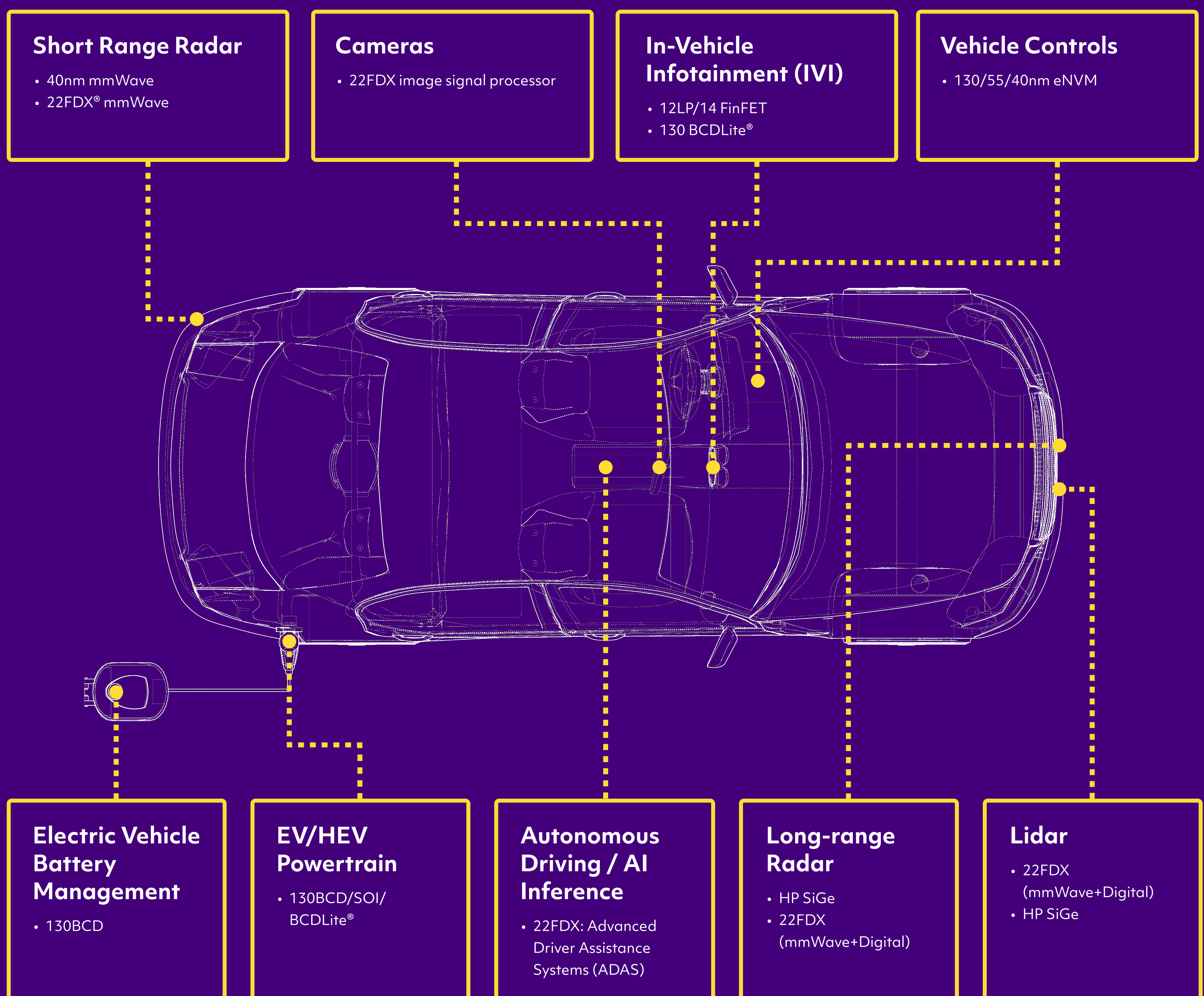


# Shaping the future of automotive



GF is at the forefront of the Autonomous, Connected, Electrified (ACE) trend, pushing innovation forward with best-in-class platforms, deep OEM partnerships, and full automotive supply chain engagement.

