MOBILITY - Project Ideas

- **Communication solutions with 5G and beyond... V2X (Vehicle to Anything)**
- **Autonomous transport collision prevention**
- **Adoption of autonomous technology to limited ODD (Operational Design Domain)**
- **Cheaper and Faster autonomous shared mobility solutions**
- **More efficient and long range EV battery solutions**

MOBILITY - Suggested References

Some real-world problems in Mobility industry in the 4 CASE segments (Connected-Autonomous-Shared-Electrification)

1 - Cheaper autonomous shared mobility solutions for smart cities - Pods, Faster transportation from A to B etc.... - Today's solutions need a radically different outlook and people are trying to invent mobility solutions such as autonomous pods, hyperloops etc... Study and suggest solutions that work for Indian cities

2 - Adoption of autonomous technology to limited ODD (Operational Design Domain) - Eg : Airports, Hospitals, Air or Land based material handling, supply chain robotics - several solutions can be thought about in this area - Specific solutions in these areas could be proposed as projects

3 - Communication solutions with 5G and beyond... V2X (Vehicle to Anything) addressing specific problems related to vehicle condition (Eg : when will my brake pads need to be replaced or how good is the condition of my clutch belt), driver health, route discovery, traffic management, local language support etc...

5 - Learning from accidents or near accidents to improve accuracy of autonomous transportation - video footages of accidents are available in many countries. India has just started to look at this.

6 - More efficient and long range EV battery solutions

https://drive.google.com/drive/folders/1GfiVG88TfR_vSbb9xKRu5VEd6W7d0xiQ?usp=drive_link