

# Road to Connected and Automated Driving



**John Capp**

Director, Electrical & Controls Research  
& Active Safety Technology Strategy





# AUTONOMOUS DEMOS



# THE OPPORTUNITY

## Crashes / Human Errors



## Aging / Disabled



## Congestion / Time



# EARLY GM AUTOMATED VEHICLES



# NOVEMBER 3, 2007: "BOSS" WINS DARPA URBAN CHALLENGE

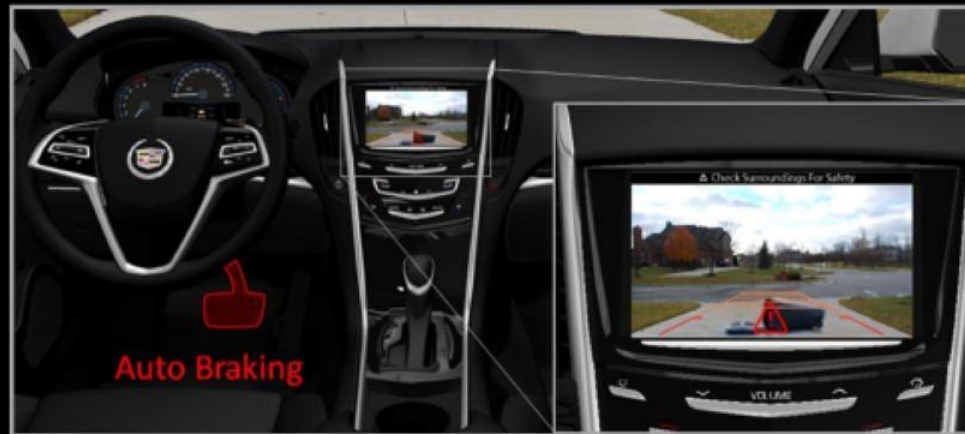
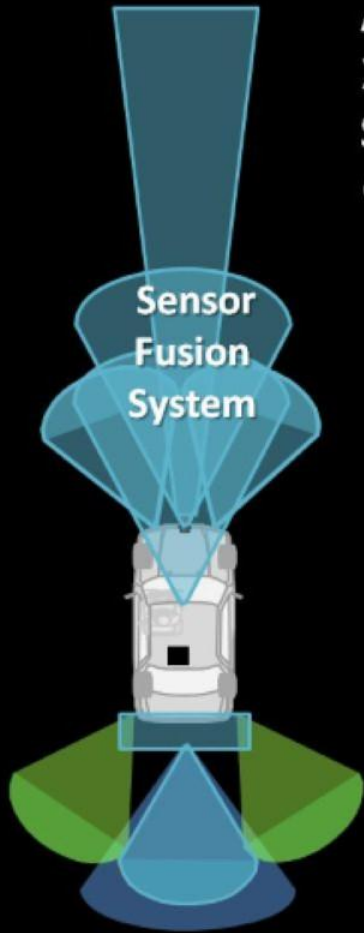