## ACE: Shaping the future of automotive



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## A = Autonomous

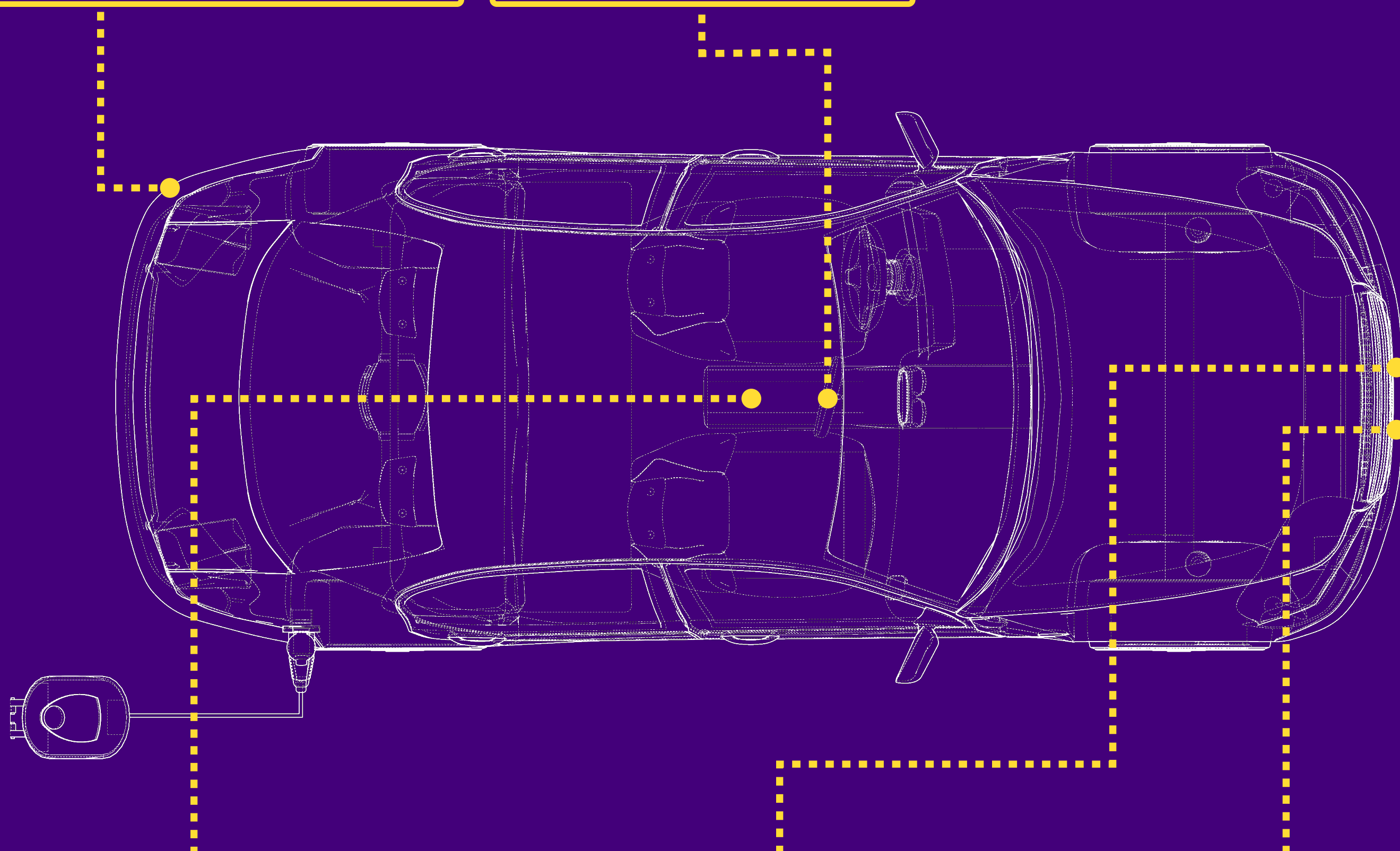
Advanced Driver Assistance Systems (ADAS) improving safety and convenience

### Short Range Radar

- 40nm mmWave
- 22FDX® mmWave
- Excellent image quality, high reliability in a variety of operating conditions*

### Cameras

- 22FDX image signal processor
- Excellent camera/image quality*



### Autonomous Driving / AI Inference

- 22FDX Advanced Driver Assistance Systems (ADAS)
- Optimal balance of performance & low power for real-time decisions; quality control of thermal conditions in heat-sensitive areas*

### Long-range Radar

- HP SiGe
- Longer range of detection, excellent image quality*
- 22FDX (mmWave+Digital)
- High resolution, 4D image quality in varying operating conditions*

