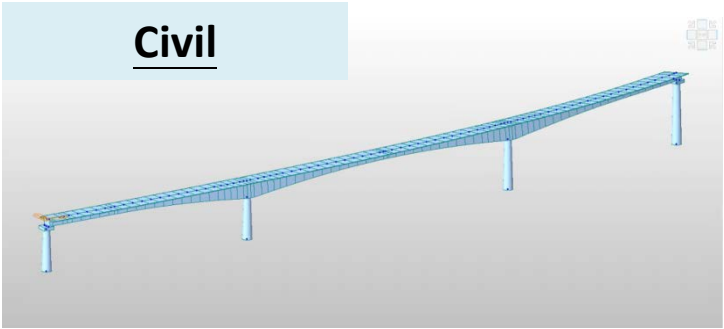


FEA NX

混凝土橋體損傷預測

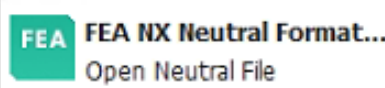
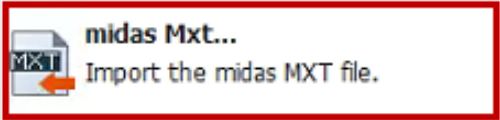
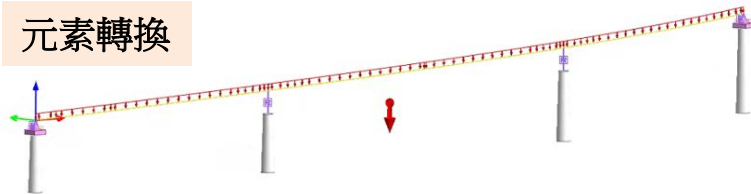
中興大學混凝土科技研究中心

