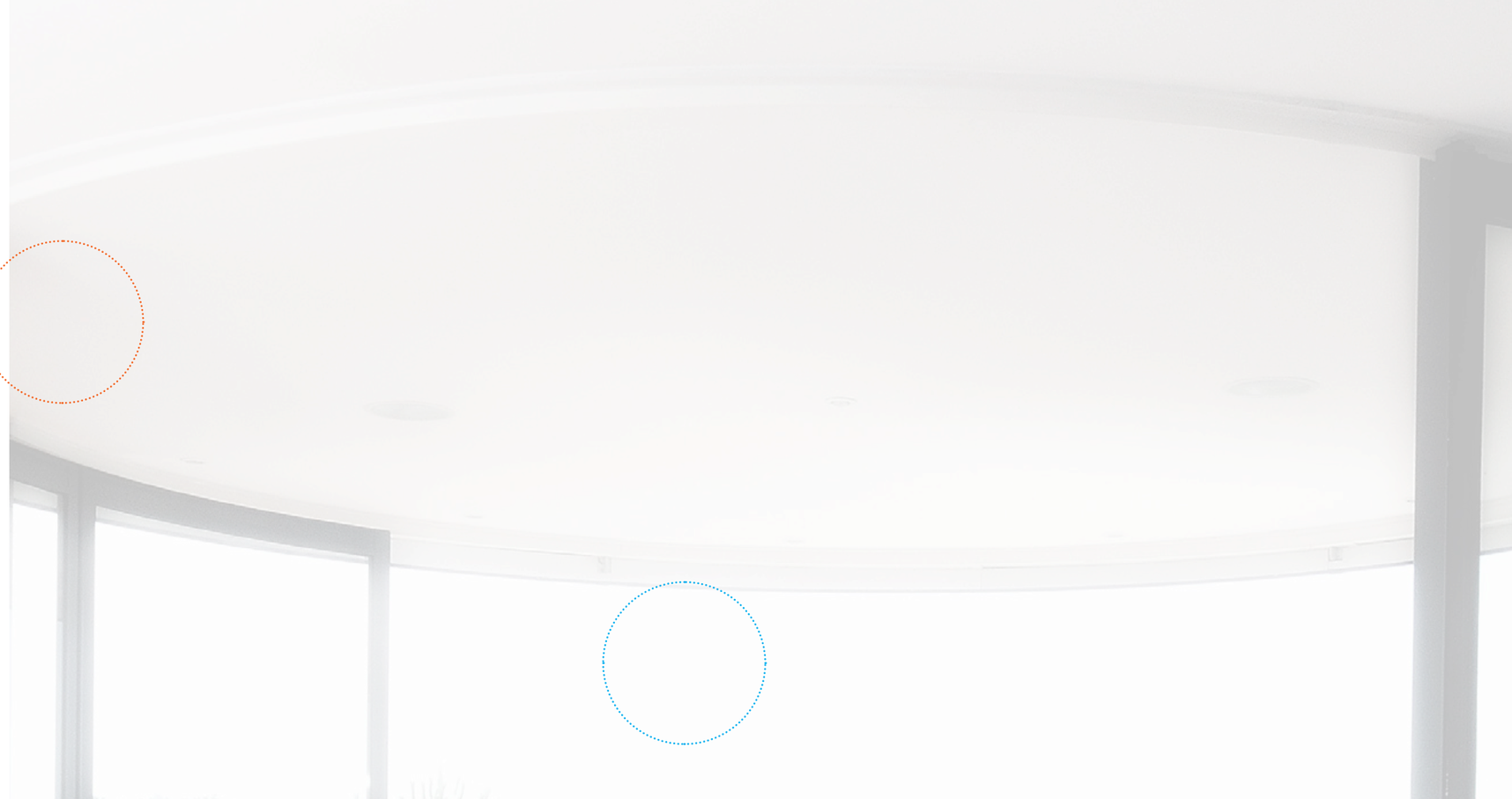
LumiFlats
concept
by
LUMICENE®
+
ANSKA



LUMICENE®

LUMICENE® is a unique concept of bioclimatic window, clever compromise between a balcony, a loggia or a traditionnal bow-window. It focuses on the inside/outside relationship with a new approach trying to make the most of the use of space and sun light.

Made of curved and panoramic glazed panels, this adjustable space can be transformed from a living room (inside) into a balcony (outside) in one go, thanks to its set of sliding panels.

LUMICENE® is a young, dynamic and innovative company managed by:

Laurent Salvaire - Engineer and designer graduated from Saint-Luc institute in Liège, Belgium. Laurent is LUMICENE's inventor.

Clément Salvaire - graduated from ESC in Toulouse in 2006, former Deputy Managing Director at PhotoBox. Clément joined LUMICENE® in May 2015.

product

A N S K A

A N S K A is an architecture practice with an international profile.

