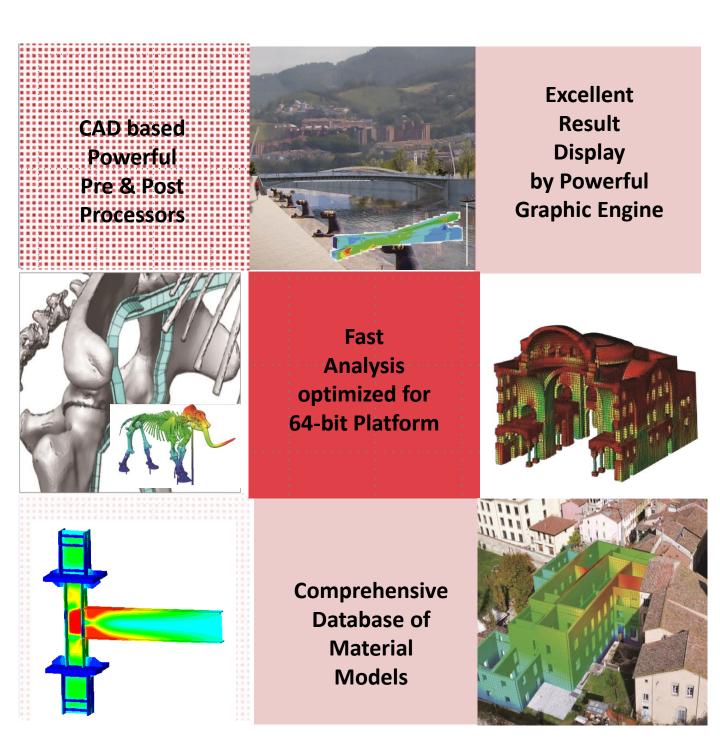


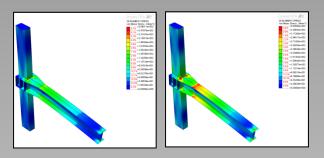
### Advanced Nonlinear and Detail Analysis System



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## **Application Areas**

#### **Plastic Analysis in Steel Connection**



 Examination of stress tolerance according to steel Von-mises model

# **Interface Nonlinear Analysis** Interface element

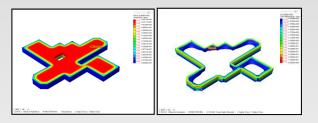
 Verification of curtain wall type concrete heat-dissipating wall

> 5.55388e-003 5 74706e-003 4.94025e-003 4.13343e-003 3.32661e-003 2.51980e-003 1 71298e-003 9.06162e-004 9.93451e-005 7 07472e-004 1429e-003 -003 .003 74e-003 4 74156e-003 -5.54837e-003 -6.35519e-003

### 44,004 midas FEA 44.804 22 402 67 206 89,607 DISPLACEMENT [UNIT] kN , m [DATA] CS(Construction Stage) , STAGE 41, STEP 1(CS)(843) , DX(V) , [Output CSys] Global CSys STAGE 31. STEP 10

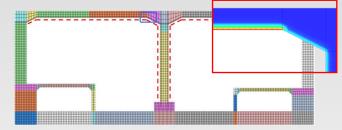
 Construction stage analysis considering concrete shrinkage by temperature loads for 3D podium structure

#### **Heat of Hydration Analysis**



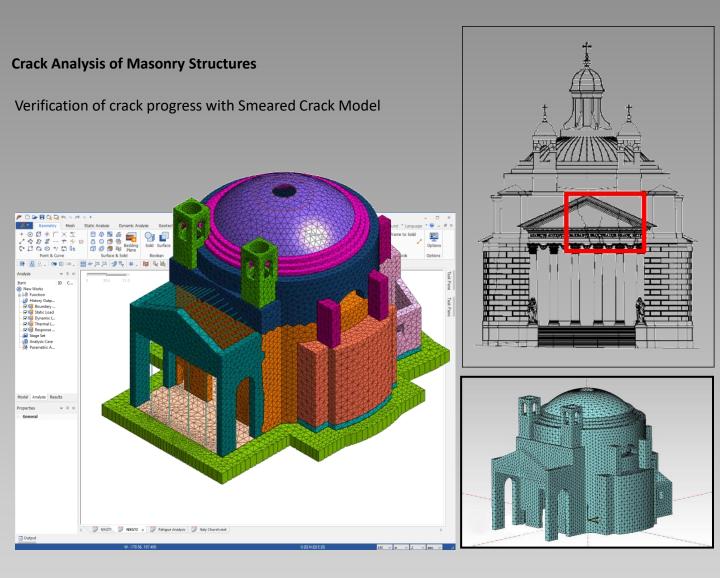
•Heat transfer analysis and thermal stress analysis considering creep & shrinkage

