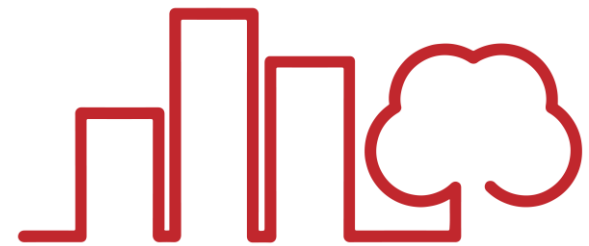


EU BIM FOR BUILDING RENOVATION COMPETITION

Overview & Awards Ceremony

Jasper Vermaut (REHVA)



**SUSTAINABLE
PLACES 2022**

Sep. 6 - Sep. 9, 2022 | Nice, France



CONTENT

- 1.Competition Overview
- 2.Announcement of Winners
- 3.Winners Presentation
- 4.Conclusion

07 September 2022

Sustainable Places 2022, Nice (France)

Jasper Vermaut



OVERVIEW OF THE COMPETITION

- The competition aimed to engage **professionals and students active in the design and construction industry** to present a **residential building** renovation project that applies the **BIM tools and methods** developed by the BIM-SPEED partners.
- The challenge was to **demonstrate a renovation project** (using BIM-SPEED platform for collaboration) in a way that allows **energy saving for the occupants**, improves their **comfort** while **reducing the time and the cost** of the overall process.
- From 21 June 2021 until 25 April 2022



SUBMISSION PROCESS

Using the BIM-SPEED platform



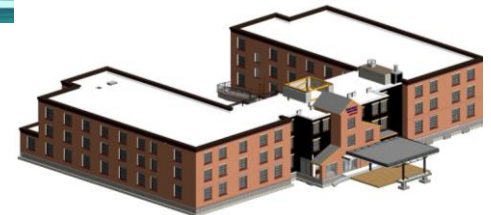
Filled in report
template available
through the platform



