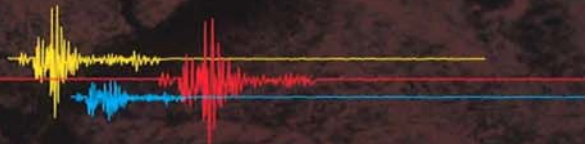
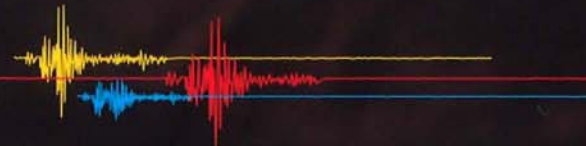


## Investigation Progress



## Members enrolled



### Full members (Listed in order per Japanese syllabary)

OYO Corporation	4-2-6 Kudankita, Chiyoda-ku, Tokyo	TEL.03-3234-0811	<a href="http://www.oyo.co.jp/">http://www.oyo.co.jp/</a>
Kawasaki Geological Engineering Co. Ltd.	2-11-15 Mita, Minato-ku, Tokyo	TEL.03-5445-2071	<a href="http://www.kge.co.jp/">http://www.kge.co.jp/</a>
KISO-JIBAN CONSULTANTS CO., LTD. (KJC)	1-5-7 Kameido, Koto-ku, Tokyo	TEL.03-6861-8800	<a href="http://www.kiso.co.jp/">http://www.kiso.co.jp/</a>
KOKUSAI KOGYO CO., LTD	2 Rokuban-cho, Chiyoda-ku, Tokyo	TEL.03-3262-6221	<a href="http://www.kkc.co.jp/">http://www.kkc.co.jp/</a>
SUNCOH CONSULTANTS CO., Ltd.	1-8-9 Kameido, Kōtō-ku, Tokyo	TEL.03-3683-7111	<a href="http://www.suncoh.co.jp/">http://www.suncoh.co.jp/</a>
DIA CONSULTANTS CO., Ltd.	1-7-4 Iwamoto-cho, Chiyoda-ku, Tokyo	TEL.03-5835-1711	<a href="http://www.diaconsult.co.jp/">http://www.diaconsult.co.jp/</a>
Chuo Kaihatsu Corporation	3-13-5 Nishiwaseda, Shinjuku-ku, Tokyo	TEL.03-3208-3111	<a href="http://www.cknet.co.jp/">http://www.cknet.co.jp/</a>
Token Geotec Co., Ltd.	3-13-10 Naka-cho, Urawa-ku, Saitama-shi, Saitama-ken	TEL.048-822-0107	<a href="http://www.tokengeotec.co.jp/">http://www.tokengeotec.co.jp/</a>
Nippon Geophysical Prospecting Co., Ltd.	2-2-12 Nakamagome, Ōta-ku, Tokyo	TEL.03-3774-3211	<a href="http://www.n-buturi.co.jp/">http://www.n-buturi.co.jp/</a>

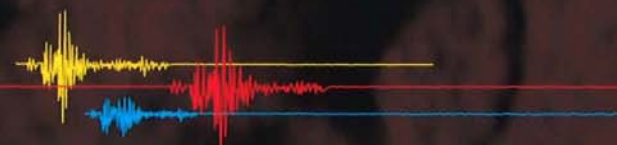
### Partners

Raax Co., Ltd. - Manufacturer	17-1-12 Kita-24-jo-Higashi, Higashi-ku, Sapporo-shi, Hokkaido	TEL.011-780-2222	<a href="http://www.raax.co.jp/">http://www.raax.co.jp/</a>
BDM Service Co., Ltd. - Head Office	1412-10 Fukaya-cho, Totsuka-ku, Yokohama-shi, Kanagawa-ken	TEL.045-852-7500	<a href="http://www.bdm.jp/">http://www.bdm.jp/</a>

