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## The first Czech 3D-printed floating house is smart and sustainable

**Recently, Prvok od Buřinky (PROTOZOON by Buřinka), the first 3D-printed house in the Czech Republic floated down the Vltava River to the centre of Prague. In addition to the printed concrete walls, Prvok also boasts a unique interior. Modern custom-made furniture made of quality materials, smart technology, great use of space and inspiration from the organic world co-create sustainable and at the same time aesthetically pleasing house. The House is open to the public until the end of September at Smíchovská náplavka or Střelecký Island.**

Prvok is the first world 3D printed house decomposable into three parts, transportable and floating on the water. It was designed, printed and presented to the public in the Czech Republic thanks to the cooperation of the architectural-sculptural studio Scoolpt and Buřinka, building society of Česká spořitelna (member of ERSTE). Less than a year has passed from the initial idea of creating the first Czech 3D-printed concrete house to its presentation to the public in the centre of Prague.

### Journey to Prague

The house was printed in the south of the Czech Republic, about 150 kilometres far from the capital. In order to move the house to Prague, authors had to divide it into three parts. These were transported by semitrailer. After a seven-hour journey, the house was assembled and boarded on a pontoon. Then the journey on the Vltava River to the centre of Prague took three hours.

### Smart and sustainable

Prvok is interesting from the outside as well as from the inside. Visitors are attracted not only by its printed concrete walls, but also by the interior design and smart technologies.

*"Our interior includes shelves made of 6,000-year-old oak, lighting made by a local glassworks and further amazing amenities. The house is also equipped with underfloor heating and recuperation,"* explains the main author of the house, Michal Trpák from Scoolpt.

*"We really appreciate the sustainable technologies that are part of the house. I would particularly highlight the way water is disposed of. The house collects rainwater, which it is able to use further and at the same time uses a recirculating shower, which can save up to 90% of the water,"* says Libor Vošický, chairman of the Board of Directors of Stavební spořitelna.

Last but not least interesting feature of the house is its green roof made of plants. Not only does it look impressive, but it is also sound-insulating, it improves the microclimate and traps rainwater. Water is not consumed by the plants only, but is drained by special



channels into tanks. The water from the tanks can be used in the household for other purposes such as cleaning or flushing the toilet.

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