Young company, A N S K A explores new digital design technologies and 3D printing, while standing up for its creativity, sensibility and strive for innovations.

A N S K A was created in 2014 by:

Stanimir Paparizov - architect trained at ENSA Paris La Villette and at TU Delft in Netherlands. He worked for Foster+Partners in London and was in charge of the Velodrome Stadium roof digital design for SCAU.

Kalina Petkova - architect trained at ENSA Paris Villette and at TU Delft in Netherlands. She worked for Chaix and Morel, Valode and Pistre, Michel Beauvais and Groupe-6. She brings the BIM knowledge within the company.

Concept **LUMIFLATS**

LUMIFLATS is the output of a discussion which started in early 2016 between two young companies, ANSKA and LUMICENE®. Both share a common vision about the need to think our future homes differently, with a clear focus on the inside/outside relationship.

This project is a first example, the start of a more general thinking.

Our sole objective is to generate discussions and come up with new ideas to create a new generation of housing.

The question we asked ourselves was not :

“Where can we install LUMICENE?”,

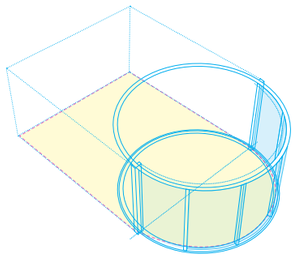
but :

“As architects, what solutions could LUMICENE offer us?”

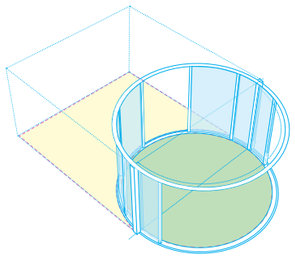
Possibilities of a product

Dynamic Characteristics

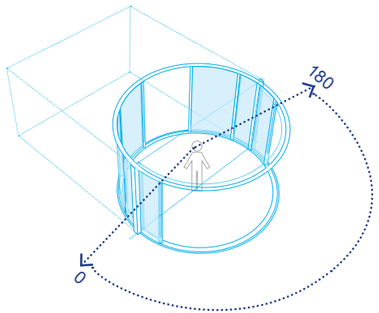
Optimised living floor area



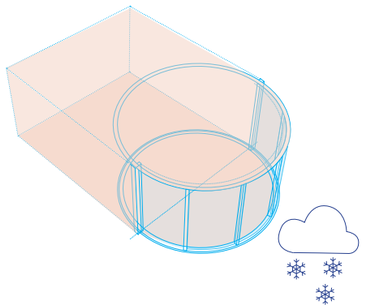
Spatial transformation



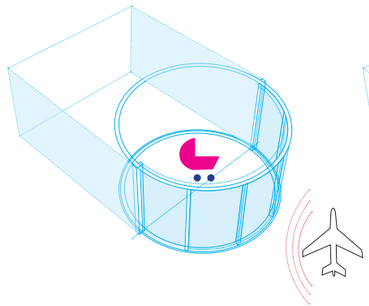
180° view
(LUMICENE open or closed)



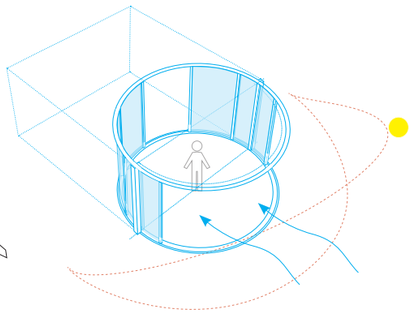
Thermal comfort
(Winter and summer)