# TODAY'S TECHNOLOGIES



# CADILLAC DRIVER ASSIST

ATS  
XTS  
SRX  
CTS



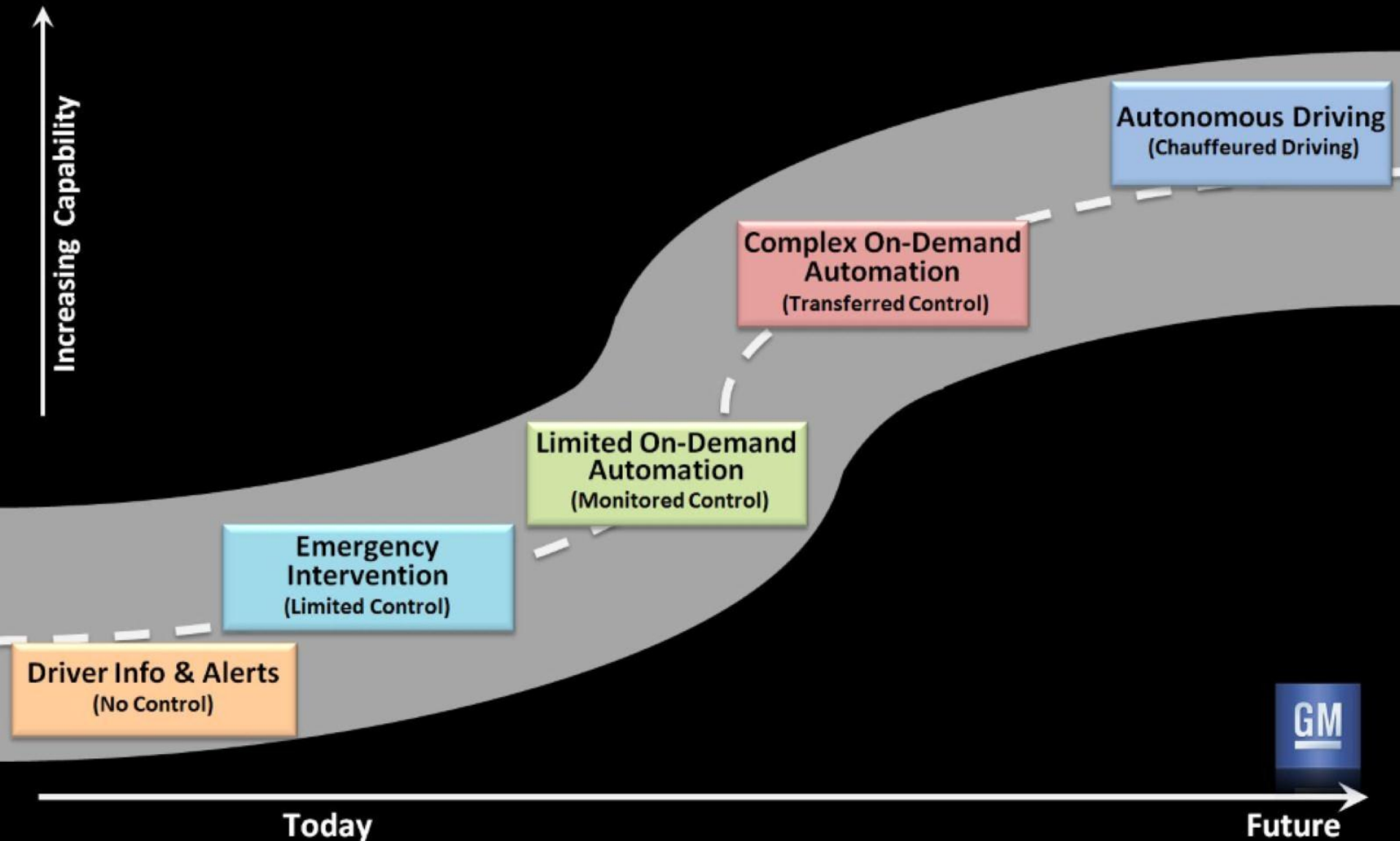


# NEXT STEP: SUPERCUISE





# ROAD TO AUTOMATED DRIVING

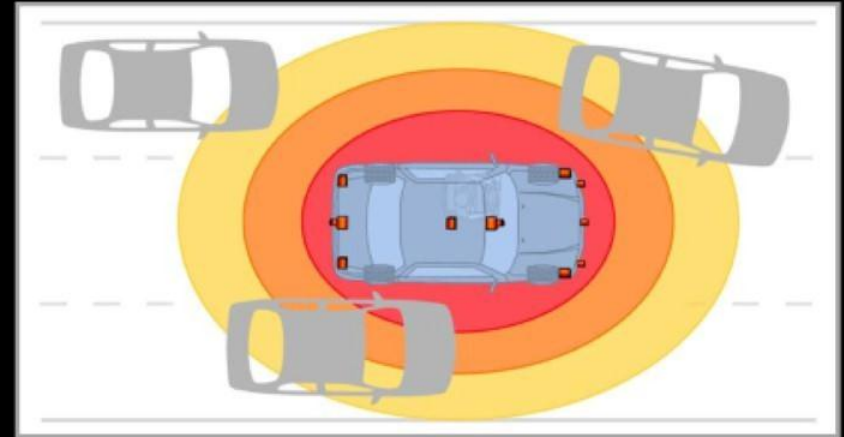


