

Code_Aster Professional Network

➤ ***Spreading the benefits***

of Code_Aster Open source and Salome Meca

- ❑ to create **multilateral exchanges** between developers, users and service providers
- ❑ to increase the **visibility** of the members on the various applications carried out
- ❑ to evaluate the **axes of evolution** engaged by various actors
- ❑ to increase the possibilities of **co-operative developments**
- ❑ to gather **common requests to service providers**

➤ ***Users from Industry / Research / Service providers / Teachers***

85 members in 22 countries,

among them 27 universities



Current members of Code_Aster ProNet



Zoom near Europe



Code_Aster Professional Network

- ▶ **Networking in order to reduce one's costs**
- ▶ **Pooling resources and sharing results in projects of common interest : current projects around *rotating machines* ; *vulnerability of old stone masonry* ; *digital twins***
- ▶ **Two meetings each year in Paris**
- ▶ **Dedicated forum for members**
- ▶ **Quarterly Report ProNet Update (currently issue nr 10 and issues now translated into Spanish by SCOPE Ingeneria and into Italian by Simulease)**

<http://www.code-aster.org/spip.php?article890>

- ▶ **How to integrate ProNet ?**

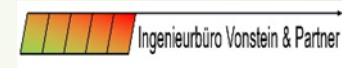
- **Membership form** **<http://www.code-aster.org/spip.php?article439>**
- **Declaration of interest a short text publishable + logo + small annual contribution**



Service providers for Code_Aster and Salome-Meca

- **The EDF Code_Aster Team is the service provider for EDF Group but does not provide services for the external users**
- **Many service providers around the world offering :**

Training sessions



Other distributions



Code_Aster for Windows



Assistance *Public forum / CAE Linux forum*

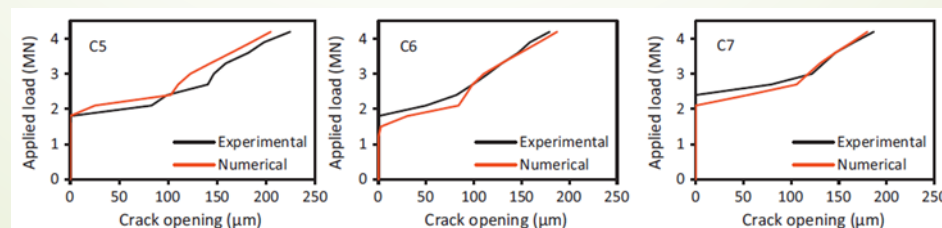


Adaptation for special needs



Code_Aster Professional Network

- *Making the best use of Code_Aster for a sustainable development*
- *Either using the different physics in the open source tool*
- *Or coupling Code_Aster and a native dedicated computation code*
- *For instance : solving aero-elasticity problems for wind turbines using Open FOAM to calculate the flow around the blade and Code_Aster to calculate the highly deformed shape of the blade (Bauman Moscow State Technical University)*
- *Validation against measurement in crack opening in reinforced concrete buildings (EGIS Industries, Ecole Centrale de Nantes, EDF R&D, LMGC Toulouse ...)*



Teaching - Quality assurance - Development

- ❑ **Books** Jean-Pierre AUBRY (ProNet's member) – 12/2013
A step by step approach to ease the learning curve.
How to put the problem, how to solve it and how to interpret the results.
Under licence GNU FDL it is distributed on paperback, PdF file or LaTeX

- ❑ **CAE Linux tutorials**
Produced by a large community

- ❑ **ProNet quality assurance documents**
 - [Quality document I - Naming of releases](#)
 - [Quality document II - V and V of distribution EDF R&D](#)
 - [Quality document III - V and V of other distribution](#)

- ❑ **PhD thesis**
Code_Aster Open source is a good place for capitalization
Each year more than 15 PhD thesis by the Community

- ❑ **Forge tools standards**
- ➔ **External bug tracker for the Community**
- ❑ **Cooperative projects for R&D**

Code_Aster ProNet is a good market place for building new projects

