

COMPANY PROFILE

NIA Engineering Co., Ltd. (NIA) integrates various fields in construction industry as Architect-Engineer (A-E) Consultant, providing the best design and engineering services to meet the client's needs, expectations and goals. It is NIA's policy to start the project with sound design and planning practices, considering the most reliable, economical and efficient technologies to successfully complete the project.

1. Company Name: **NIA Engineering Co., Ltd.**

Established on December 25,
2001 Capital paid 18,500,000 yen

2. Business Purposes:

- (1) Project Management in A-E services
- (2) A-E Services: Site Investigation, Planning and Design, Landscape Design, Technical Consultation and Construction Supervision
- (3) Structural soundness investigation for concrete and steel structures, Analysis and evaluation for building renovation, Selection of construction method, and Construction planning for projects in Japan and U.S. Military installations in Japan
- (4) Investigation, Analysis and Evaluation for environmental soil remediation
- (5) Surveying and soil investigation
- (6) Other related works

3. Business Address:

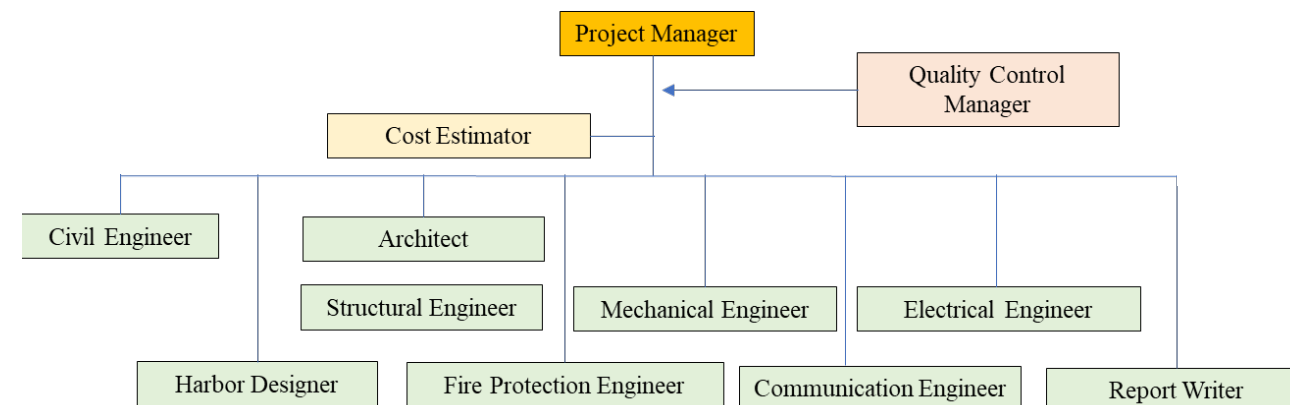
1-14-3 Motoasakusa, Taito-ku, Tokyo 111-0041
Phone: 03-3843-0616 / Fax: 03-3843-0617

4. Main Bank:

MUFG Bank, Akabane Ekimae Branch

Sumitomo Mitsui Banking Corporation, Ueno Branch

5. Organization Chart:

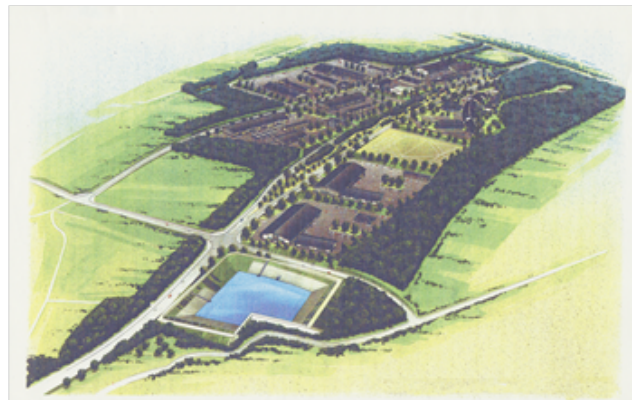


6. Professional Licenses:

- Consulting Engineer (Construction)
- Consulting Engineer (APEC Civil/Structure Engineer)
- Professional Engineer (P.E.) California State
- Consulting Engineer (Mechanical Engineering)
- Consulting Engineer (Electrical Engineer)
- First Class Architect
- First Class Construction Supervisor (Civil)
- First Class Surveyor
- RCCM (Engineering Consulting Manager for Environmental, City Planning and Development)
- RCCM (Engineering Consulting Manager for River and Seawall)
- RCCM (Engineering Consulting Manager for Soil and Foundation)
- RCCM (Engineering Consulting Manager for and Steel/Concrete Structure)
- Concrete Chief Engineer
- Slope Stabilization Engineer
- First Class Electrical Engineer
- Fire Protection Engineer
- Registered Management Consultant (Certified Social Insurance/Labor Consultant)