CIVIL Coupled with FEA NX

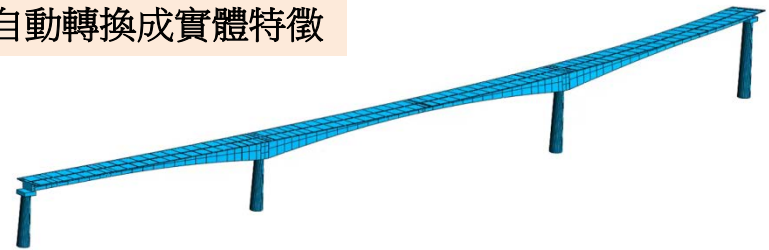


FEA NX

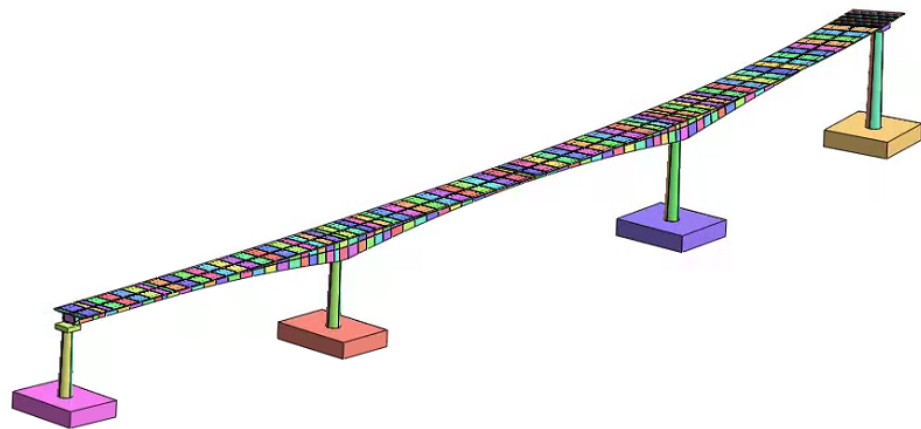
元素轉換



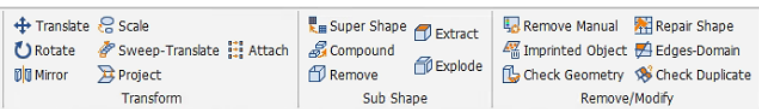
自動轉換成實體特徵



幾何模型建立

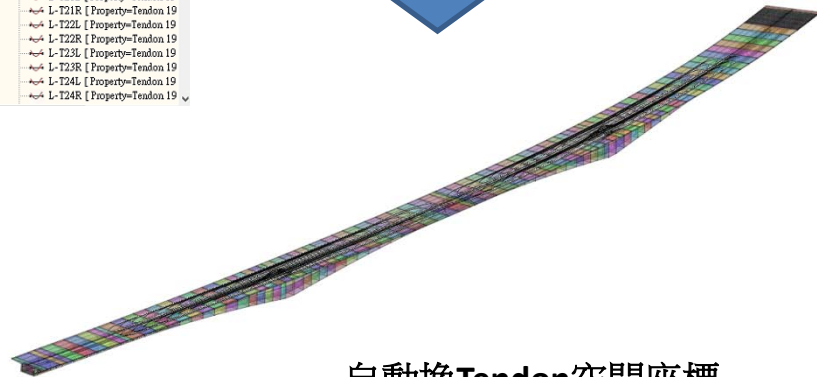
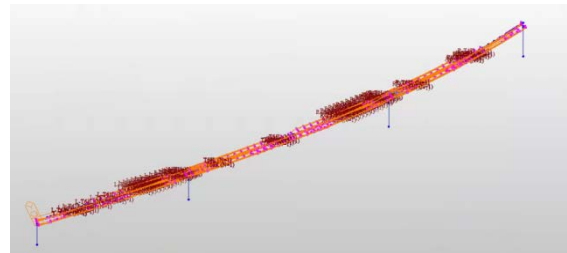
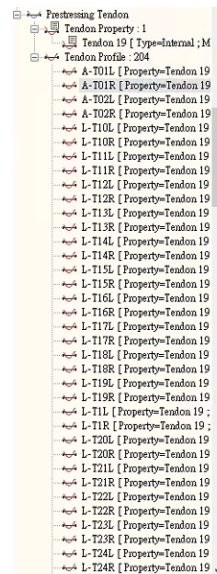


