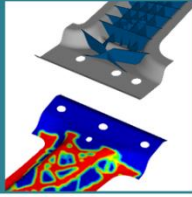


## 가상 제품 개발 - 초기 아이디어에서 최종 디자인까지 제품 개발

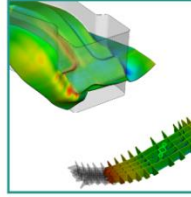
### Design & Optimization

Material and process specific product design



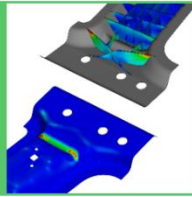
### Process Simulation

Prediction of manufacturability and manufacturing effects



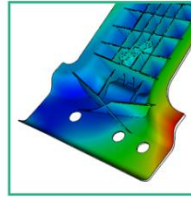
### Structural Simulation

Analysis of structural part performance



### Warpage Simulation

Prediction of solidification, warpage and residual stresses



## 프로젝트에서 SIMUTENCE의 역할

### Project start

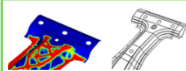
Collaborative discussion on your expectations and requirements to fully understand your specific needs.

### Concept freeze



### 개념 연구

Development of a principle concept which fulfills your requirements. This includes sketches, rough CAD drawings, and optimization methods.



### 가상 타당성 테스트

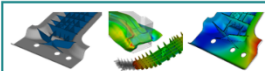
Virtual analysis of the developed concept, to ensure manufacturability and refinement of the design. This includes CAD work, process simulations, and structural analysis.

### Design freeze



### 최종 설계안

Based on the results of the process simulation, the geometry is finalized and adjusted by manufacturing process needs. Final validation is done by structural and warpage analysis.



### Your product

Once the design is finalized, we support you by finding manufacturing or prototyping partners.

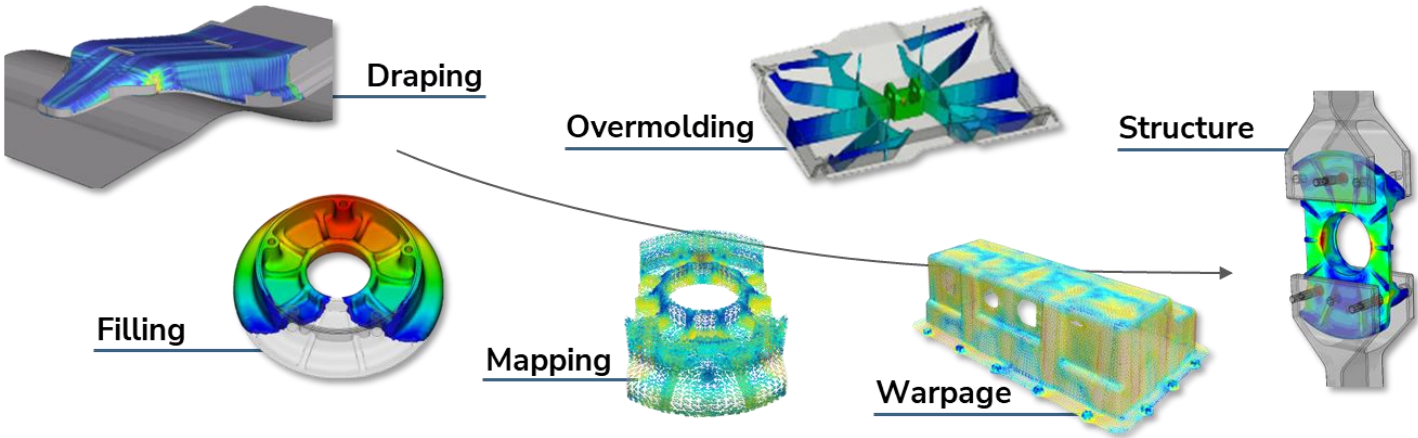
가상 프로세스 체인의 전체 제품 개발이든 단일 단계이든 상관없이 가상 설계에 대한 노하우 활용 가능