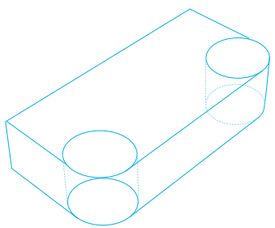
Acoustic comfort

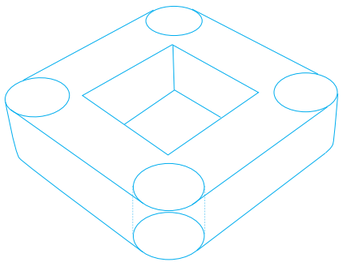


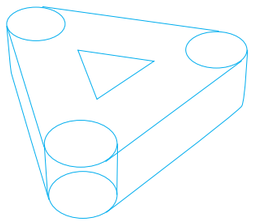
Air and light



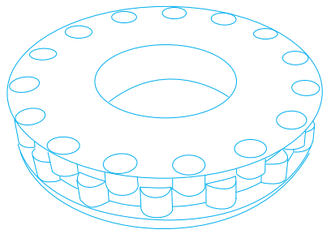
Angle Approach

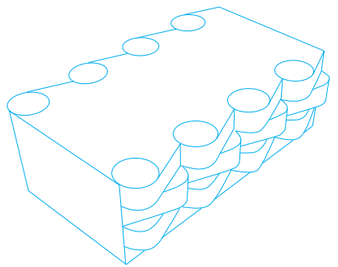


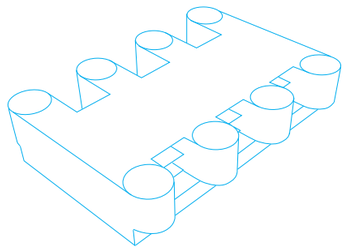




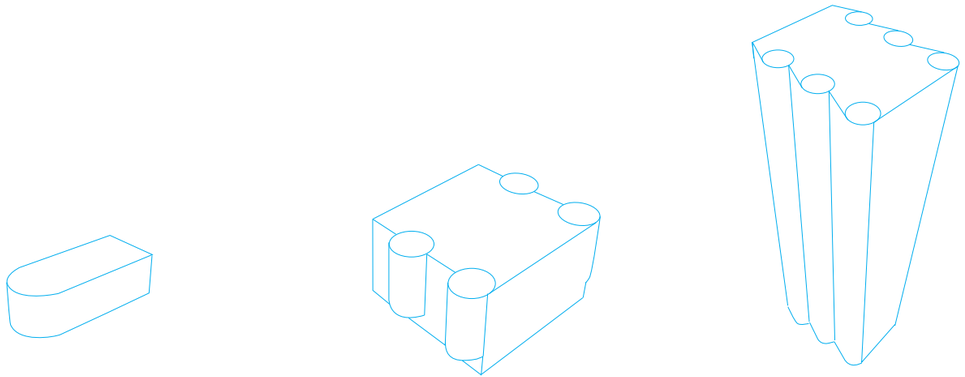
Systems Creation



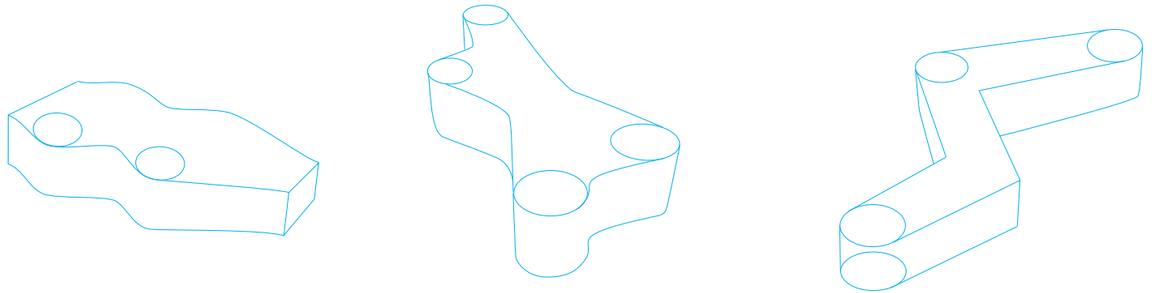




Evolving Modularity



Organic Shapes



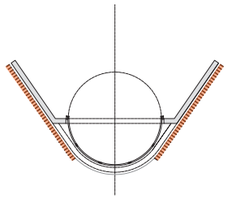
Our initial studies about LUMICENE architectural potential encouraged us to create a project prototype in order to 'simulate' the product's possibilities in 'real' conditions.

We do not aim to create a detailed design, but to launch a range of coherent and progressive design languages meeting the spirit of our time.

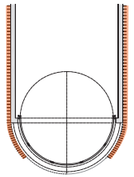
Development of a prototype

Various attitudes to create

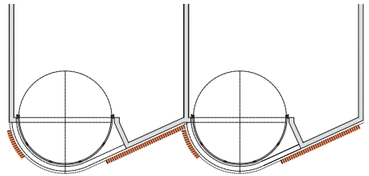
. Angles
(LUMICENE base detail)