FEA NX標準幾何功能



FEA NX進階幾何功能

Civil Tendon

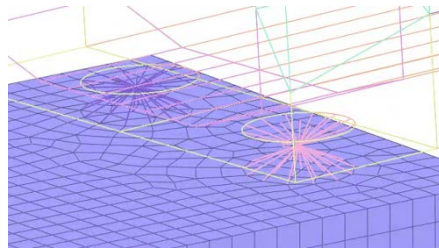


自動換Tendon空間座標

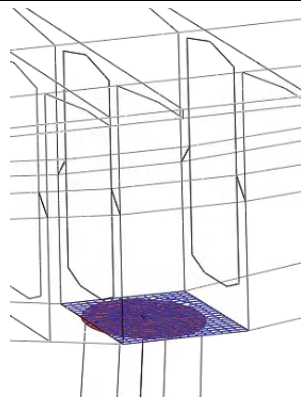
有限元素模型建立



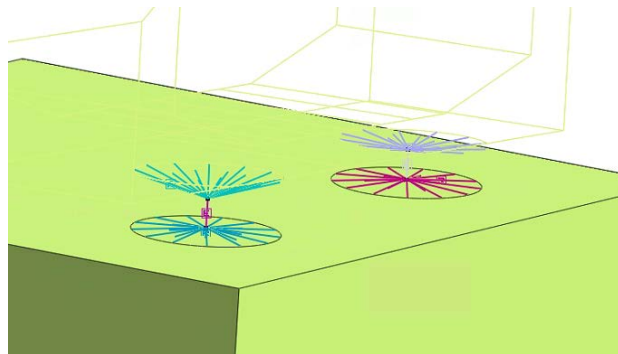
Rigid Body連接方式



Weld contact連接方式



Elastic Link連接方式



ID: 4 Name: Spring KX test Color: Green

Type: Linear Elastic

☐ Hinge Property

X-Direction Spring Constant(k_{rx}): kgf/cm/rad

Y-Direction Spring Constant(k_{ry}): kgf/cm/rad

Z-Direction Spring Constant(k_{rz}): kgf/cm/rad

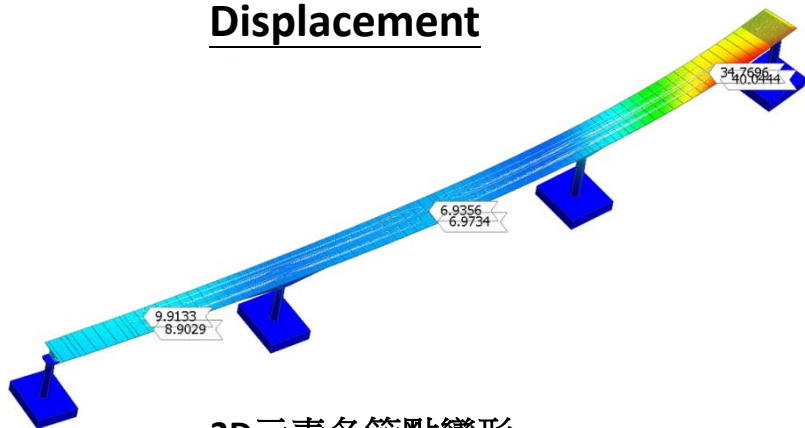
支承剛度

FEA NX自動&手動網格功能

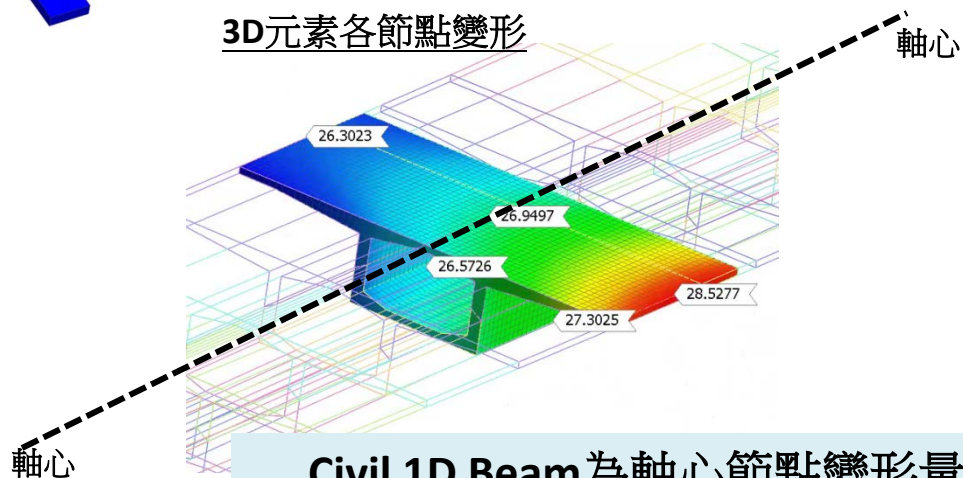


損傷預測

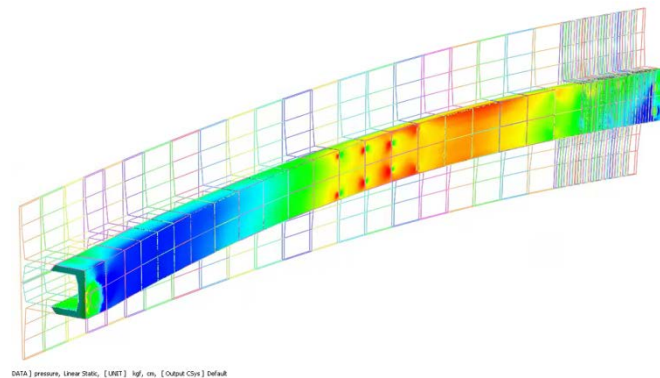
Displacement



3D元素各節點變形



Solid Stress-SXX



Civil 1D Beam為軸心節點變形量