In many ways, Iceland is a fascinating part of the Earth. Outside, it is covered with snow (as its name suggests) and surrounded by the sea, and inside, it glows (hence the colors of Iceland flag: white, blue and red). Compared to the “leftover” Earth, it is often “extraterrestrial”. Its remarkable landscape is due to numerous (about 130), mainly basaltic volcanic mountains, fields of lava, snow and ice, geysers, glacial glaciers and glaciers. Iceland belongs to the volcanic most active areas of the Earth because it is located on the Mid-Atlantic Ridge, lying on the border between the North American and Eurasian tectonic plates that are moving one from the other. The Mid-Atlantic Ridge “passes” from the north to the south more or less in the middle of the island, and the uttermost southwestern part of Iceland (Reykjanes peninsula) continues to the Atlantic Ocean. About thirty kilometers south of Reykjavik, approximately in the area where the border of the Reykjanes peninsula lies, there stands Bláfjöll Mountain (Blue Mountain, see Figure 1) and the Stori-Bolli large crater of about 150 m in diameter.

At the foot of Bláfjöll Mountain lies the Stóra-Bollahrauni lava field (see Figure 1), and in it the Leiðarendi lava tube (see Figure 2). Lava tubes are natural structures in the form of a pipeline through which the lava has traveled below the surface. During an eruption, the lava usually flows through the channels where it remains hot, while the outer parts are cooling. During the cooling process, the outer channels begin to create walls because the lava solidifies. These channels can penetrate deeper and shape the tunnel that continues to flow magma (less lava). Interestingly, the lava loses heat at such a flow for only about 1°C per kilometer of flow (http://volcano.oregonstate.edu/lava-tubes). Such a tunnel can be described as a space that occurs when the surface part of a lava stream cools and cures, while the lava of less viscosity under this hardened surface layer continues to flow. A broad lava-flow field often consists of a main lava tube and a series of smaller tubes (http://volcanoes.usgs.gov/Products/Pglossary/LavaTube.html), which are often called “volcanic veins”. Such tunnels can be ten meters wide or more and very long – ten or even more kilometers (e.g. on the Hawaii islands). The longest tunnel in the European Union is the Spanish “Cueva del Viento-Sobrado”, 17 kilometers long, and situated on Tenerife island (http://www.caverbob.com/lava.htm).

A narrow entrance in the lava tube Leiðarendi (see Figure 2) is barely noticeable on the surface of the ground, and perhaps that is the reason why this lava tube
was only just found and explored in 1992. The bones of sheep that had fallen inside and couldn’t get out were found, according to which the lava tube was named. Namely, the name Leiðarendi can be translated as “the end of a journey/path”.

The lava tube Leiðarendi is 900 m long and divided into two separate tunnels, which are subsequently reconnected. The genesis was estimated at about 2000 years ago. As you enter the lava tube, sculptures of ice can be seen (see Figures 3 and 4), the exceptional shapes and the rock textures, the stalagmites (see Figure 5), the stalactite, the roof from which the lava drizzled until it cooled (see Figure 6).

In Iceland, great attention is paid to the protection of the environment and nature, both on the surface and below it. Therefore, boundaries are marked by placing chains in the lava tube in order to prevent visitors from damaging the magnificent underground forms. Even that was not enough to prevent someone from taking the largest stalagmite from the lava tube – someone probably thought that it would look better somewhere in their living room than here in the underworld. So, in Figure 5 some of the smaller stalagmites can be seen along with a replica of the largest one. Besides the protection of the environment and nature, most Icelanders support folk tales about the existence of elves and trolls and there is a rich legacy tradition of rock formation throughout Iceland which were tanned after the Sun was shrouded. Here, in the underground, there is also evidence that trolls exist and that they live in the underworld, and it is a troll’s toilet (see Figure 7), which is also enclosed by chains.