#### **Evaluation of Thermal Damage due to Fire**

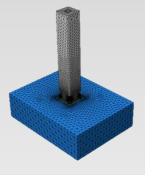


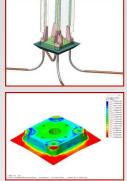
• Evaluate the effect due to high temperature in case of fire in subway station

### Sequential Verification in Concrete Structure



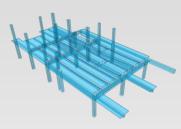
#### Behavior of PC Columns in High-seismic Zone

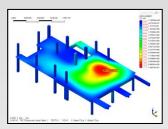




• Analysis of joint by cyclic load with nonlinear behavior of steel and concrete

#### **Post-tensioning Slab Analysis**

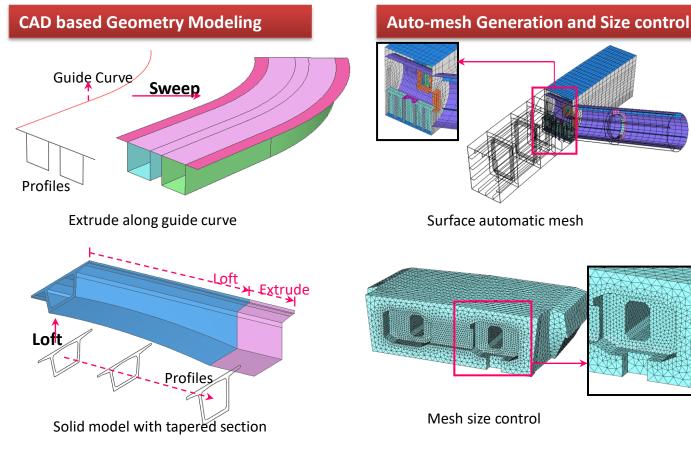




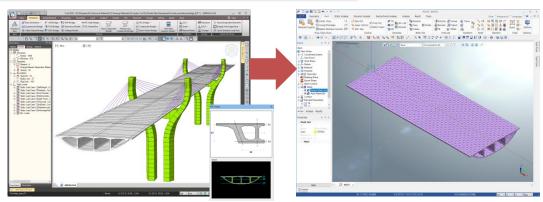
• Maximum deflection and column axial force comparison according to the post-tensioning arrangement

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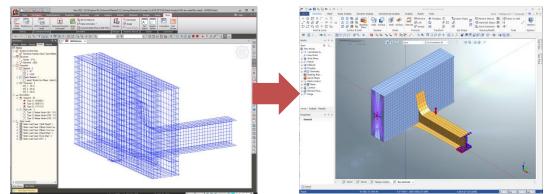
### **Powerful Pre-processor**



#### Direct Data Transfer with midas Gen/Civil

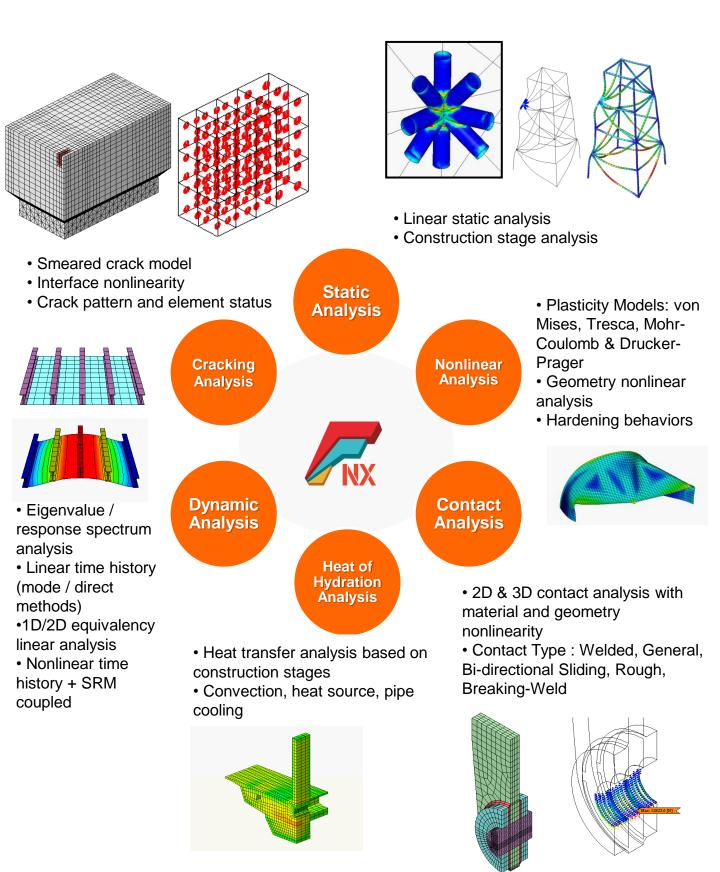


Frame to plate/solid conversion for detail analysis



Geometry, load and boundary conditions converted into midas FEA NX for advanced analysis

# **High-end analysis capabilities**



# FEA NX

### Advanced Nonlinear and Detail Analysis System

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