ENVIRONMENTAL ENGINEERING DESIGN SERVICES

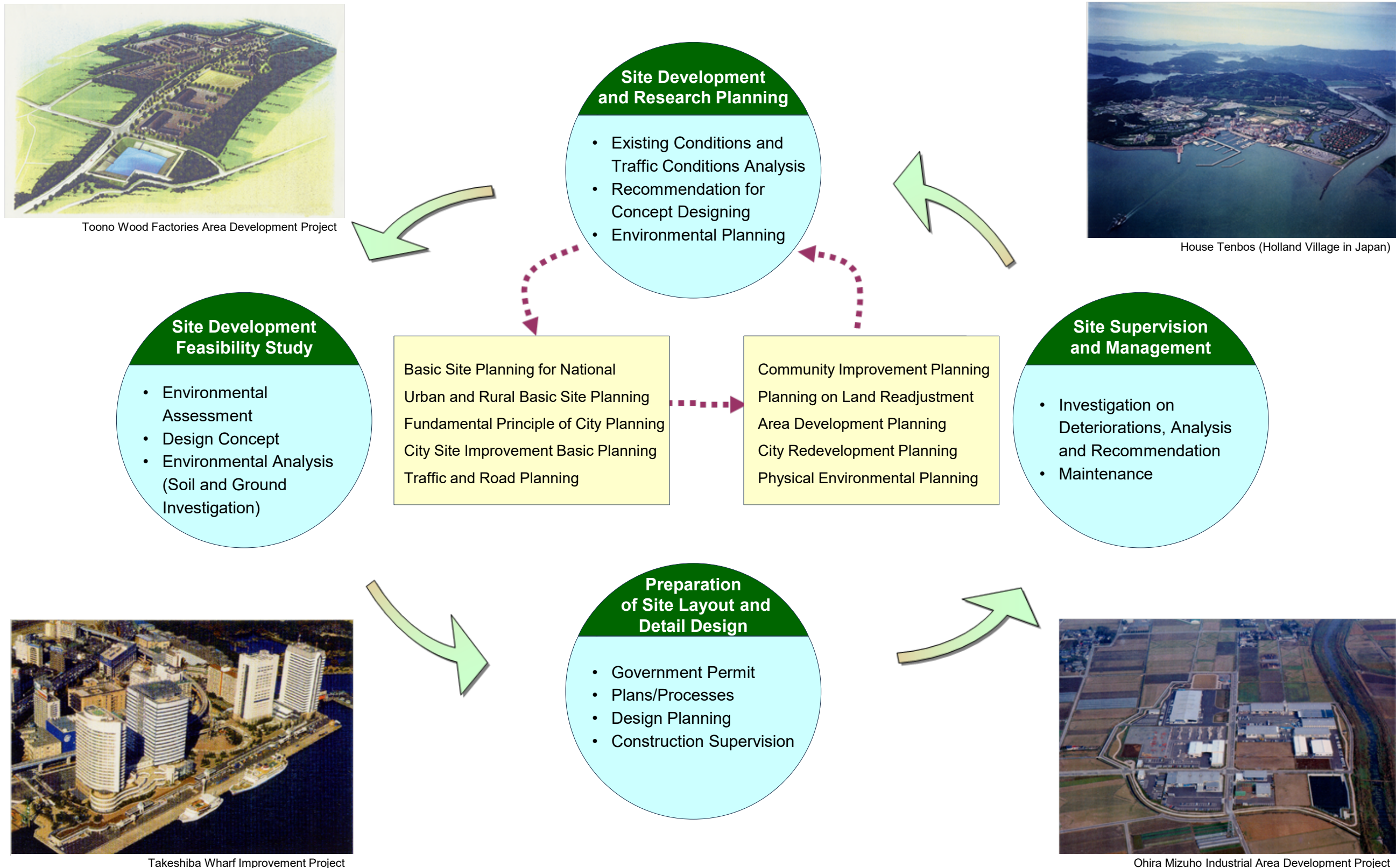
NIA recognizes that the development of land is the essential part in people's life. It is necessary to have careful understanding in coping with the diversification of the society's needs and business goals, critical to successful land development projects. It provides chances to affect the physical and economic environment utilizing technical proficiency for improvement of work places, homes and recreation locations.



