

Optimization Max : Fury Road

# 최적화 맥스 : 분노의 도로

- 도로 위 살아있는 교통 정보-

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팀원 : 박상희, 전해성, 조원일, 채희선



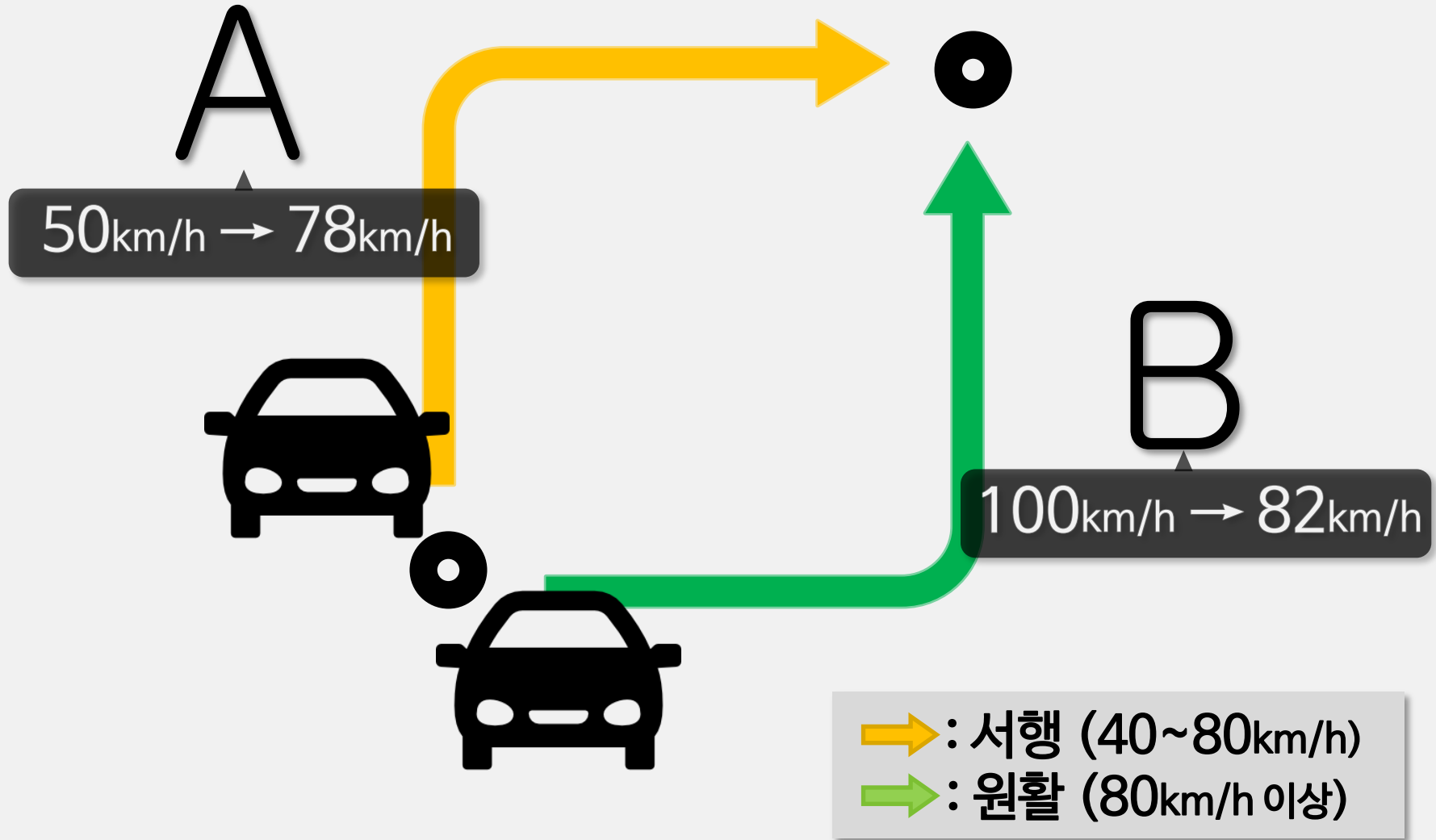
