Engineering Services

/Ansys CHANNEL PARTNER

CYBERNET Since 1985

- High-quality and value-added simulation.
- Multi-industry experience.
- Capable of handling complex engineering problems.

For whom

HQ in Tokyo, Japan

Industry Experts

Are you facing any of these challenges?

▶ We want to make analysis work more efficient.

▶ Our team wants to improve their analysis skills.

▶ Lack of resources and time to carry out analysis work.

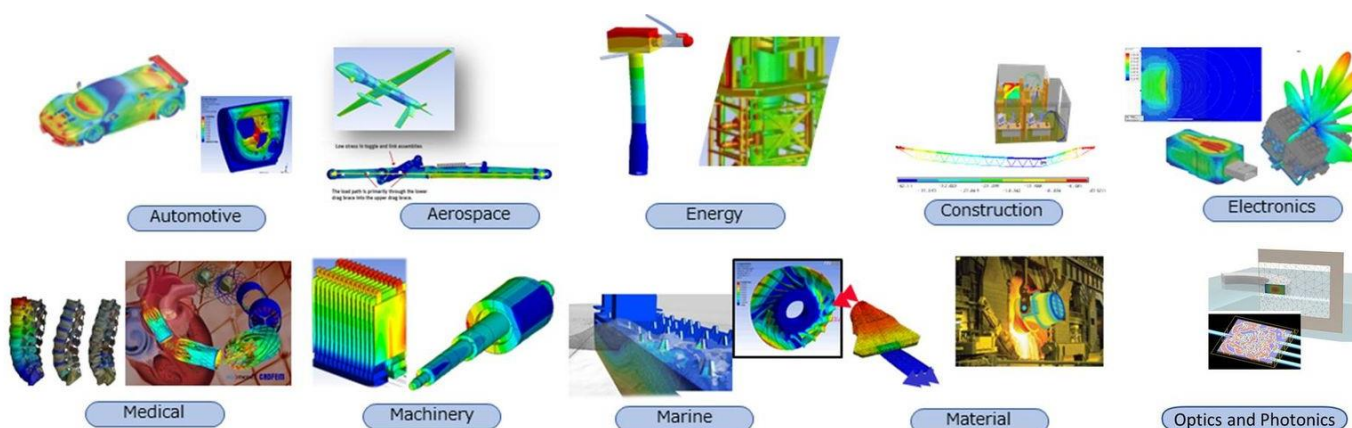▶ We don't know how to start, our team doesn't have enough experience and know-how to perform complex analysis using simulation.

Services we offer

Whether you are looking for a simple design, analysis or optimization task or a company-wide deployment of Computer-Aided Engineering (CAE), CYBERNET can provide the required guidance, consulting, training, and engineering services to surmount your engineering simulation challenges.

▶ **Thermal-Fluid analysis (CFD)**

▶ **Mechanical analysis**

▶ **Optical Analysis**

▶ **Consultation**

▶ **Training & other services**

Simulated with **/Ansys**

Automotive · Aerospace · Energy · Construction · Electronics · Medical · Machinery · Marine · Material · Optics and Photonics

Service flow

▶ Consultation/Appointment → ▶ Simulation Service → ▶ Delivery of Report

Professional Services
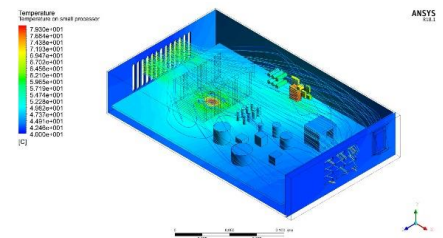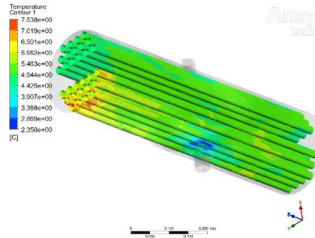
CYBERNET SYSTEMS MALAYSIA SDN. BHD.

Fluid Analysis

- Steady/Transient flow
- Laminar/turbulence flow
- Compressible/Incompressible flows
- Chemical/combustion flow
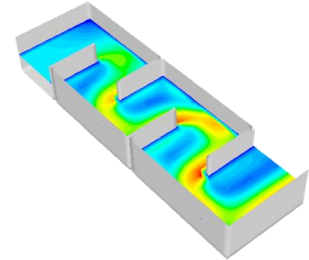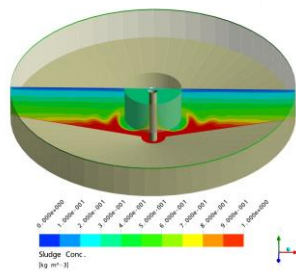- Multiphase flow
- Turbomachinery

▶ Air-conditioning System (HVAC)

- Indoor ventilation simulation
- Building (outdoor unit) heat discharge simulation
- Airflow performance simulation
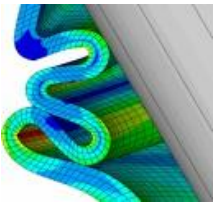- Heat exchanger simulation
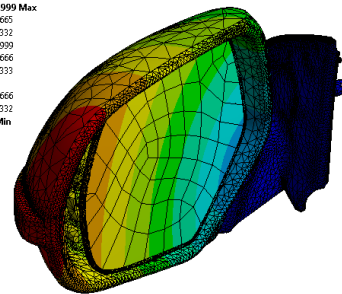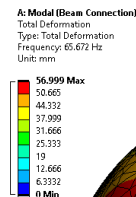

▶ Waste Water Treatment Plant

- Ozone Contact Tank
- Mixing Tank
- Flocculation/Clarifiers
- Sedimentation Tank
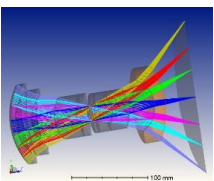- UV Water Disinfection

Mechanical Analysis

- Structural Integrity (displacement/ stress/strain)
- Vibration characteristics (resonant frequency)
- Vibration response to seismic events
- Drop/Collision test
- Fatigue/Fracture/Buckling load
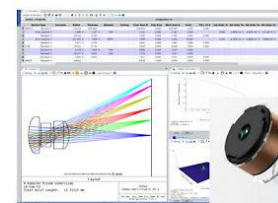- Non-linear Material (Plastic/Hyperelastic/Viscoelastic)

A: Modal (Beam Connection)
Total Deformation
Type: Total Deformation
Frequency: 65.672 Hz
Unit: mm

56.999 Max
50.665
44.332
37.999
31.666
25.333
19
12.666
6.3332
0 Min

Tabular Data		
	Mode	✓ Frequency [Hz]
1	1.	65.672
2	2.	85.332
3	3.	104.39
4	4.	125.14
5	5.	129.57
6	6.	173.37

Optical Analysis

- Lens Design
- Optimize and Tolerance for manufacturability

Other Services

- CAD creation
- CAE environment construction
- Sample model creation
- Customization training
- CAE launch support
- Consulting