IFC File – BIM
Model with the
design proposal



Visual material -
infographic





BUILDING
RENOVATION
COMPETITION
a BIM-SPEED initiative

The Jury



Tomi Henttinen



Chiara Dipasquale



Andras Ronai

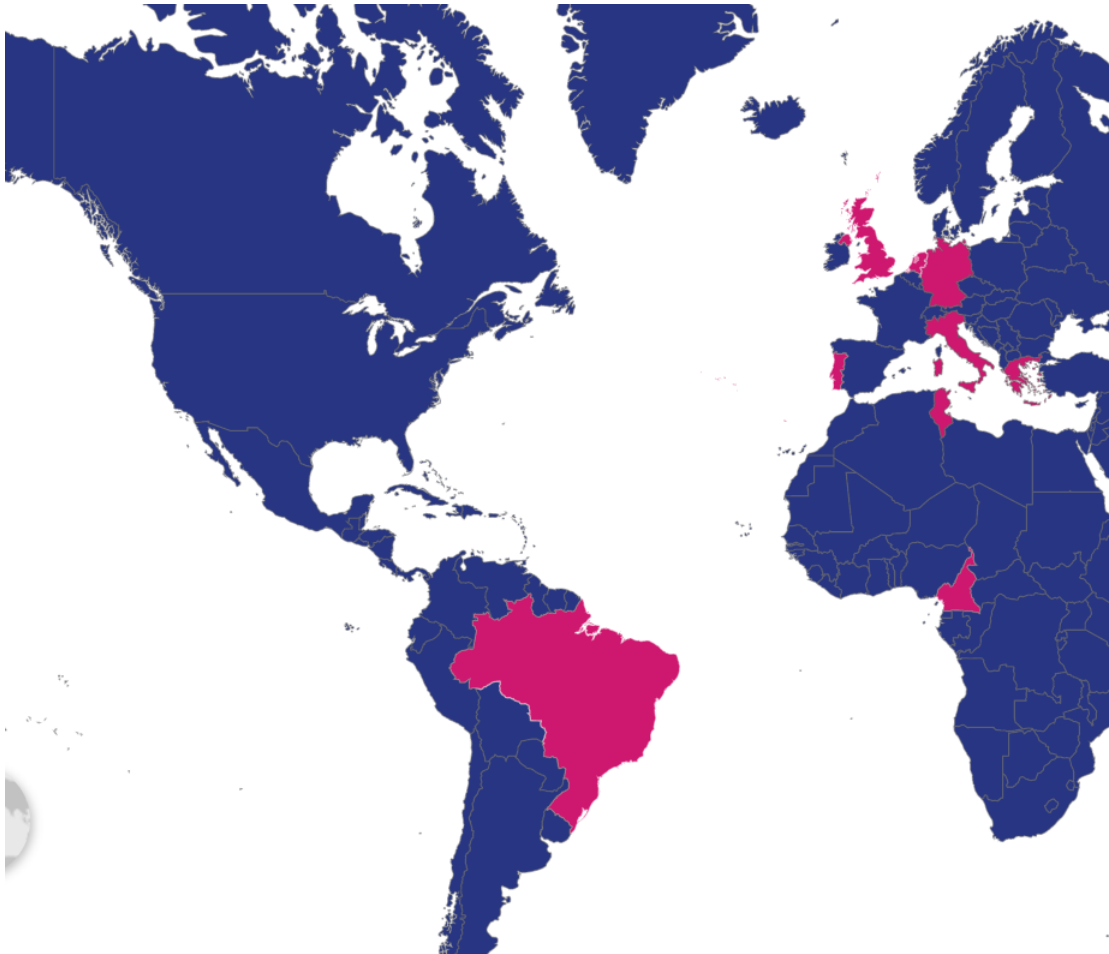


Olga Venetsianou



Filippo Lodi

REGISTERED TEAMS



8 REGISTERED TEAMS
FROM EUROPE, AFRICA
AND SOUTH-AMERICA

AND THE WINNERS ARE....



TEAM BIM ENSTP

From the National Advanced School of Public Works (NASPW) from Yaoundé (Cameroon)



EU BIM FOR BUILDING RENOVATION COMPETITION

Presentation Winners: ENSTP Team

Idriss TCHAHEU TCHAHEU

Charlène Delavictoire SOBGOU M IOGO



WHO WE ARE



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- The **Team BIM ENSTP** having taken part to the **EU BIM SPEED competition 2022** is a team made up of **Idriss TCHAHEU TCHAHEU** and **Charlène Delavictoire SOBGOU M JIOGO** from National Advanced School of Public Works (NASPW) of Yaoundé (Cameroon) in partnership with the university of PADOVA in Italy
- **Idriss TCHAHEU TCHAHEU:** Civil Engineer graduated from NASPW, works at CPA which operates for the digitalization of the construction sector of French-speaking Saharan Africa
- **Charlène Delavictoire SOBGOU M JIOGO:** Student in Fifth year of Architecture at (NASPW).
- In 2021, we were members of the team that won the **second prize of the Student BIM Competition** launched by **BIMHarambee.Africa**.
- We are also members of the team who created in 2022 the non-profit association **BIMUP AFRICA**, in order to create awareness on BIM to students and professionals in **French-speaking Sub-Saharan Africa**,



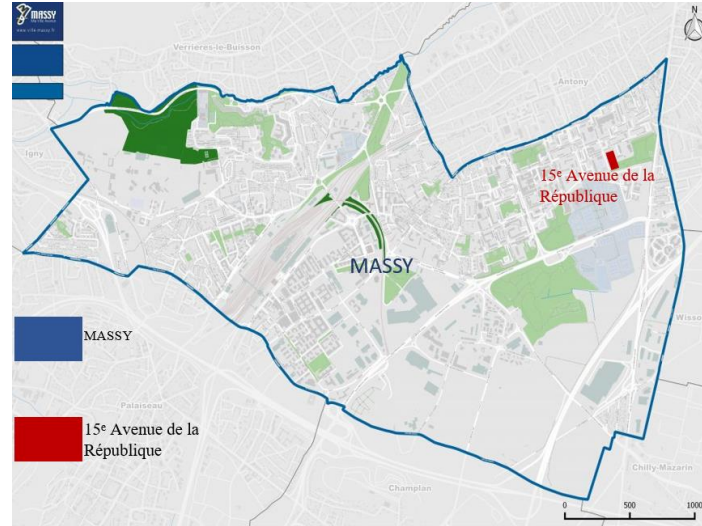
PRESENTATION OF THE PROJECT



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Project location: 15e Avenue de la République Massy France

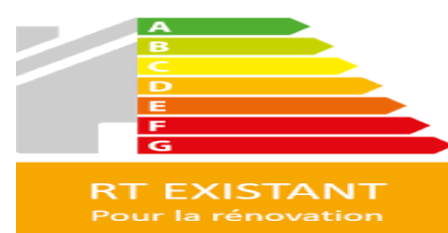


BIM Modeling Software: **Autodesk Revit**



Energy Analysis software: **Graitec Archiwizard**

Collaborative platform: **KROQI**



Thermal Regulation: **RT EXISTANTE**



PRESENTATION OF PROJECT:



