

# FEV Signature Solutions

## Torque distribution software for electrified powertrains

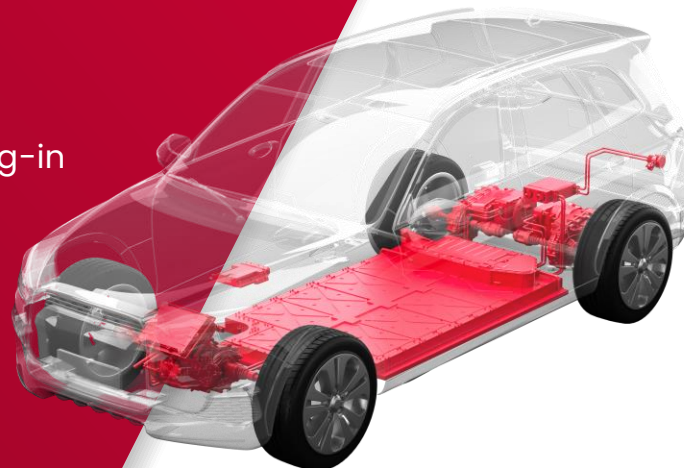
### Our solutions enables an optimized trade-off between efficiency and driving performance

#### FEV offers

- State of the art torque distribution software for multiple topologies with different number of electric motors
- Effectively manage the balance between efficient and dynamic torque distribution
- Additional services as modification/extension, integration, commissioning and calibration
- Tailor made solution for your application – from plug-in solution to complete powertrain control software

### Why FEV

- Proven software functions applied to various vehicle applications and continuously optimized throughout the last 20 years
- White box option to enable customer to use FEV's solution as basis for its own development
- Customization by FEV to exactly address customers' needs
- Customer friendly license model, as one time license fee and tailored license scope



# Selected reference projects

FOR TORQUE DISTRIBUTION SW



**2/4WDEV  
passenger car**  
Series development



**4WD supersports  
hybrid car**  
Demonstrator



**Commercial offroad multi  
wheel drive**  
Series production



**EV tractor  
off-highway**  
Prototype



**Commercial EV light  
duty**  
Series development, 3 projects



**4WD axle torque split  
function**  
In production, 3 projects

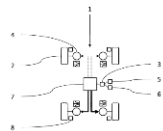


**4WD axle torque split  
function**  
Ongoing, 6 projects

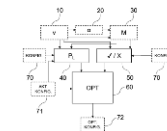


**Commercial EV heavy  
duty**  
Series production, 2 projects

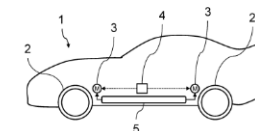
- Hybrid vehicle
- Battery electric vehicle
- Selected patents