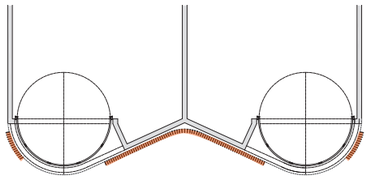
. Mono-Modules



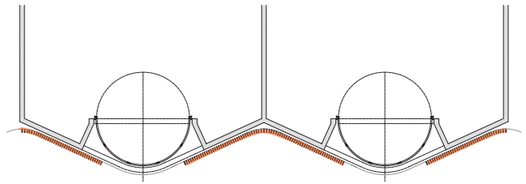
. Oriented grid



. Fluide L



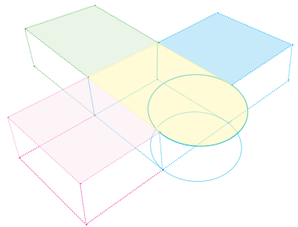
. Fluide XL



Targeted principle

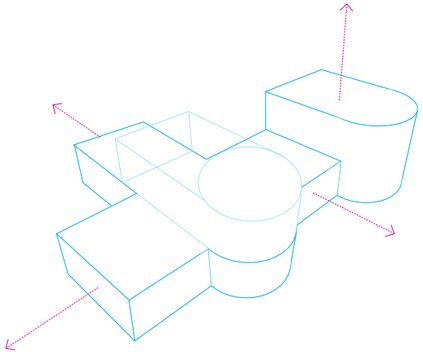
. Product

. Combinative modularity



. One-bedroom flat
. Two-bedroom flat
. Three-bedroom flat

. Adjustable system



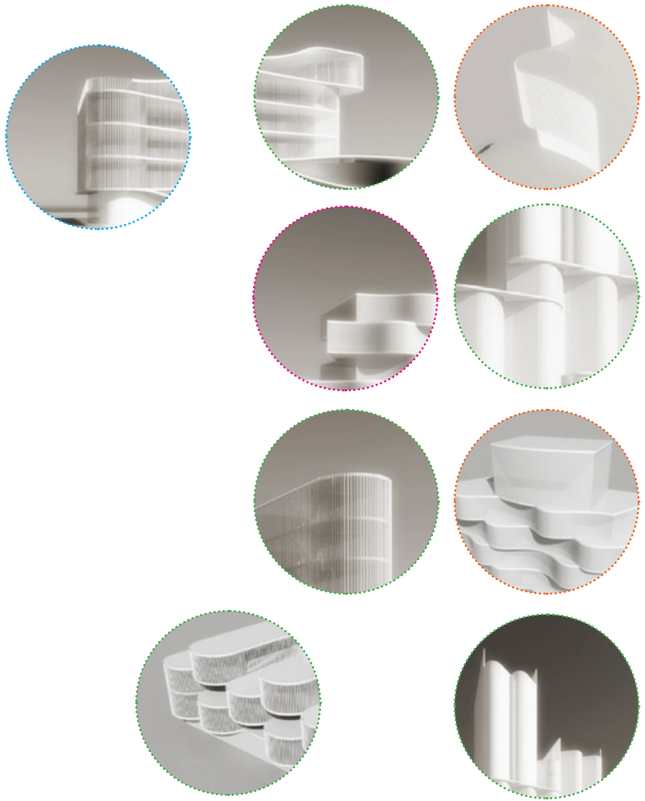
. brief
. urban context
. social interaction
. environmental qualities
. natural light