# INTEGRATED SYSTEMS APPROACH

## 360° Sensing



## Sensor Fusion



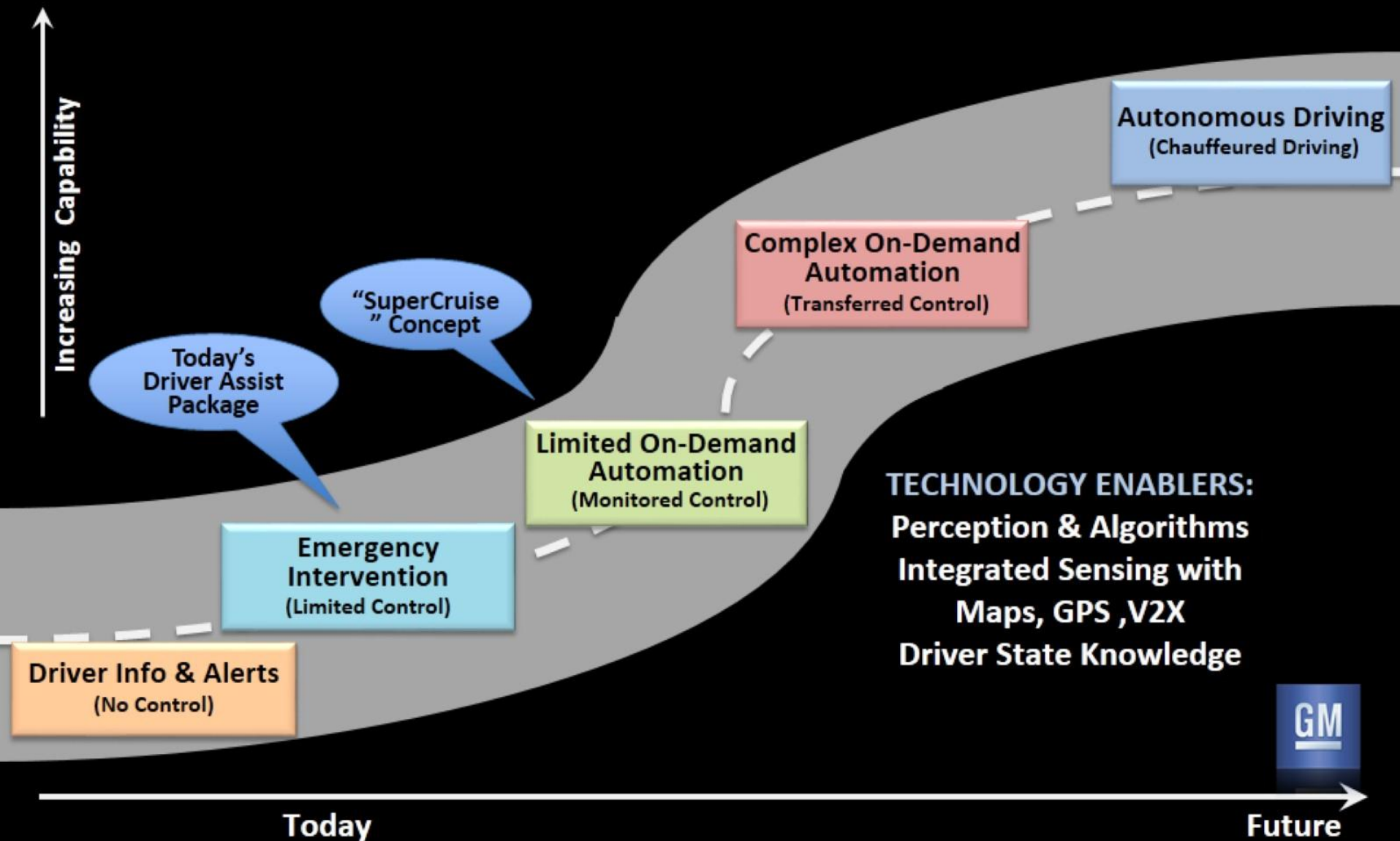
## Maps / GPS



## V2V / V2I Integration



# ROAD TO AUTOMATED DRIVING



GM

THANK YOU

