



CAE consulting services





About you

Do you need to minimize your design costs?

Do you need to catch up with your competition?

Are you short of in-house resource?

Do you have an objective of “Virtual Engineering”?

Do you need to save time on testing?

About us

The CD adapco Group is a global partnership of companies specializing in CFD (computational fluid dynamics) software development and industrial CAE (computer aided engineering) services for FEA and CFD. We have offices throughout the world providing local support, training and consulting services.

Since its formation in the eighties, the CD adapco Group has broadened and expanded its products and services beyond the automotive and aerospace propulsion sectors, where it was always well known, to other sectors including industrial gas turbines, chemical process, power generation, biomedical, construction/civil engineering, rail, marine, electrical and heavy industry. In total, we employ over 300 experienced professional staff and serve over 5000 clients worldwide.

Our objective is to provide real engineering solutions to your problems.

"For over twenty years, the CD adapco Group has consulted on thousands of successful projects. With the combination of highly educated engineers, extensive computer resources and treating you as partners, we can lead you to success. "



How we can help you

Consulting services are a vital part of our business and whatever your problem we will help you reach a solution. Our CFD Consulting Group provides flow and thermal analyses using our range of computational fluid dynamics tools and methods. For solving problems associated with combustion and chemically reacting flow systems, we have a specialized consulting group. Our FEA Consulting Group provides thermal, structural, and dynamic analyses using finite element analysis methods.

Our expert human resource

We benefit from a highly qualified workforce. Our engineers providing analysis and design support have advanced engineering degrees and an average of eight years of advanced analysis experience.

Our experience

Over the last fifteen years, our consulting services groups have completed thousands of projects for hundreds of clients covering a staggering diversity of applications. The nature of the projects we are involved with ranges from providing our clients

with additional resource during periods of peak need, to new application method development, validation and training.

Our computer resource

We have always understood that good analytic solutions are only valuable if provided in timely fashion. Accordingly our consulting groups are equipped with extensive state-of-the-art computer resources. This allows us to respond quickly when your problems are urgent.

