

# The Pannonian Volcano Route

## volcanological heritage and geotouristic perspectives



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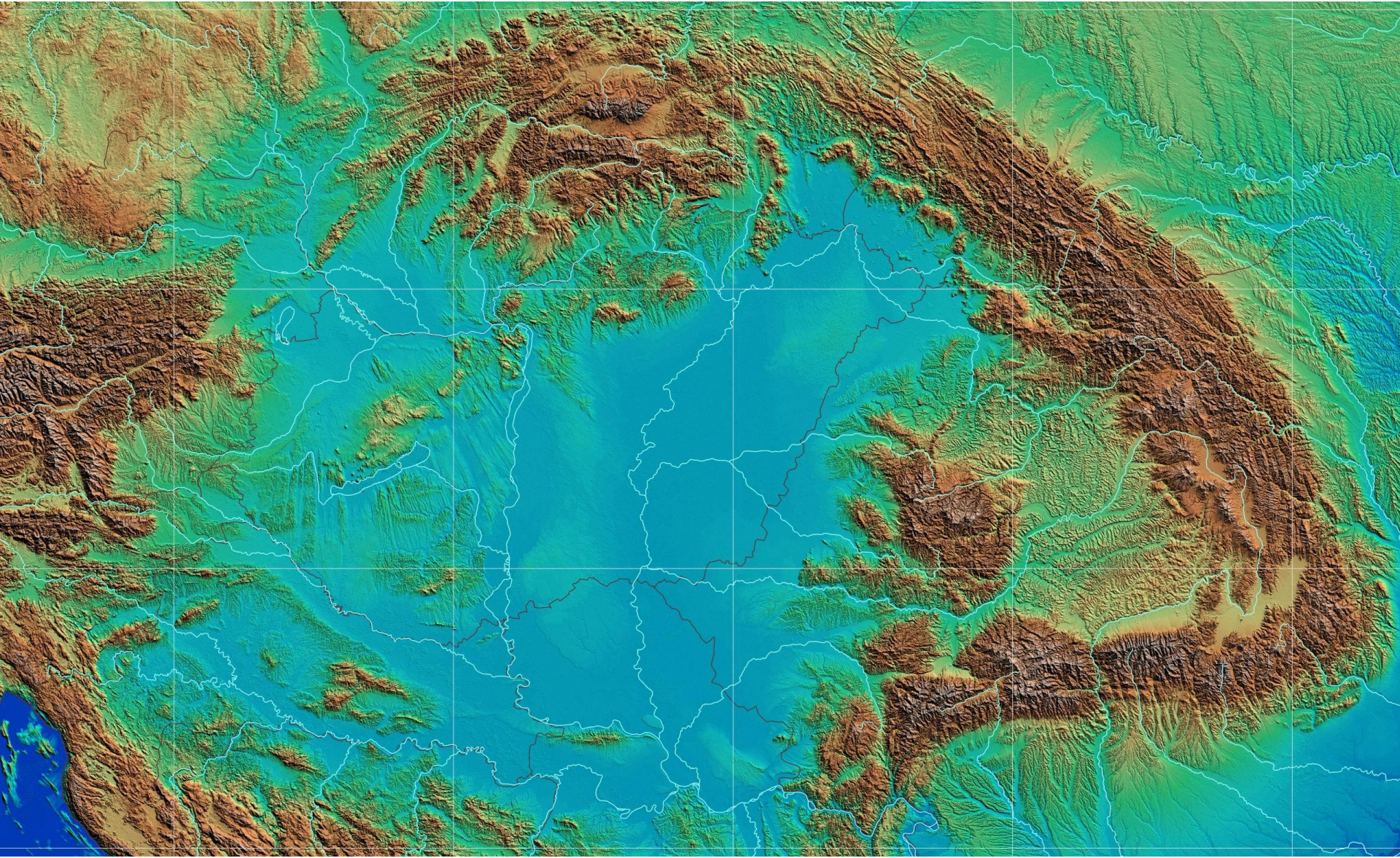
Massey University, New Zealand

