MAGORI LAB.

[Sustainable Building design, Energy visualization, and optimized comfortable environment.]

Academic-industry partnership for proactive & holistic energy demand management for construction sector, Social Cooperation Program

http://www.magorilab.iis.u-tokyo.ac.jp/

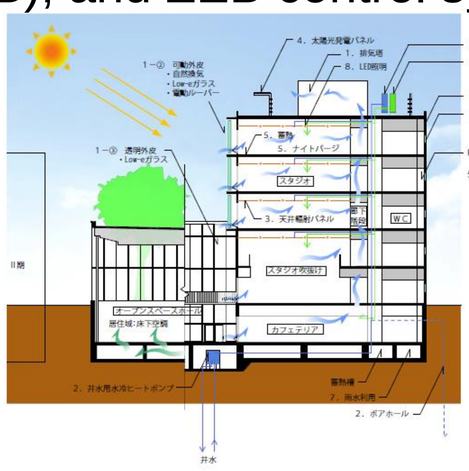
Energy Demand Management Engineering

Engineering/Architecture

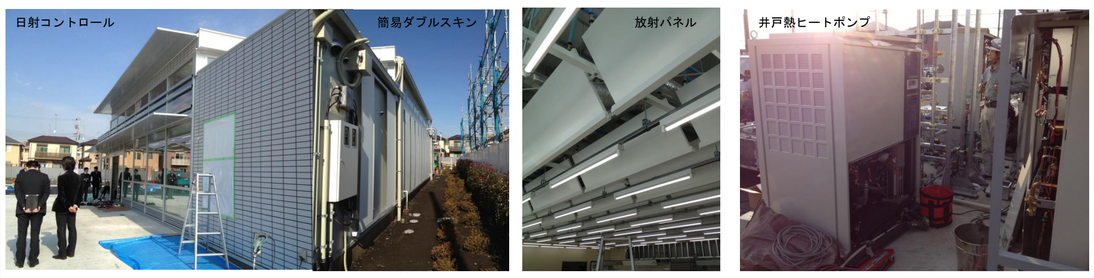
Sustainable Building design.

Our research and development proposes a new energy synergy structure.
We have developed The Mieruka system and A.I. M & E control system for building functions, mechanical and equipment, and operations.

◆ R&D for Zero Energy Convenience Store (ZECS), Zero Energy Building (ZEB), and ZEB control systems



Pic1+Fig.1 Komaba Center for I
▲ 67% energy saving

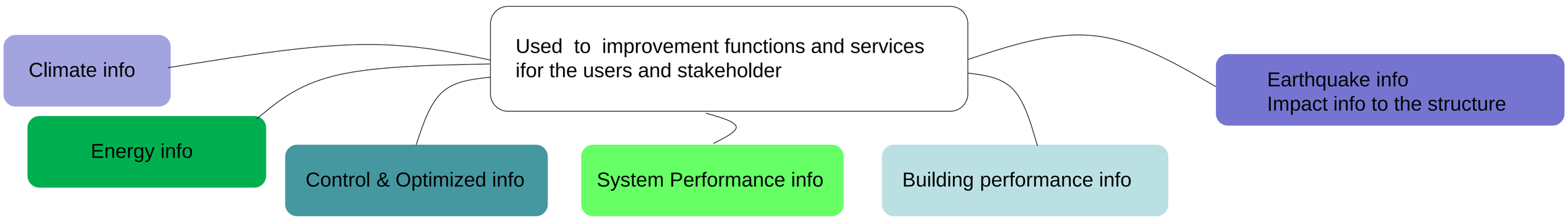


Pic.2 Environment and Energy Conservation store
▲ 40% energy saving

Pic.2 Environment and Energy Conservation store
▲ 70% energy saving (Target)

Energy visualization, and optimized comfortable environment.

◆ R&D for the intelligent sensor and controller for integrative energy optimization
◆ R&D for automatic analysis and optimized control for energy demand and energy use



制御システムとセンサー

Sensor controller
最適運転制御コントローラ

watt-hour meters
電力計

Window thermal sensors
窓面の温度計

Boiler Thermal sensors
ボイラー温度計

Outside air Thermal and Humidity sensors
外気温湿度計

断熱性能センサー

Passive + Active insulation
アクティブ＋パッシブ断熱

地震センサー（3軸加速度センサー）

Seismometer
地震センサー