

*First published December 1st 2022 *Photo by: Flávio Dutra/ Arquive JU October 4th. 2022

historical heritage cannot be reconstructed without a solid documented base which may tell the story of the place.

Scanning as a form of cultural heritage preservation

Memorial | At UFRGS, 24 buildings are considered historic and have legal protection. Scanning can assist in

heritage conservation, but it is a time-consuming process and doesn't progress (or progress slowly) due to lack of

resources

of the State), while UFRGS alone has 24 legally protected properties. These buildings are classified as historical or cultural heritage.In the state, there are 156 listed properties by IPHAE, including buildings, squares, bridges, railways, and waterway stations. The cultural preservation of properties is an administrative act made by the public authority that aims to protect the original characteristics of properties and monuments of historical, cultural, environmental, and/or architectural value, as well as of affective significance for the population.

One can follow the development of Rio Grande do Sul by roaming the central region of Porto Alegre, where you can observe skyscrapers built next to buildings that are over 100 years old and. In the capital of RS, there are 25 listed items by IPHAE (Institute of Historical and Artistic Heritage

One of the great challenges in relation to historical heritage is the preservation, and UFRGS holds a project which intends to be of assistance in the preservation of the great challenges in relation to historical heritage is the preservation, and UFRGS holds a project which intends to be of assistance in the preservation of the great challenges in relation to historical heritage is the preservation of the great challenges in the great challenges ithis aspect. It is the LDSM (Design and Material Selection Laboratory), which carries out the scanning of these properties, among several other

for the analysis of the building's materials and for the maintenance of the site history for future generations – and the planning of future restoration works are among the prospective applications of scanning. Scanning can even be used to rebuild the properties, says Antônio Sarasá, from Sarasá Studio, the company responsible for the restoration of

activities. Fábio Silva, the engineer responsible for the laboratory, explains that this type of scanning can be used in many ways for historical $preservation.\ Both\ the\ organization\ of\ the\ documentation\ related\ to\ the\ property\ -that\ is\ necessary\ for\ issuing\ the\ preservation\ administrative\ act,$

Château D'Eau, monument which lies in the city of Cachoeira do Sul. Antônio mentions the example of Italy, where the process is widespread due to constant earthquakes and the consequent loss of buildings. In the city of Esteio/RS, historical buildings like the Claretiano Seminary were damaged by a fire and had to be reconstructed. Scanning the monument would have significantly facilitated the endeavor. Fábio reiterates that a

as details of the old building of the Faculty of Medicine, on the corner of Sarmento Leite and Engenheiro Luiz Englert streets. Before UFRGS can see the other 22 historical buildings catalogued, two requirements need to be met: resources and time. Fábio explains that there is more than one way to scan a monument and that the laboratory has scanners with three different technologies. In all of them, it is necessary to capture images of the building, what takes, on average, one day, but this also requires scaffolds and space. To scan O Laçador, the sculpture made by Antônio Caringi, the assistance of the municipality authorities, which provided a truck to raise the equipment up to the height of the statue, was necessary. For the scanning of the Medicine building's details, the researchers visited the place at night, "to avoid sunlight from

Despite the speedy one-day image making, information processing takes more time and requires more resources. After the material has already been collected, it is necessary to "treat the data", by building a point cloud, a three-dimensional coordinating system that will organize and

LDSM was also responsible for cataloging and making available, for example, the acquis of UFRGS' Natural Science Museum, located in the city of Imbé, and a virtual tour in the main room of the Museum. "In that place there is the skeleton of the humpback whale, which was scanned," Fabio says. The virtual tour assists in the memory preservation of the museum and, moreover, in its accessibility, for a wider range of people to visit the

Two UFRGS' buildings have already gone through the scanning process: the Institute of Chemistry's façade, vases in detail, and its statues, as well

Another application is the digital exposition of the properties.

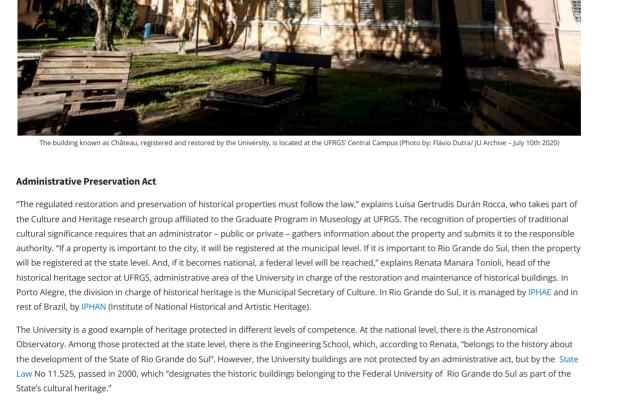
place.

interfering with the capture of the monument's colors", comments Fábio.

Scanning requires resources and time

"It is possible to make a virtual tour, showing the facade, thus more people will know the place."

examine them. Fábio explains that this work can take months and requires high-performance computers.



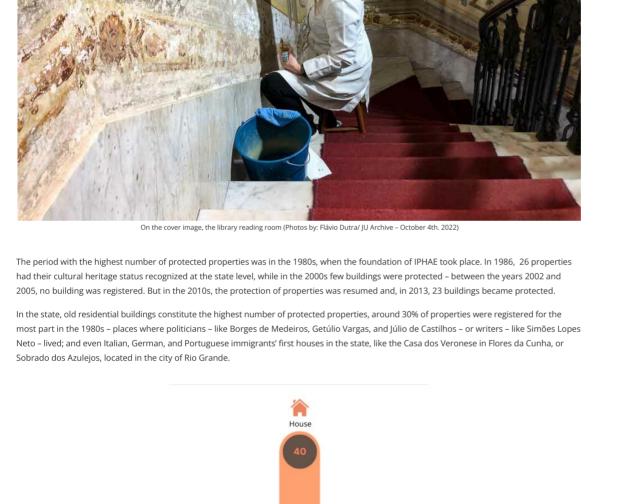
November 30th of that year. In Rio Grande do Sul, historic heritage preservation of properties started in 1980, when IPHAE was founded. Luísa explains that defining heritage is always a complex process, since, at different times, different assets are considered heritage.