Bakony-Balaton Geopark, Balaton-felvidék National Park,

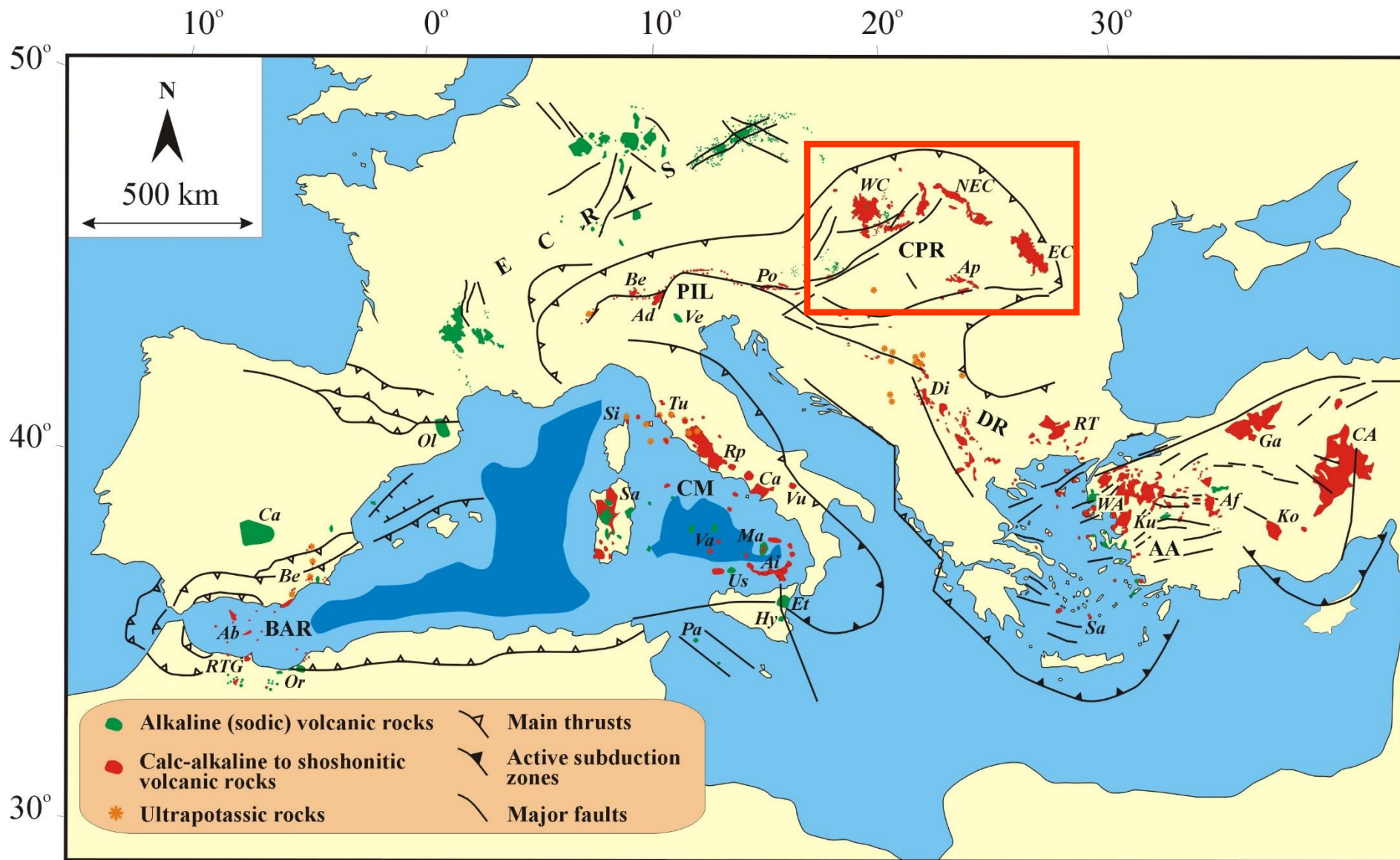
Hungary

Bükk National Park, Hungary

# Volcano tourism – Carpathian-Pannonian Region



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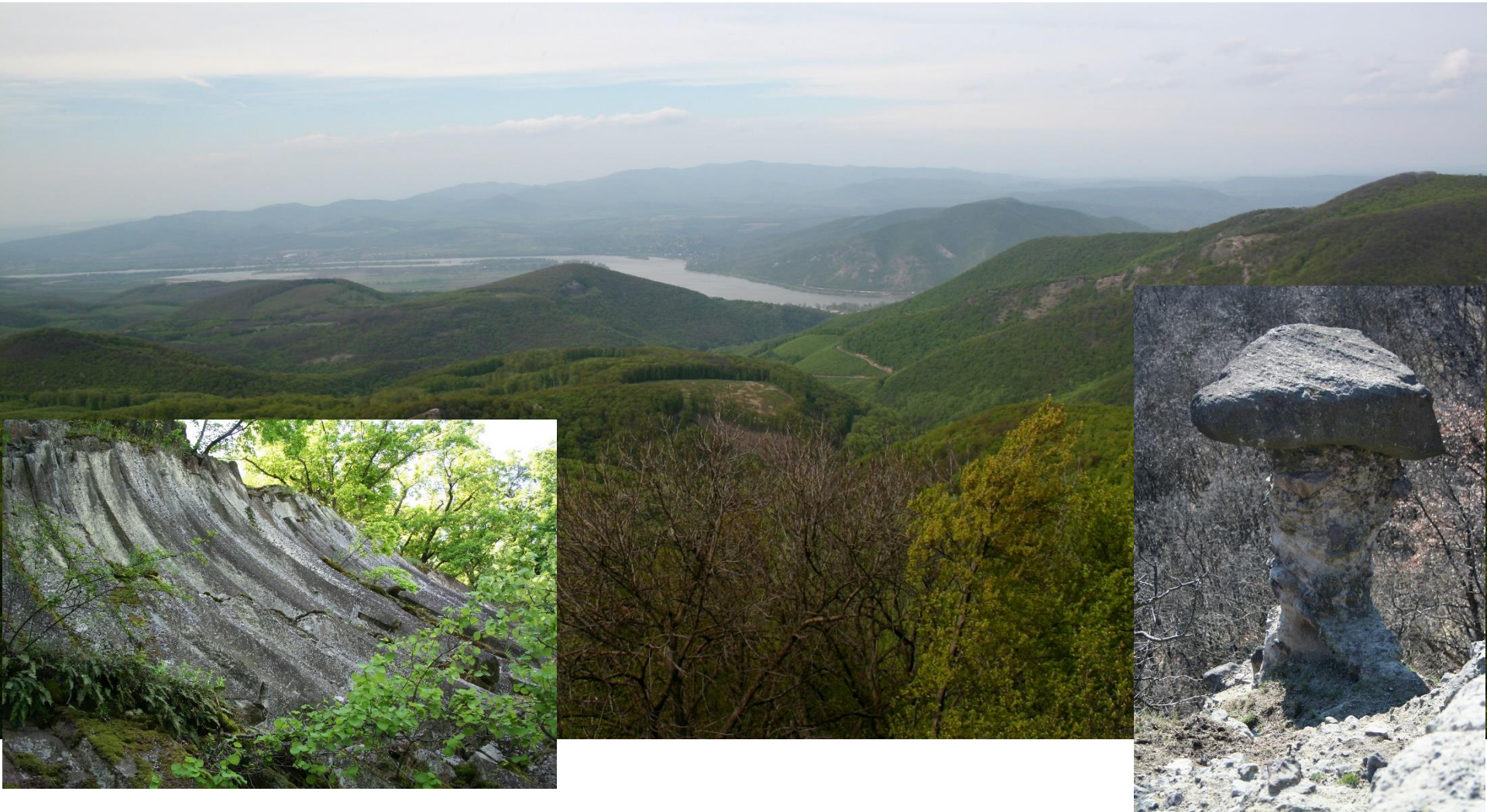
Silicic ignimbrite sheets

# Volcano tourism – Carpathian-Pannonian Region



Erosional forms of silicic ignimbrite sheets – beehive cliffs (fairy chimneys)

# Volcano tourism – Carpathian-Pannonian Region



Emergent and then, collapsed andesitic composite volcanoes

# Volcano tourism – Carpathian-Pannonian Region



Erosional remnants of various basaltic volcanoes in monogenetic volcanic fields

# Volcano tourism – Carpathian-Pannonian Region



Volcanic heritage meets historic, cultural, gastronomic and winery pleasures, among others.



