VMAP

ITEA 3
INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT
project 16010

Modular Multiphysics Simulation using VMAP

ANSYS → VMAP → Diffpack · **inuTech**

Thermal Analysis

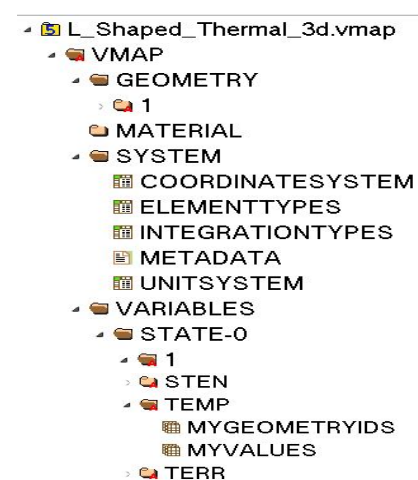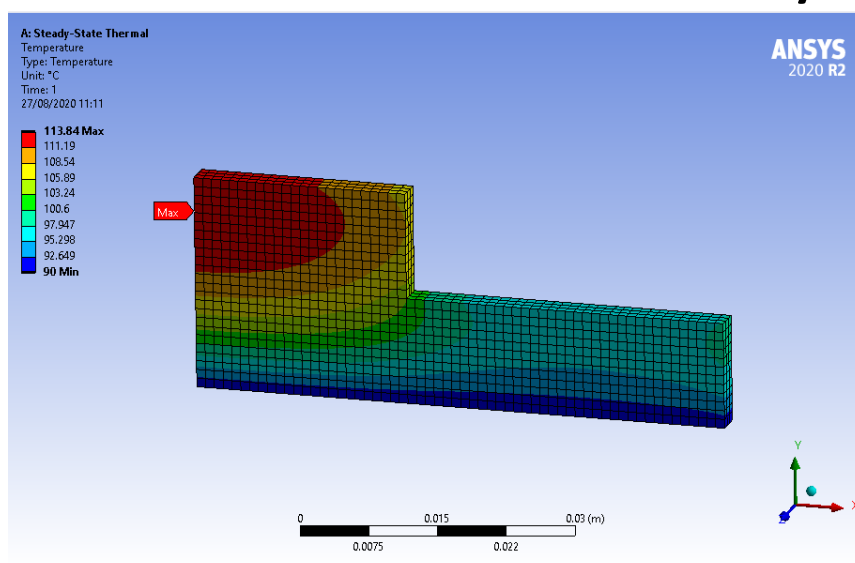Export: Mesh & Results: Temperature, Heat flux

Structural Analysis

Export: Mesh & Results: Stress, Displacements
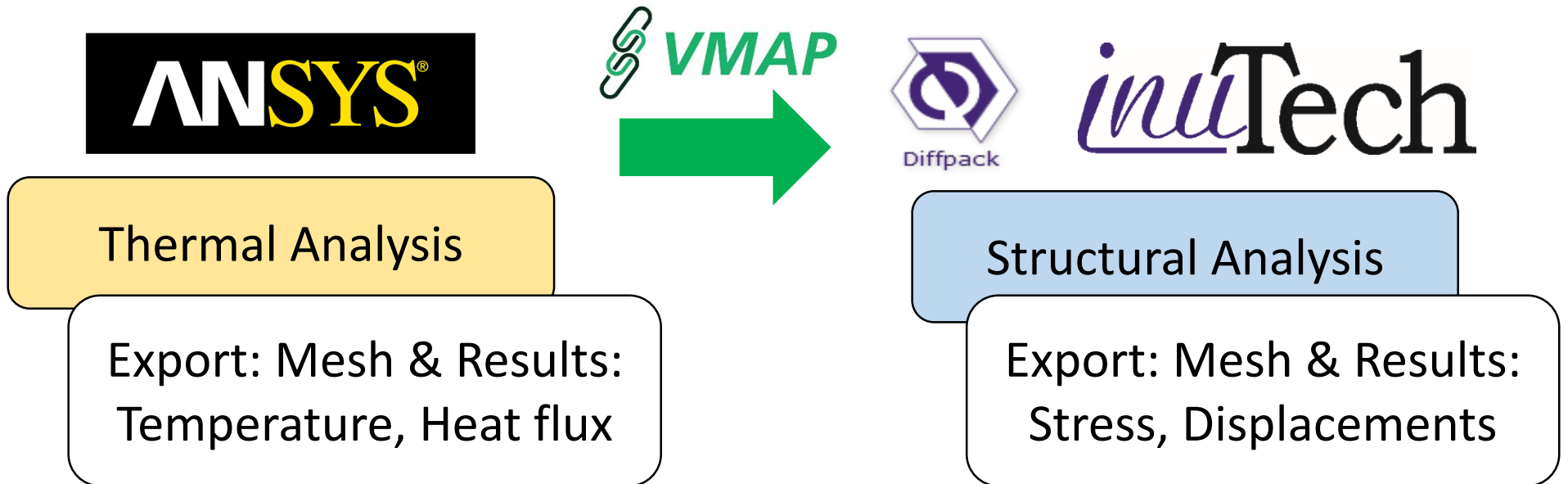
ANSYS Wrapper as an ACT Plugin supports VMAP v.0.5.2

- *VMAP to ANSYS*
- ❑ *Mesh data*
- ❑ *Unit systems*
- ❑ Coordinate System
- ❑ Nodal coordinates

- *ANSYS to VMAP*
  Mesh data and state variables

Diffpack from inuTech GmbH supports VMAP v.0.5.2

- Programming environment for numerical modelling and solution of PDEs

- *Diffpack2VMAP* **and** *VMAP2Diffpack Converter* (Meta information, coordinates, elements, state variables)

Thermo-structural analysis of an L-shaped Beam