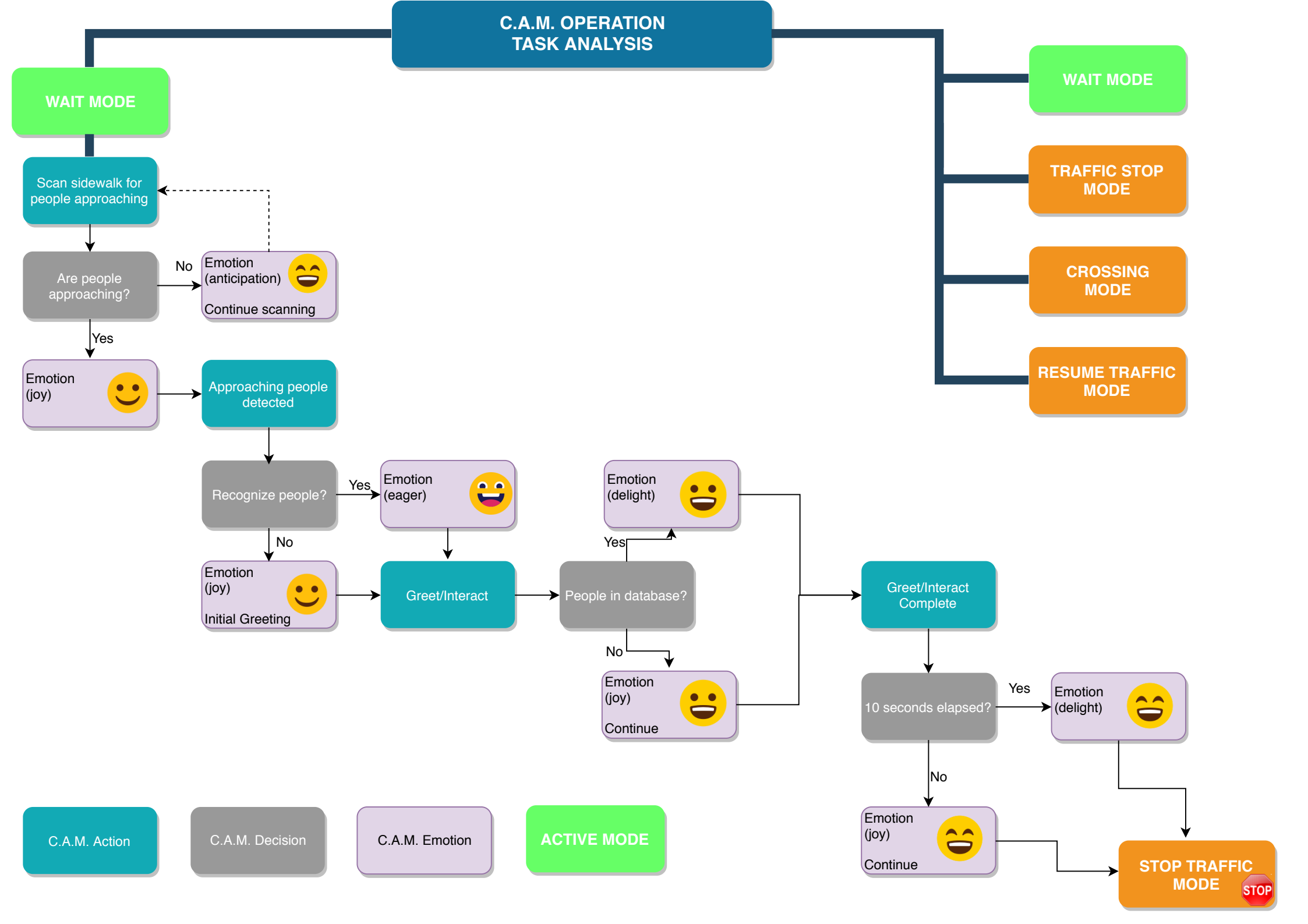
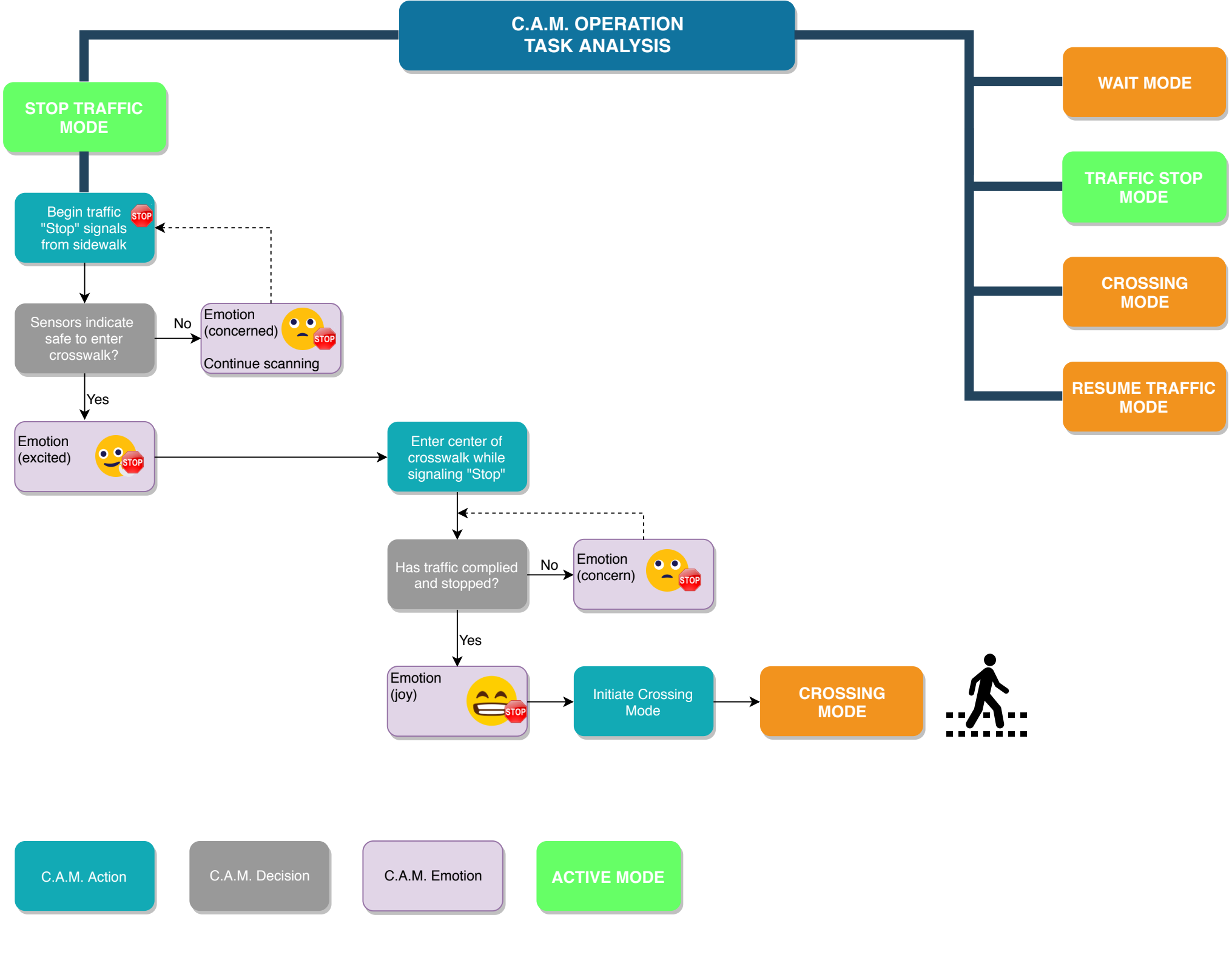
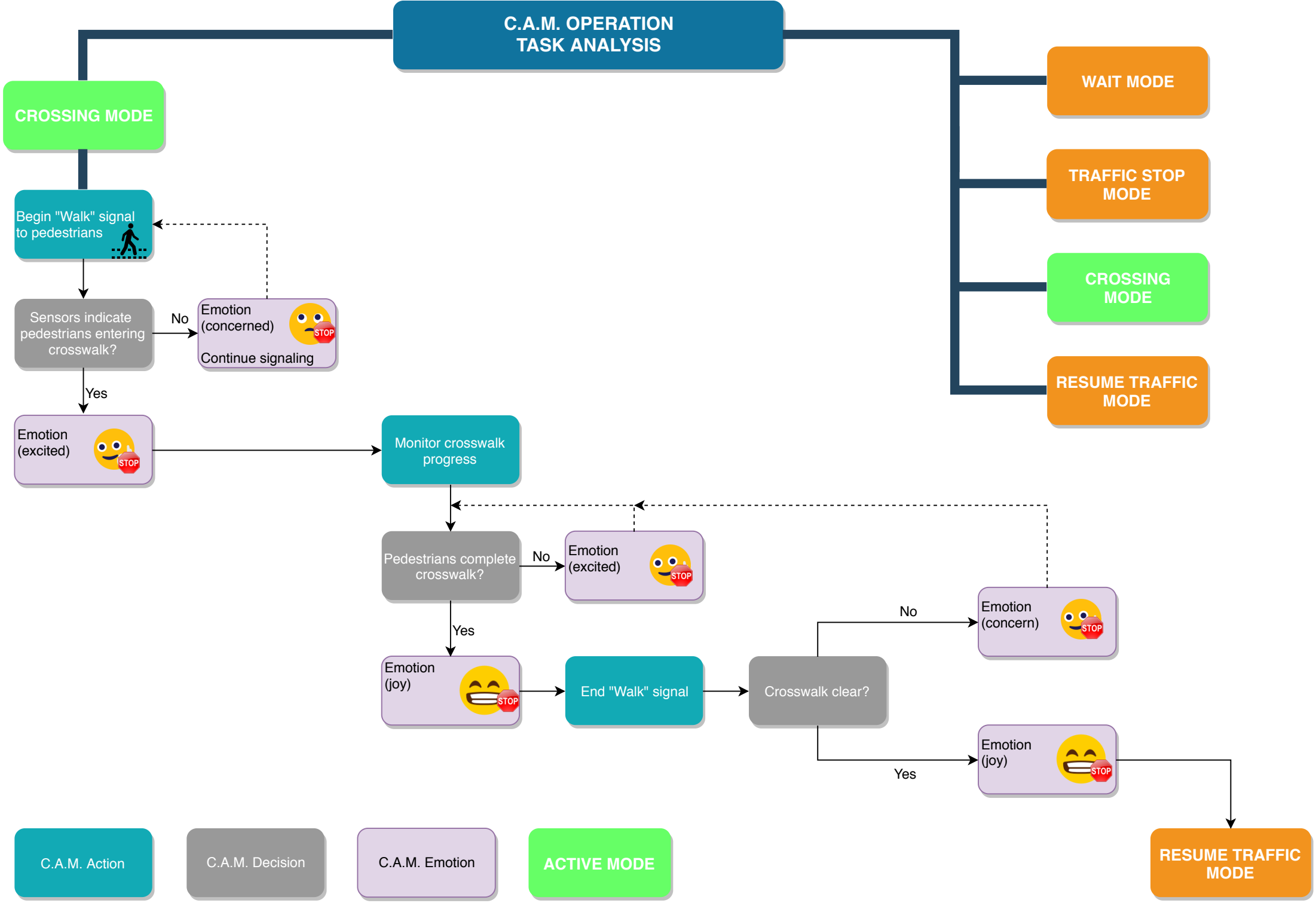
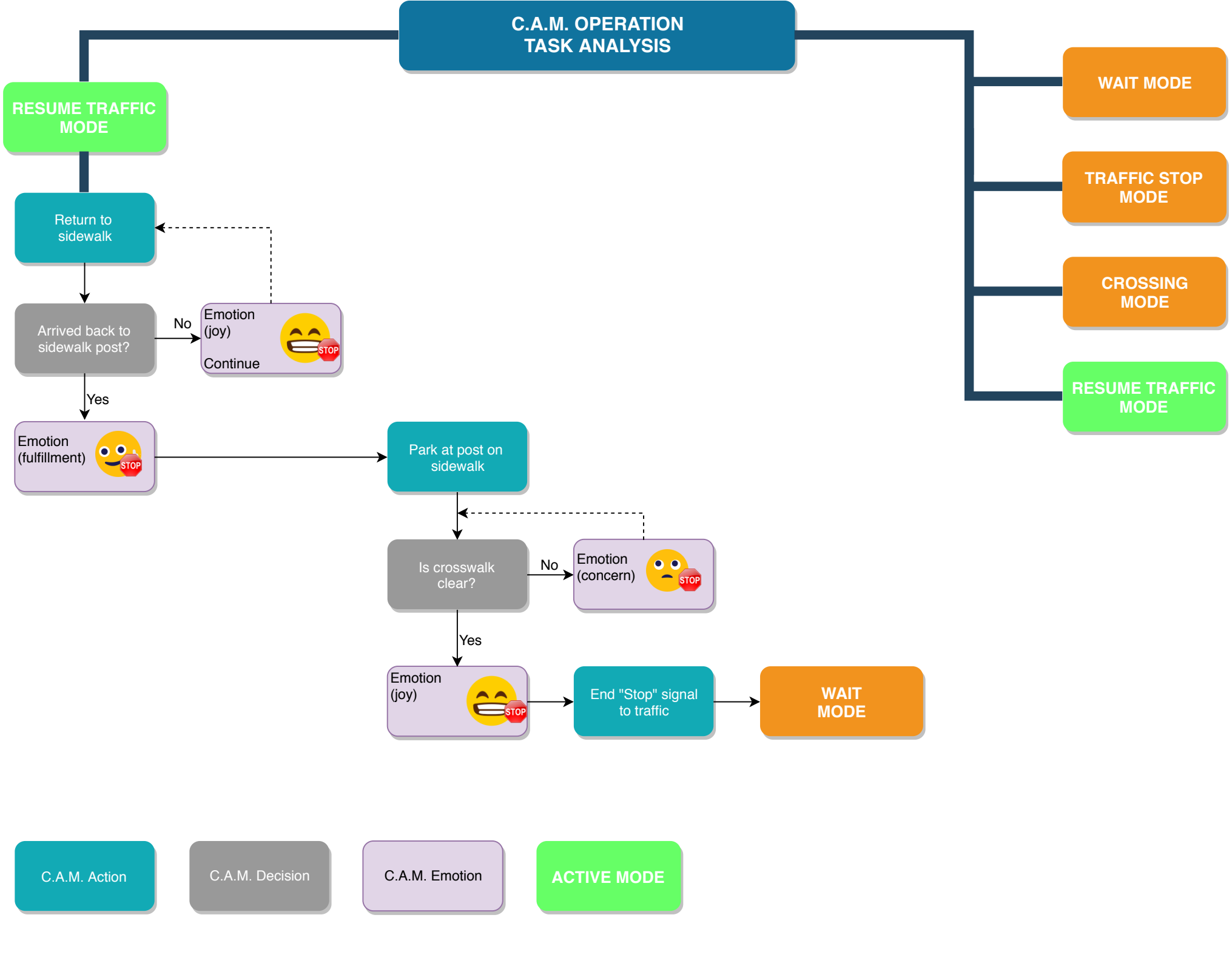

C.A.M. OPERATION TASK ANALYSIS
WAIT MODE
TRAFFIC STOP MODE
CROSSING MODE
RESUME TRAFFIC MODE
WAIT MODE
Scan sidewalk for people approaching
Are people approaching?
No
Emotion (anticipation)
Continue scanning
Yes
Emotion (joy)
Approaching people detected
Recognize people?
Yes
Emotion (eager)
No
Emotion (joy)
Initial Greeting
Greet/Interact
People in database?
Yes
