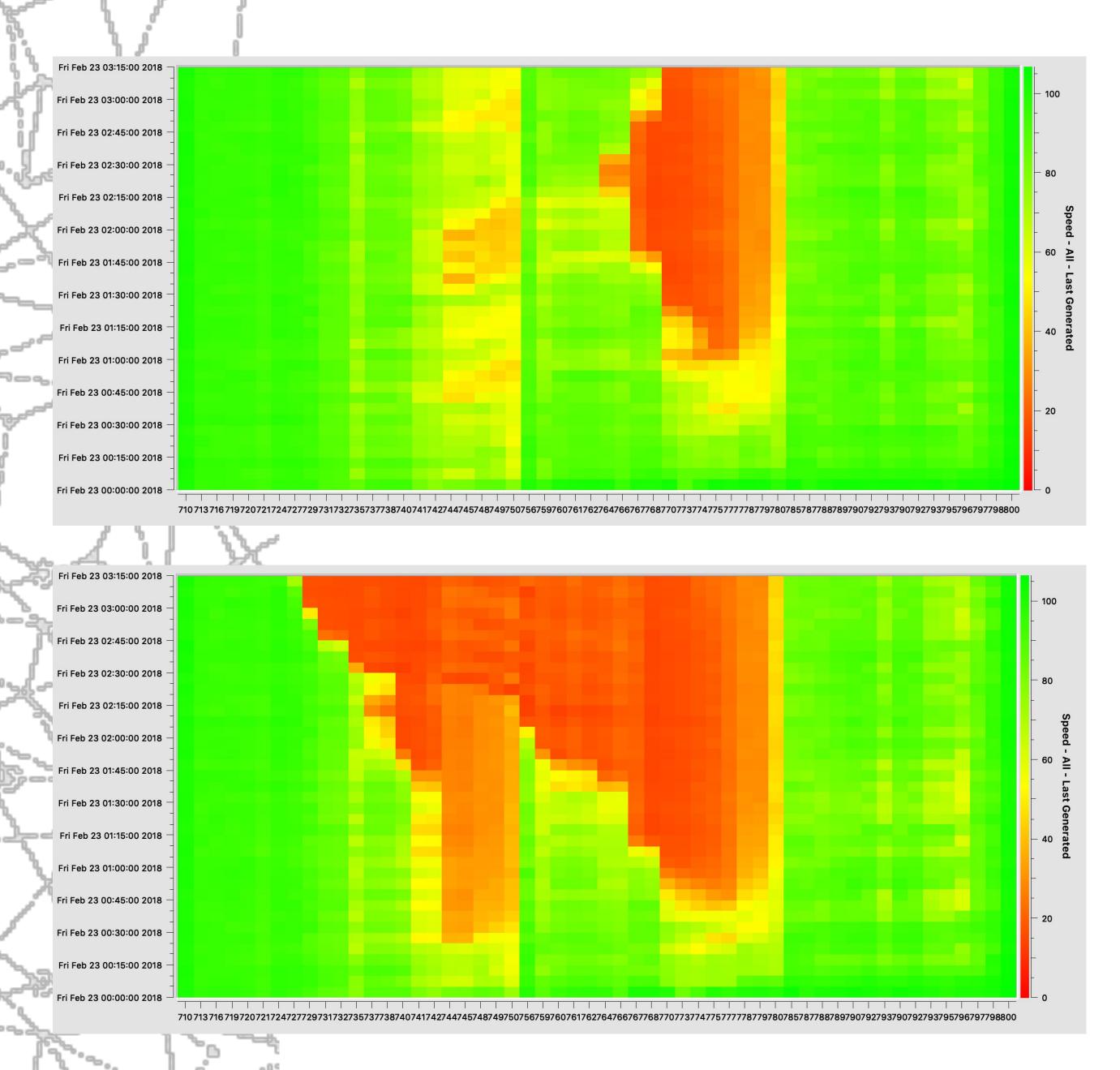
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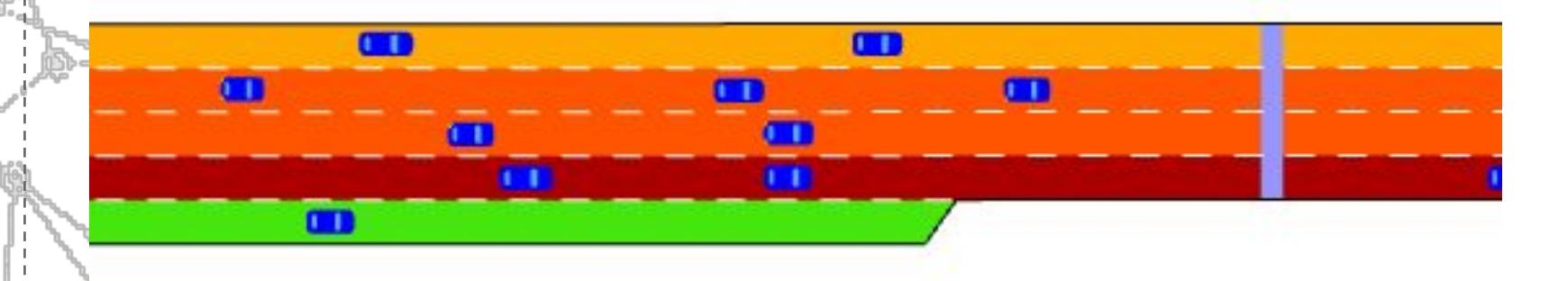


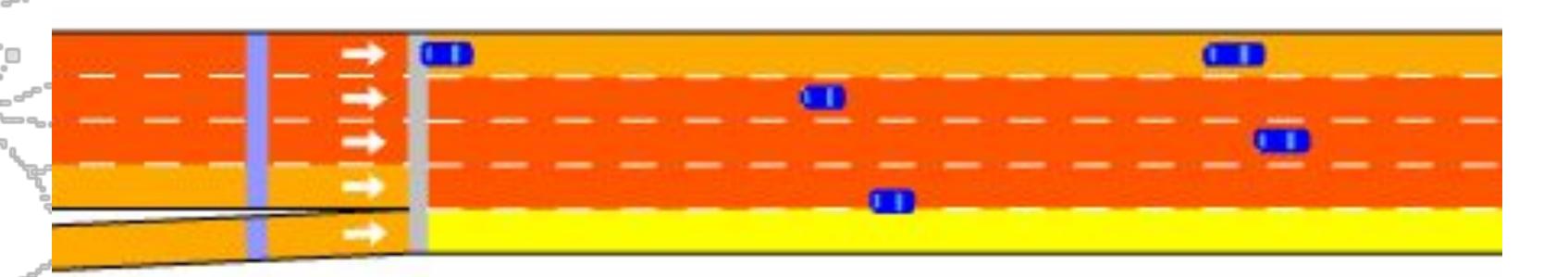


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Geometric Expansion







Concluding Remarks

Ramp metering and geometric expansion can substantially mitigate highway congestion during rush hours.
A good incident management plan has a significant but less substantial impact.