

QUIZ



CAD

Design PROJECT

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PRESENTATION

1. 자작차량 특징

2. 차량 설계 과정

3. Digital Mock Up 구현

4. Q & A

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A. 자작차량 특징

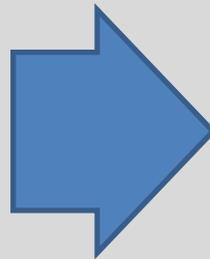
- Four Wheel Drive(4륜 구동)

- 가속력 : 4륜구동 > 후륜구동
- 접지력 : 4륜구동 > 후륜구동
- But 중량이 증가하고 출력이 떨어지는 단점

- Super Charger(슈퍼 차저)

- 4륜 구동을 채택함으로써 요구된 추가 동력원을 충족

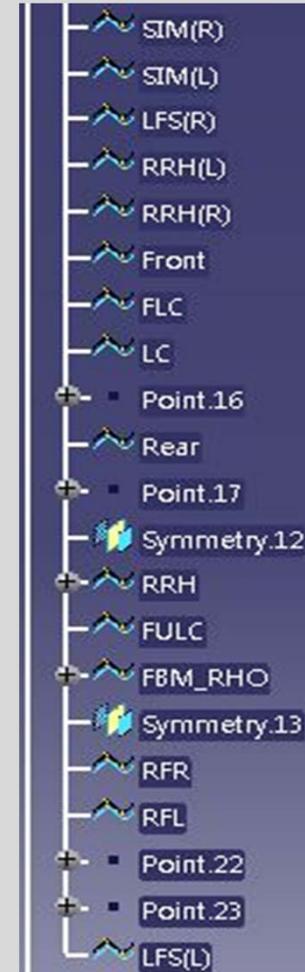
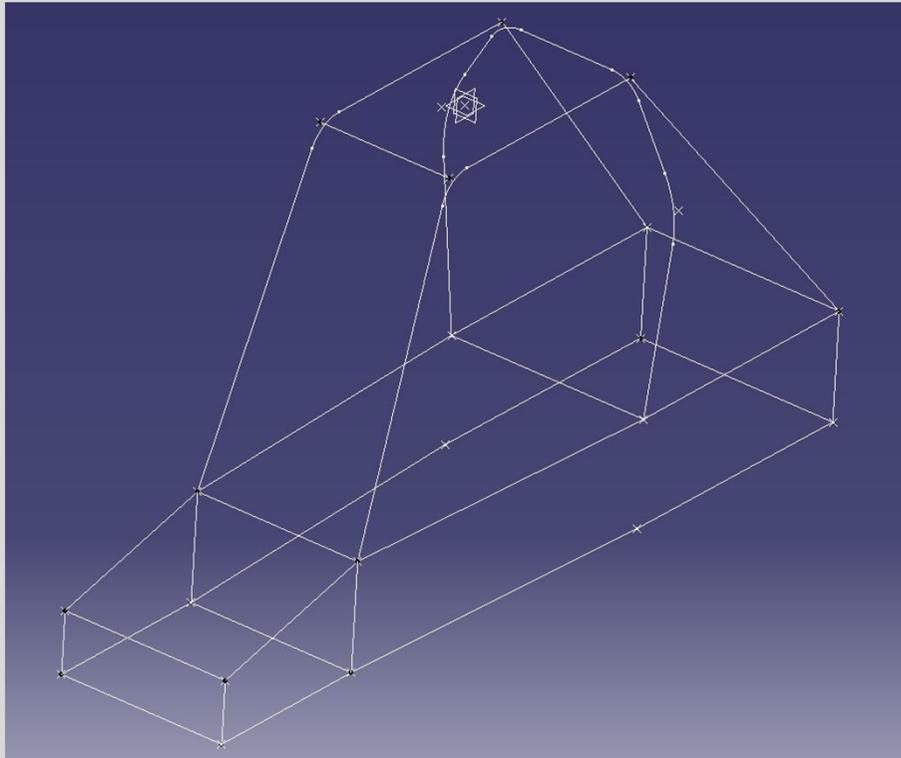
왜 Turbo가 아닌
Super?



