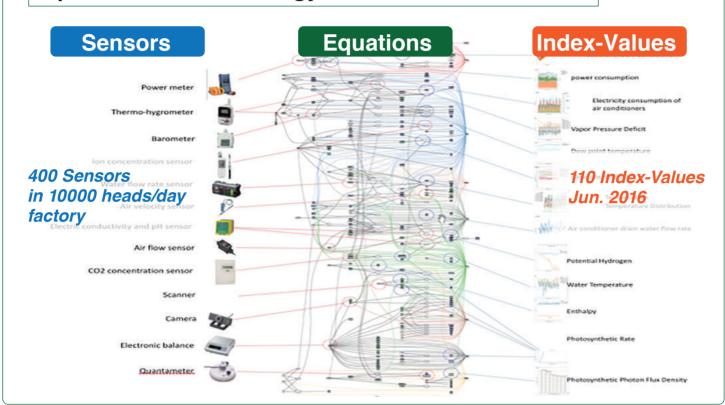
What is SABAIX?

Environment condition & Growth rate management systems

Equations chain of Energy and substances balance

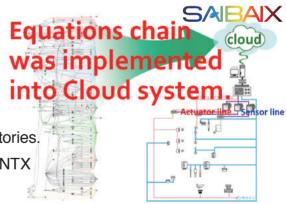


Dr.T. KOZAI & PLANTX Engineers

SAIBAIX is an environment condition and Growth rate management systems in a Plant Factory.

It was developped by applying Dr. T. KOZAI's 300 peer-reviewed papers regarding the relationship

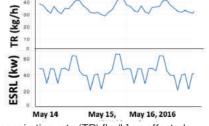
between rate variables and state variables within Plant Factories. During the last two and half years, Dr. KOZAI and the PLANTX engineers had more than 100 study sessions.



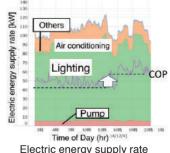
Growth rate is managed by index values of SABAX

SRL (kw) May 16, 2016 May 14 May 15.

Net Photosynthetic rate (NPR) [kg/h] as affected by electricity supply rate for lighting (ESRL) (kW)



Transpiration rate (TR) [kg/h] as affected by electricity supply rate for lighting (ESRL) (kW)



Electric energy supply rate



SAIBAIX is Environment condition & Growth rate management system





SAIBAIX Dashboard at Raise Plant Factory in Chiba Univ.

Made it possible to double the productivity of harvests.

Achieved 120g / head average harvest weight of ruffle lettuce.

By implementing SAIBAIX, the average harvest weight has increased from 60g/head to 120g/head in 36 days from seeding.

With the establishment of PLANTX, It is possible to double the productivity in Plant Factories.