### Lidar

- 22FDX (mmWave+Digital)
- High resolution, 4D image quality in varying operating conditions*
- HP SiGe
- Lidar sensing fast response for split-second decisions*



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## C = Connected

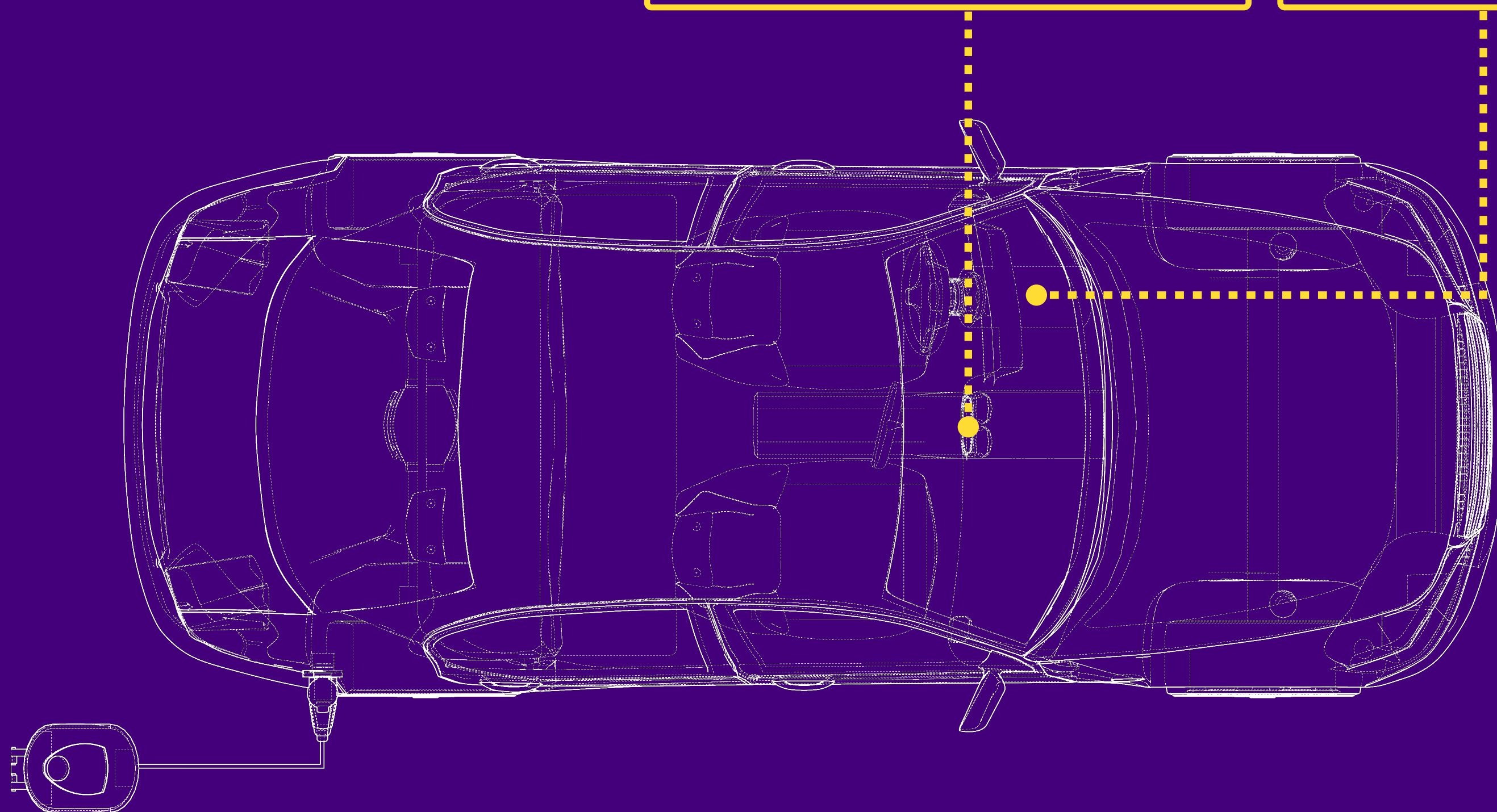
Connectivity via software, controllers, and other chip technologies

### In-Vehicle Infotainment (IVI)

- 12LP/14 FinFET  
*Fast, high-performance compute power*
- 130 BCDLite®  
*Class D audio amplifiers at low power*