# Volcano tourism – Carpathian-Pannonian Region



Novohrad-Nógrád Geopark (2010)



Kemenes Volcano Park  
(2012, 2013)

Bakony-Balaton Geopark (2012)



supporting framework of volcano tourism

# Volcano tourism – Carpathian-Pannonian Region

## Volcanic Heritage of the Carpathian-Pannonian Region in Eastern-Central Europe

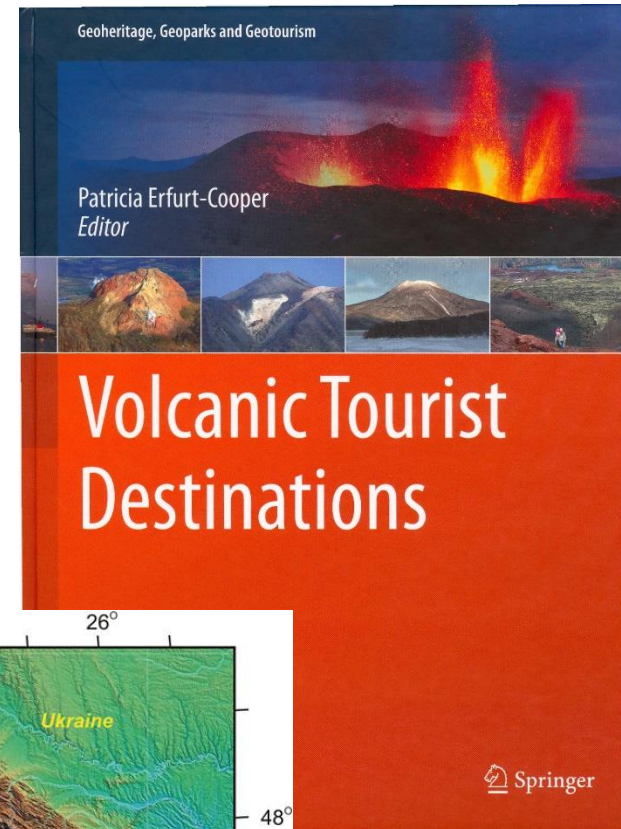
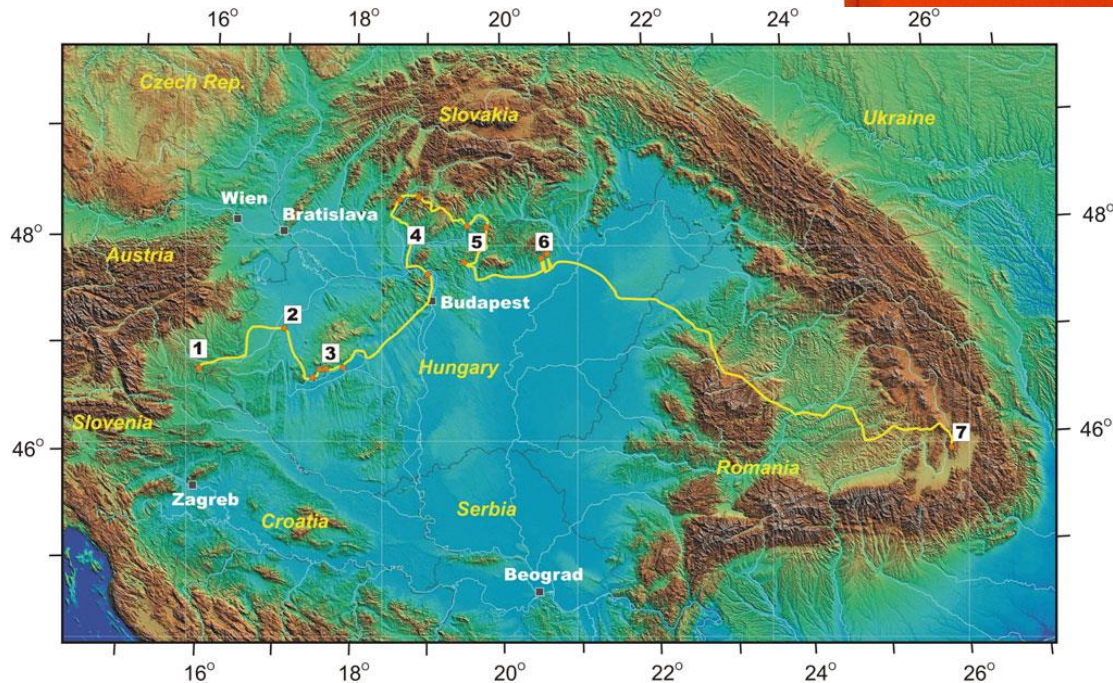
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Szabolcs Harangi