응답성의 이점
출력제어의 어려움

B. 차량 설계 과정(CATIA)

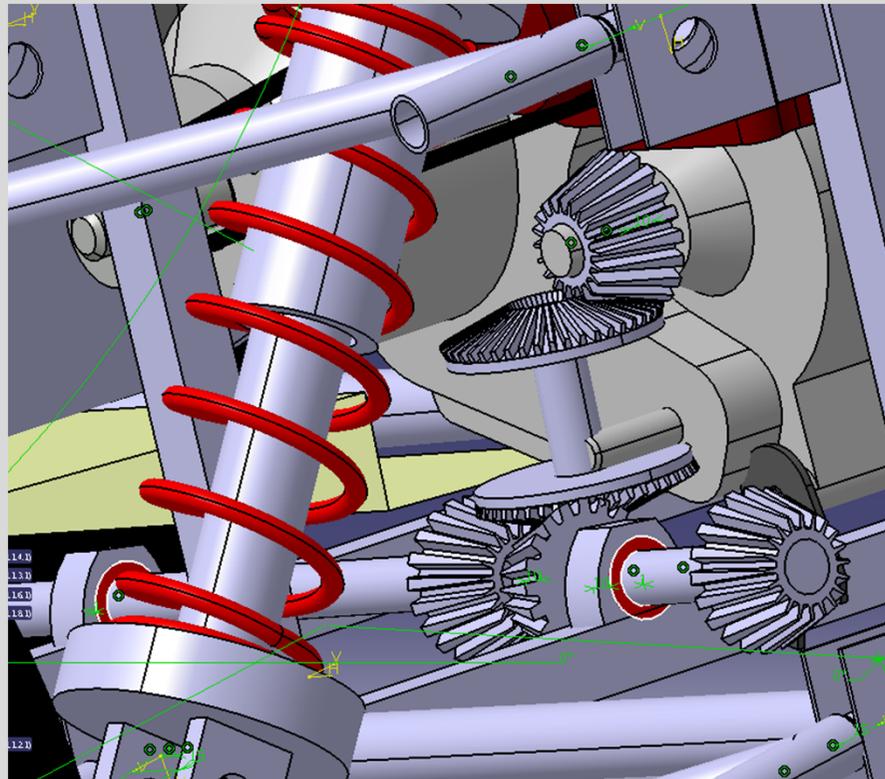
1) 차체 Frame 설계



B. 차량 설계 과정(CATIA)

2) Powertrain 설계

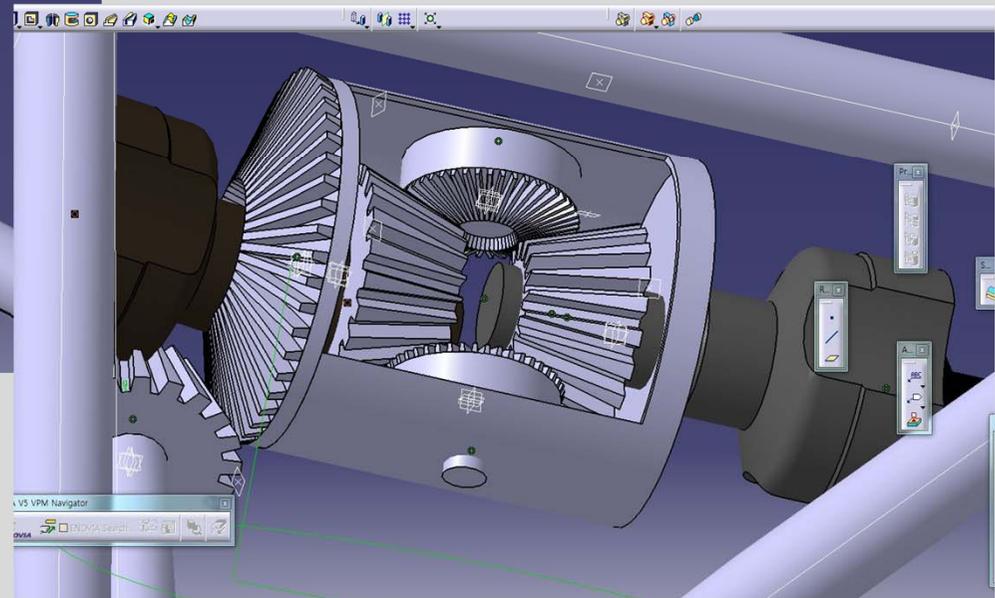
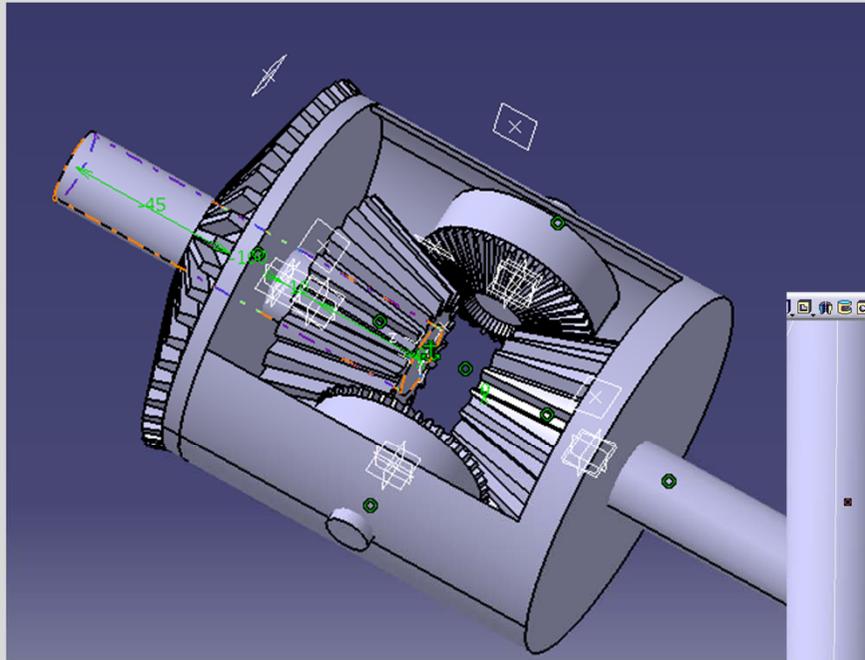
Shaft를 이용해 엔진에서의 동력을 앞뒤로 전달(4WD)