**Wheel individual torque  
distribution strategy**  
THÖNNESSEN, RECKEWEG,  
SAVELSBERG  
Pat. appl. DE102020007357A1



**Setting an optimal  
vehicle configuration**  
WEGENER, KRAUTWIG,  
KETTNER  
Pat. appl. DE102022119656A1

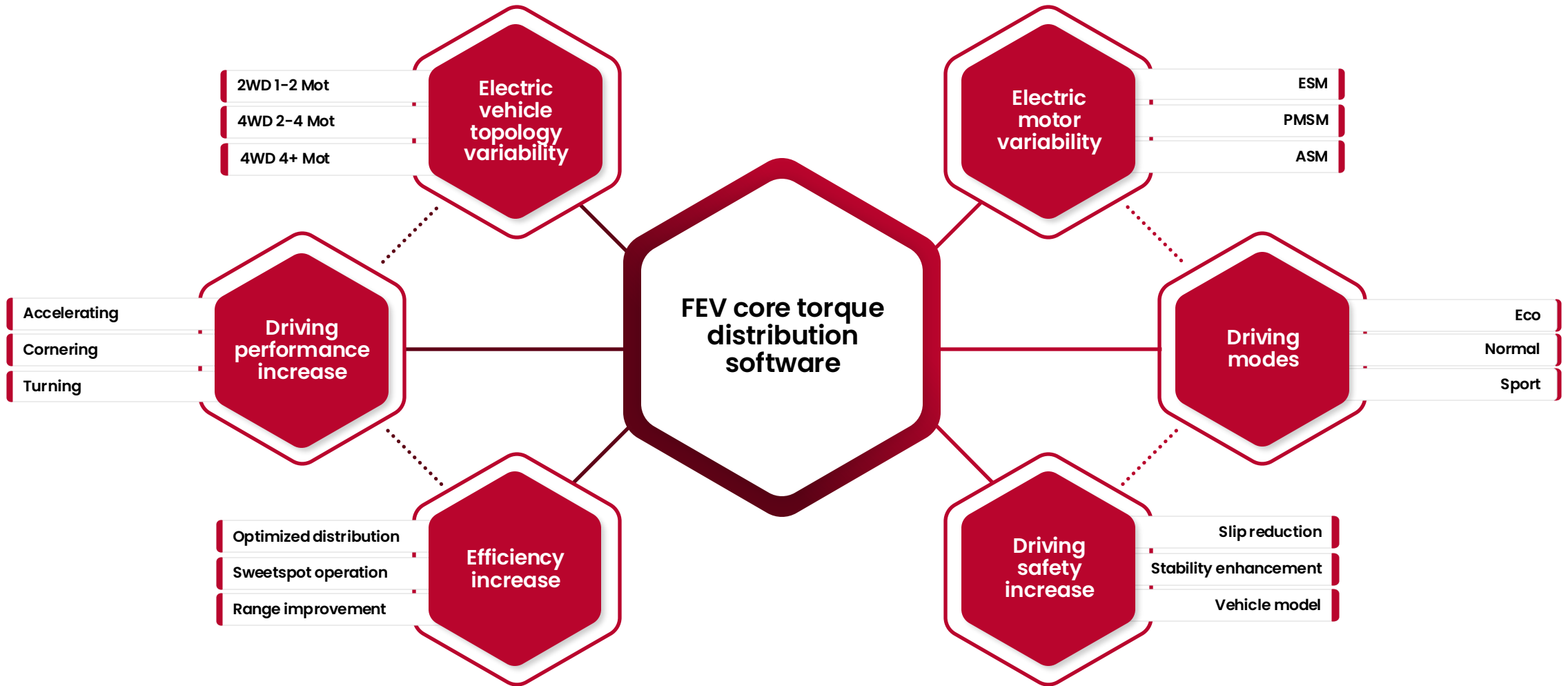


**Mechanism for vehicle  
torque distribution**  
KRAUTWIG, RATTE,  
WEGENER  
Pat. appl. DE102024115484A1

# FEV's torque distribution control functions

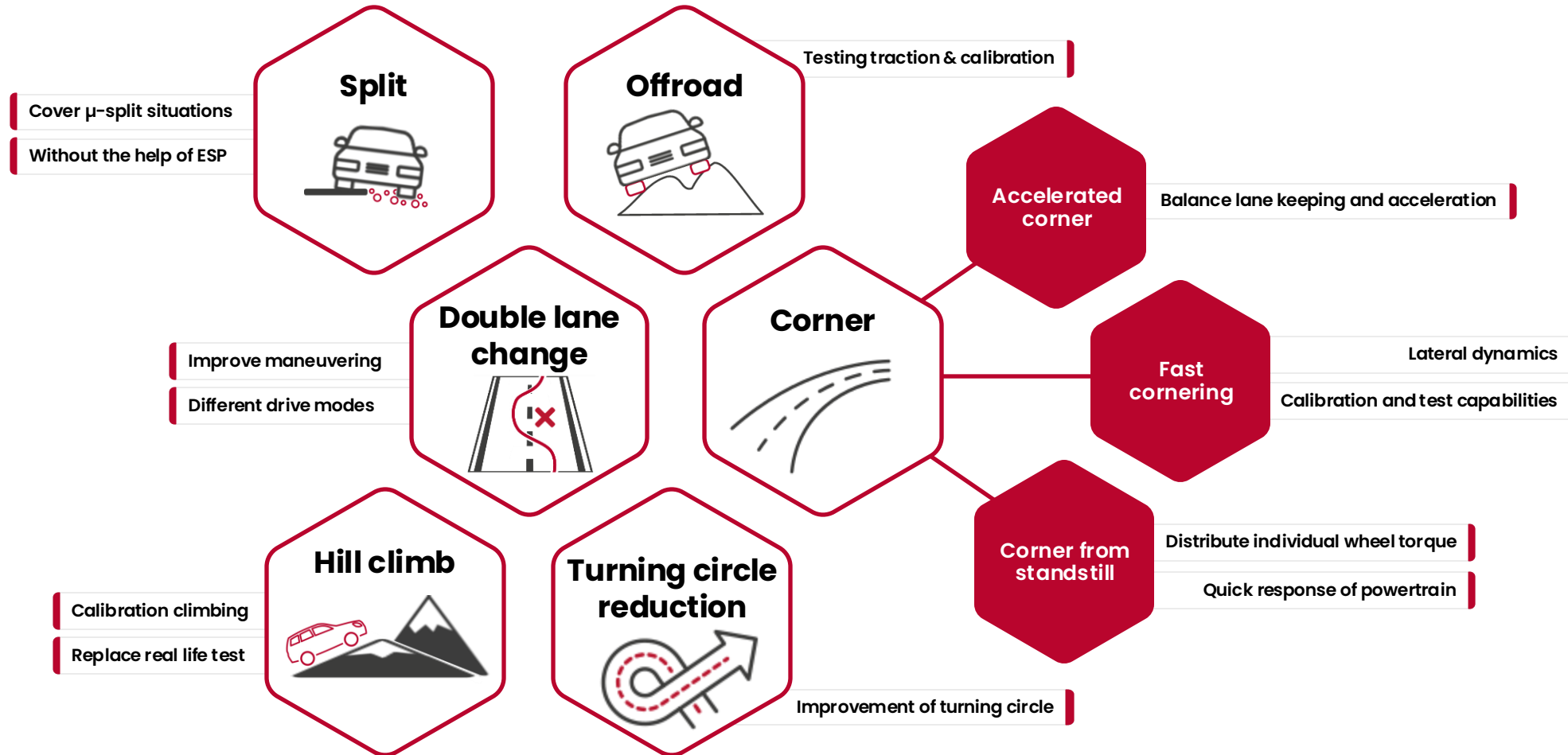
## Developed, defined, approved in FEV's software landscape

TORQUE DISTRIBUTION SOFTWARE AS PART OF FEV'S POWERTRAIN CONTROL SOFTWARE



# All wheel drive torque distribution controls

## POWERTRAIN TORQUE VECTORING APPLICATION



# Get in touch with us for further information



[www.fev.com/en/  
signature-solutions](http://www.fev.com/en/signature-solutions)