# Ford Motor Company Autonomous Vehicles

### Colm Boran

### Autonomous Vehicle Systems Engineering



## **SAE Automation Levels**

Operating Domain	May Be Limited					Unlimited
Driver's Role	Perform or Supervise Driving Tasks			Fallback (Ab. Cond.)	Driver Not Ro Automatio	equired While on Engaged
Sensing & Response	Partial Capability			Complete Capability		
Control	Warnings / Support	Lateral <u>OR</u> Longitudinal		Lateral <u>AND</u>	Longitudinal	
Automation Level	0	1	2	3	4	5





**Dual Approach** 



LiDAR Movie – Ann Arbor



### **Designed to Serve Millions of Customers**





Cold chamber facility movie





### Ford Product Development Process







### **The Importance of Collaboration**



