



## SUREURO Technical Support System Toolbox (web)

SUREURO technical support systems includes:

- Energy (heating, electricity, air treatment and quality, gas)
- Water (drinking water)
- Sewage water
- Rain water runoff
- Waste (household waste)

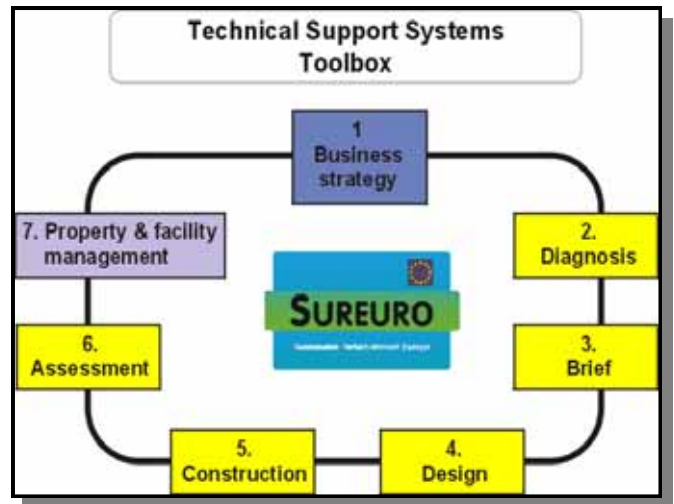
The technical support systems toolbox is a method meant primary to be used by engineers and experts on the relevant technical support systems.

End users may be i.e. project leaders in the housing company who might be the one in command and the one to use the results as decision support material.

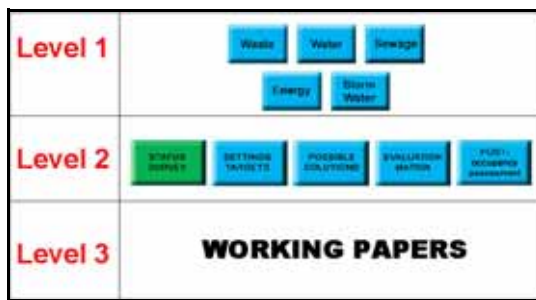
The toolbox is built up as a working method with the same structure for each of the relevant techniques.

The following steps are the main options:

- **Environmental status survey:** used mainly in the diagnosis phase
- **Setting targets:** used mainly in the brief phase
- **Possible solutions:** used mainly in the design and construction phase
- **Evaluation (of possible solutions):** used mainly in the design and construction phase
- **Post Occupancy Assessment (Post status survey):** used mainly in the assessment phase



The different phases of running a housing company including refurbishment projects has been identified in a Conceptual Process Model relevant for issues especially according to the way of working in SUREURO, see below. Above mentioned are phases where you most likely will find it relevant to use the different parts of the toolbox for technical support systems. It may be useful also to use i.e. “Status survey” and “Evaluation of possible solutions” in other phases and situations.



As support to the parts (especially “Possible Solutions”) in the toolbox mentioned above, a database is available.

The database comprise interesting Technical Refurbishment Alternatives (TRA) and external tools (calculation programs, optimisation programs etc). The TRAs and external tools are described from different points of views, especially ecological and sustainable ones.

In connection to “Sustainable Checklists”, construction material will also be considered (for example in the Status Survey). The method also considers the tenants involvement and necessary cooperation with the municipality (infrastructure).

As sustainability means ecology, social and culture aspects as well as economy all these factors are parts of an evaluation method. It is important that the renewed technical systems are not as expensive that the tenants can’t afford to stay in their apartments.

It is important to realise that working with technical systems you need to co-operate with and deliver a result as a decision support material for the project leader in the housing company.

To make it possible to use the results achieved working according to SUREURO technical support method, most of the results will occur in A4 sheets with illustrations using a 5 colour degree scale.