– Luísa Gertrudis Durán Rocca

In Brazil, the protection of historic buildings began in 1937, during the Getúlio Vargas government, through the Decree-Law No.25, passed on

"The heritage definition is related to values, and each period, each generation, decides what heritage is."

The restorer Anice Jaroczinski works on the restoration of the wall paintings from Public Library of Porto Alegre, which has been recently



city halls and the headquarters of the state government, the Piratini Palace. The opening of these places to the population has complied with what the interviewees so often mentioned: proper care of historic properties is only achieved when the community knows and uses them.

Church

associations focused on the black population of the state, both properties were registered preserved cultural heritage in 2012.

The five more recurrent property-types taken as cultural heritage by IPHAE in the State

Antônio Sarasá points out that different properties must be preserved, even if their architecture may seem simpler. This is the case of the Cultural Club Fica Ahi Pra Ir Dizendo, a carnival club from the city of Pelotas, and also the case of the Cultural Club 24 de Agosto from the city of Jaguarão,

Luísa, Antônio, and Renata agree that, to take care of a property, it is necessary to know it. But Luísa points out that social recognition is even

"The preservation of the cultural heritage of a property is important, but it is not the only point. If the society doesn't give

Among 156 buildings protected by IPHAE, 35 kept their original purpose. In Porto Alegre, among the 25 preserved items - including furniture and adornments from the place -, 14 kept the same application or use. These are the cases of the State Public Library, of the São Pedro Theater and of the Capitólio Cinematheque. Most buildings, however, got repurposed from their original construction function: 43 turned into cultural centers, such as museums, libraries, and culture houses. Divisions of the public administration occupy 18 buildings, including 10 municipal offices, three

Bridge

more important than governmental recognition.

recognition to it, it is useless." — Luísa Gertrudis Durán Rocca

Routine care and memorial preservation

putting out fires".

collective memory," sums up Luísa.

Elizamari R. Becker (P.h.D.) - IL/UFRGS.

Main current applications of the State's cultural properties

Renata explains that taking care of a cultural and public property is not simple. "Any sort of intervention in a historical building at UFRGS must be approved by the historical heritage sector." From paintings to the stipulated use for a room, it is necessary to carry out a study, to guarantee the preservation of property originality. Renata also says that the University is a cultural property belonging to the whole society, so it needs to be

Routine, care, hiring of services and labor are matters that affect the conservation of a building, says Maria Clara Bassin, head architect for the Piratini Palace. She reports that, to take care of a building, it is necessary a multidisciplinary team. Luísa agrees with Bassin and adds having

opened to the public. This is the case of UFRGS's Cultural Center whose restoration work was concluded in 2018.

In addition to the building maintenance and care, cultural properties also have another very important factor: memory maintenance. "Piratini Palace keeps the history of Rio Grande do Sul," says Maria Clara, just as UFRGS keeps with it the history of education development both in Rio But the UFRGS' buildings also indicate the memories of the people who studied in or worked for the University. The restorations of the University

and many of them had their own wedding ceremonies held at the chapel," says Luísa.

Maria Clara also explains that there is a prime difference between conservation and restoration.

"Conservation is meant to avoid restoration, because every restoration is a loss."

historians, architects, engineers and restorers working together is priceless.

buildings are funded by sponsorship regulated by the Culture Incentive Law. Most donations come from natural persons, out of whom many are alumni. "For example, take the case of the São Pedro chapel, at the Experimental Agronomic Station: all donations were given by natural persons,

Both collective and individual memories aid cultural heritage preservation. A cultural asset or property does not become cultural heritage just because of its architecture, but because of its symbology, because of what it means to the community. Politicians' former houses recall the history of those public figures. Buildings that have immigration characteristics tell the miscegenation story of Rio Grande do Sul. Buildings tell stories and hold memories of past times and, more importantly, tell stories about the people who lived at those times. "Historical heritage is a support for



:: Read in Portuguese

UFRGS SECOM

REALIZAÇÃO

JORNAL DA

UNIVERSIDADE

Av. Paulo Gama, 110 | Reitoria - 8.andar | Câmpus Centro | Bairro Farroupilha | Porto Alegre | Rio Grande do Sul | CEP: 90040-060 (51) 3308.3368

Secretaria de Comunicação Social/UFRGS

Jornal da Universidade

 $\underline{\textbf{Social Share Buttons and Icons}} \ \textbf{powered by Ultimately social}$

Conhecimento do português imigrantes que vivem no Brasil Movimento de plataformização do trabalho doce

:: ÚLTIMAS

Carta aos leitores | 13.06.24

O Direito e a prevenção de desastre Atuação do NESA-IPH frente às

A presença negra num bairro Carta aos leitores | 06.06.24

A cultura Hip Hop expressa sua coletividade em espaços que demarcam sua presença no RS Impercepção botânica na política



Árvores podem aliviar deslizamentos e



Antônio adds, stating that "restoration should always be an exceptionality, but in Brazil it is considered a regular occurrence". The restorer says that the most important aspects are prevention and conservation. Luísa points out that those who take care of the heritage "consequently help