

Monographs

Internet accessed

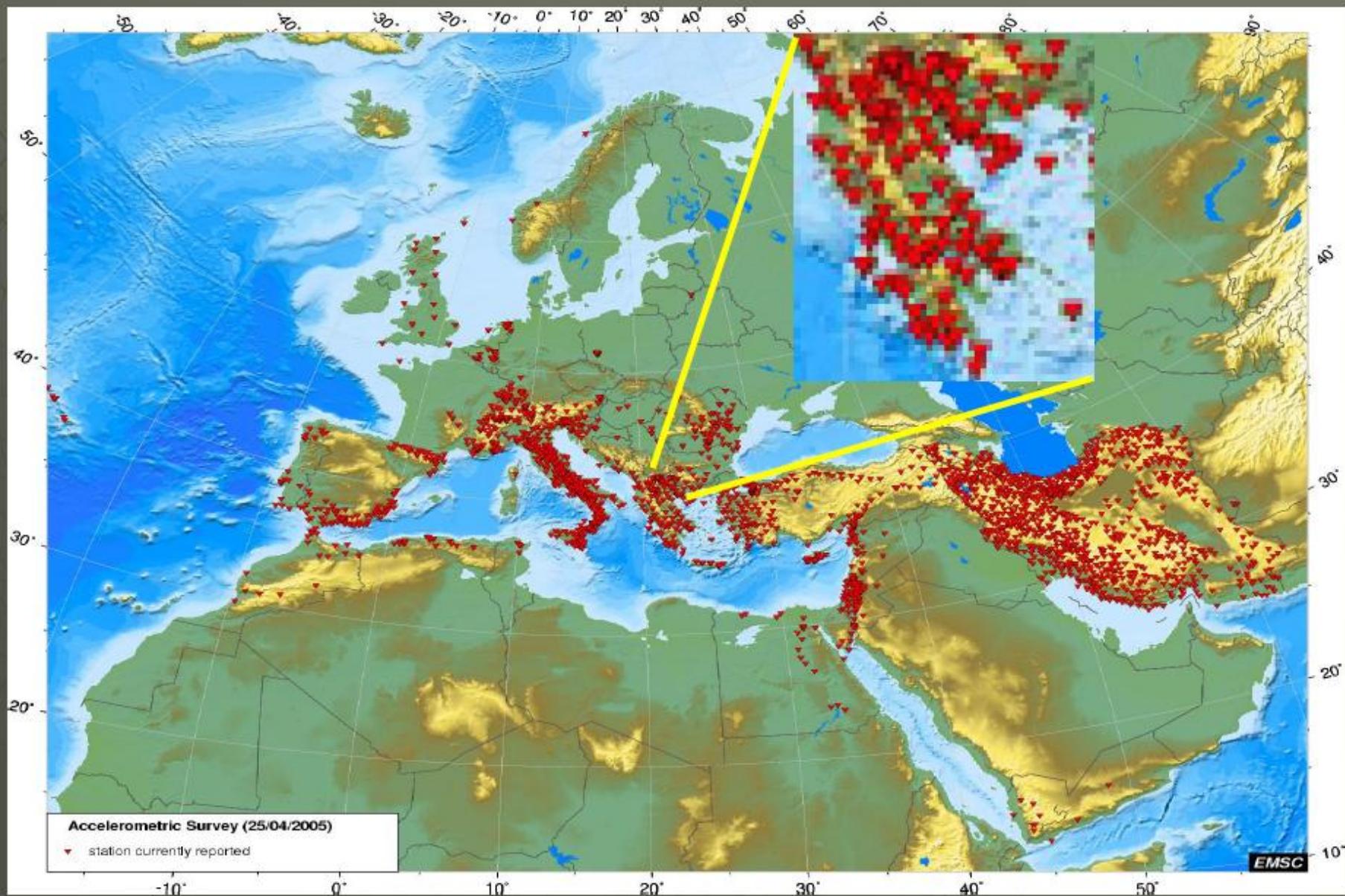
database



NEtwork of Research Infrastructures for European Seismology

*Contributors: EPPO-ITSAK (N. Theodoulidis, A. Savvaidis, K. Konstantinidou, E. Zargli)
& DRAKIS Lmt. Co.*

Strong motion stations in and around Europe [Source: EMSC]



Monographs Web Application

Monographs

Database

Web Application

Implementation platform

- ◆ Web server in Linux, Apache platform
- ◆ Application developed in PHP
- ◆ Database PostgreSQL in Windows 2003 Server
- ◆ ArcGIS server in Windows 2003 Server