Toono Wood Factories Area Development Project



House Tenbos (Holland Village in Japan)



Takeshiba Wharf Improvement Project

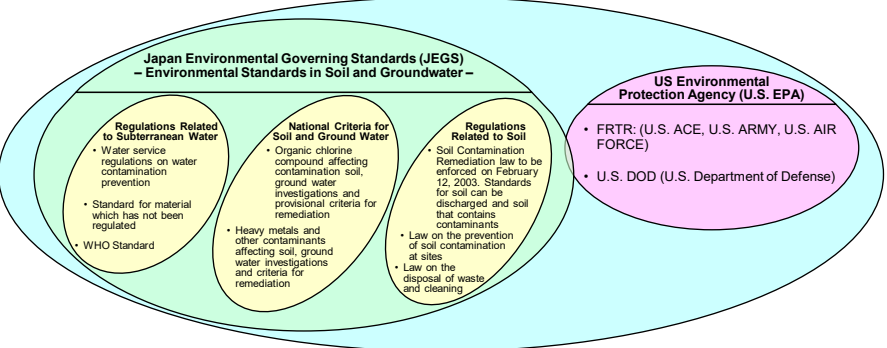


Ohira Mizuho Industrial Area Development Project

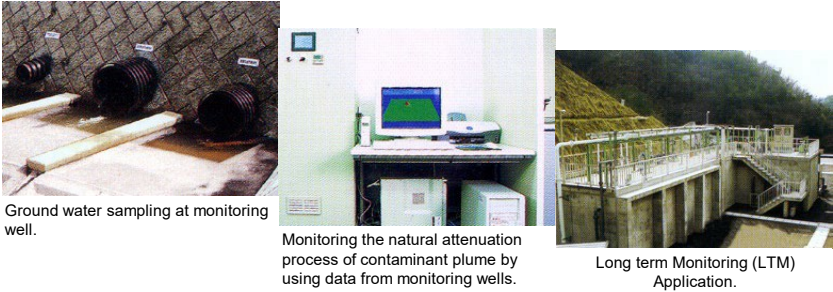
CONTAMINATED SOIL / GROUNDWATER REMEDIATION SYSTEM

NIA provides consulting services on the contaminated soil and groundwater remediation technologies.

Existing Environmental Standards for Soil and Ground



PHASE— III Execution Example



Confirmation on the Effect of Applied Contamination Remediation

(1) Ground water investigation by boring well.
(2) Contamination analysis by regular soil sampling.

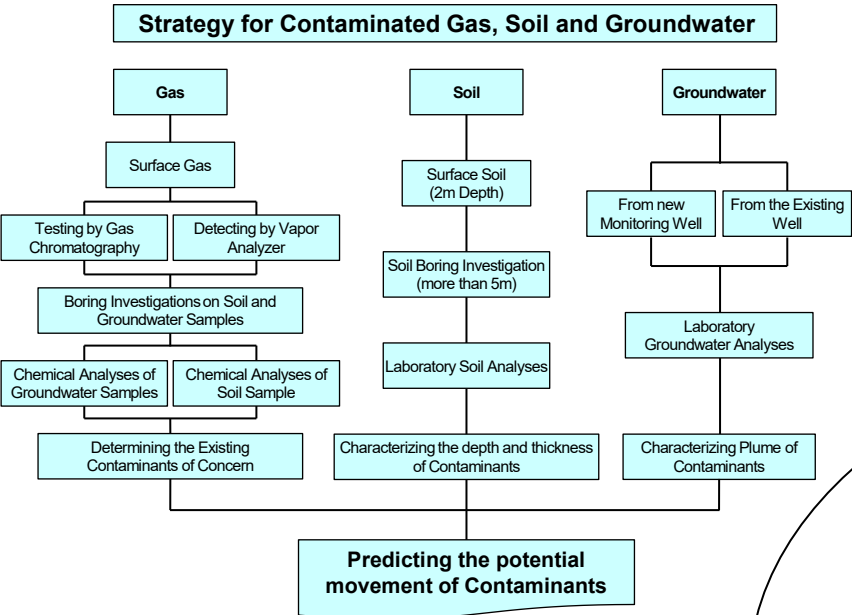
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Confirmation on the effect of simulation to soil and ground water by three-dimensional.