B. 차량 설계 과정(CATIA)

2) Powertrain 설계

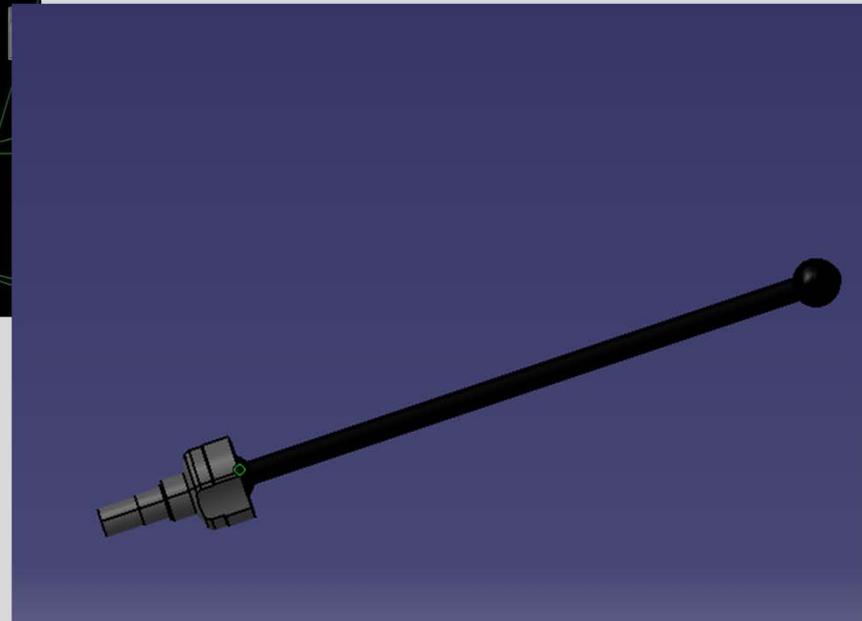
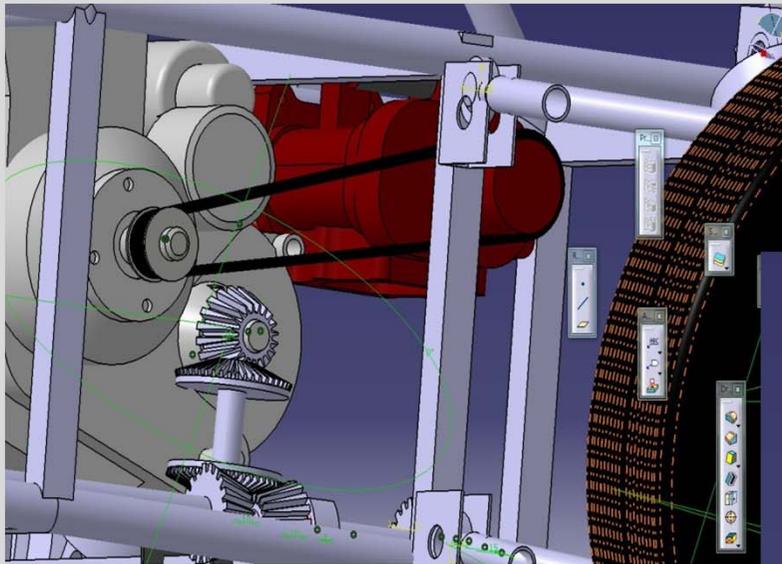
Differential gear를 통해 양쪽 바퀴의 다른 속도 구현



