

TRIMO MSS



LOCATION OF THE MODULAR UNITS

< 2010 2023 >

CASE STUDY
RELOCATION OF THE
TRIMO MSS MODULAR
UNITS AT THE LJUBLJANA
FACULTY OF MEDICINE -
A SUSTAINABLE SOLUTION
THROUGH REUSE

BUILDING TYPE EDUCATIONAL -
ADMINISTRATIVE BUILDING

INVESTOR FACULTY OF MEDICINE, UNIVERSITY
OF LJUBLJANA

ARCHITECT DIA BIRO ZA DESIGN, INŽENIRING
IN ARHITEKTURO D.O.O.

PRODUCT TRIMO MSS MODULAR SPACE
SOLUTION, QBISS ONE BUILDING ENVELOPE

LOCATION LJUBLJANA, SLOVENIA



2010 - A QUICK AND EFFICIENT SOLUTION FOR ADDITIONAL SPACE

In 2010, the Ljubljana Faculty of Medicine needed a quick and efficient solution to add additional classrooms and offices to its premises. The project was carried out together with DIA d.o.o., which immediately recognised the potential of the Trimo modular units:

“ In 2010, we designed a temporary courtyard building for the Faculty of Medicine of the University of Ljubljana, which was needed to house activities during demolitions and redevelopment at Vrazov trg square. Knowing that it was a “temporary” building, we looked for solutions to create a kind of “mobile” house that could be easily disassembled and reassembled in another location. We found Trimo modular units to be the most suitable choice.”

Gorazd Ravnikar, Architect Dipl.ing.



Construction featuring 21 Trimo MSS modular units, 2010



The modular units at the new location, 2023

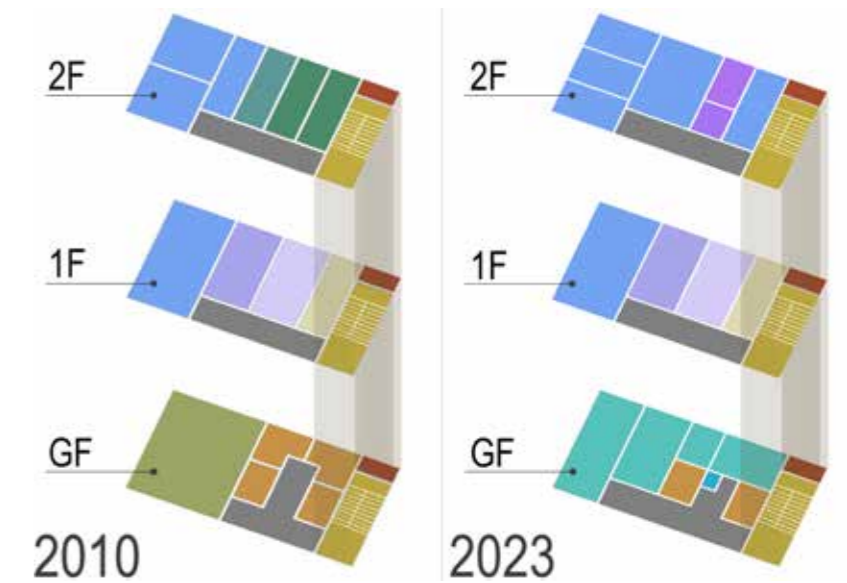
2022/2023 - CHANGE OF BUILDING PURPOSE AND THE EASY RELOCATION OF THE UNITS

After about 12 years, construction continued on Vrazov trg square, meaning that the modular units had to be moved to a new location. The key factors were the flexibility of the units when changing building purpose and the speed of relocation. What used to be classrooms and offices are now the new administrative offices of the Faculty of Medicine. The DIA team was also involved in this project:

“ Together with the owner, we found another suitable location to reassemble the “temporary” prefabricated building. The whole operation took place from December 2022 to June 2023, when the building was put into service at its new location. Thanks to the flexibility of the prefabricated components, the interior spaces could be adapted to new needs and contents.”

Gorazd Ravnikar, Architect Dipl.ing.

The building consisted of 21 modular units in three storeys (GF + 2F) and included all the necessary architectural design elements to provide a functional working environment. This includes technical areas such as sanitary facilities, vertical and horizontal communications, mechanical/electrical/plumbing installations, and the usable working areas themselves. Since the modular units are adaptable and because the cubic shape was preserved, the building could be easily relocated at a later date.