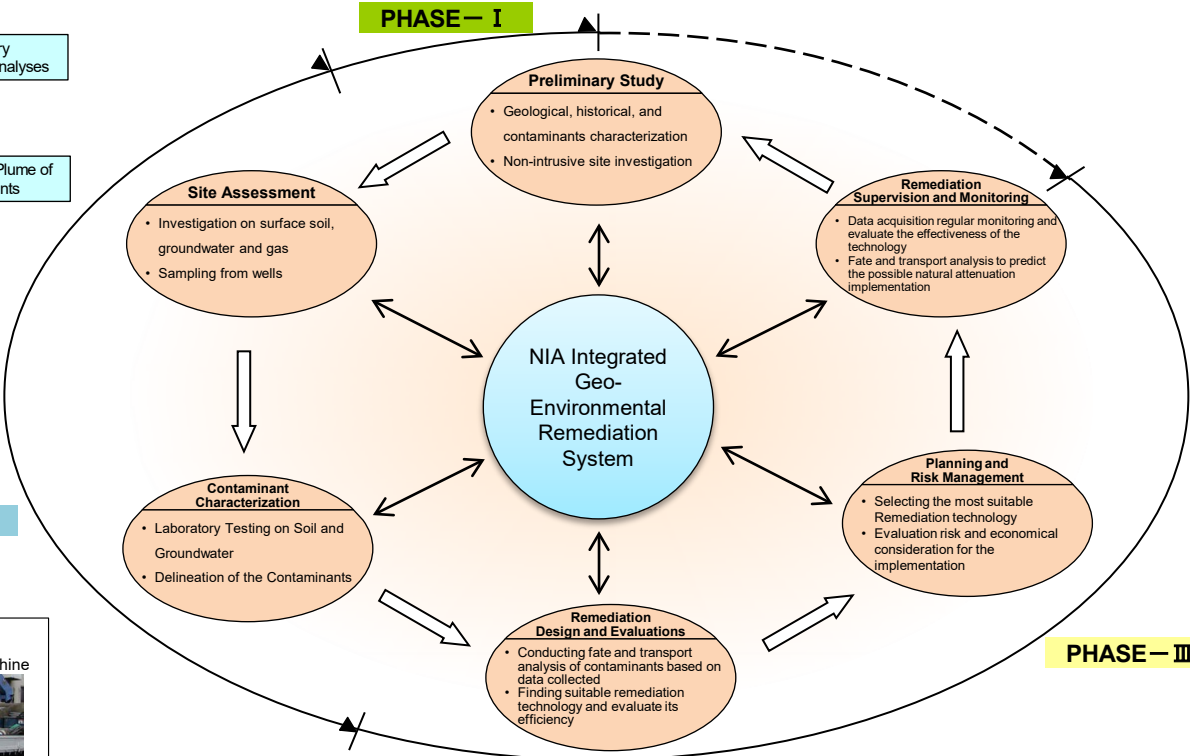
Confirmation on the Effect of Remediation by Periodical Monitoring

(1) Condition after contamination remediation and confirmation of the ground water movement by the boring well installation.
(2) Condition after contamination remediation and confirmation of soil condition by soil sampling.