SITE INFORMATION ON ACCELEROMETER STATIONS OF THE GREATER EUROPEAN REGION



About Help

Additional Layers

 Geological layer Geophysical layer

Stations

[Apply filters](#)[Remove filters](#)[Download CSV](#)

SWITZERLAND (3)

TURKEY (5)

FRANCE (1)

GREECE (210)

AGN1

AGR1

AGR2

AIA1

AIG1

AIG2

AKR1

ALM1

ALX2

AMK1

AML1

ANL1

ANS1

AOL1

ARE1

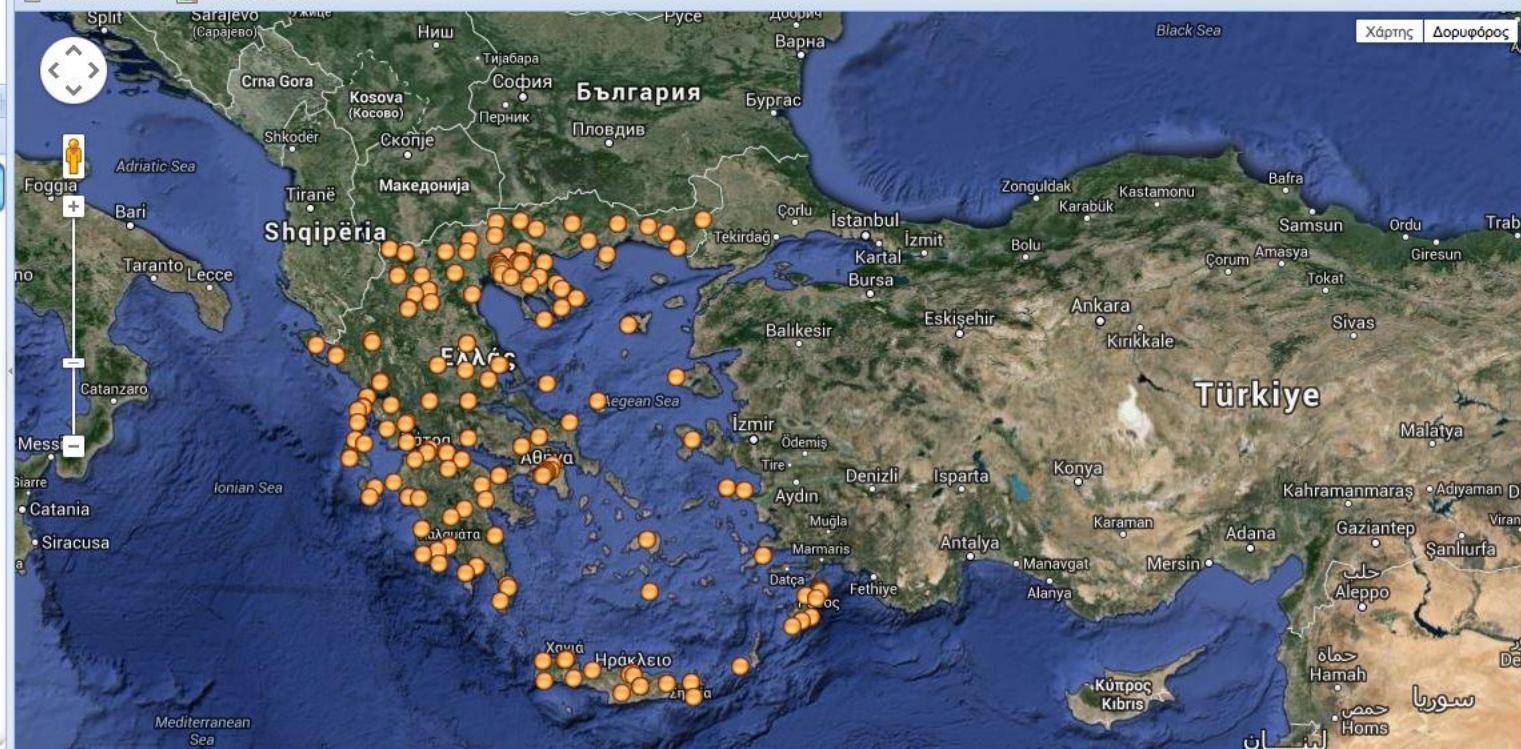
ARE2

ARG1

ARG2

ARK1

Map

[Calculate distance](#)[Go to coordinates](#)

Google

ITSAK

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series

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- THV2
- TMN1
- TMU1
- TMU2
- TRP1
- TST0
- VAR2
- VAS2
- VER1
- VOL1
- VOL2
- VOL3
- VRO1
- VSK1
- VSL1
- W01
- W02
- W03
- XAN1
- XAN2
- ZAK2