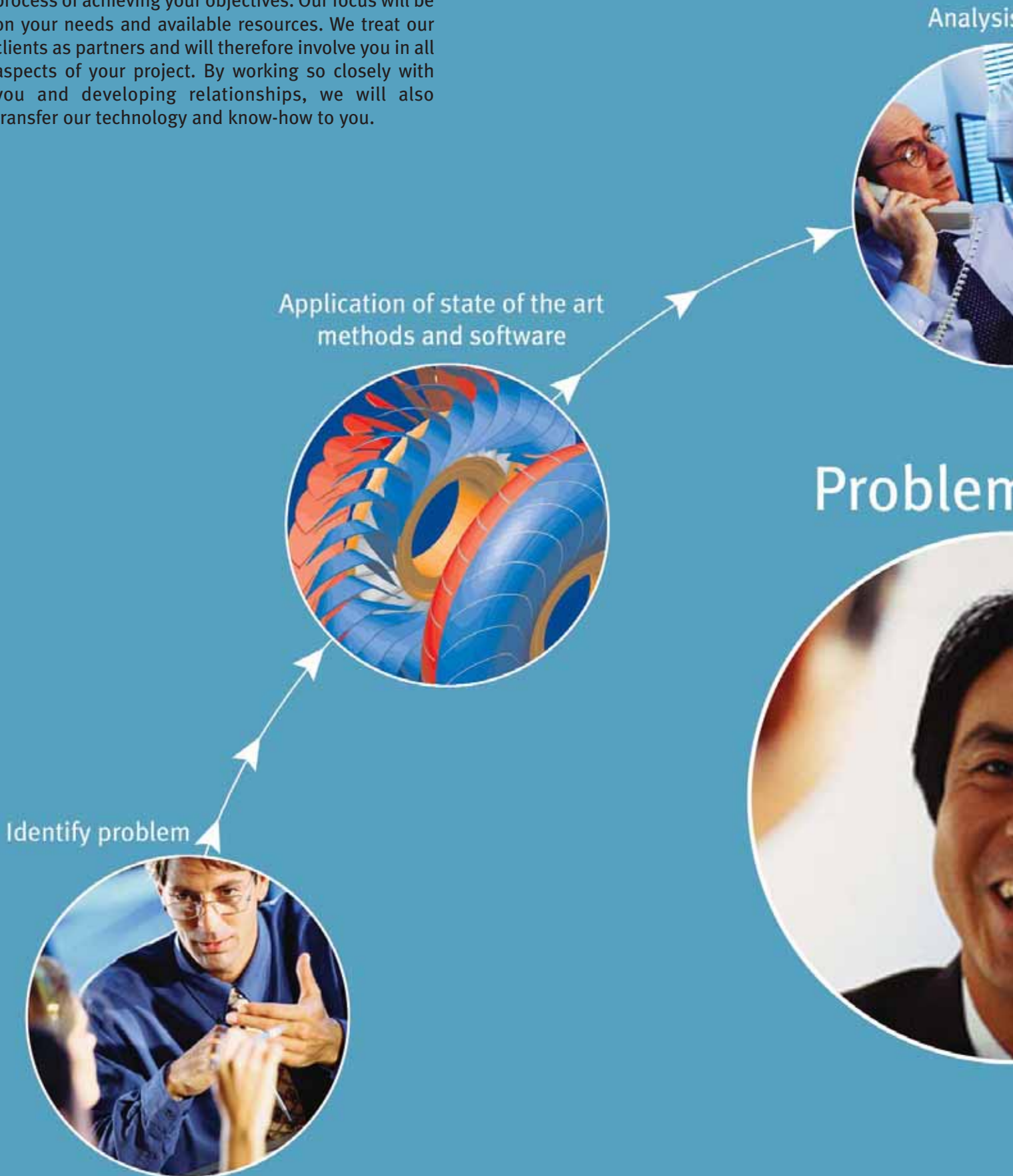
Our quality assurance

Our engineering services are also included in the scope of our ISO 9001 certification, which is not typical of major software vendors. Our written procedures include those that address the handling of proprietary data, the review of objectives and methods at the start of the project, the review of results, the creation and transmittal of reports, and the archiving of project data.



Typical project life-cycle

We will work with you to understand your problems and then assess how we can help you along the process of achieving your objectives. Our focus will be on your needs and available resources. We treat our clients as partners and will therefore involve you in all aspects of your project. By working so closely with you and developing relationships, we will also transfer our technology and know-how to you.



s review



Technology transfer



n solved



Engineering solutions





Frequently asked questions

Can you consult effectively off-site?

Yes, we have a proven record of successful consulting in this way. One of our major clients recently observed that there are more full time analysts in his new vehicle development group sitting at our offices in New York then sitting at his offices in Germany. The world is a much smaller place via email, web conference, and teleconference. You see this in companies all over. We try very hard to create a “we are down the hall” relationship when we work off-site. We offer on-site consulting as well, when appropriate. We have the right staff, in terms of education and experience, to be successful in helping you, regardless of where they are sitting.

Can I send someone to train during the project? Can you come here?

Of course! We love it when folks come to visit. You can come and sit with us for the whole project if your travel budget allows.

We recognize that Technology Transfer is an essential part of our work We will be involved closely with your engineers throughout the project, transfer all the files, and come to you to explain how to continue the work yourself. The CD adapco Group offers a wide range of training - from standard open enrollment to excellent on-site one-on-one mentoring.

How do we exchange data? How about security in sending data? What format?

We have a secure “blind” FTP site and will use your choice of encryption software if you desire. We can exchange surface data in IGES, VDA, STL, but increasingly can read your native CAD files with our surface translator and repair program.

What are your rates?

We have hourly rates, but due to the high and sometimes unknown computer costs

associated with three dimensional CFD and FEA, almost all our jobs are also offered on a fixed price basis. In response to your written workscope, we will provide fixed prices and schedule, so you know exactly what to expect.

Have you validated all this against test data?

Nearly every project we do has some element of validation involved. Some of the analyses we have done have been validated extensively against test data and published. However, the majority of major validation has been as paid projects with clients using their experimental data and that data is proprietary. We will supply you with whatever we have, but for very specific applications, we cannot share specifics with you unless our clients have published the benchmarks themselves.

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