### 7.1 Introduction

The Carpathian-Pannonian region in eastern-central Europe appears to be a geologically calm area, where no disastrous earthquakes, no devastating volcanic eruptions occur. However, this is just the present status of this area; the past 20 million years were much more different (Harangi, 2011).

There are many opportunities to start a volcano discovery tour in this region. One can begin with an amazing walk observing different types of pumiceous pyroclastic flow deposits, i.e. ignimbrites and the fabulous conical fairy chimneys or beehive stones as the local people call them. Then, the visitors can take a path along one of the most destructive volcanic deposits, formed during nuée ardente



# Volcano tourism – to do list

- volcanic heritage could be a driving role to open a new way in the tourism
- volcano tourism could initiate the recovery of economy in otherwise poor regions
- a successful use of volcanic heritage can be achieved only if the local community, the decision-makers and the business-mans recognize the advantages of such novel projects
- most of the local people do not understand that an investment into the protection and exhibition of natural heritage could result in a promising opportunity to attract people and as a consequence it could enhance tourism and supply money into the local economy
- it is important to enhance the outreach activities that could help people understand how the Earth works, what is the significance of the volcanic activity in our planet and of course, why we have to protect the natural heritage
  - find the „language”
  - be simple, but attractive
  - keep the solid scientific background

# Volcano tourism – outreach activities



# Volcano tourism – a quantitative approach

Acta geographica Slovenica, 51-2, 2011, 361–377

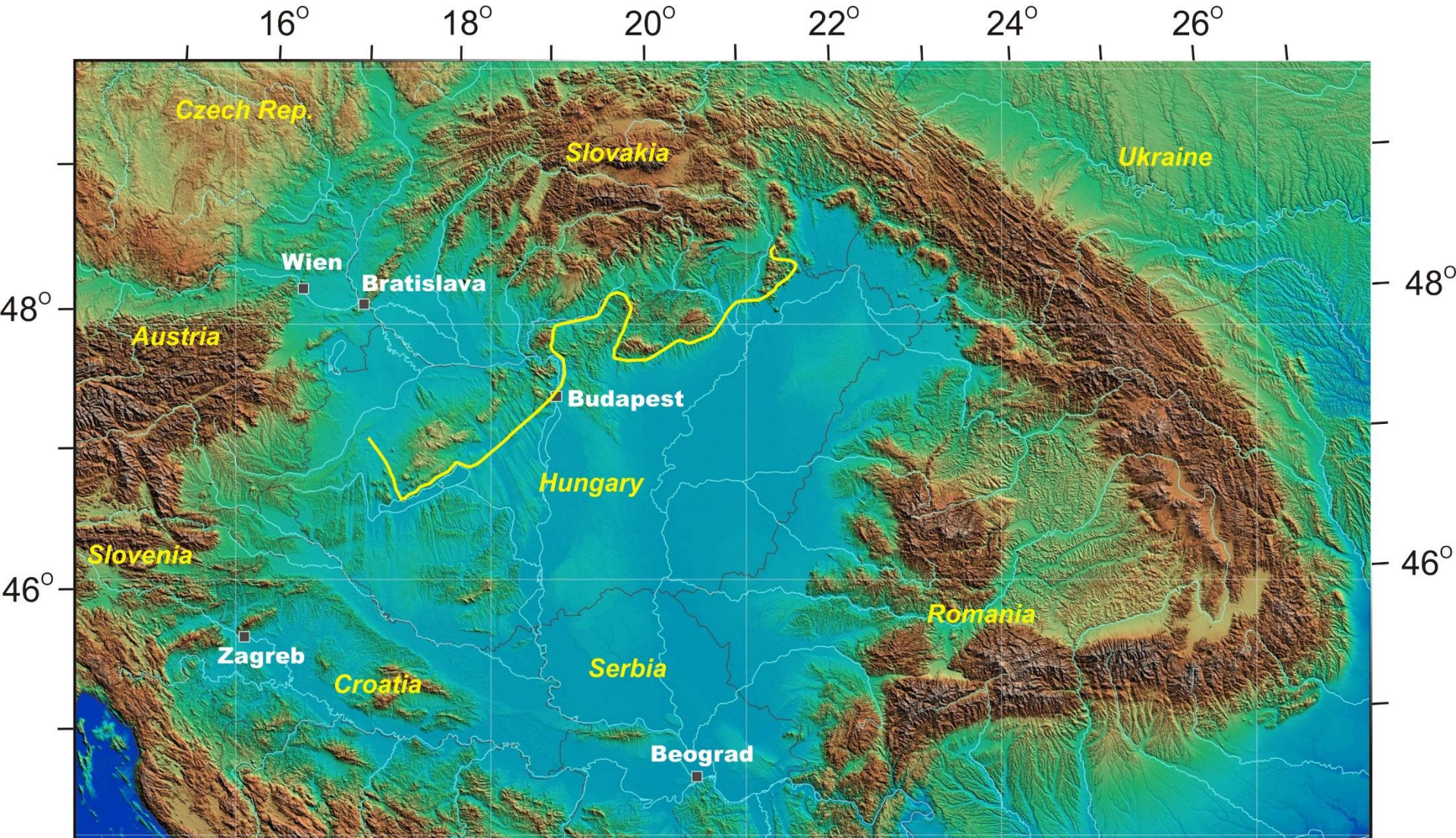
## PRELIMINARY GEOSITE ASSESSMENT MODEL (GAM) AND ITS APPLICATION ON FRUŠKA GORA MOUNTAIN, POTENTIAL GEOTOURISM DESTINATION OF SERBIA

Miroslav D. Vujičić, Djordjije A. Vasiljević, Slobodan B. Marković,  
Thomas A. Hose, Tin Lukić, Olga Hadžić, Sava Janičević

Main Indicators / Subindicators	Grades (0-1)				
	0	0.25	0.5	0.75	1
<b>I Scientific/Educational values (VSE)</b>					
1. Rarity	Common	Regional	National	International	The only occurrence
2. Representativeness	None	Low	Moderate	High	Utmost
3. Knowledge on geo-scientific issues	None	Local publications	Regional publications	National publications	International publications
4. Level of interpretation	None	Moderate level of processes but hard to explain to non experts).	Good example of processes but hard to explain to non experts	Moderate level of processes but easy to explain to common visitor	Good example of processes and easy to explain to common visitor
<b>II Scenic/Aesthetic values (VSA)</b>					
1. Viewpoints (each must present a particular angle of view and be situated less than 1 km from the site)	None	1	2 to 3	4 to 6	More than 6
2. Surface (each considered in quantitative relation to other)	Small	-	Medium	-	Large
3. Surrounding landscape and nature	-	Low	Medium	High	Utmost
4. Environmental fitting of sites	Unfitting	-	Neutral	-	Fitting
<b>III Protection (VPr)</b>					
1. Current condition	Totally damaged (as a result of human	Highly damaged (as a result of natural	Medium damaged (with essential geomorphologic features	Slightly damaged	No damage