\* Traffic Flow  
VISUALIZATION

\* Traffic Flow Trend  
ANALYSIS

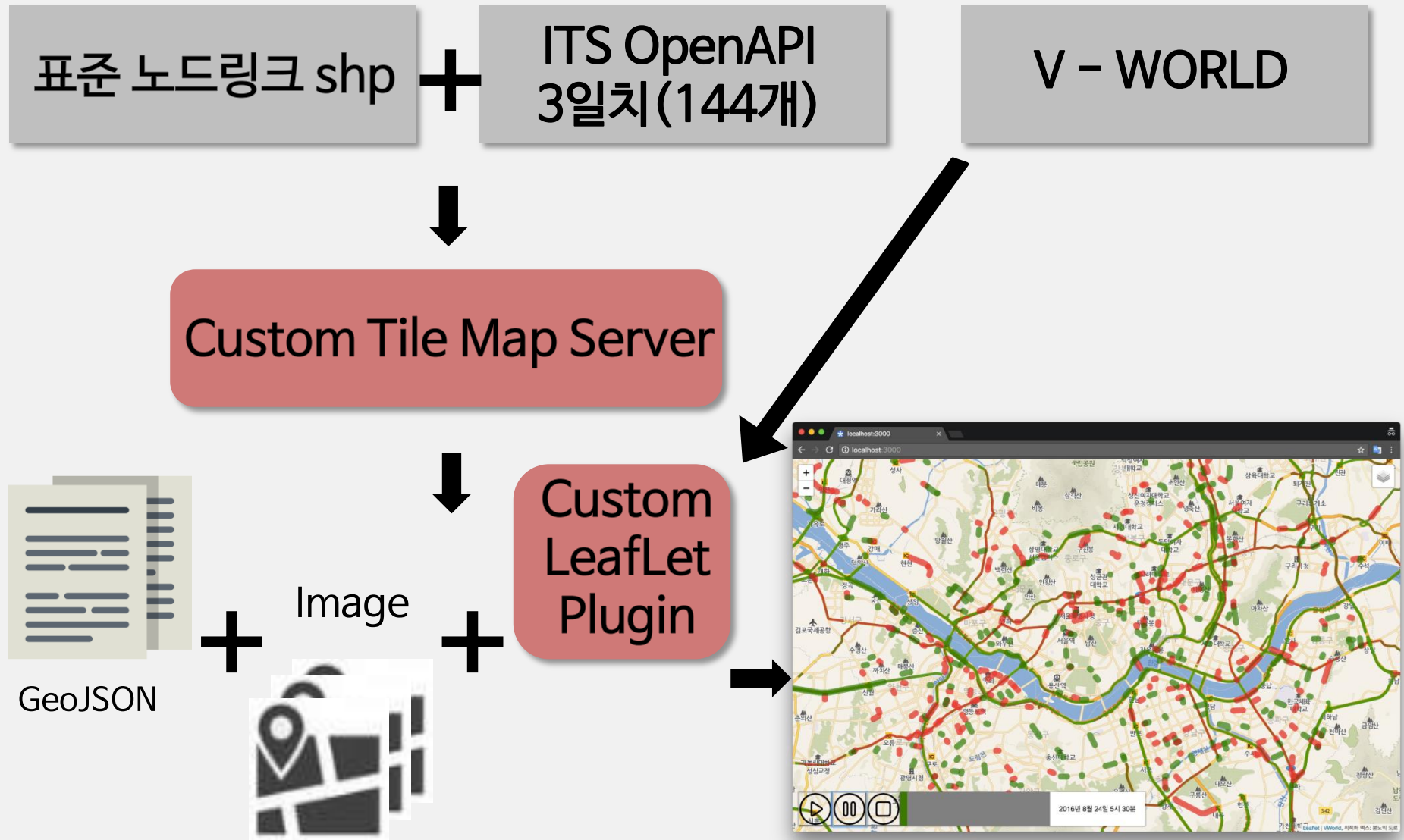
\* Traffic Flow Trend  
FORECAST



## 01 QUESTION

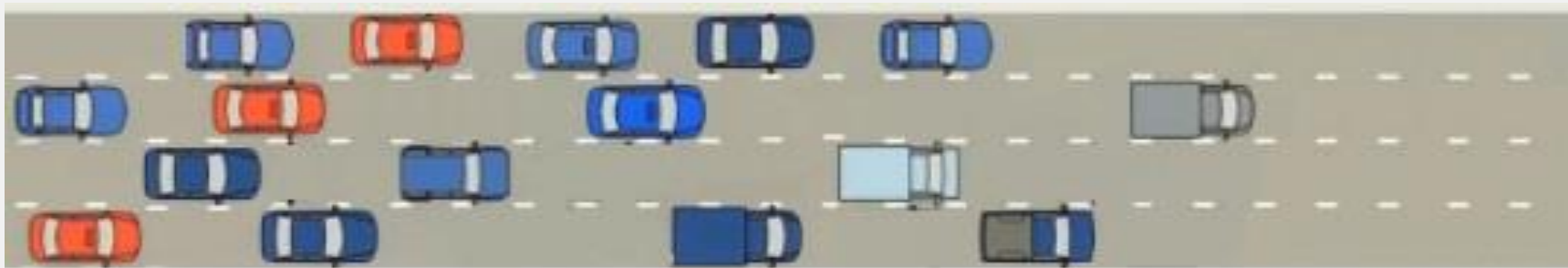