PHASE— I Preliminary Study



PHASE— I



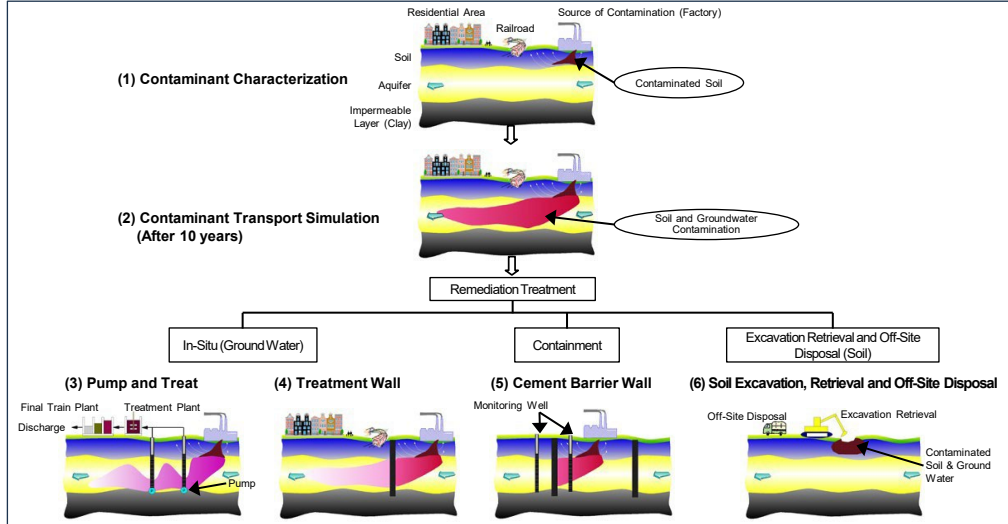
PHASE— II

PHASE— II Actual Site Investigation



PHASE— III

3D Fate & Transport Analysis / Evaluation of the Contaminant Plumes and Predicting its movement in the aquifer



Treatment Technologies Screening

Abbreviation			Development Status	Q&M or Capital Intensive
Y- Yes;	N- No;	F- Full; P- Pilot		
S- Solid	L- Liquid	V- Vapor		
NA- Not Applicable	I- Inadequate			
O&M- Operation and Maintenance	B- Both			
Cap- Capital				
In Situ	Biological Treatment	Bioventing	F	N
		Bioremediation	F	O&M
		Phytoremediation	F	N
	Physical/Chemical Treatment	Chemical Oxidation	F	O&M
		Soil Flushing	F	O&M
		Soil Vapor Extraction	F	O&M
		Solidification / Stabilization	F	Cap
	Thermal	Thermal Treatment	F	B
Ex Situ	Biological Treatment (assuming excavation)	Biopiles	F	N
		Compositon	F	N
		Landfarming	F	N
		Slurry Phase Biological Treatment	F	B
		Chemical Extraction	F	B
	Physical / Chemical Treatment (assuming)	Chemical Reduction / Oxidation	F	Cap
		Separation	F	O&M
		Soil Washing	F	B
	Thermal Treatment (assuming)	Incineration	F	B
		Open Burn / Open Detonation	F	B
Thermal Desorption		F	B	
Containment	Landfill Cap	F	Cap	
Other Treatment	Excavation, Retrieval and Off-Site	F	N	