B. 차량 설계 과정(CATIA)

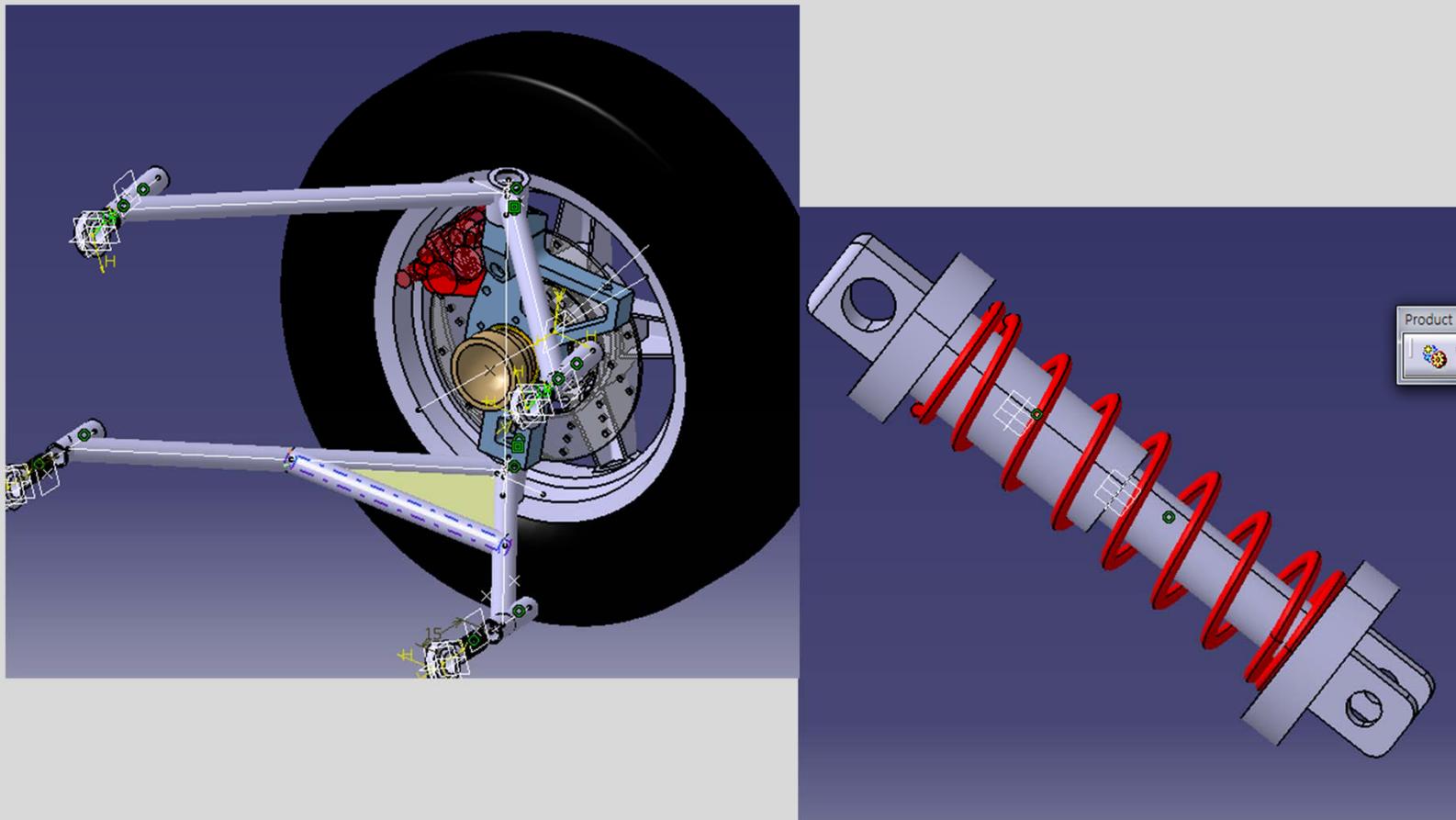
2) Powertrain 설계

