ADOPTING BUILDING AUTOMATION IN WEBLABS
Analysis Of Requirements And Solutions
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Weblabs
- used for educational purposes since 90's (Remote Experimentation);
- implemented using different hardware/software technologies;
- the control of the physical space and the power infrastructure are usually
  forgotten and, if implemented, specific solutions are adopted;

A DOMOTIC SYSTEM BUS IS A STANDARD SOLUTION !!!

Adopting a Domotic System Bus enables:
1-controlling the power infrastructure (may be turned on/off)
   - reduce power consumption and saves energy costs
   - avoids equipment ageing effects
   - technical support may be reduced
2-controlling light and temperature conditions
   - promote the correct lab operation
   - some experiments may require a precise temperature/light control

Proposed Architecture
to control the physical environment and the power infrastructure

Implemented solution
KNX Std. Domotic System
- European Std. (CENELEC/EN 50090) and world Std. (ISO/IEC 14543-3);
- High product quality guaranteed by KNX Association - http://www.konnex.org/;
- Guarantees interoperability of products from different manufactures;
- Based in the communication stack of the EIB specification.

Implemented software solution
Remote Interface

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