Process

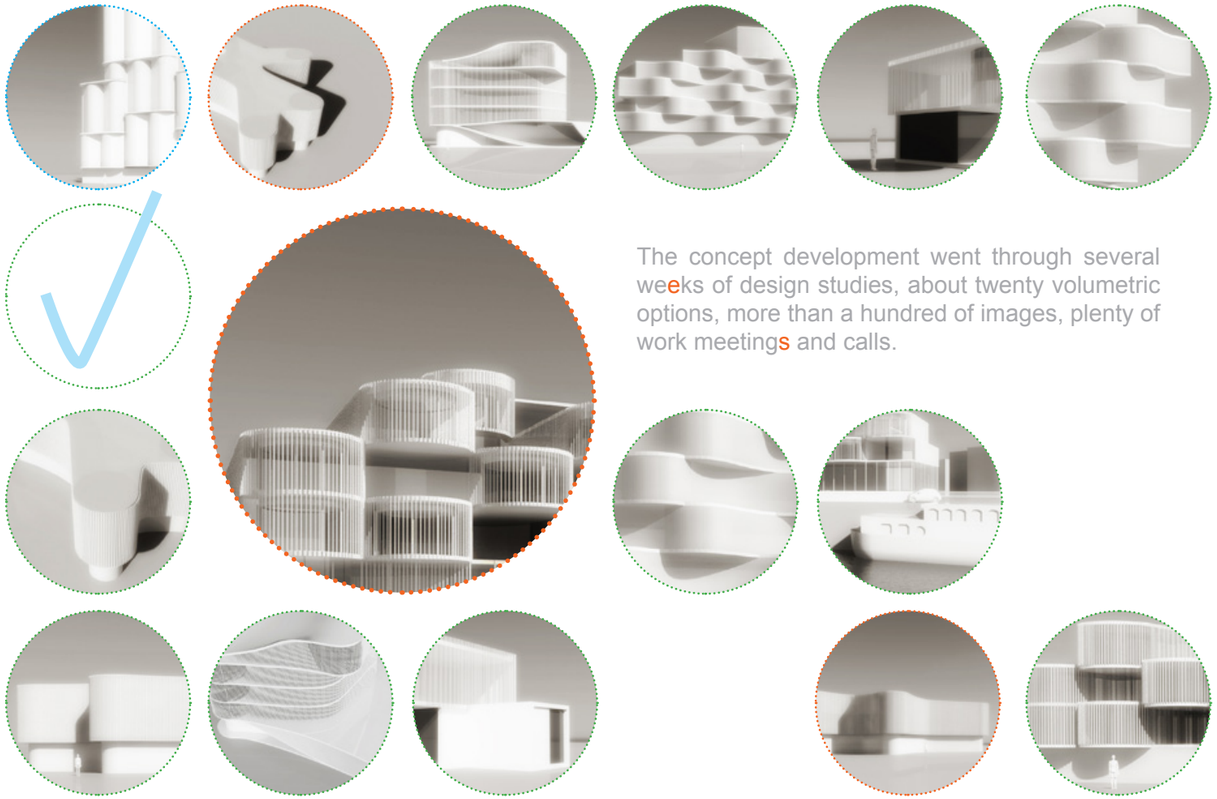
12
weeks of studies

19
volumetric options

114
Images



The concept development went through several weeks of design studies, about twenty volumetric options, more than a hundred of images, plenty of work meetings and calls.

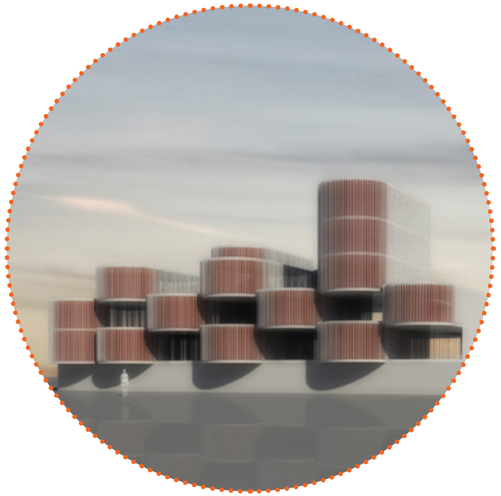


. Autonomous

. Organic

. Plot

. Modular gardens



. Down Town

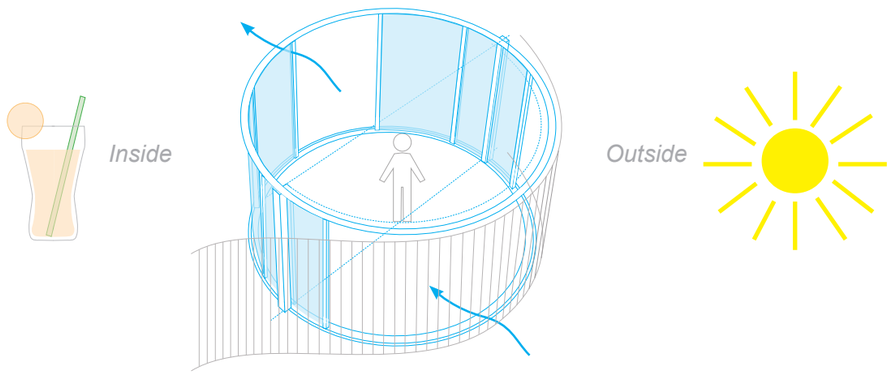
. Urban Dense

Site + prototype to develop

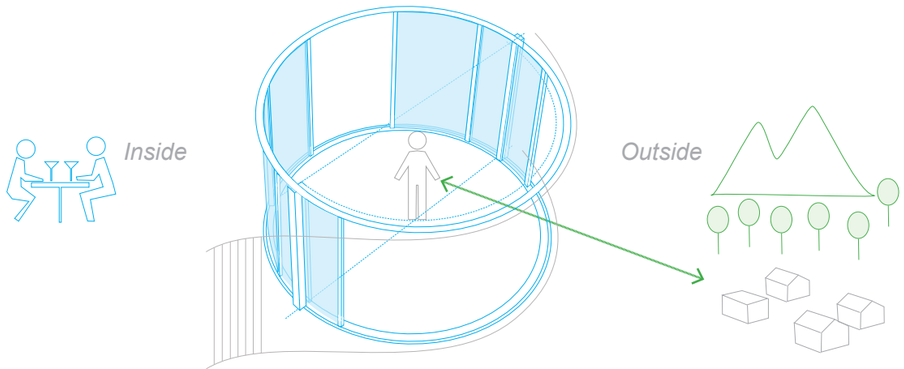
The site to discover the concept is situated in Lyon on the Quai Rambaud overlooking the river Saône. It is within a new urban redevelopment, combining various scales and architectures. The location takes full avantage of views over the landscape and has a special relationship with water. An exceptional site with numerous aspects where the inside/outside relation is essential to integrate architecture.

We chose to develop the prototype named «Modular Gardens». Its volumetric composition allows a strong urban and programmatic adaptability. Some dynamic volumes create a system of voids and enclosed spaces. An interesting relation with context and light could thus be created and LUMICENE will have its proper role to play. The industrial and fluvial aspect of the site will be reflected in a contemporary, respectful, stylish and open architectural language.