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INITIAL STATE

DESIGN CONCEPT AND SUSTAINABLE DESIGN

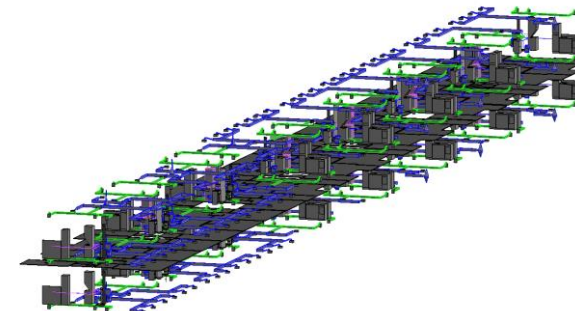
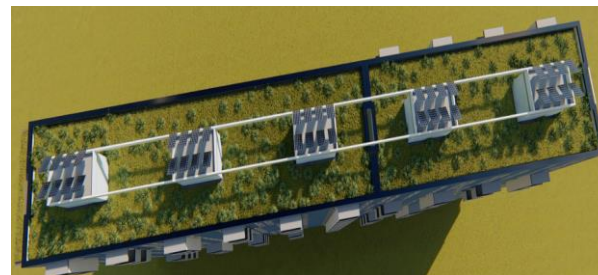
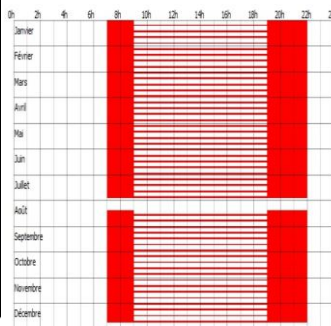
- The absence of a ventilation system,
- The absence of a green roof and photovoltaics energy,
- The presence of thermal bridges,
- In some rooms there was not enough natural light,
- **Renewable energy:** Use of solar panels, and presence detectors,
- **Energy savings:** Use of Artificial lighting by compact fluorescent lamps,.
- **Indoor air quality and visual comfort:** A controlled double flow ventilation system, in order to ensure the renewal of the air, increase the size of some windows,
- **Thermal comfort and acoustic insulation:** Use of air-conditioning system with double duct and mixing box, a green roof with extensive vegetation,
- **Ergonomics:** Ensure à good access to staircases,
- **Time and cost savings:** Data are stored in the **BIM SPEED** Platform .

Pièce : Escalier 53 - Autonomie lumineuse

■ Éclairage naturel couvrant la consigne d'éclairement
■ Éclairage naturel existant mais insuffisant
■ Éclairage naturel très faible
■ Nuit

Pièce : Escalier 53 - Confort lumineux

■ Éclairage naturel répondant à la consigne (occupation pleine)
■ Éclairage naturel répondant à la consigne (occupation réduite)
■ Éclairage naturel et artificiel répondant à la consigne (occupation pleine)
■ Éclairage naturel et artificiel répondant à la consigne (occupation réduite)
■ Éclairage insuffisant (occupation pleine)
■ Éclairage insuffisant (occupation réduite)
■ Inoccupation



USE OF BIM-SPEED TOOLS



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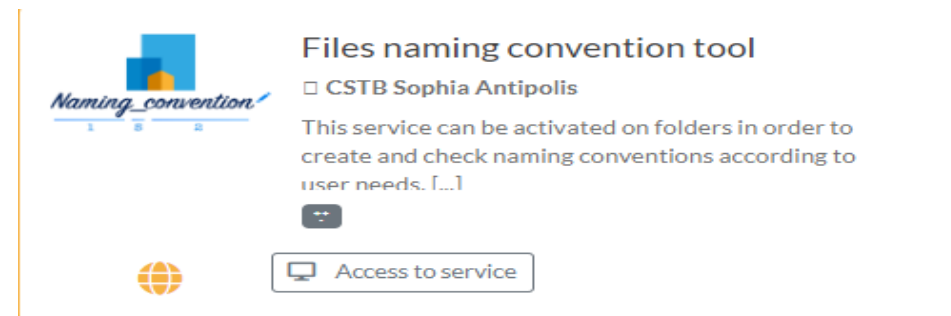
Mereen Weather service

- Historical climate data collected from 1999 to 2021 in **EPW** format
- Climate data collected was used in Graitac Archiwizard software for Daylighting analysis and energy simulation

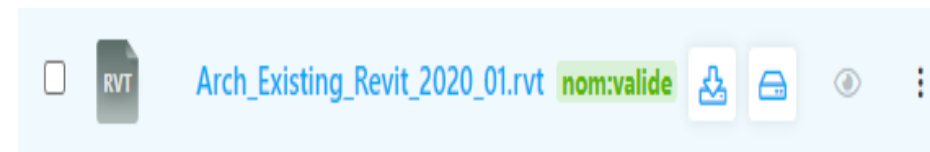
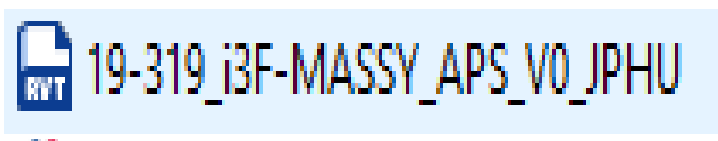


File Naming Convention Service

- Use to define ; manage and apply a naming standard across project files



Discipline	Separator	Phase	Separator	Software	Separator	version	Separator	N Characters
Arch	_	Existing	_	Revit	_	2020	_	01



07 September 2022

Sustainable Places 2022, Nice (France)

Jasper Vermaut, Idriss Tchaheu Tchaheu, Charlène
Delavictoire Sobgoum Jiogo



SUSTAINABLE PLACES 2022

Sep. 6 - Sep. 9, 2022 | Nice, France



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