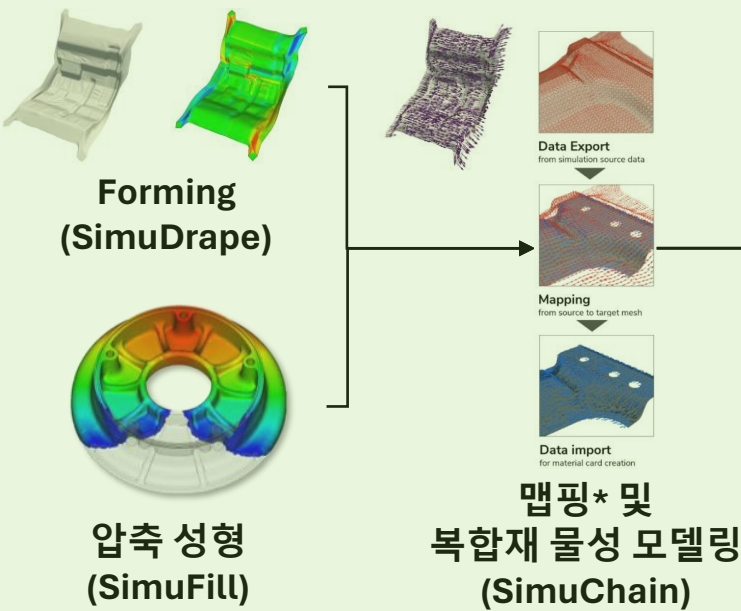
실제 제조 파일럿 및 검증 중에 상당한 시간과 비용 절감

**Simutence – Enabling Smart Engineering with Composites**

**제품 설계, 제조 검증 및 엔지니어링을 원활하게 연결하는  
논스톱 가상 프로세스 체인 제공**

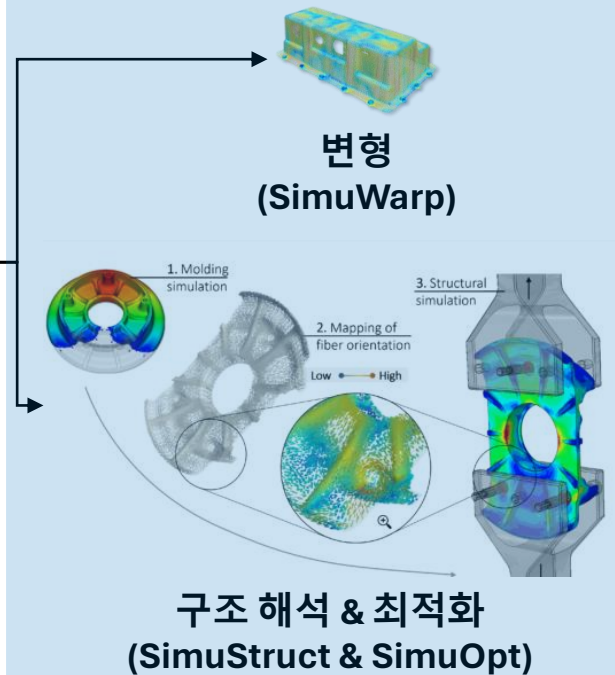


**소프트웨어 Add-on 및 엔지니어링 서비스 제공**



\* 맵핑(Mapping): 성형해석결과에서 얻어진 섬유 배향 정보를 구조 FEM 모델에 입히는 작업

**엔지니어링 서비스 제공**



**DIGITAL  
PRODUCT  
DEVELOPMENT  
CYCLE**

- 제조 프로세스 및 제품의 디지털 트윈 생성
- 심화 엔지니어링 및 시뮬레이션 방법 활용
- 높은 재료 및 제조 효율성 실현
- 국제 네트워크 및 파트너의 이점