### Vehicle Controls

- 130/55/40nm eNVM  
*Vehicle control (MCU) high quality; high endurance in a variety of conditions*



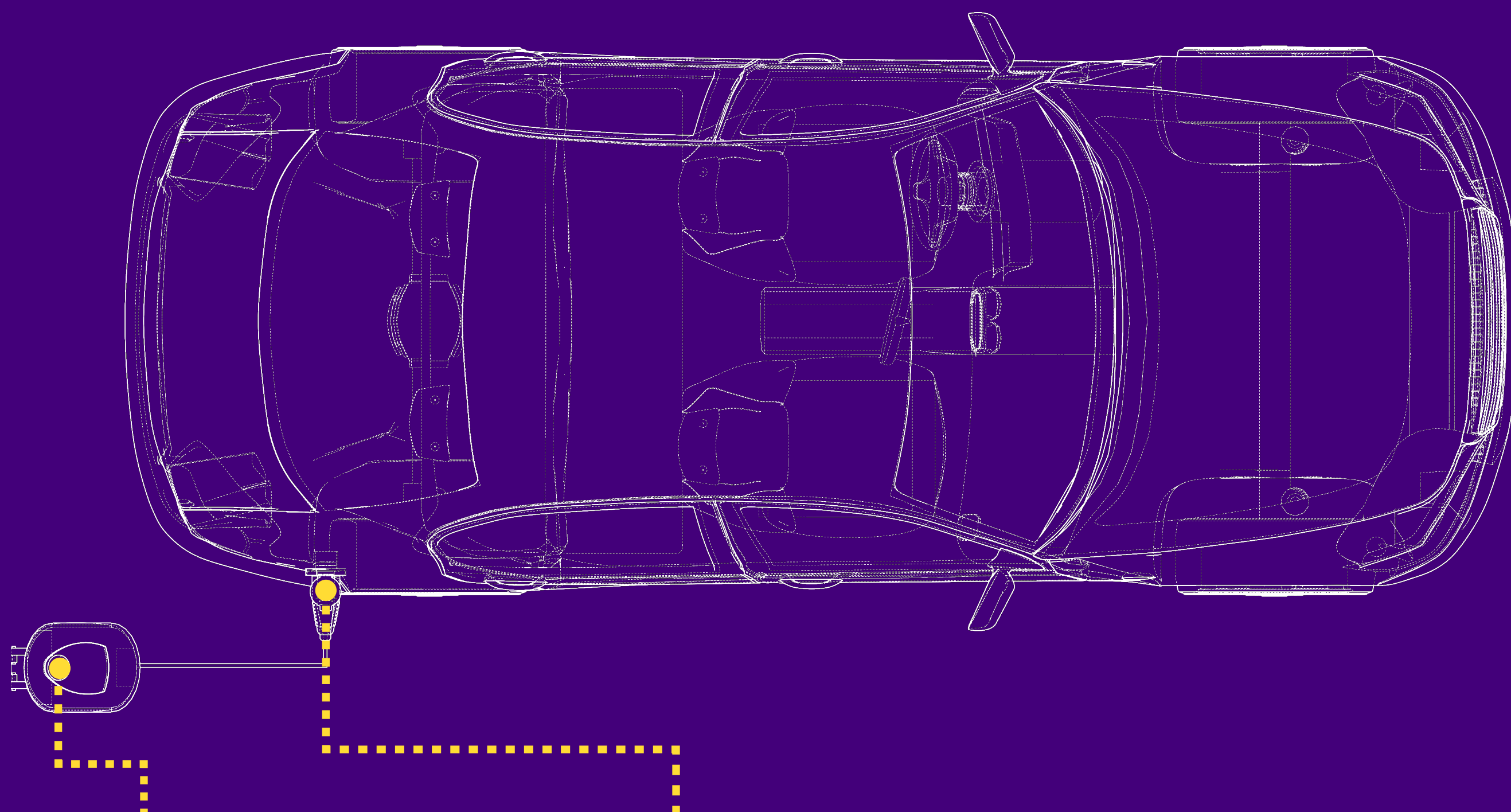
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## E = Electrified

Leveraging the exact right amount of power & reducing emissions



### Electric Vehicle Battery Management

- 130BCD  
*Longer lasting and safer  
EV battery (85V)*

### EV/HEV Powertrain

- 130BCD/SOI/BCDLite®  
*Powertrain/Power Management/  
Motor Control; high quality in extreme  
operating conditions (85V-200V)*