



**3DEXPERIENCE®**

# Digital Manufacturing Process Planning

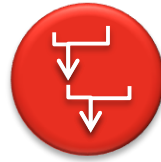
다쏘시스템코리아  
DELMIA  
2020.04.09

# 3DEXPERIENCE Model for Digital Manufacturing



## Engineering Items

Define the physical product and design data



## Manufactured Items

Define main product transformation/assembly steps



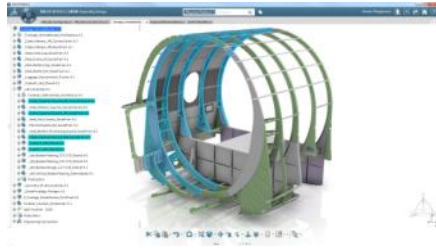
## Process plans

Define & balance Routings for Manufactured Items  
Author Work Instructions



## Resources

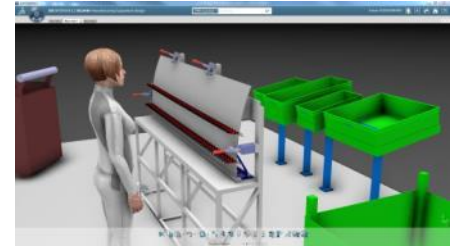
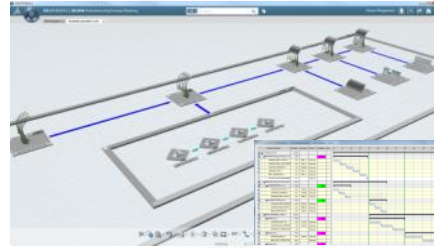
Define physical resources & layout of production site



**WHAT** to Produce?

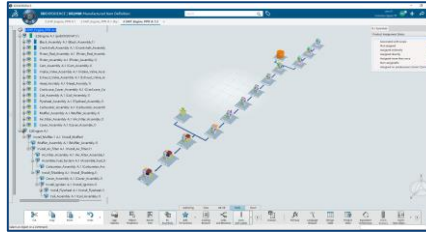


**WHERE and HOW** to Produce?



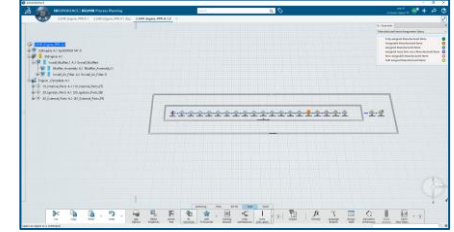
**With What** to Produce?

# Workflow



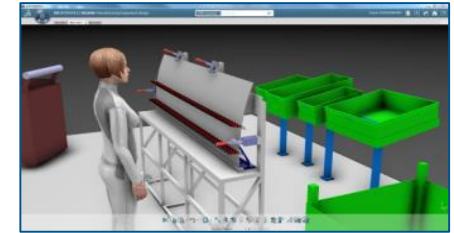
1

**MBOM**



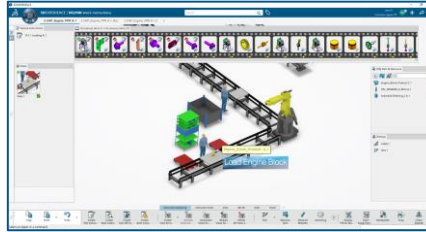
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**Process Planning**



3

**Resource Allocation**



4

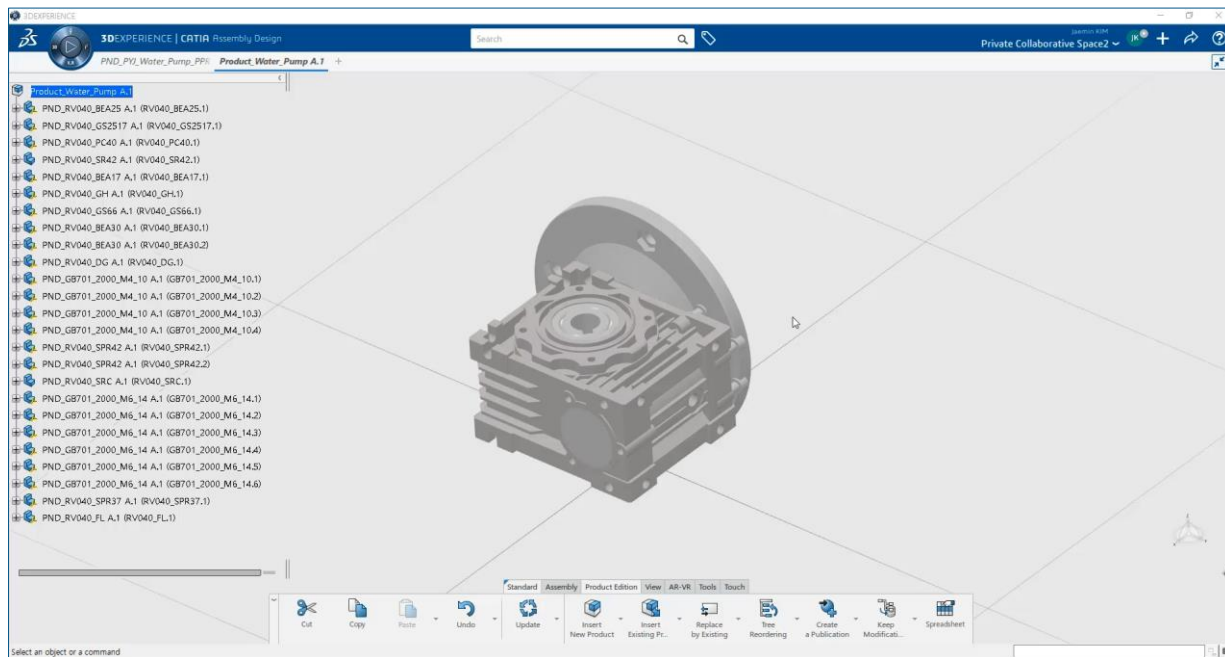
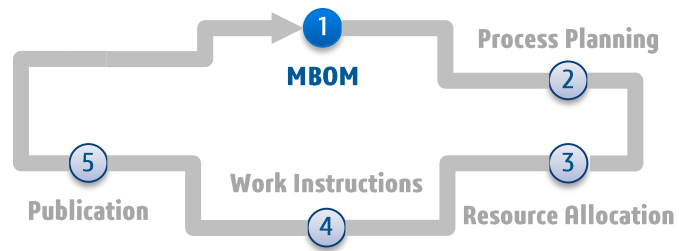
**Work Instructions**



