



Case Study Setting the Stage

- There has been a dynamic increase in **smart mobility alternatives** for the past 10 years in European and Asian regions.
- Increasing ecological awareness and media coverage of traffic congestion and noise pollution motivate professionals and commuters to find alternative transportation options.
- Furthermore, growing interest in **eco-friendly and alternative energies** is reported.
- An **increasing number of extreme weather conditions** yield market opportunities to offer exchangeable tires for dry and wet roads and surfaces.
- Increasing interest in **private travel** and **occupational mobility** brings up the need for escooters that are transportable.
- Smart APP connectivity is regarded as a lasting trend with high success potential.







Case Study Requirements Setting

Non-negotiable requirements for a smart e-scooter:

- The e-scooter consists of at least 4 modules: chassis, propulsion, steering, app connectivity.
- Compliance with legal regulations regarding safety in traffic.
- Offer different driving modes to meet various customer needs.
- Customers can easily replace or modify various hardware options on their own.
- Compatible with locally available charging standards for convenient charging.





Case Study Product Breakdown Structure (PBS) "Scooter_2018"

