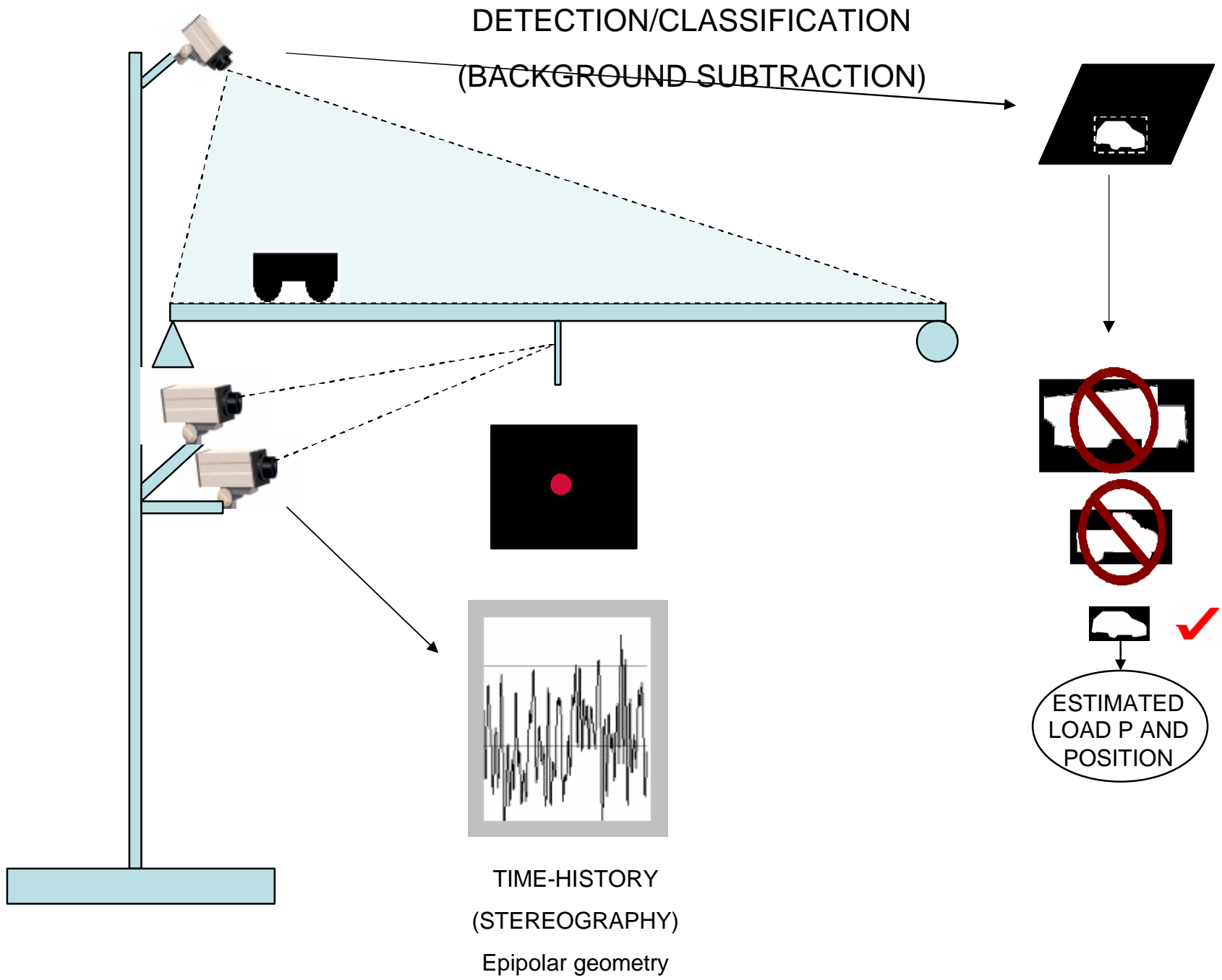


VISION MODULE

- OBJECT DETECTION (VIDEO)
 - DETECTION
 - TRACKING(Speed-Direction)
 - IDENTIFICATION(Vehicle Type)

- DIRECT DISPLACEMENT MEASURING
 - VIDEO. (STEREO)
 - LASER DOPPLER VIBROMETER



DETECTION/CLASSIFICATION
(BACKGROUND SUBTRACTION)

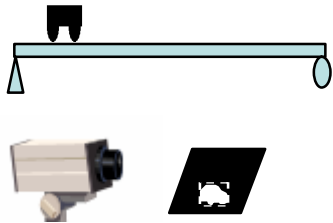
TIME-HISTORY
(STEREOGRAPHY)
Epipolar geometry

ESTIMATED
LOAD P AND
POSITION

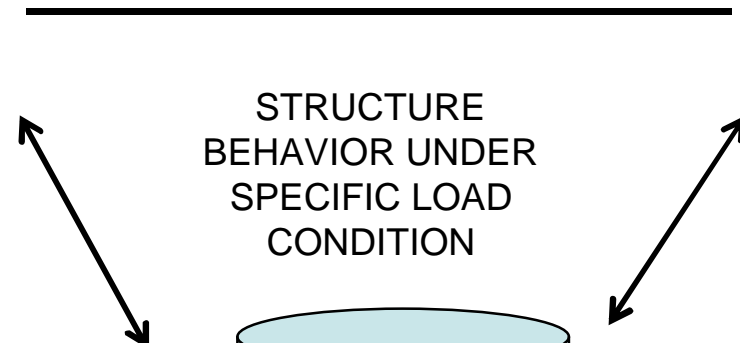


VISION/SENSORS TRAINING FASE

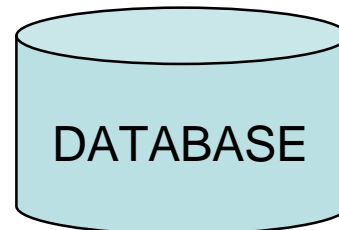
VEHICLE DETECTION
(POSITION AND TYPE)



SENSORS READINGS



STRUCTURE
BEHAVIOR UNDER
SPECIFIC LOAD
CONDITION



CALIBRATION



F.E.M.

OTHER DATA

CALIBRATION

