CONCURSO REINVENT CITIES, TAKE SMOKE; MAKES WATER ::: 100M2 architecture << MEMORIA DEL CONCURSO >>

Take smoke makes water" think that something is wrong and we must fix it, the urban environment is degenerated; the smog is the degeneration of the air.

"Take smoke makes water" is an "architectural device" posted on various scales of the city (S, M, and XL) and serves as a catalyst for air pollution (smog).

Every year about 20 thousand people die in the most important cities, because of pollution, this corresponds to 6% of all deaths, and 1.7% of central GDP in treating diseases.

In poor countries about 1 billion people live without access to water, which corresponds to 46.6% of urban population;

Smog in large cities = (sulfuric acid) H2SO4 Acid rain = (Carbon dioxide) H2CO3

```
H2SO4 - H2O (water) = "no smog reaction»
H2CO3 - CO2 (Carbon dioxide) = H2O (water)
```

"Take smoke, makes water" is a triple set of interventions defined by a logic of sustainable energy in social-urban action, relative to 3 scale levels (S, M, L).

The strategy of occupation (or settling) of the site is generated from the location of the new nucleuses of CLEAN areas.

The location follows a logic of density and multiplicity of the population and social advice; this means that the position or the number of interventions depends on the capacity of the users proposed, more number of users, more number of nucleuses and / or combination among them.

The idea is to generate an "active skin" composed of chemical filters that function as catalysts caught-fog (caught-smog) in conducting their internal reactions that clean air and recovery water, which is transmitted to the medium in the form of vapor water or simple condensed potable water.

This skin is applicable to multiple types of buildings and works according to three logical situations; overlap saturation and osmosis.

Reaction: H2SO4 pass through filter = H2O

Overlap: proposes the installation of an autonomous element which feeds back with his close radius of action, work as an implant in social-environmental emergency situations. Saturation: elements of metropolitan character with high capacity filter of H2SO4. Osmosis: insertion microclimates located on high density, small-scale urban projects.

At the same time, the intervention proposes an image that generates identity with the environment; "weather logic" will do the nucleuses into elements of changeable aspect; it is a process that emulates the succession of living systems and his unpredictable action.