



**Politecnico
di Torino**

Department of Environment,
Land and Infrastructure
Engineering



Seminar and classwork on

Modelling with LS – DYNA (LSTC - Ansys) with Introductory features for F.E.M. modelling

The seminars will be taught in English and presented by **Prof. Ricardo Castedo Ruiz**, Digym, UPM, Madrid, visiting professor at DIATI
Welcome address by Claudio Oggeri (DIATI)

Venue: DIATI Dept, Entrance **DIATI3**, classroom «Bibolini*» and «Meeting Room 1st floor**»

Dates: **15*, 17*, 29**, 30* November 2022, 4-6 p.m.**

Free access, link to Politecnico academic licenses will be provided for personal use during classes. Code can be installed on personal devices for practice during classes
Teaching material - pdf file of presentations - will be available.

The Seminar is intended for MSc students, PhD candidates, researchers, practitioners.

Up to 40 participants will be admitted, please register through this form **by Nov 11:**
<https://forms.office.com/r/yc77LV7N44>

FIELDS OF APPLICATION:

Automotive Crashworthiness & Occupant Safety

Metal Forming

Aerospace industry application

Drop testing & Impact analysis

Can and shipping container design

Electronic component design

Glass forming

Plastics, mold, and blow forming

Biomedical (heart valves)

Metal cutting

Earthquake engineering


Failure analysis

Sports equipment (golf clubs, golf balls, baseball bats, helmets)

Civil engineering (offshore platforms, pavement design)

Explosions (underwater mines, shaped charges, EFP's, Penetration)

PRE-PROCESSOR
Generates the FE-model
Applies boundary conditions etc



LSTC
Livermore Software
Technology Corp.

LS-PrePost

- ← History?
- ← Geometry
- ← Material
- ← Process

SOLVER
Solves the numerical model



LSTC
Livermore Software
Technology Corp.

LS-DYNA



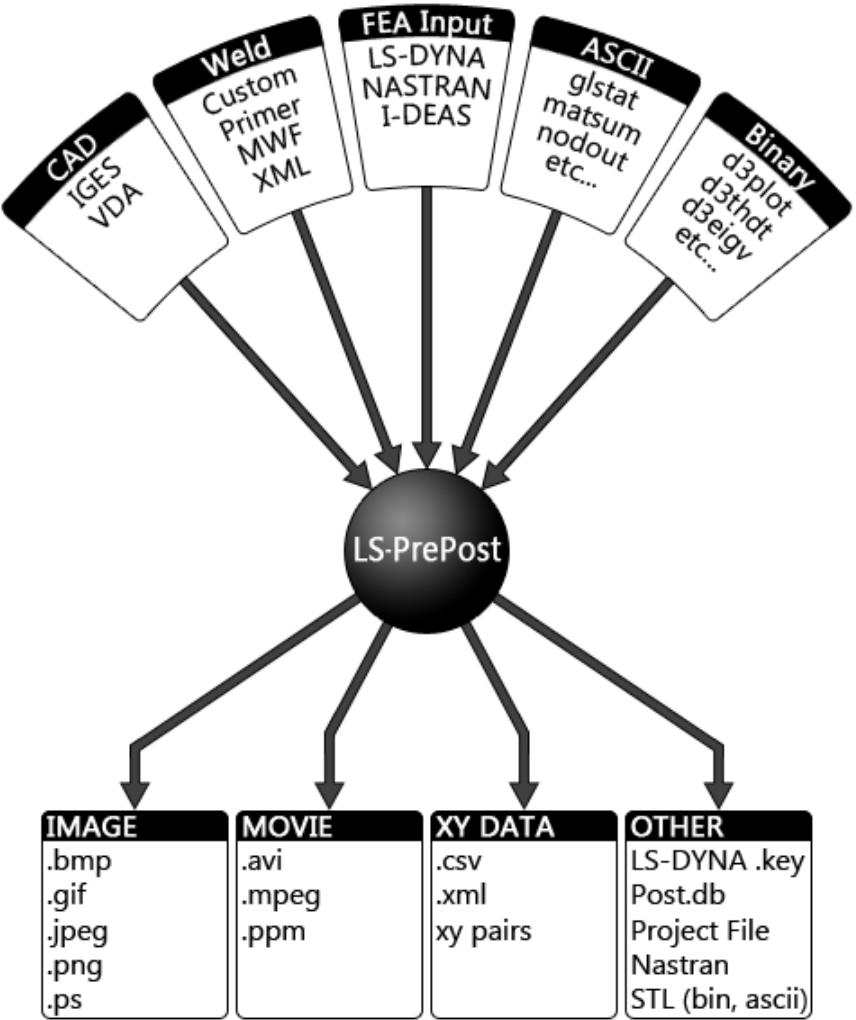
POST-PROCESSOR
View the results



LSTC
Livermore Software
Technology Corp.

LS-PrePost

← Dependence on analysis



Common file IO options