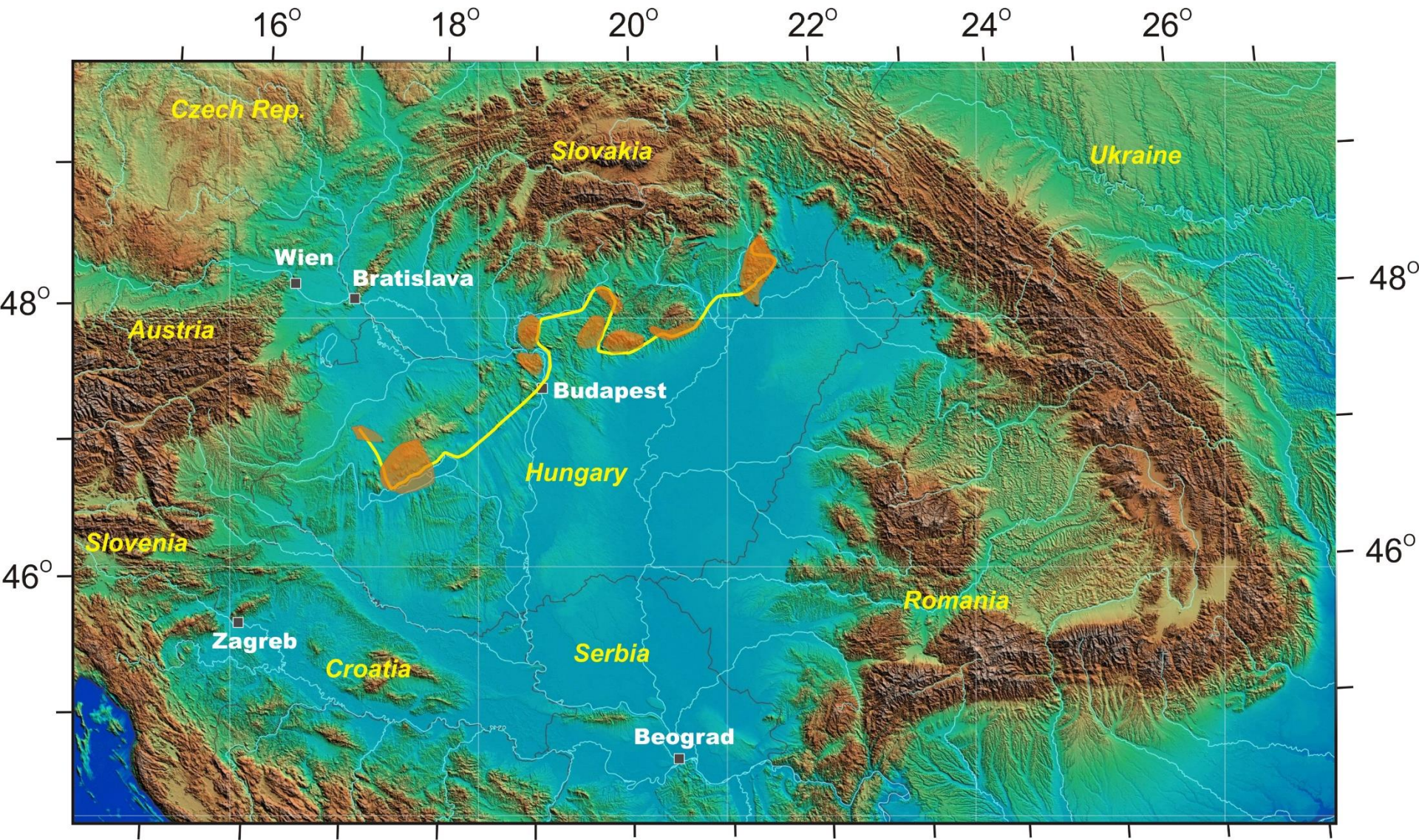
Transformation of volcanic heritage value to touristic value