Map

Calculate distance Go to coordinates

Xάρτης Δορυφόρος

Google

TST0

EUROSEISTEST (Stivos-Profitis)

- General Site Information
- Geographical Data
- Site Description - Housing
- Earthquake Recordings
- Morphological Data
- Geological Data
- Geognostic Investigation
- Geotechnical Laboratory Analyses
- Geophysical Data
- Noise Recordings
- Site Response
- Site Transfer Function
- Dispersion Curve Information
- Contact

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- VSL1
- W01
- W02
- W03
- XAN1
- XAN2
- ZAK2

ITALY (40)

Map TST0

Geological map & Geological sketch

GRA

E01

H1

MOUNT TOUDRA

VALLEY DEPOSITS

TST

Lacustrine sediments: sandy clay, silt and fine-grained sand, rich in mica.

Deposits in river and torrent beds: sandy clay, sand and grits.

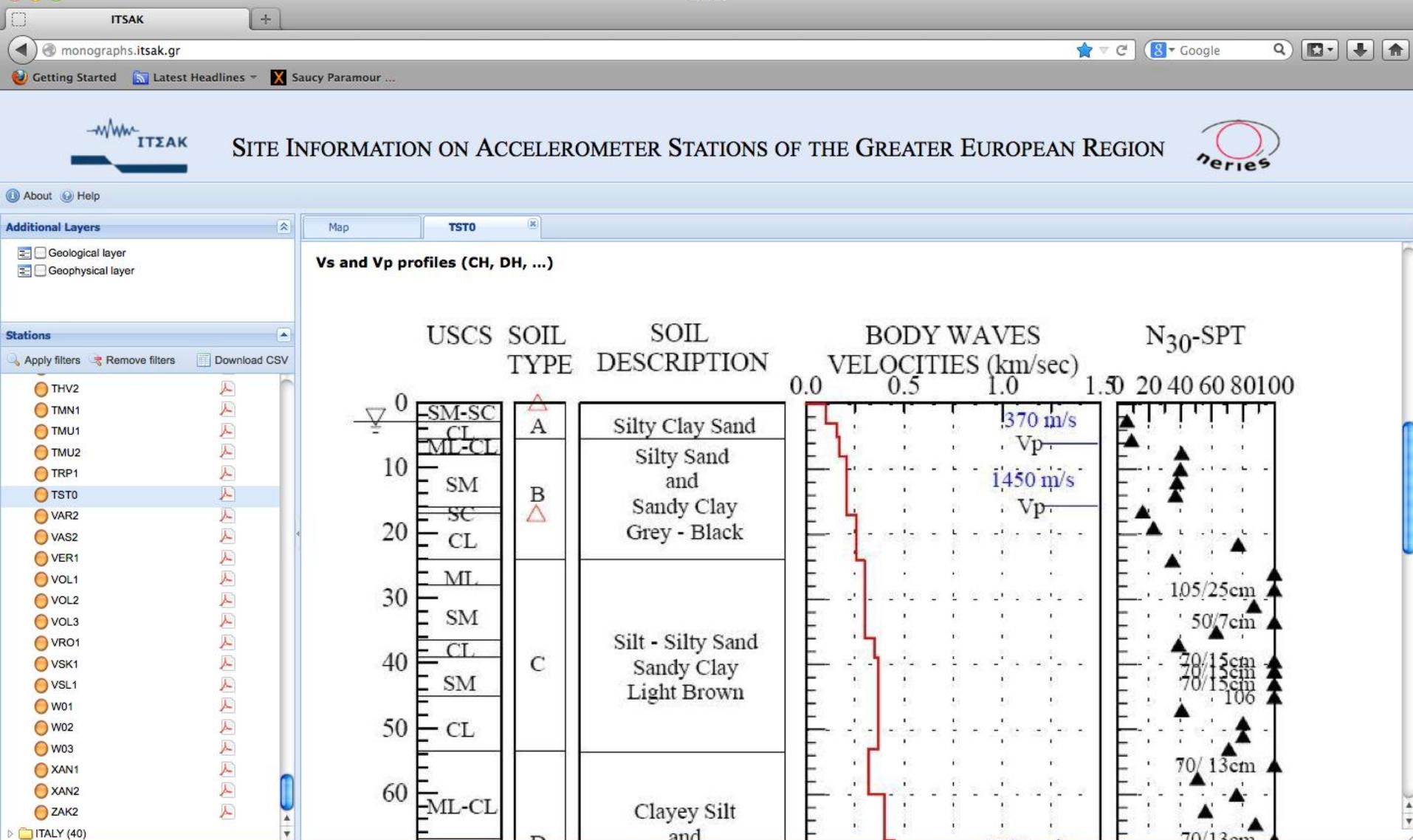
Valley deposits: sandy clay.