Treatment Technology Screening

Groundwater
Surface Water and Leachate

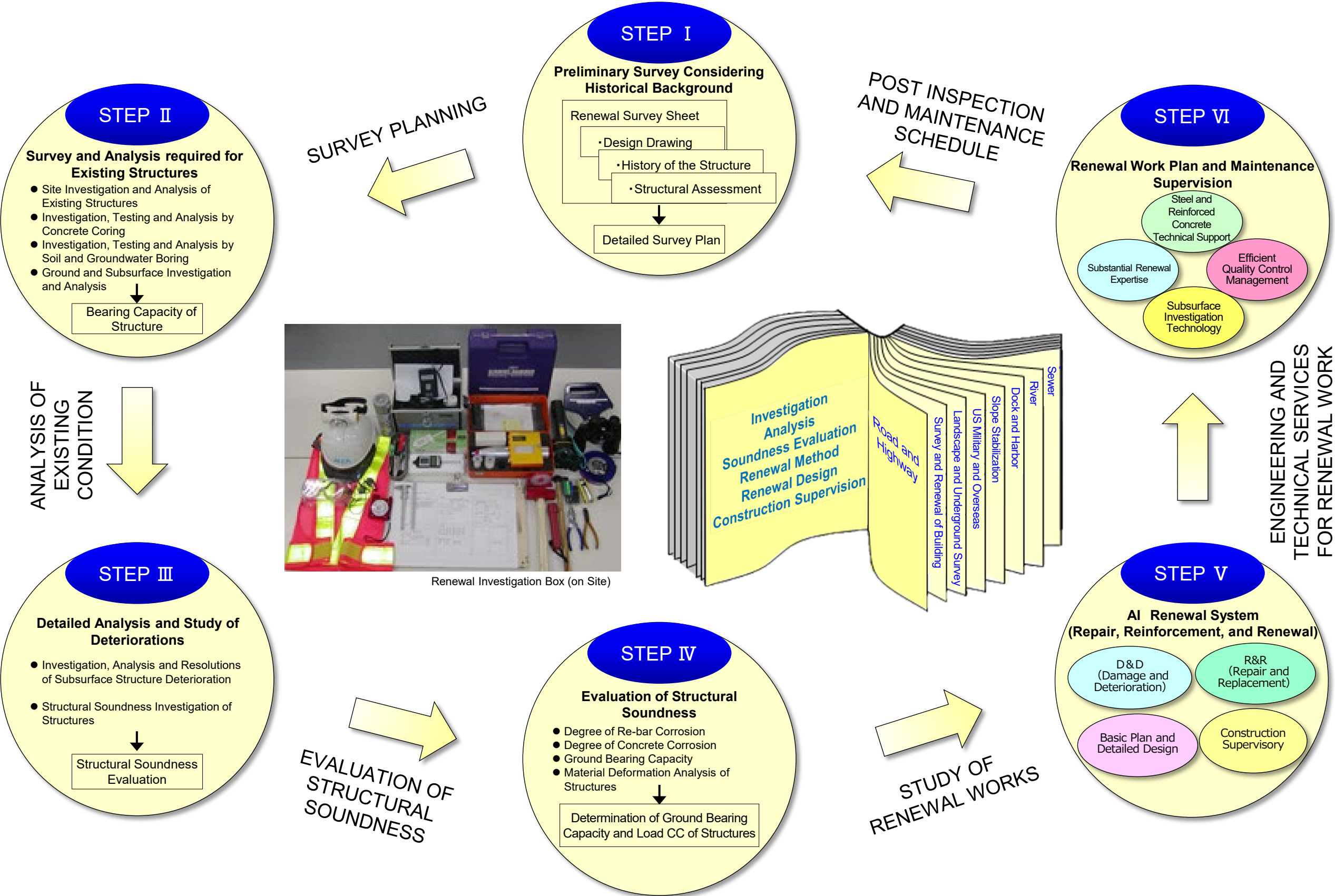
Soil
Sediment, Bedrock, and Sludge

In Situ	Biological Treatment	Enhanced Biodegradation	F	O&M
		Natural Attenuation	F	O&M
		Phytoremediation	F	N
	Physical / Chemical Treatment	Air Sparging	F	N
		Biostirring	F	N
		Chemical Oxidation	F	O&M
Ex Situ	Biological Treatment	Directional Wells	F	Cap
		Thermal Treatment	F	B
		In-well Air Stripping	F	N
	Physical / Chemical Treatment (assuming excavation)	Passive / Reactive Treatment Walls	F	N
		Bioreactors	F	Cap
		Constructed Wetlands	F	Cap
	Physical/Chemical Treatment (assuming excavation)	Adsorption / Absorption	F	O&M
		Advanced Oxidation Processes	F	B
		Air Stripping	F	O&M
		Granulated Activated Carbon / Liquid Ground Water Pumping	F	O&M
Containment	Air Emissions / Off-Gas Treatment	Ion Exchange	F	B
		Separation	F	Cap
	Physical Barriers	Sprinkler Irrigation	F	N
		Biofiltration	F	N
Air Emissions / Off-Gas Treatment	High Energy Destruction	Membrane Separation	P	I
		Oxidation	F	N