CV & Supercharger



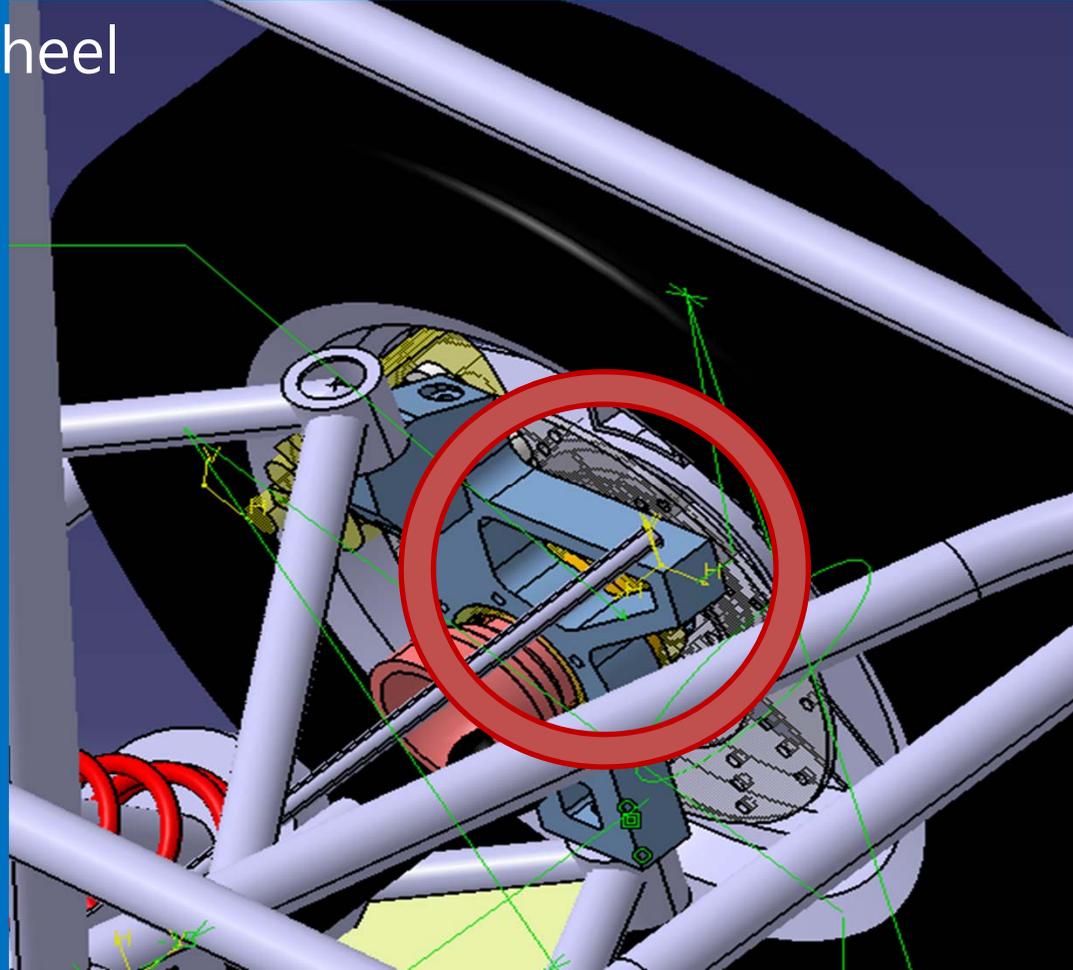
B. 차량 설계 과정(CATIA)