# ESA

Earth Scanning Association

アース・スキャンニング研究会

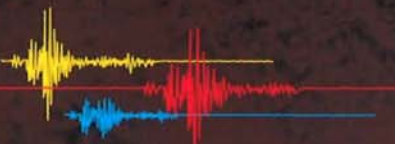


# ESA

Earth Scanning Association

アース・スキャンニング研究会

<http://www.esa.gr.jp/>



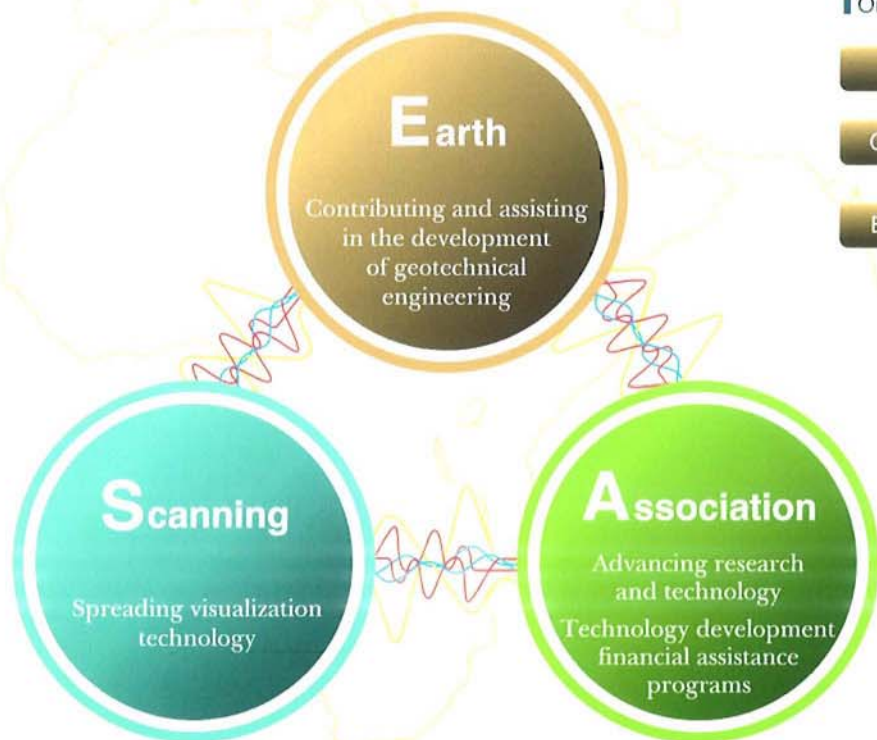
# ESA

Earth Scanning Association

Our aim is to contribute to society by promoting activities relating to the development and dissemination of visualization techniques for geotechnical investigation.

## Main Activities of Earth Scanning Association

(Formerly Known as BIPS Technology Association)



### Organization chart



### Goal

Our goal includes furthering the spread of applied technology development with regard to advancing research and their applications for visualization technology of subsurface. In addition, it includes aiding the development of geotechnical engineering and contributing to subsurface maintenance and preservation for local communities. Furthermore, we strive to develop visualization technology even more through cooperation with the general company and universities, etc.

### Corporate History

1993.6	Founding of BIPS Technology Association
2000.5	Establishment of BIPS Technology Association website
2007.9	Renamed Earth Scanning Association (Organization revision)
2007.11	Establishment of Earth Scanning Association's website

### Overview

Name	Earth Scanning Association
Established	June, 1993
Number of Members	12 companies (Current as of October, 2010)

### Activities

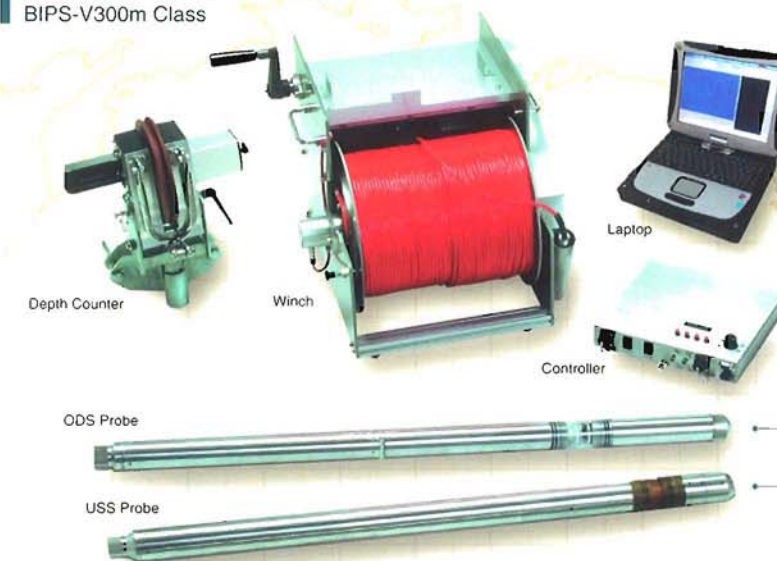
Management of technical committees
Technology development assistance program for private associations
Presentations for technical forums, etc.
Holding workshops for members
Making pamphlets and website

BIP-V, a newly developed BIP analysis system, is the ultimate borehole wall imaging device, offering a revolutionary advancement from "being able to see" inside the hole to ushering in an age of "showing" what is inside.

\*BIP is a registered trademark of Raax Co., Ltd. \*The BIP system is a Raax Co., Ltd. technology protected under the Patent Act. The patent is already valid in Japan, the U.S.A. and Australia.

### About the BIPS-V system

BIPS-V300m Class



### Internal imaging of boreholes using 2 methods



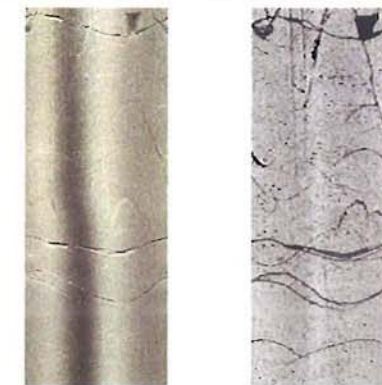
#### Digital Imaging [360° continuous] ODS probe

Digital recording of oriented sequential development imaging in full color. It measures the strike and dip and the width of the fissures with analysis software.

#### Ultrasonic wave imaging USS probe

[Based on the reflection intensity and reflection time] It scans the borehole in the wall in a spiral fashion with beams of ultrasonic waves. Immeasurable muddy water can also be imaged using USS because the sequential measurement imaging is formed from the reflection intensity and reflection time of the borehole in the wall.

### Comparison of measurement imaging samples



Digital imaging Photograph with an ODS probe      Ultrasonic wave imaging Photograph with a USS probe

### Application Examples

1. Geological investigation for dams
2. Accident prevention inspections for roads
3. Geological investigation of underground storage stations
4. Geological investigation for nuclear energy plants
5. The damage investigation of the structure by the earthquake disaster
6. The front investigation of the tunnel
7. Investigation of rivers and degree of obsolescence of bridges
8. Archaeological surveys



Measurements with BIP systems (The front investigation of the tunnel)

### Analysis Examples

After measuring with BIP, the data, which is statistically processing from various angles, can be managed collectively on a computer.

