

CITY OF PITTSBURGH



- ★ MODELING THE CENTRAL BUSINESS DISTRICT IN DOWNTOWN PITTSBURGH
- ★ ENCOMPASSING DIFFERENT ASPECTS OF A DOWNTOWN AREA LIKE PEDESTRIANS, BICYCLES AND THE INTERACTION OF PUBLIC TRANSPORTATION WITH VEHICULAR TRAFFIC

I-95 Sector B



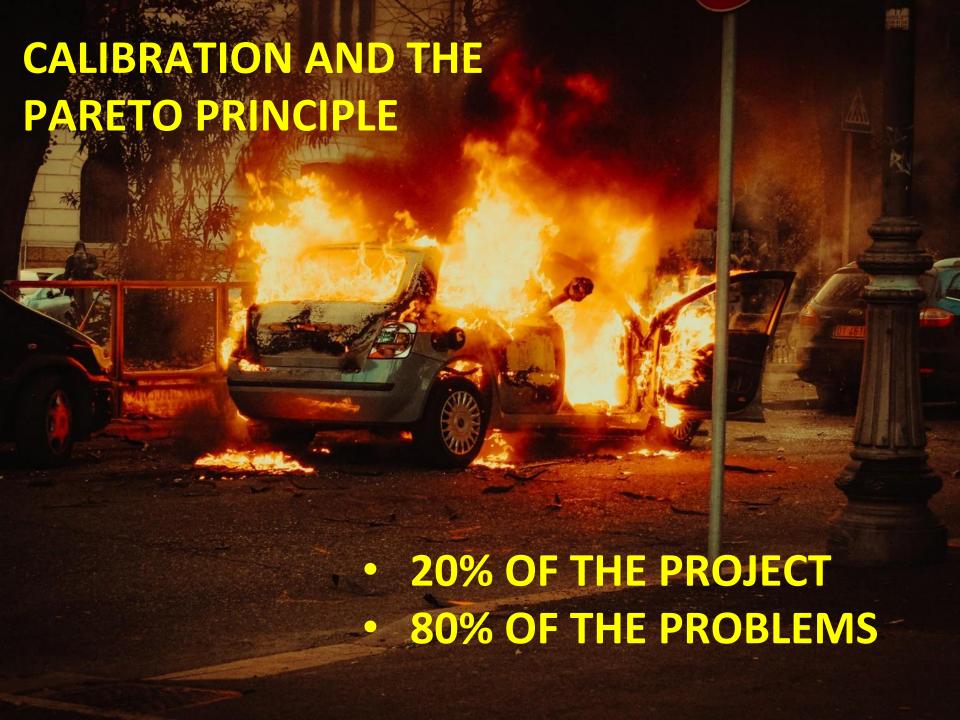
- ★ INCLUDES THE MAJOR HIGHWAYS AROUND PHILADELPHIA (I-95,I-76,I-676)
- ★ WILL HELP DETERMINE NEW RAMP CONFIGURATIONS

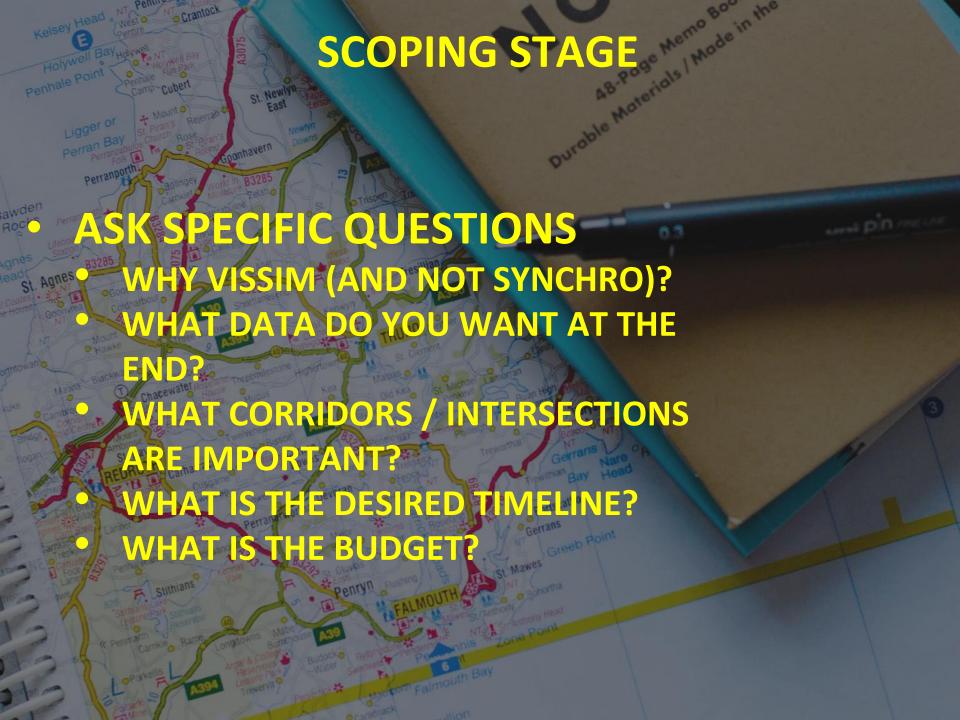
I-95 Sector B



CALIBRATION PROCESS OVERVIEW

- 1. SCOPE WITH CALIBRATION IN MIND
- 2. DATA / EXPERIENCE IS KEY
- 3. FOLLOW THE PLAN, FLEXIBLY





EXPERIENCE IS KEY

FIND SOMEONE WHO IS:

• EXPERIENCED IN TYPE OF VISSIM MODEL

• A WILLING EACHER

ABLE TO MANAGE TRICKY SITUATIONS

EXPERIENCE IS KEY

REACH YOUR CALIBRATION
 DESTINATION BEFORE THE STORM OF DEADLINES

PLAN FOR THE UNKNOWN

• THERE ARE NO PERFECT MODELS

DATA IS KEY

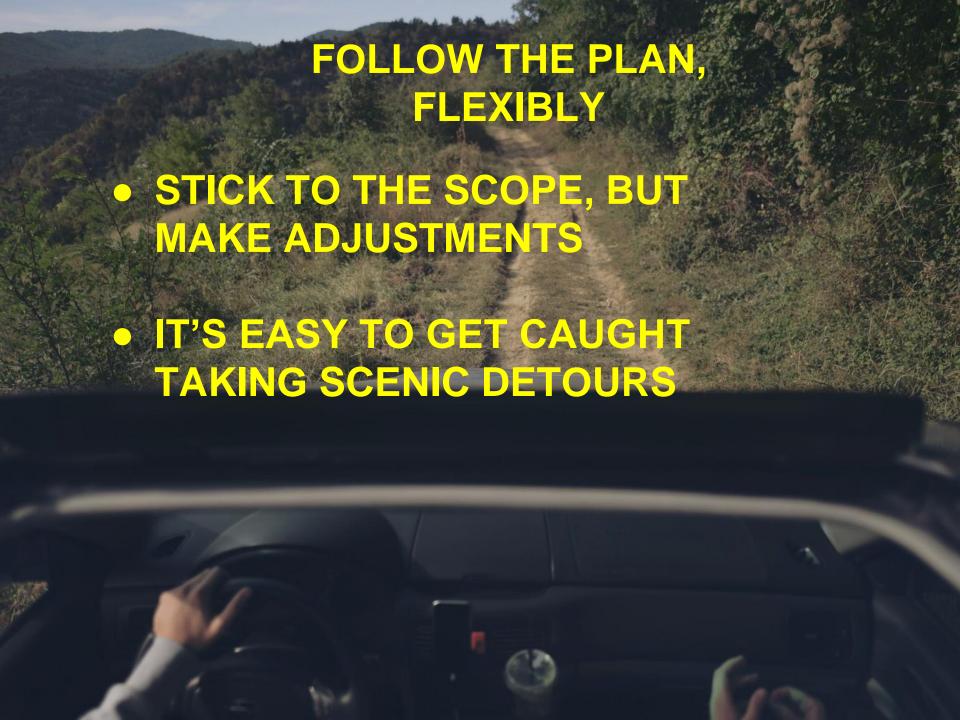
• DATA IS THE MOST IMPORTANT ASPECT OF MICROSIMULATION CALIBRATION

- DECIDE EARLY:
 - WHAT DATA IS NEEDED
 - HOW IT WILL BE OBTAINED
 - CONFIRM WITH CLIENT

DATA IS KEY

- SIMPLE CALIBRATION
 - VOLUME, ORIGIN-DESTINATION, TRAVEL TIME
- INTENSIVE CALIBRATION
 - QUEUING, SPEED, LANE UTILIZATION, VEHICLE BEHAVIORS





WHEN IS CALIBRATION REACHED?

NO MODEL IS CALIBRATED UNLESS YOU WATCH IT



Without Priority rules



Existing Conditions



Looking left from off-ramp



Priority rules



Local knowledge of queues is obtained with proper use of priority rules



LOCAL KNOWLEDGE IS KEY

- Truck Composition
- Transit Stop Lengths
- Driver Behavior
- Pedestrian Compliance rate for crosswalks

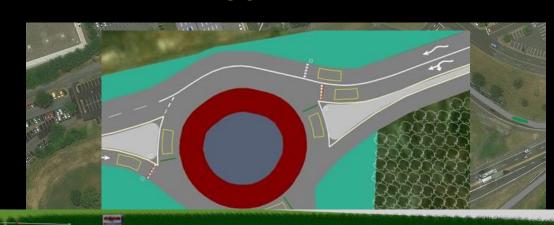


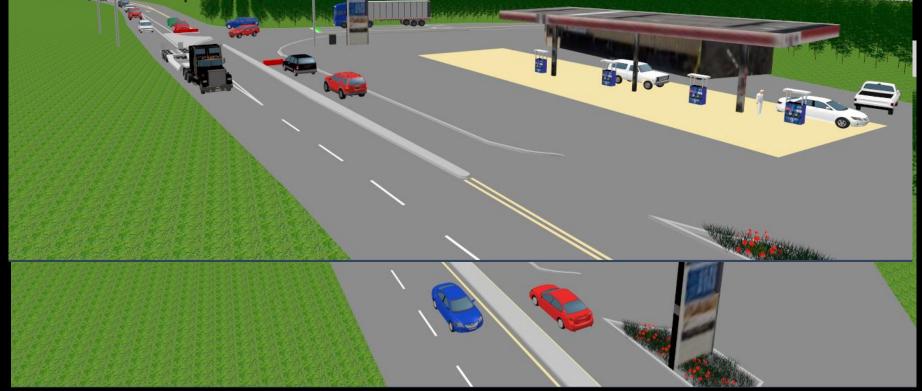
Misc

★ Bioatigingousts

Bliawnond

Interchange







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