Schematic of the redistribution of the modular unit spaces 2010 / 2023

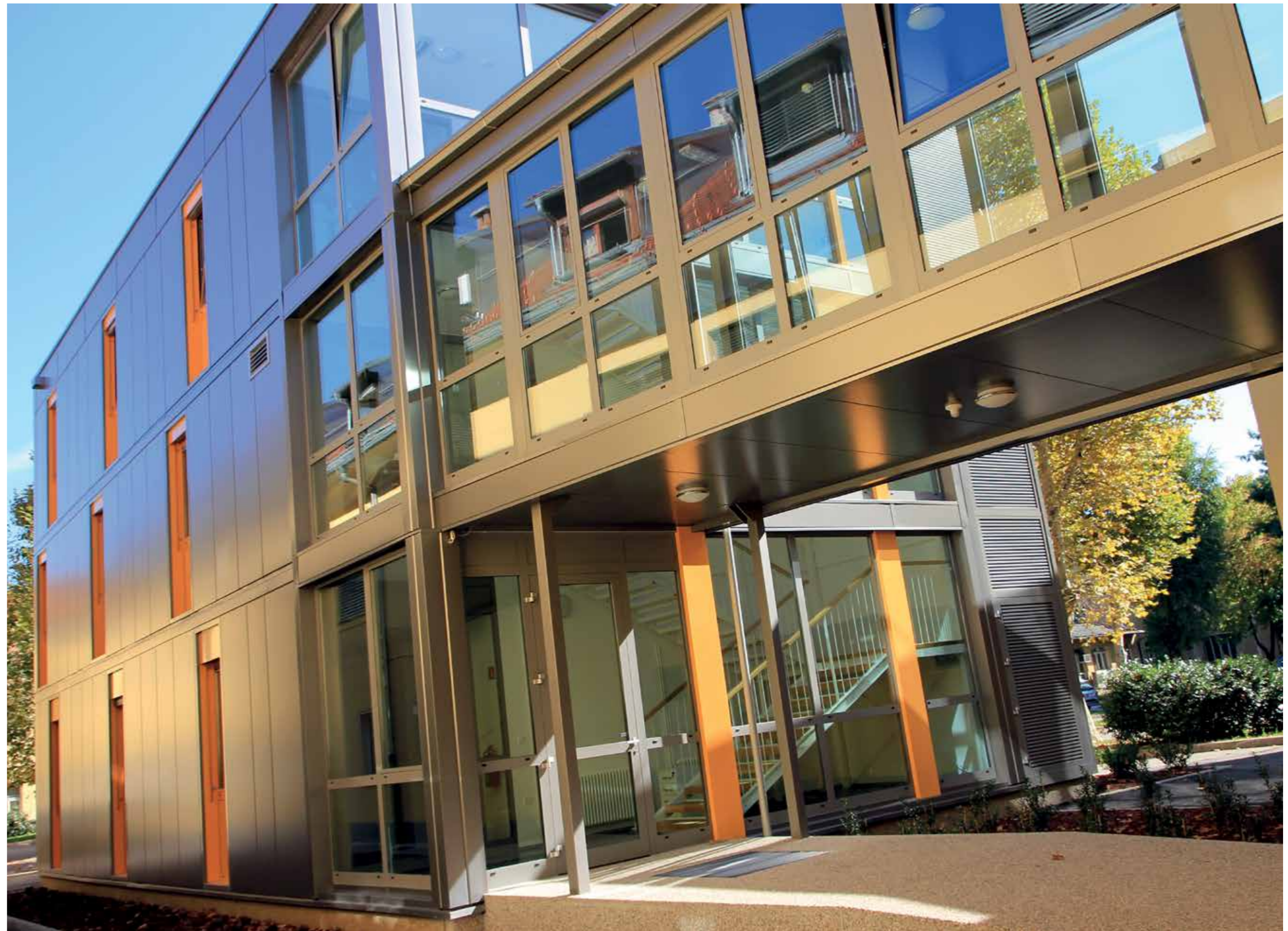
THE SUSTAINABILITY ASPECT OF CONSTRUCTION WITH MODULAR UNITS

Trimo MSS modular units are a significant step forward towards sustainable construction in several ways.

The presented example of the relocation of units within the framework of the Ljubljana Faculty of Medicine highlights the concept of reuse without compromising on the quality of the units themselves. This results in a significantly reduced impact on the environment, as the consumption of raw materials is zero and the exceptional characteristics of the products used guarantee a long lifetime for the building.

Another key feature is the high recyclability of the materials used to make the modular units, which is up to 99%. This implies that, at the end of their useful life, the raw materials from which the units were originally made can be reused through appropriate recycling.

Prefabricated modular construction means less waste for the environment, both during the production process and at the construction site, as it requires a carefully planned design and minimises construction waste at the construction site.





The high technological advancement and the use of natural materials are also appropriate in terms of the social and sustainability aspects, as the safe production, assembly and high quality of living in the building meet the legal requirements regarding human health and safety.

In addition, the effective insulation of the modular units is also an important factor, and a great benefit for users. Mineral wool insulation ensures living comfort with the minimum heat loss, leading to reduced heating and cooling costs.



Sustainable construction is now a key priority for building material producers, architects and investors. Trimo MSS proved to be a trustworthy partner with an innovative and sustainable solution in collaboration with DIA d.o.o., as summarised by the designer of the architectural solution, Gorazd Ravnikar:

“ I am delighted that our project's starting points have been validated in practice and that the solutions we have chosen have proven to be effective and successful. One of the most important foundations of sustainable development is certainly the reuse and easy recycling of manufactured goods, be it clothes, useful objects or buildings. And in this context, this project can be a model example.”

Gorazd Ravnikar, Architect Dipl.ing.

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