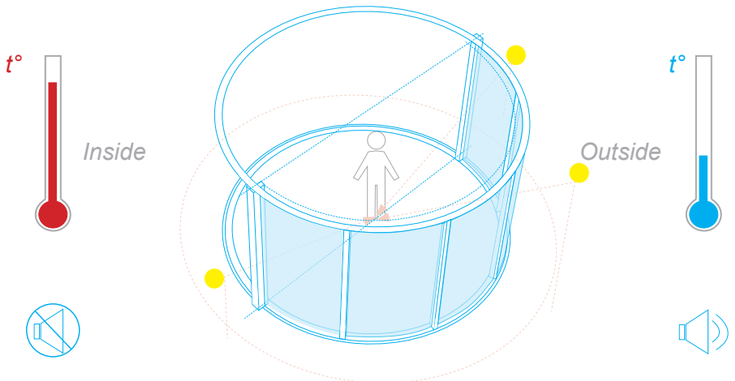
Natural ventilation + solar protection



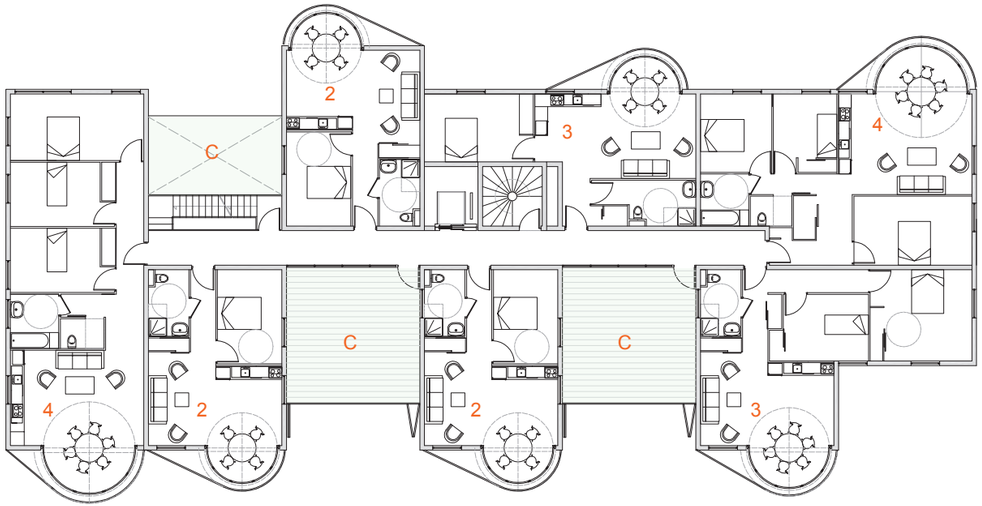
Contextual opening + urban presence



Natural provision + thermal / acoustic comfort