RENOVATION OF STRUCTURES

– GROUND INVESTIGATION AND DETAILED SUBSURFACE INVESTIGATION –

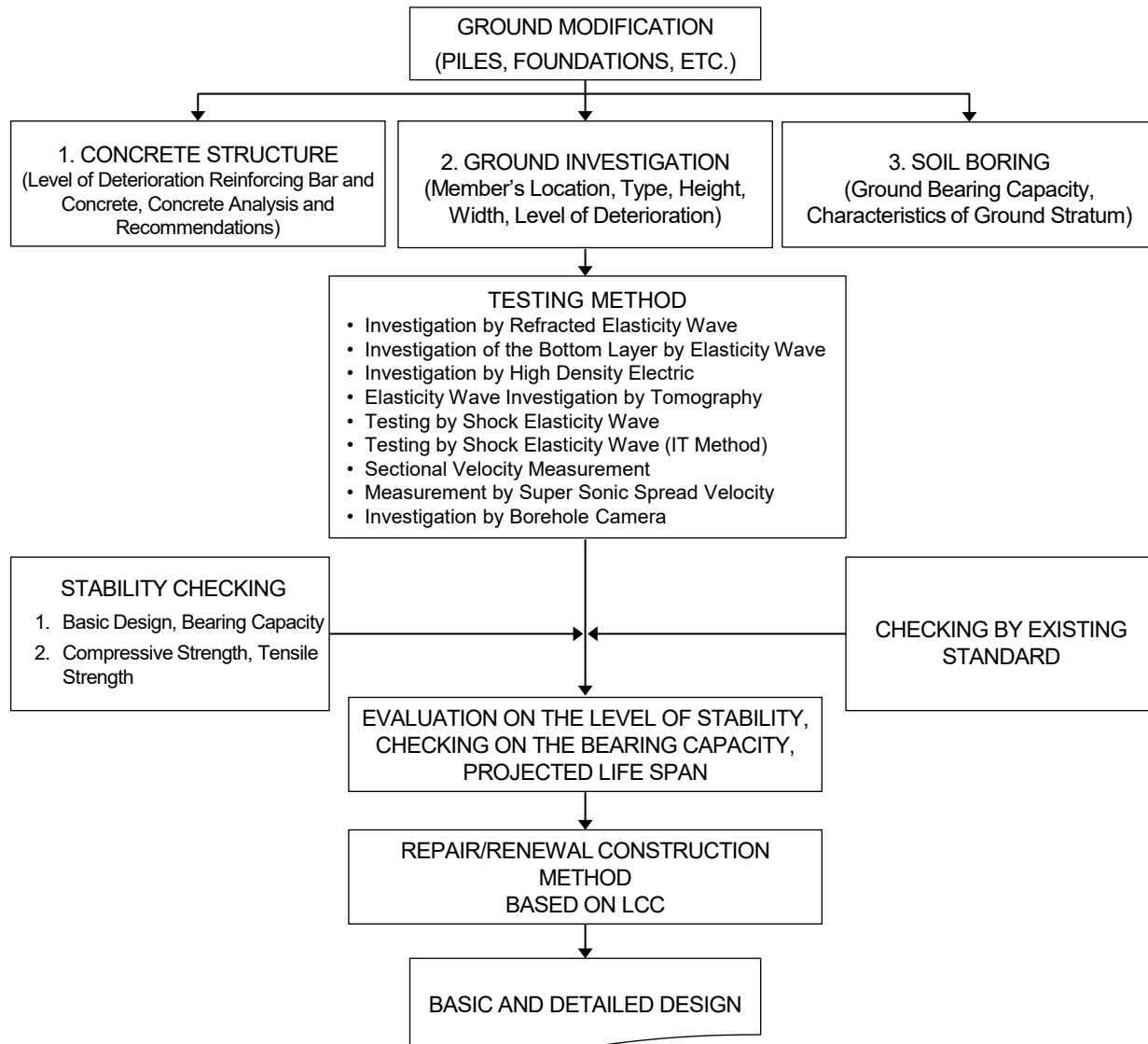
NIA provides engineering services for the renovation of existing infrastructures, which contributes to the development of the society as the final goal.



GEOTECHNICAL ENGINEERING

With **NIA's** technical knowledge on the combination of ground investigation and the expertise on the evaluation of structural soundness of existing concrete and steel structures, it is guaranteed to provide reliable and effective results from the bearing capacity checking and projected life span of the structures. **NIA's** experts apply these technologies to provide cost effective solutions to the project's entire life-cycle cost especially for the selection of construction method.