PLEISTOCENE

Lower terrace system: gravel and sand under a clayey cover (Pt₁₋₂c). The top of the system is located 3-6 m higher than the river level.

Middle terrace system: sand (Pt₁₋₂s) or gravel (Pt₁₋₂c). The top of the system is located 10-15 m. higher than the river level. Probably it represents older lacustrine sediments.

Upper terrace system: grits and pebbles with loam or sandy clay.





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About Help

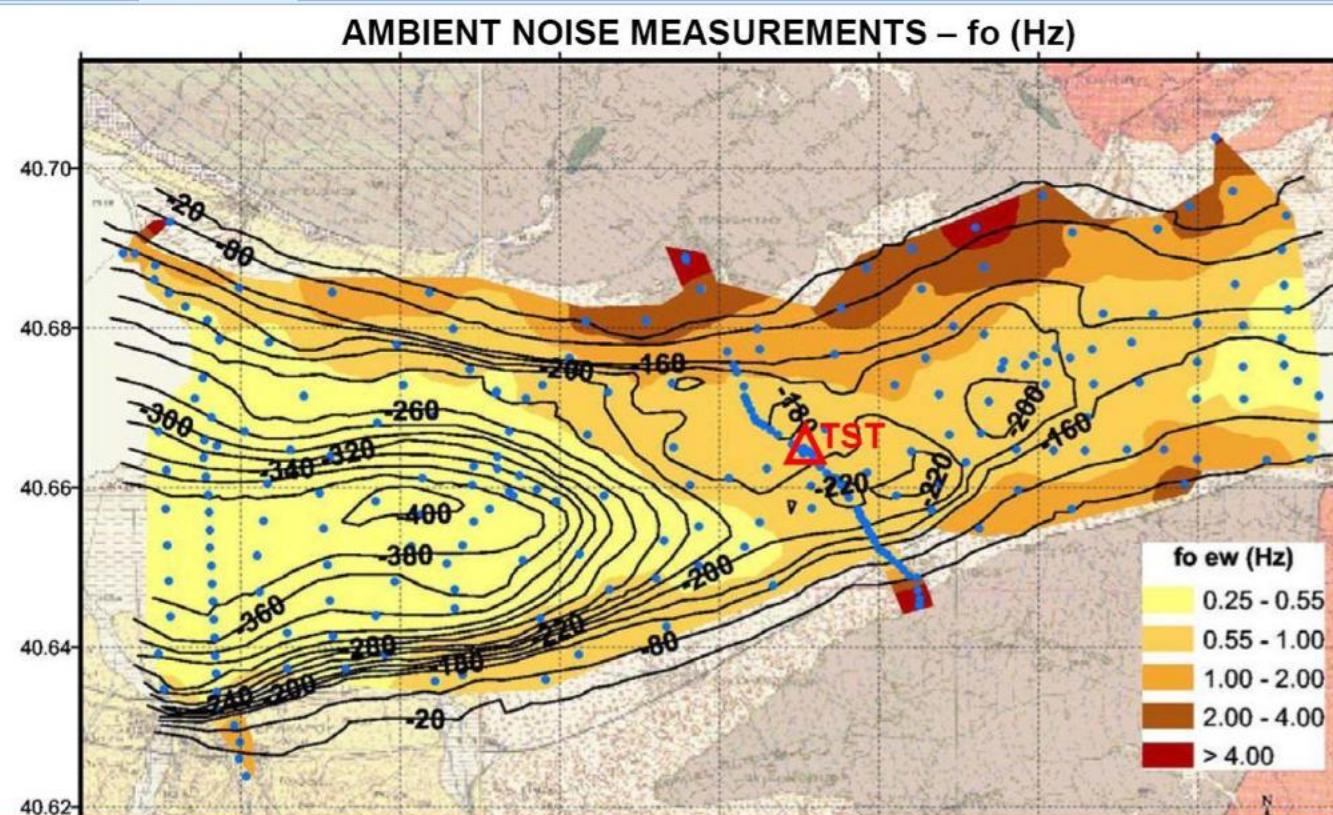
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Stations

	Apply filters	Remove filters	Download CSV
STD0			
STE1			
STL1			
STV1			
TEK			
THE5			
THE6			
THE7			
THS1			
THV1			
THV2			
TMN1			
TMU1			
TMU2			
TRP1			
TST0			
VAR2			
VAS2			
VER1			
VOL1			
VOL2			
VOL3			