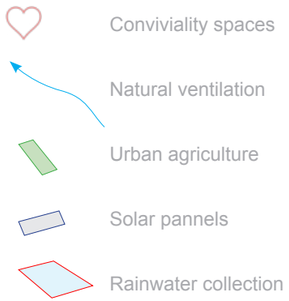


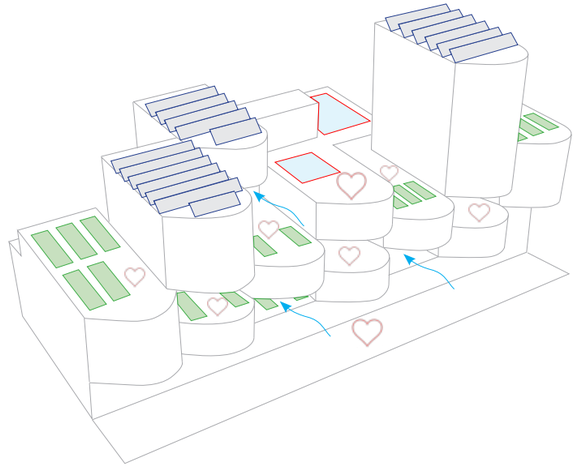
General floor plan

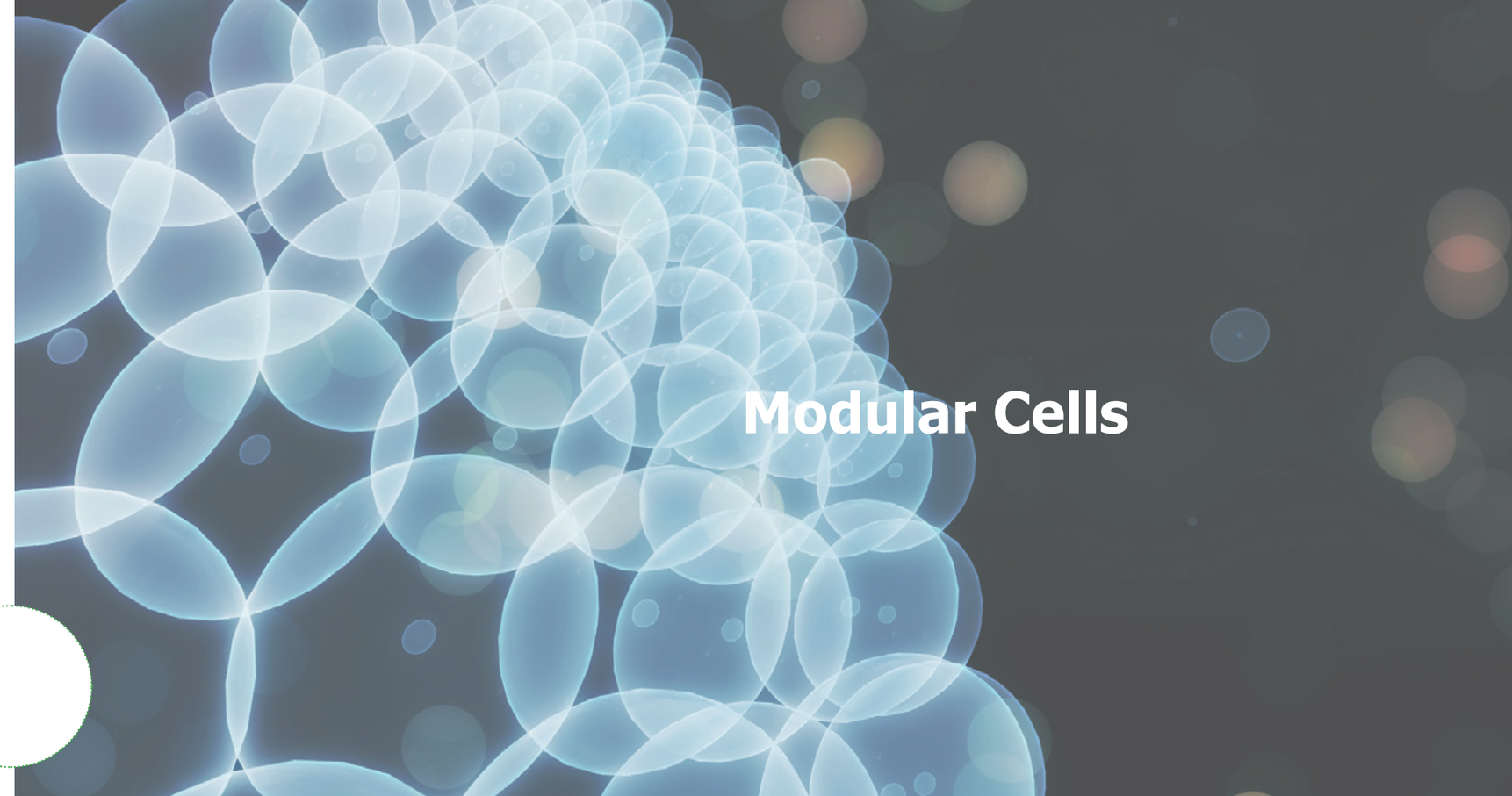


2 - 1BR (LUMICENE 3m)
3 - 3RM (LUMICENE 3m)
4 - 4RM (LUMICENE 4m)
C - Conviviality or Urban agriculture

