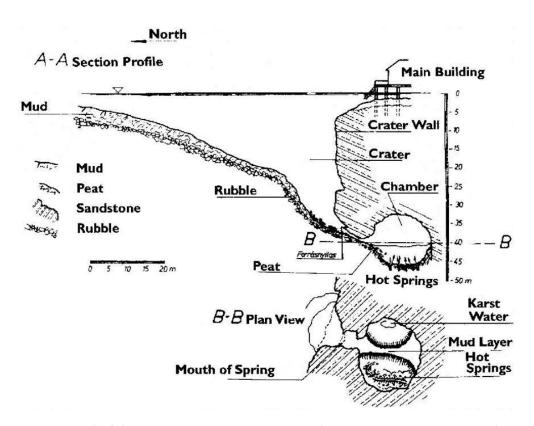


Country	MIKAS springs	Coordinates	Spring discharge	Criteria* in order / Main	Data
		/ Nearby City	(Q in	justification	collected by
			I/s,min/av/max)	*/ H-historic, A-aesthetic, S-scientific,	
			/ tapped or not	E-Economic, Ec-ecologic	
Hungary	1. Hévíz Thermal Lake spring	N 46°47'12.8" E 17°11'34.0" Z = 109 m asl Heviz, Balaton	? / 410 / ? Not-tapped, used locally for balneological and	S, E, A, Ec, H The Hévíz Thermal Lake is the largest biologically active natural thermal lake worldwide. The village near the Hévíz lake has been mentioned as early as	Katalin Hegedűs- Csondor,
			recreational purposes	the lake from depth of 38 metres where hot (7800 years) and cold (6500 years) karst water mix. The lake has a flow rate of 410 l/s, the retention time of water is only three days, and the temperature never drops below 22°C in winter and reaches 38°C in summer. The lake is one of the most significant groundwater-dependent ecosystems in Hungary. The lake's biota is unique due to the temperature and composition of its water. The most significant plants of Lake Hévíz are the fairy roses, i.e. water lilies. In addition, it is one of Hungary's most important sites in the spa and wellness tourism field. Sulphur is the main active ingredient in medicinal water and mud. Lake Hévíz belongs to the Nature Reserve area, which covers an area of 60 ha (of which the lake's surface is 4.6 ha).	Judit Mádl- Szőnyi
	2. Jósva Spring (spring group of	N 48°29'0.91" E 20°32'32.03"	? / 130-150 / ? Not-tapped	H, S, Ec, E, A The Jósva Spring is the largest cold- water spring in Hungary. It drains	Katalin Hegedűs-
	Medence Spring, Táró	Z = 216 m asl	Not-tapped	transboundary aquifer of Aggtelek- Slovak karst and the Baradla-Domica	Csondor, Judit Mádl-
	Spring and Cső Spring)	Jósvafő, Aggtelek		Cave System. The Baradla-Domica Cave complex is a UNESCO World Heritage site and is under Ramsar Convention. The underground drainage system is formed in the Middle and Upper Triassic limestones of the Silica Nappe. The spring feeds the Jósva stream, the most significant water flow in the Aggtelek karst. The other two nearby springs are Medence and Cső Spring. The water of these springs originates from the Long Lower Cave, while the Short Lower Cave feeds the Táró Spring. All springs are located in the Aggtelek National Park.	Szőnyi
	3. Boltív Spring	N 47°31'05.0" E 19°02'08.3" Z = 104 m asl Budapest	? / 81 / ? Partly used for recreational purpose	H, S, E, A The Boltív spring, located in the foothills of the Rose Hill (Budapest), is one of the few springs that still discharge naturally on the Buda thermal karst. Permanent lukewarm water flows from Upper	Katalin Hegedűs- Csondor, Judit Mádl-
				Triassic limestones and drains longest underwater cave system of Hungary (Molnár János Cave) with active hypogene karstification. Part of lukewarm water (21°C) is used by the	Szőnyi

MIKAS - Heviz



Thermal Lake Hévíz (source: Civertan Grafikai Stúdió)



Section of Hévíz Lake and Amphora spring cave (Amphora Divers Group, 1976)



Spring cave (photo by Dénes Szieberth)

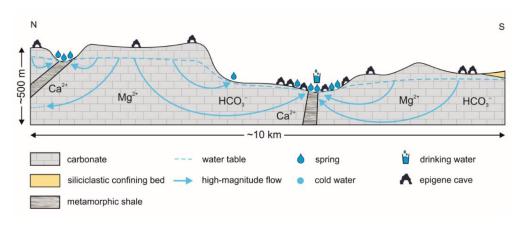
MIKAS - Jósva spring



Jósva Spring at normal flow rate (photo by Péter Gruber)



Jósva Spring in flood conditions (photo by Péter Gruber)



Generalized hydrogeological cross-section for the plateau of the Aggtelek Karst (Mádl-Szőnyi et al., 2022)

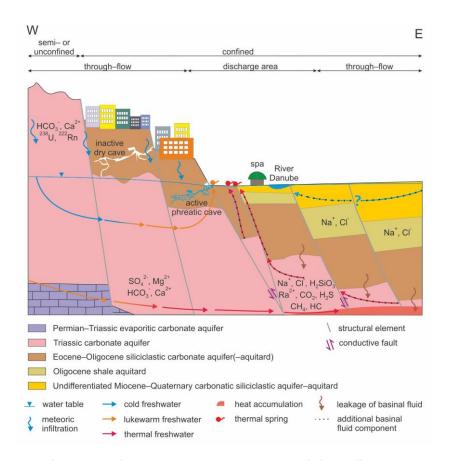
MIKAS - Boltív Spring



Boltív Spring and Malom lake (photo source: https://hu.wikipedia.org)

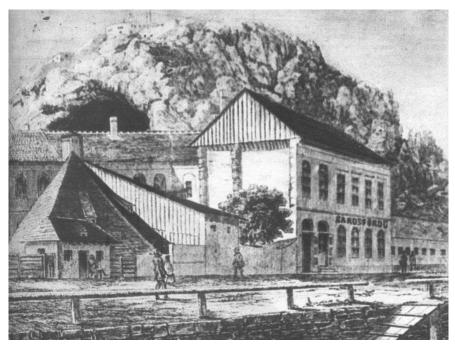


Molnár János Cave (photo by József Spanyol)

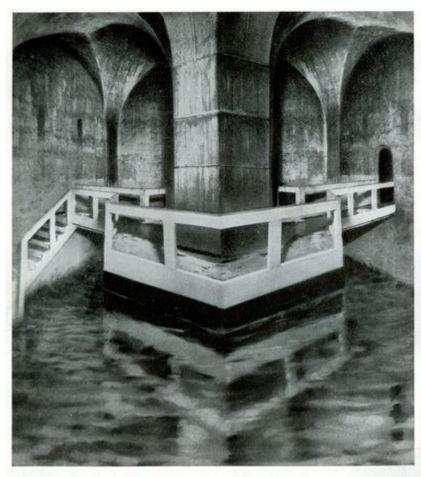


Conceptual flow model for the Rose Hill discharge area (after Erőss, 2010, modified)

MIKAS - Spring of the Gellért Spa (Ősforrás)



The so called "Muddy Bath", the ancestor of the Gellért Spa in the 19th century (from the archive of I. Dobos)



A régi Sárosfürdő egykori közös medencéje, amely még valószinűleg a török hódoltság elejéről való építkezés, — a középen látnató támasztóoszloppal való megerősítése és beboltozása után. Jelenleg ide vezetik a Szent Gellért-gyógyfürdő forrásainak vizét

Sketch of the Ősforrás spring



Spring of the Gellért Spa