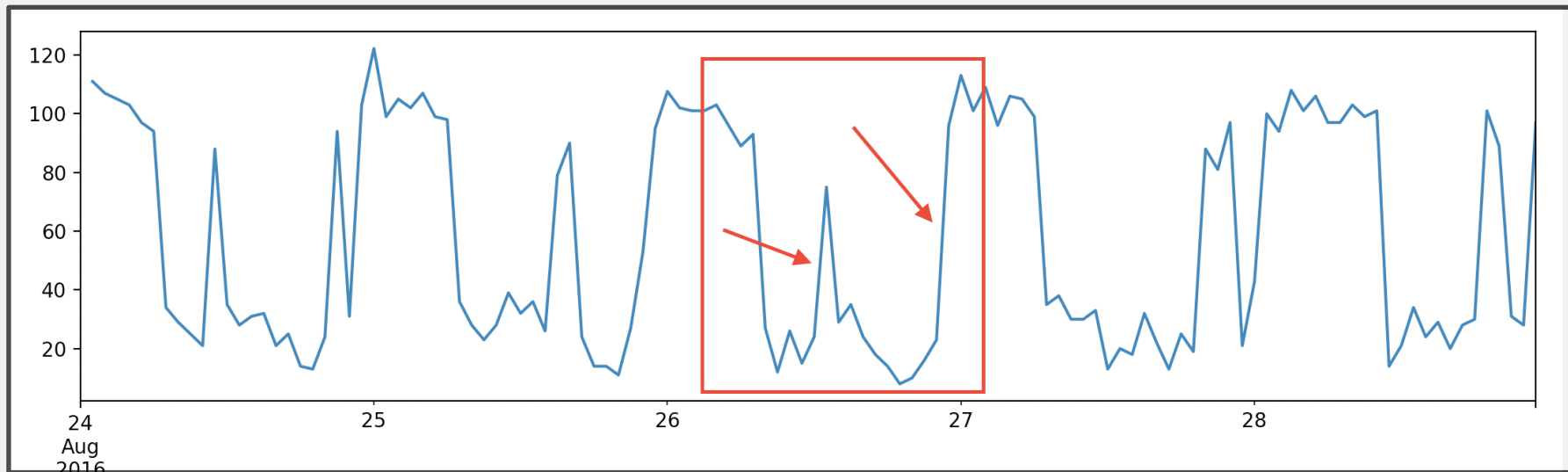


## 02 Traffic Flow VISUALIZATION



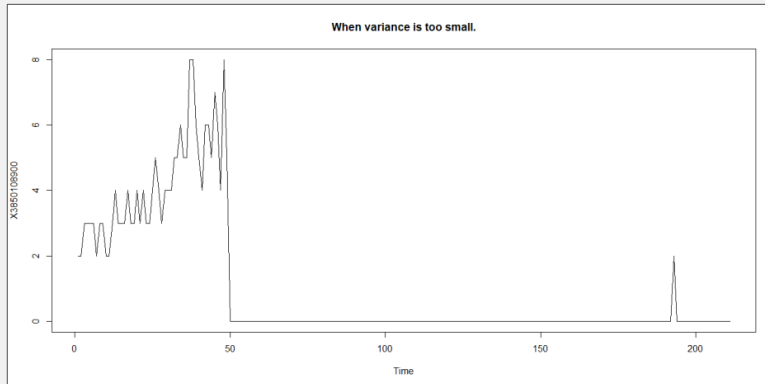
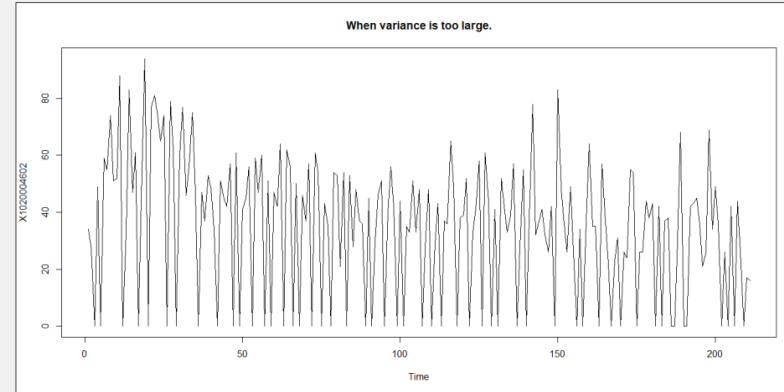
## 03 Traffic Flow Trend ANALYSIS