Map TST0



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 - ALX2
 - AMK1
 - AML1
 - ANL1
 - ANS1
 - AOL1
 - ARE1
 - ARE2
 - ARG1
 - ARG2
 - ARK1



Map

Calculate distance Go to coordinates

Filters

Station code

Surface Geology

- Rock
- Stiff
- Soft

Latitude
Greater than and less than

Longitude
Greater than and less than

Altitude
Greater than and less than

Strong Motion Records
 N/A Yes No

maximum recorded PGA (g)
Greater than and less than

Apply filters Cancel





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- AOL1
- ARE1
- ARE2
- ARG1
- ARG2
- ARK1

Map

[Calculate distance](#) [Go to coordinates](#)

Filters

Morphology

- slope
- ridge
- valley
- top
- saddle
- plain

Stratigraphy & Lithology

 N/A Yes No

Bedrock Depth (m)

Greater than and less than

Geognostic investigation in-situ test

 N/A Yes No

Geotechnical laboratory analysis lab test

 N/A Yes No

Geophysical data in-situ test

 N/A Yes No

S-wave velocity

 N/A Yes No

S-wave measurement techniques

- CH
- DH
- CH-DH
- Refr
- MASW
- SASW
- Other

[Apply filters](#)[Cancel](#)



SITE INFORMATION ON ACCELEROMETER STATIONS OF THE GREATER EUROPEAN REGION

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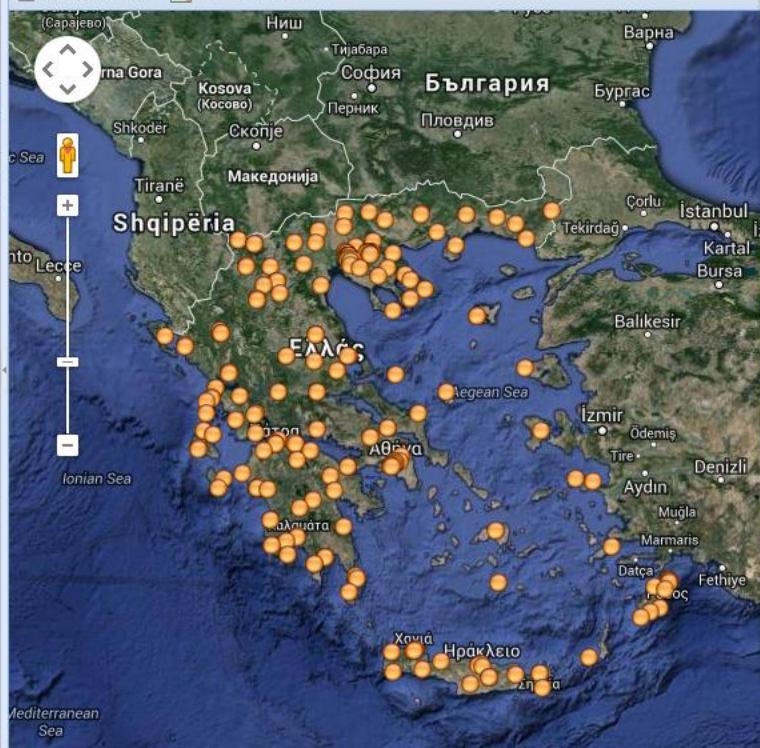
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Stations

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 - ANS1
 - AOL1
 - ARE1
 - ARE2
 - ARG1
 - ARG2
 - ARK1

Map

[Calculate distance](#) [Go to coordinates](#)

Filters

Single station measurements

 N/A Yes No

Array station measurements

 N/A Yes No

Site Response Analysis

 N/A Yes No

Type of site transfer function determination

- generalized inversion technique
- H/V from microtremors
- H/V from strong motion
- H/V from weak motion
- standard spectral ratio from strong motion
- standard spectral ratio from weak motion

Dispersion Curve Information - method of recordings

- Active
- Passive

Dispersion Curve Information - method of analysis (Active)

- SASW
- MASW

Dispersion Curve Information - method of analysis (Passive)

- ReMi
- SPAC
- FK

Institute

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Admin panel

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Dashboard - Logout

File manager - Users

Admin panel

Countries Static texts Stations User groups Users

Search

Stations

Show in map



Country

- SWITZERLAND
- TURKEY
- FRANCE
- GREECE
- ITALY

General Site Information

Station code *

Site Name-Location City or village or toponym / Country

Surface Geology [Rock, Stiff, Soft] = [Ro/St/Sf]



Geographical data

Latitude (xxx.xxxx degrees) North(+) South(-)

Longitude (xxx.xxxx degrees) East(+) West(-)

test

Admin panel

monographs.itsak.gr/admin/grid/poi/ Google

Getting Started Latest Headlines Saucy Paramour ...