3) Wheel & Suspension



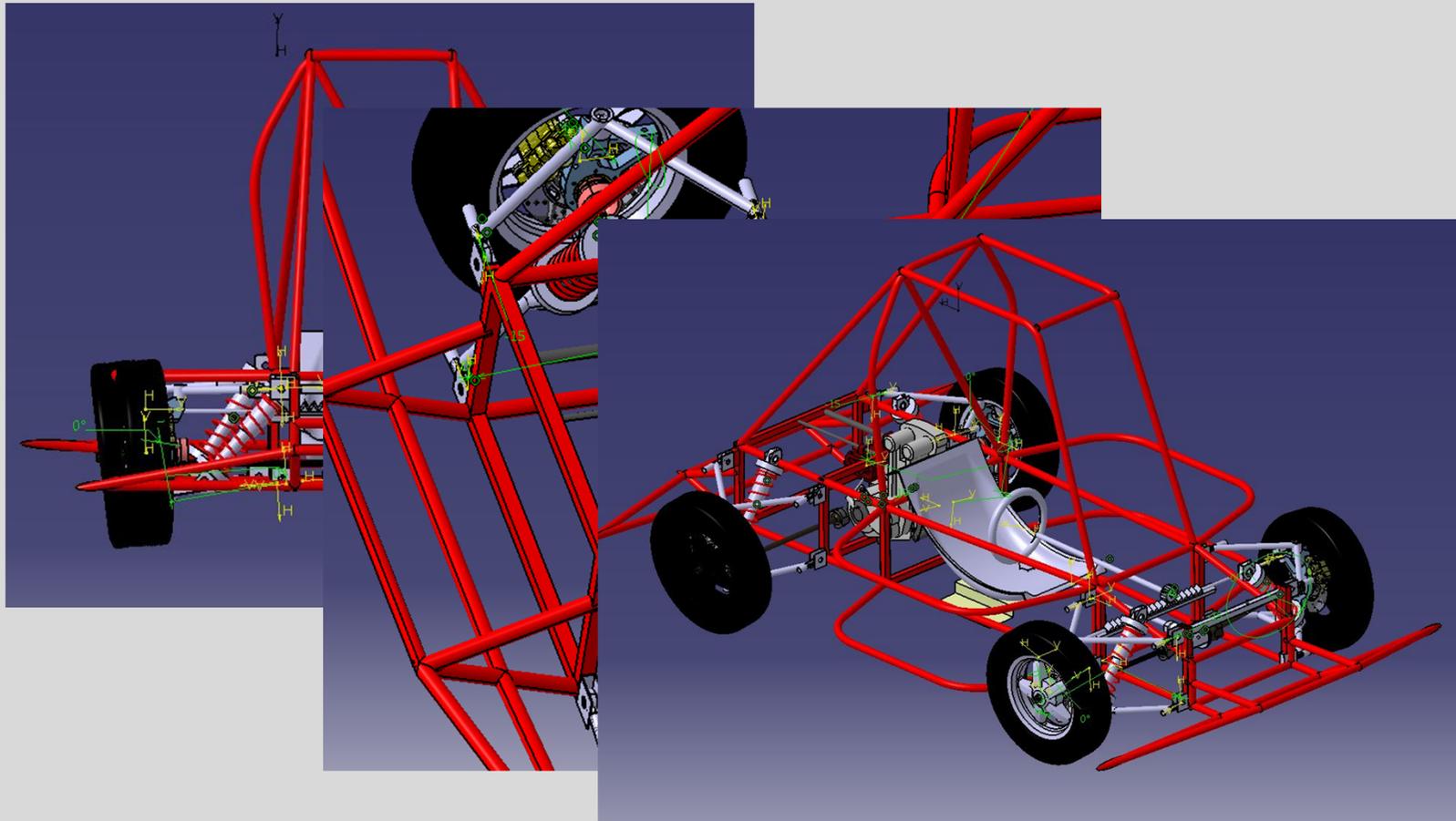
QUIZ

Front Right Wheel



B. 차량 설계 과정(CATIA)

4) 기타 및 차량 전체 모습



C. Digital Mock UP 구현

1. Differential gear



PRESENTATION

C. Digital Mock UP 구현

2. Steering



PRESENTATION

Q&A
With *The End*



THANK YOU!!!