Q. “교통 흐름 경향”이란?



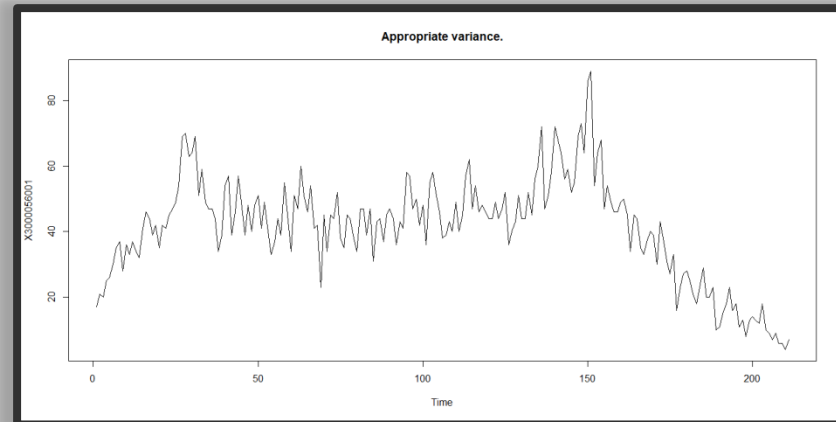
## 04 Traffic Flow Trend FORECAST

large variance



small variance

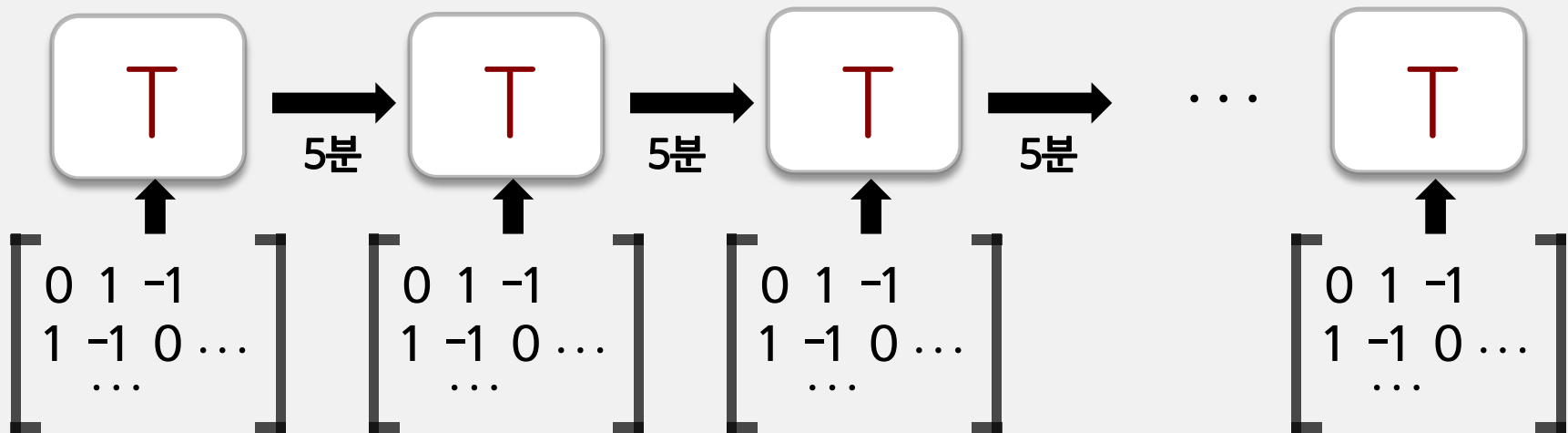
appropriate  
variance



## 04 Traffic Flow Trend FORECAST

### \* RNN (LSTM)

Google Cloud 사용



Input Dimension = 599

Sequence = 6

Hidden Layer = 1000

Iteration = 500

70% train set, 30% test set

## 04 Traffic Flow Trend FORECAST

**\* Confusion Matrix**

		predicted			
		-1	0	1	total
actual	-1	9752	7190	2859	19806
	0	5151	11096	3894	20141
	1	4896	7681	6782	19359



 DEMO



## 정부

- 전 국토 도로망 컨트롤 타워
- 지방 정부 간 협력 체계 구축
- 스마트한 교통 환경 제공

## 기업

- 차량 간 실시간 정보 공유
- “교통 흐름 경향” 변수 고려  
→ 교통정보 연산 고도화

## 거버넌스

## 국민

최적화된 솔루션, 편리하고  
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**Q & A**