Dashboard - Logout File manager - Users

Admin panel

Countries Static texts Stations User groups Users

Search

Stations [New Record](#)

[Import from XML](#) [Export to Excel/XML](#)

[Simple view](#) [Detailed view](#)

Show In Map	Country	Station Code	Picture	Data For Stations
	ITALY	BUI		9 Data for stations
	ITALY	ALT		11 Data for stations
	ITALY	ANP		6 Data for stations
	ITALY	ANR		7 Data for stations
	ITALY	ARN		12 Data for stations
	ITALY	BGI		11 Data for stations
	FRANCE	OGFH		10 Data for stations
	TURKEY	AI_005_SKR		7 Data for stations
	SWITZERLAND	SBAT		9 Data for stations
	ITALY	CAT		11 Data for stations
	GREECE	TST0		8 Data for stations
	GREECE	LEFA		6 Data for stations
	GREECE	AIGA		10 Data for stations
	GREECE	ATH3		10 Data for stations
	GREECE	EDE1		11 Data for stations
	GREECE	KNI1		7 Data for stations
	GREECE	KOR1		10 Data for stations
	GREECE	KVD1		11 Data for stations

test

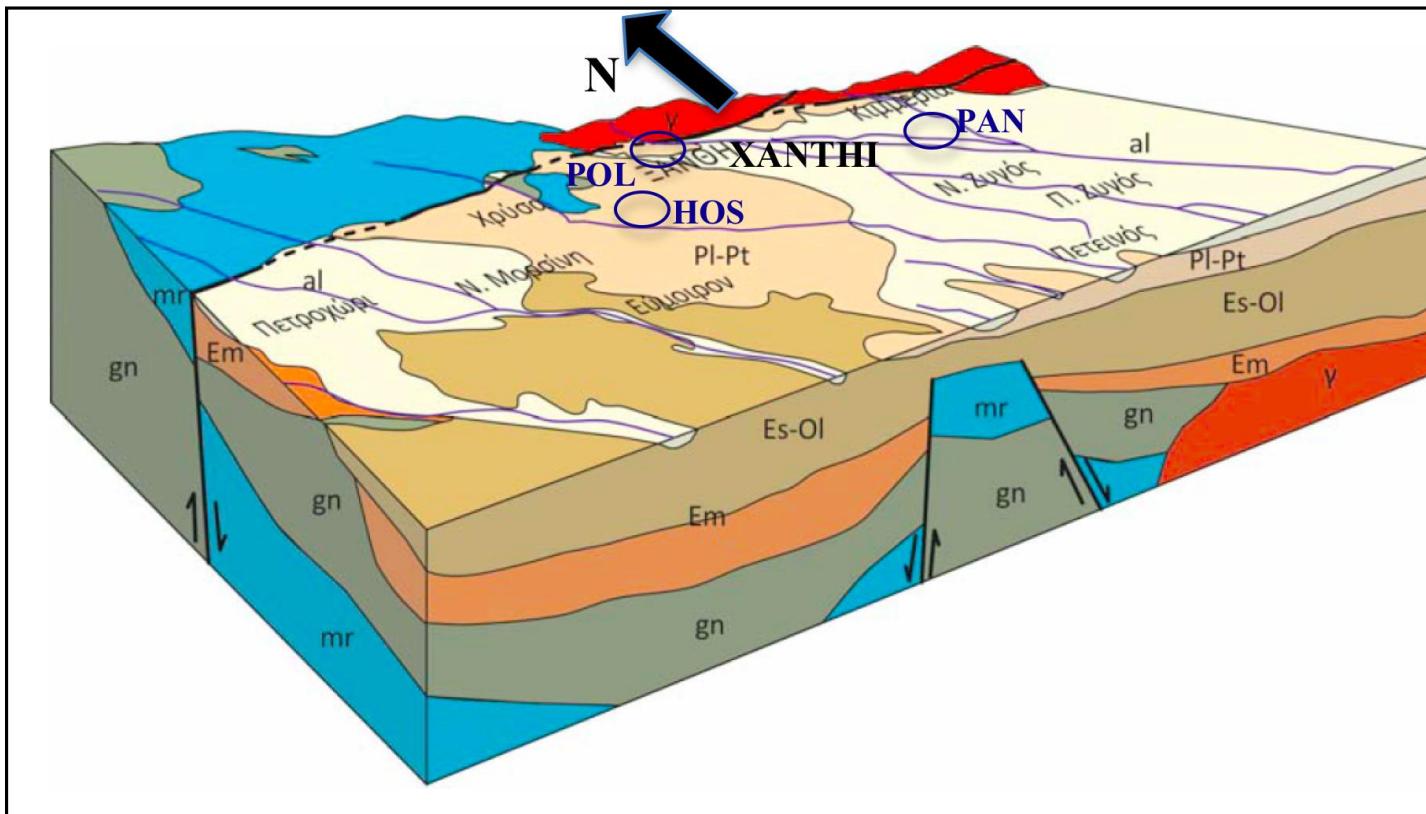
Future potential

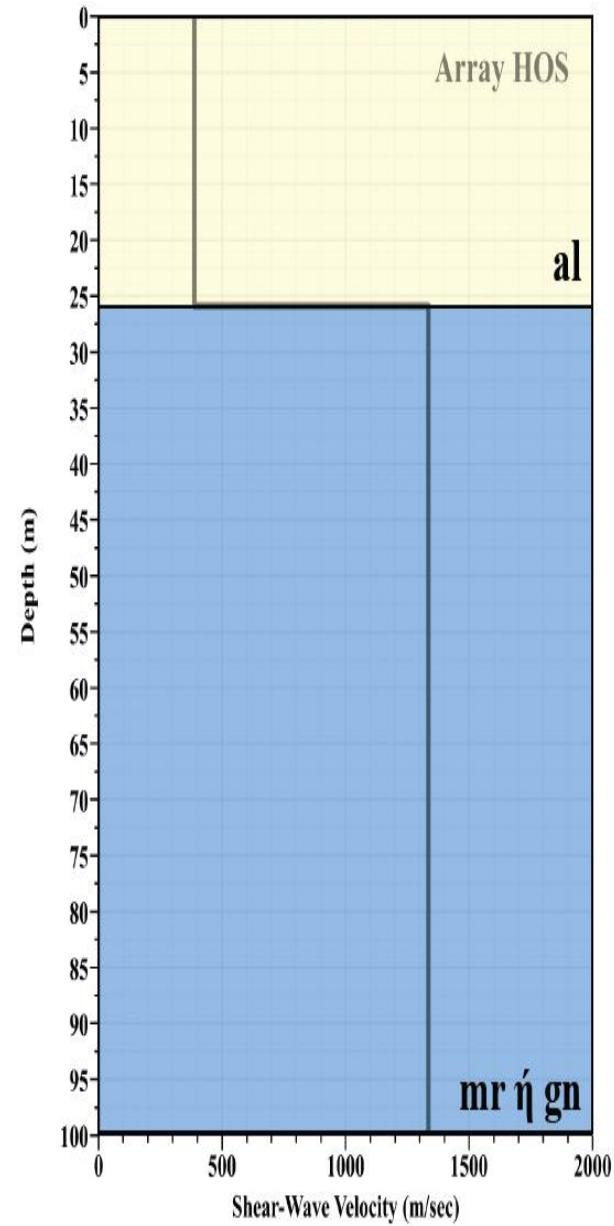
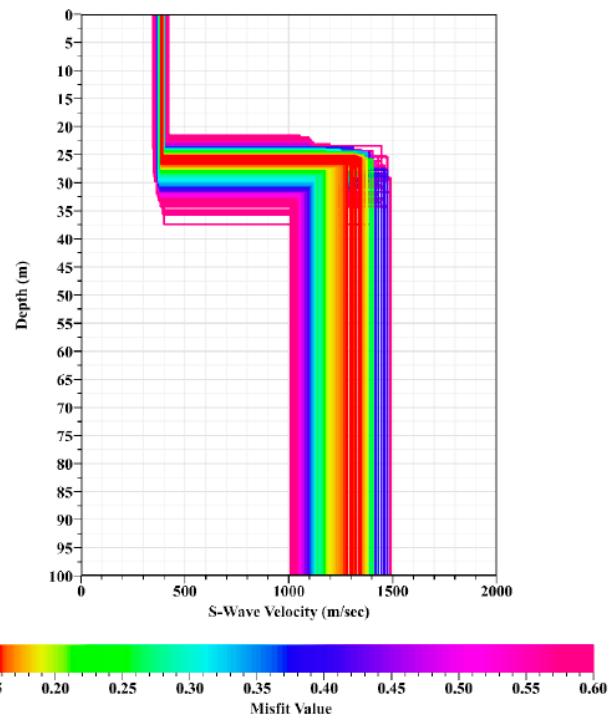
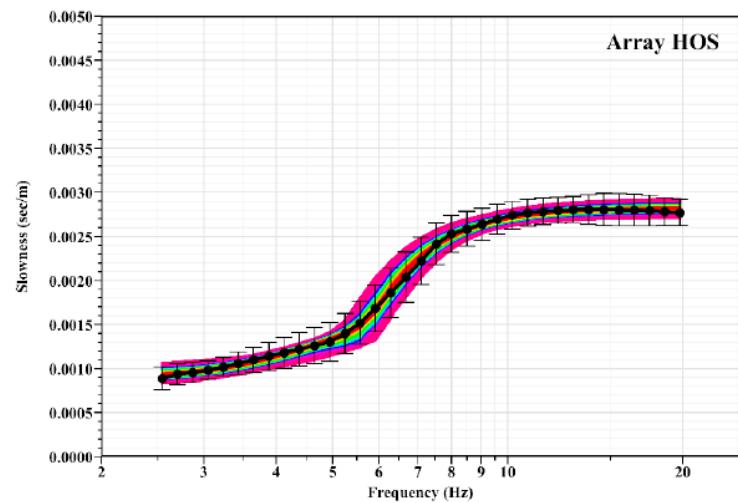
- ◆ Extend the database with information from almost 5000 monographs of the area in and around Europe.
- ◆ **Challenge:** Manage a cross country – multiple distributors database