5

**Publication**

# 1. MBOM 정의



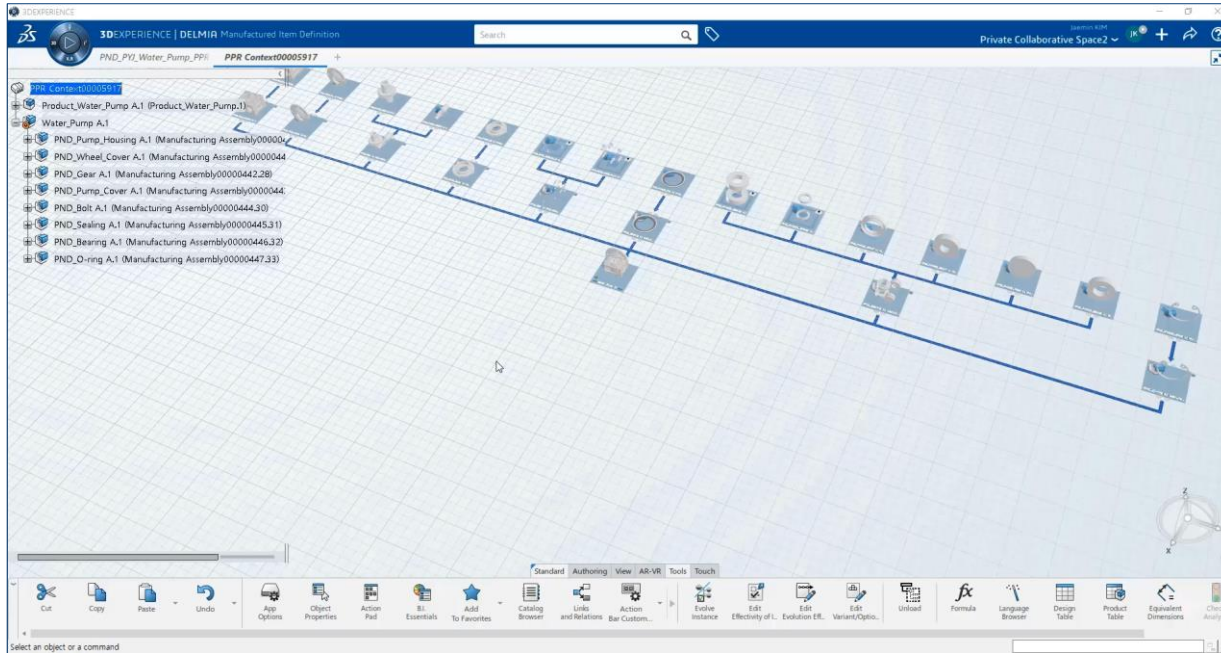
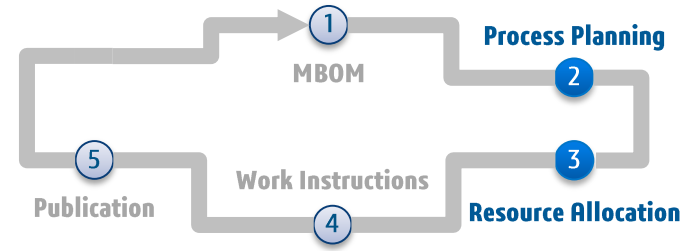
## ■ 개요

Design data로부터 MBOM 정의

## ■ 기능

- ① 처음부터 또는 template으로부터 MBOM 정의
- ② Product Structure로부터 MBOM 자동 생성
- ③ B.I.Essentials을 통한 Product 할당 상태 시각화 표시