Environmental possibilities + social interactions



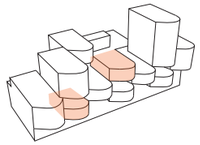


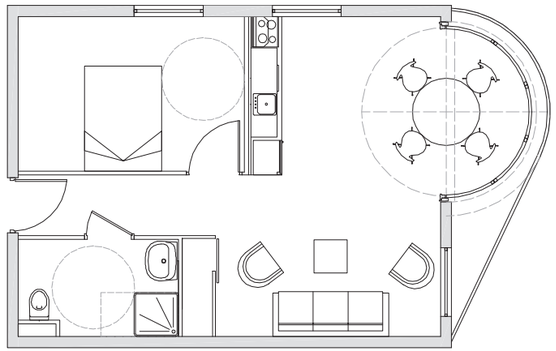

Modular Cells

Lumi Cosy

1BR 48m²

LUMICENE d=3m

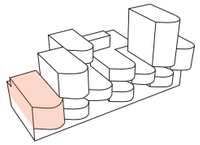


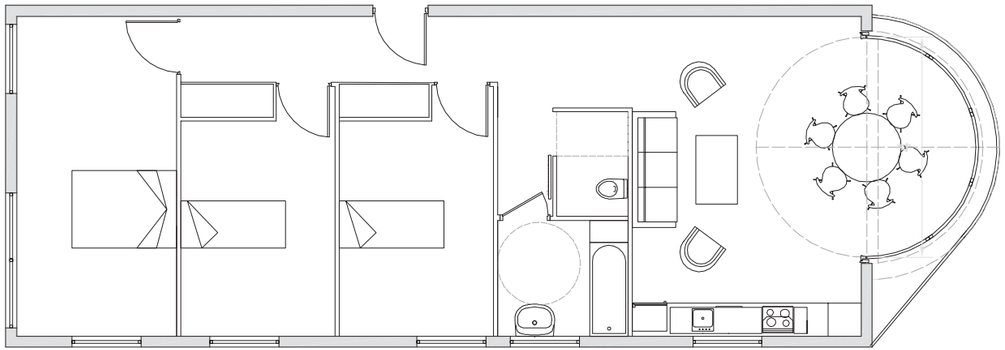


Lumi Premi

3RM 90m²

LUMICENE d=4m

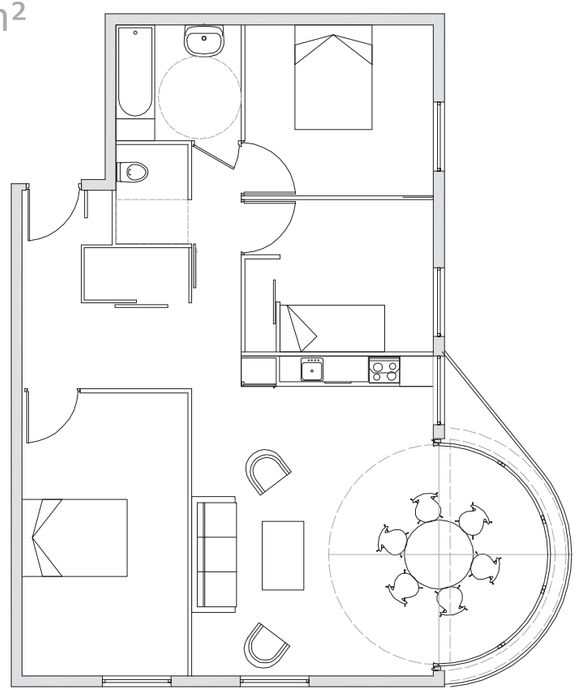


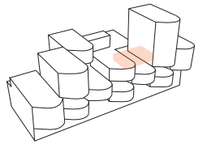


Lumi Classic

4RM 89m²

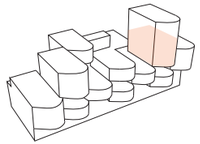
LUMICENE d=4m

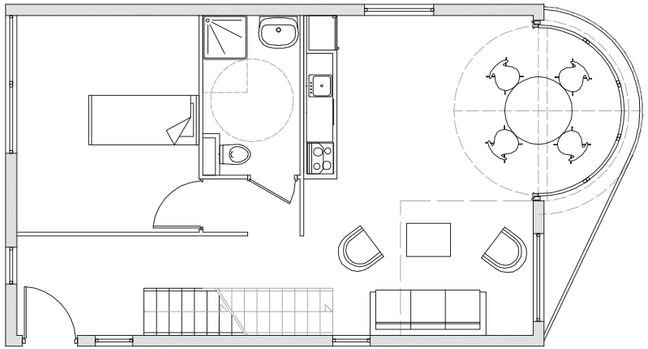




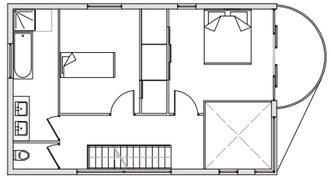
Lumi Plex
3RM

LUMICENE d=3m





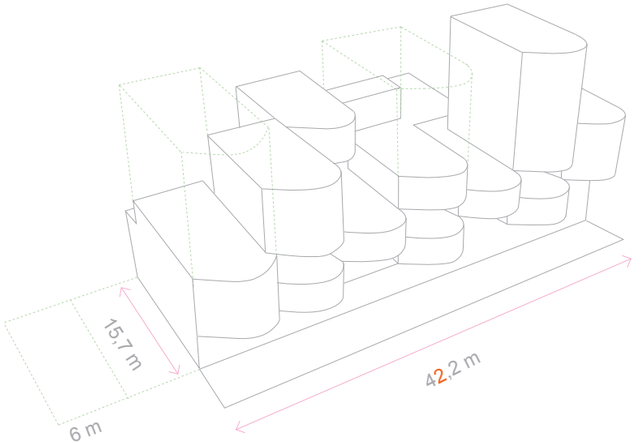
Floor 1



Floor 2

Lumi Plex

LumiFlats Specifications + extensibility



Plan dimensions: 42,2m x 15,7m

Height: from 9 to 22 m/ +

Number of floors: from R+2 to R+6/ +

Main typologies:

. Lumi Cosy / 1BR
. Lumi Classic A / 3RM
. Lumi Premi/ 4RM
. Lumi Plex / Duplex 4RM
. Lumi Classic B / 4RM

Modular grid: 6 m

Credits

LUMICENE
reinvents the relationship between inside and outside
Laurent Salvaire - CEO
Clément Salvaire - COO

www.lumicene.com

ANSKA
architects

Stanimir Paparizov
Kalina Petkova

www.anska.eu

© prototype, images, presentation ANSKA

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