【RENEWAL SYSTEM USING THE GROUND INVESTIGATION】



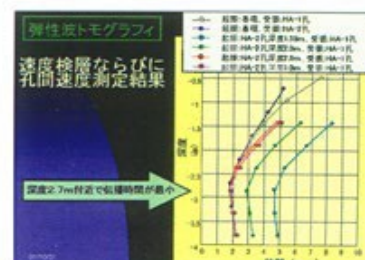
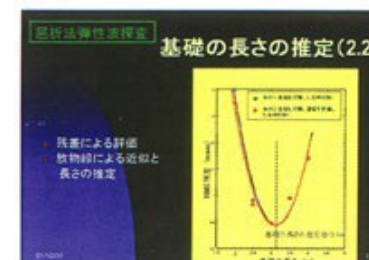
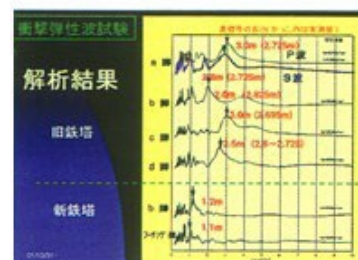
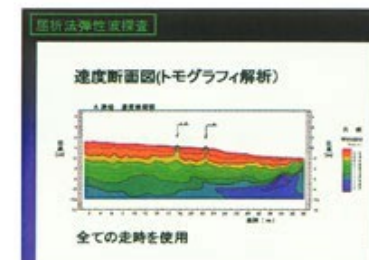
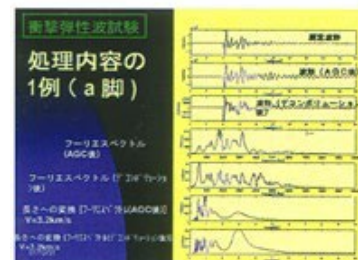
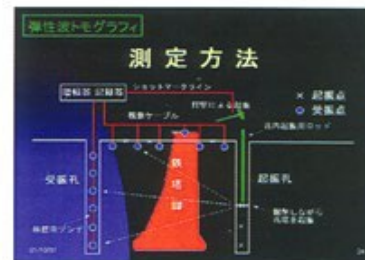
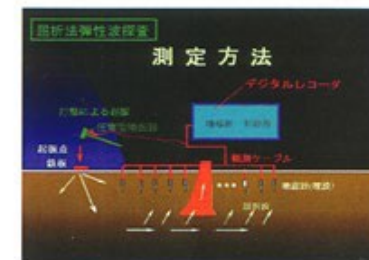
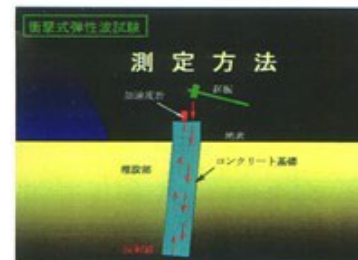
Confirmation of pile length by
shock elasticity wave test



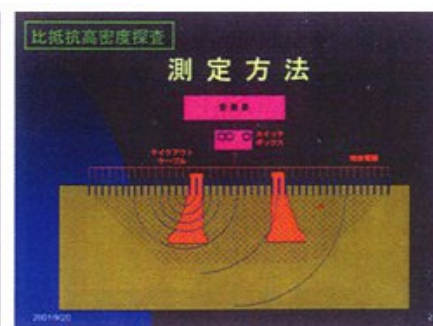
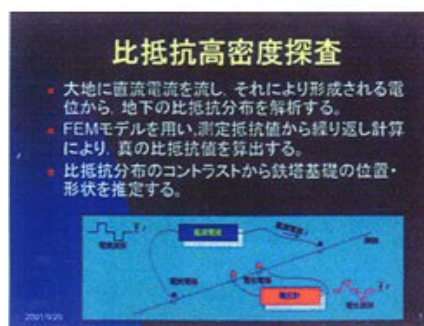
Confirmation of pile type by
refracted elasticity wave



Confirmation of pile length by
tomography elasticity wave



VERIFICATION OF PILE LOCATION BY THE HIGH-DENSITY RATIO RESISTANCE



- Technology Development for the Verification of the Location, Type, Dimension, and Degree of Deteriorations of Ground Structures (Phase - 1 ~ Phase - 5). Japan Society of Civil Engineers Sept. 2002
Kenji Nakajima, Tsuyoshi Kasuya, Michiyuki Imano and others.
- Cave Investigation by Resistivity Test using Electrical Prospecting Method. Japan Society of Civil Engineers Sept. 2014
Kenji Nakajima, Michiyuki Imano and others.