Accelerograph station in eligible region - Greece



3D GEOLOGIC MODEL

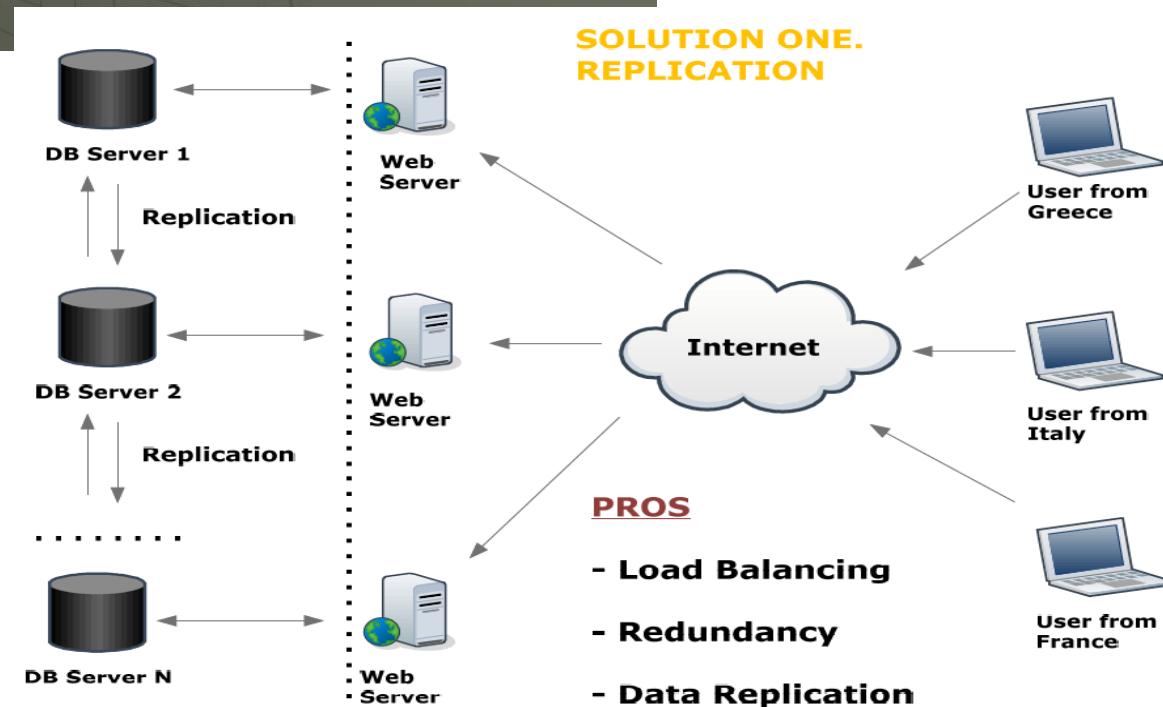




Thank you

◆ Solution One. Replication

- A single database & web application
- Replication of the full database & web application in more than one place with a replication / mirroring policy
- Visitors access a web app & DB depending on their positions
- Administration levels: each partner has edit access to their own stations



◆ Solution Two. Distribution

- Each partner keeps a database of their own data
- The common web interface is replicated in more than one place. Visitors access a web app depending on their positions
- The web app must query all the databases
- Administration: No problem, separate databases.

