EV Power Optimization – Increase Travel Range for Fixed battery

Objectives of EV Power Optimization Project
• Power Management at Runtime
• Smart control of car functions like Mobile
• Digital first
• Power optimization as design consideration

Approach
• Use case definition & Guidelines
• In Car App
• Car Subsystem Integration
• Collaborative Solution Development

Benefits of EV Power Optimization
• Utilization by different companies across the Automotive Industry as a Standard for Power Optimization
• Enhancement of Software Defined Vehicle (SDV) Technologies
• Run time power optimization from Software to Hardware
• Releasing standard guide for power optimization at product level
• Implement first at Infotainment system and expand the learnings to other products in collaboration with Industrial partners like OEM, Tier1 and Technology players

Partnership Ecosystem
• MOBIS has formed valuable partnerships with leading technology companies that have played a pivotal role in shaping this project. Our esteemed partners include:
  ✓ Bosch
  ✓ Ansys
  ✓ Ferdinand Steinbeis Institute

Outcomes
• Standard Power Optimization Guidelines for reference
• Source Code through COVESA project
• Data on different use cases and results
• Power optimization branch defining VSS Signals

For more information on COVESA EV Power Optimization, please visit:
https://wiki.covesa.global/display/WIK4/EV+Optimization+-+-Increase+Travel+Range+for+Fixed+Battery