

**GDC**

March 21-25, 2022  
San Francisco, CA



# GAMING FOR CARS? YOU BET!

## CAR AUDIO CARDIO

## ROUNDTABLE

#GDC22



# Panelists

- Kurt Heiden - Bose Automotive - Sr. Product Communications Manager, Interactive Audio Special Interest Group (IASIG) - Chair
- Brett Crockett - Dolby - Vice President, Sound Technology R&D
- Francois Thibault - Audiokinetic - Senior Director, Innovation
- Athan Billias - MIDI Association - President



# Why this roundtable?

- The automotive industry is undergoing radical change
- Parallels to gaming
- Trends to watch
- Opportunities - (hardware, entertainment, tools)
- Audiokinetic, Bose and Dolby are all active in the auto industry
- MIDI evolution happening concurrently

# Influencing Factors (C.A.S.E.)

- Connectivity
- Autonomy
- Sharing
- Electrification





[https://www.youtube.com/watch?v=Ep-tlvql\\_j0](https://www.youtube.com/watch?v=Ep-tlvql_j0)

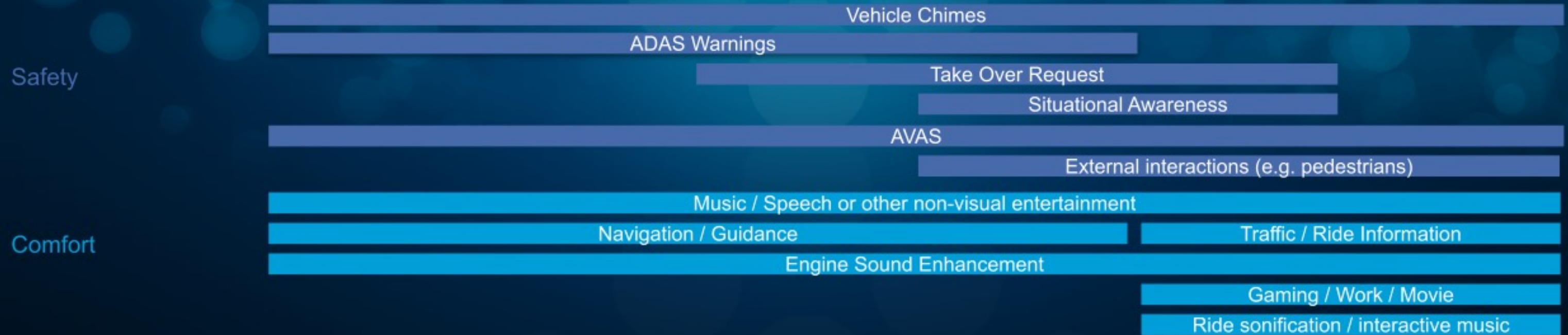




Mercedes-Benz  
F 015 Concept



# Automotive Sound Applications for Different Autonomy Levels



0	1	2	3	4	5
<b>No Automation</b>	<b>Driver Assistance</b>	<b>Partial Automation</b>	<b>Conditional Automation</b>	<b>High Automation</b>	<b>Full Automation</b>
Zero autonomy; the driver performs all driving tasks.	Vehicle is controlled by the driver, but some driving assist features may be included in the vehicle design.	Vehicle has combined automated functions, like acceleration and steering, but the driver must remain engaged with the driving task and monitor the environment at all times.	Driver is a necessity, but is not required to monitor the environment. The driver must be ready to take control of the vehicle at all times with notice.	The vehicle is capable of performing all driving functions under certain conditions. The driver may have the option to control the vehicle.	The vehicle is capable of performing all driving functions under all conditions. The driver may have the option to control the vehicle.



Source: Society of Automotive Engineers



# Car Audio Cardio Roundtable

- Athan Billias - Moderator
- Put your questions into chat

Kurt Heiden - Bose Automotive

Brett Crockett - Dolby

Francois Thibault - Audiokinetic

Athan Billias - MIDI Association





# Q & A