Emotion (delight)
No
Emotion (joy)
Continue
Greet/Interact Complete
10 seconds elapsed?
Yes
Emotion (delight)
No
Emotion (joy)
Continue
STOP TRAFFIC MODE
STOP
C.A.M. Action
C.A.M. Decision
C.A.M. Emotion
ACTIVE MODE


C.A.M. OPERATION TASK ANALYSIS
STOP TRAFFIC MODE
Begin traffic "Stop" signals from sidewalk
Sensors indicate safe to enter crosswalk?
No
Emotion (concerned)
Continue scanning
Yes
Emotion (excited)
Enter center of crosswalk while signaling "Stop"
Has traffic complied and stopped?
No
Emotion (concern)
Yes
Emotion (joy)
Initiate Crossing Mode
CROSSING MODE
WAIT MODE
TRAFFIC STOP MODE
CROSSING MODE
RESUME TRAFFIC MODE
C.A.M. Action
C.A.M. Decision
C.A.M. Emotion
ACTIVE MODE


C.A.M. OPERATION TASK ANALYSIS
CROSSING MODE
WAIT MODE
TRAFFIC STOP MODE
CROSSING MODE
RESUME TRAFFIC MODE
Begin "Walk" signal to pedestrians
Sensors indicate pedestrians entering crosswalk?
No
Emotion (concerned)
Continue signaling
Yes
Emotion (excited)
Monitor crosswalk progress
Pedestrians complete crosswalk?
No
Emotion (excited)
Yes
Emotion (joy)
End "Walk" signal
Crosswalk clear?
No
Emotion (concern)
Yes
Emotion (joy)
RESUME TRAFFIC MODE
C.A.M. Action
C.A.M. Decision
C.A.M. Emotion
ACTIVE MODE


C.A.M. OPERATION TASK ANALYSIS
RESUME TRAFFIC MODE
Return to sidewalk
Arrived back to sidewalk post?
No
Emotion (joy)
Continue
STOP
Yes
Emotion (fulfillment)
STOP
Park at post on sidewalk
Is crosswalk clear?
No
Emotion (concern)
STOP
Yes
Emotion (joy)
STOP
End "Stop" signal to traffic
WAIT MODE
WAIT MODE
TRAFFIC STOP MODE
CROSSING MODE
RESUME TRAFFIC MODE
C.A.M. Action
C.A.M. Decision
C.A.M. Emotion
ACTIVE MODE