COVID-19

REVEALING THE IMPORTANCE OF HOLISTIC HEALTH DESIGN ON BUILDINGS

Suzanne DÉOUX, Physician
Marine GUIJS, Project manager Medieco
Not just about the absence of illness or disability

A state of complete

SOCIAL

MENTAL

PHYSICAL

WELL-BEING
URBAN AND BUILT SPACES ARE SOURCES OF WELL-BEING

WHEN THEY RESPOND TO

HUMAN NEEDS

- Social
- Psychological
- Sensitive
- Sensory
- Physiological
URBAN AND BUILT SPACES MUST MEET THE FOLLOWING NEEDS

- **Psychological**
  - Intimacy, Security, Tranquility, Stimulation, Aesthetics, Emotion, Creativity, Play, Adaptability, Biophilia, Self-estime, etc.

- **Sensitive**
  - See, Hear, Smell, Touch, Taste

- **Social**
  - Friendliness, Connections, Sharing, Intergenerationality, Services, Belonging, etc.

- **Physiological**
  - Temperature, Humidity, Space, Electromagnetics

- **Sensory**
  - Breathe, Drink, Eat, Eliminate, Move, Rest, Sleep

UTC - Healthy Environments through Architecture - 24th October 2020
## TRANSLATION INTO URBAN AND BUILT SPACES

<table>
<thead>
<tr>
<th>Physiological</th>
<th>Sensory</th>
<th>Sensitive</th>
<th>Psychological</th>
<th>Social</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air quality</td>
<td>Sound quality</td>
<td>Heat islands</td>
<td>Relaxing spaces</td>
<td>Shared activities</td>
</tr>
<tr>
<td>Water quality</td>
<td>Visual quality</td>
<td>Freshness islands</td>
<td>Urban furniture</td>
<td>Reception and meeting spaces</td>
</tr>
<tr>
<td>Food</td>
<td>Light</td>
<td>Electromagnetic environment</td>
<td>Vegetation</td>
<td>Access to services</td>
</tr>
<tr>
<td>Wastewater management</td>
<td>Colors</td>
<td>Spaces Volumes</td>
<td>Security</td>
<td>Employment</td>
</tr>
<tr>
<td>Physical activity</td>
<td>Smells</td>
<td>Freshness islands</td>
<td>Works of art</td>
<td>Equipment</td>
</tr>
<tr>
<td>Calm</td>
<td>Textures</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food</td>
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<td></td>
<td></td>
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</tbody>
</table>

### Livre blanc 2.0
https://www.architectes.org/urbanisme-responsable-et-ethique-pour-la-sante-de-tous
TRANSLATION INTO MEDIECO’S PROJECT

Head office of the Bank « Crédit Agricole » in Lyon
TRANSLATION INTO MEDIECO’S PROJ

Head office of the Bank « Crédit Agricole » in Lyon

Existing projet
TRANSLATION INTO MEDIECO’S PROJECT

Head office of the Bank « Crédit Agricole » in Lyon

Connection to the city
Head office of the Bank « Crédit Agricole » in Lyon

- Connection to the city
- A place where people meet
TRANSLATION INTO MEDIECO’S PROJECT

Head office of the Bank « Crédit Agricole » in Lyon

Connection to the city
A place where people meet
Outdoor social spots
Head office of the Bank « Crédit Agricole » in Lyon

- Connection to the city
- A place where people meet
- Outdoor social spots
- View / Access to vegetation
HEAD OFFICE OF THE BANK « CRÉDIT AGRICOLE » IN LYON

- Connection to the city
- A place where people meet
- Outdoor social spots
- View / Access to vegetation
- Natural light optimization
Head office of the Bank « Crédit Agricole » in Lyon

- Connection to the city
- A place where people meet
- Outdoor social spots
- View / Access to vegetation
- Natural light optimization
- Air quality
TRANSLATION INTO MEDIECO’S PROJECT

Head office of the Bank « Crédit Agricole » in Lyon

- Connection to the city
- A place where people meet
- Outdoor social spots
- View / Access to vegetation
- Natural light optimization
- Air quality
- Electromagnetics field
### MAIN PROBLEMS IN LIGHT OF COVID-19

<table>
<thead>
<tr>
<th>Problem</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lack of indoor space</td>
<td>apartments, offices, schools</td>
</tr>
<tr>
<td>Inadequate school toilets</td>
<td>for proper hygiene</td>
</tr>
<tr>
<td>Insufficient flexibility of spaces</td>
<td>to isolate infected people: retirement homes for the elderly</td>
</tr>
<tr>
<td>Lack of outdoor space</td>
<td>balconies, terraces, gardens, covered playground for schools</td>
</tr>
<tr>
<td>Inadequate air renewal and malfunction of ventilation equipment</td>
<td></td>
</tr>
</tbody>
</table>
Thank you for your attention

Engineering office for health in buildings and urban projects

medieco.fr