# The Pannonian Volcano Route



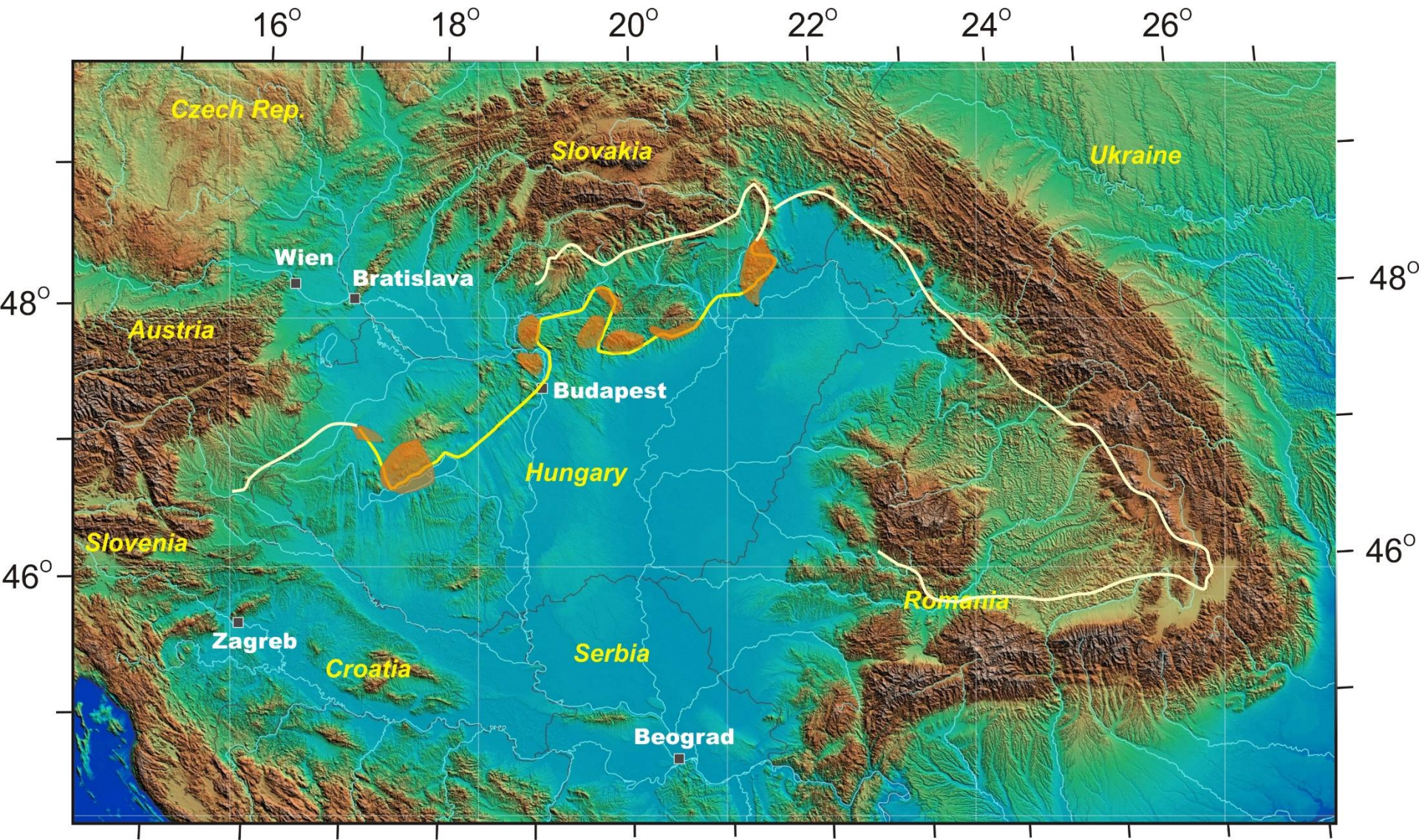
a 900 km long volcano route crossing Hungary from east to west  
over 50 planned stations, which cover almost all the main volcanological phenomena

# The Pannonian Volcano Route



9 target areas offering additional local volcano routes

# The Pannonian Volcano Route



Continuation to the neighbouring countries



# Perspective - The European Volcano Route Initiative

a unique development across active and inactive volcanic areas