# 2. Process Planning 3. Resource Allocation



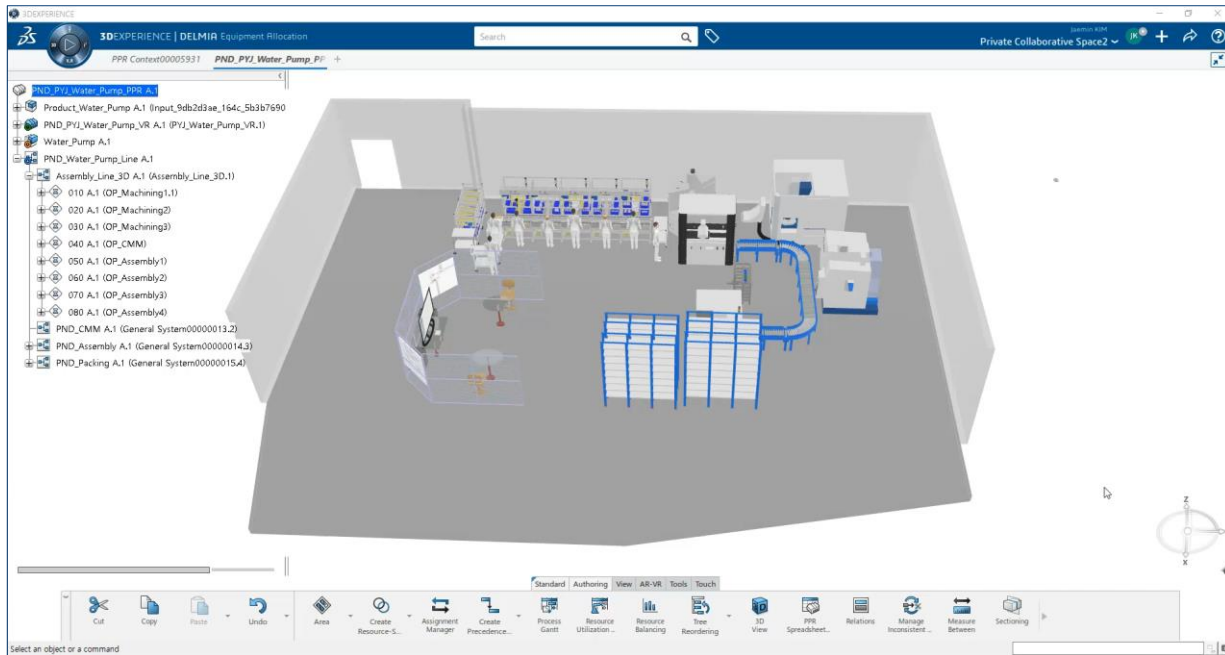
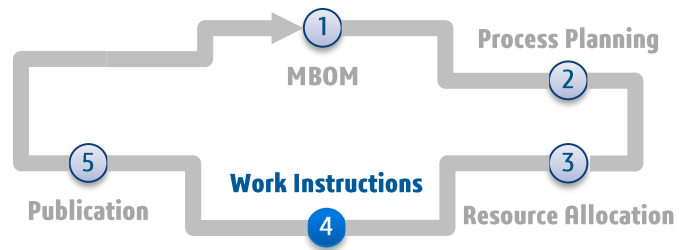
## ■ 개요

MBOM 및 Resource를 활용하여 공정계획 정의

## ■ 기능

- ① 3D 상 제품 Build-up을 확인하며 공정 계획
- ② 각 공정에 MBOM 및 Resource 할당
- ③ 3D Layout 상 각 공정별 검증 및 조기 이슈 검출 가능

# 4. Work Instructions 정의



## ■ 개요

3D 데이터를 활용하여 3D 작업지시서 정의

## ■ 기능

### ① 작업지시서 생성

- Text Instruction
- Data Collect Instruction

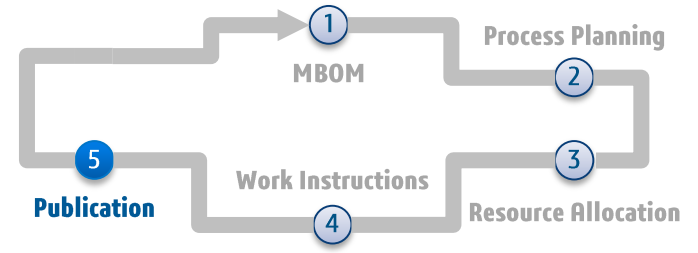
### ② Dress-up 생성

- Label, Text, Circle, Arrow, Measure 등 3D Dress-up 정의

### ③ View 생성

- 각 공정 별로 3D Dress-up 배치 및 Part show/hide 후 View 정의

# 5. Publication



## ■ 개요

공정 계획 정보를 Platform Web 또는 APRISO 서버로 배포

## ■ 기능

- ① Publish to Platform Web (3DWorkbook)
- ② Publish to DELMIA Execution
  - APRISO 서버로 공정 계획 정보 저장

