

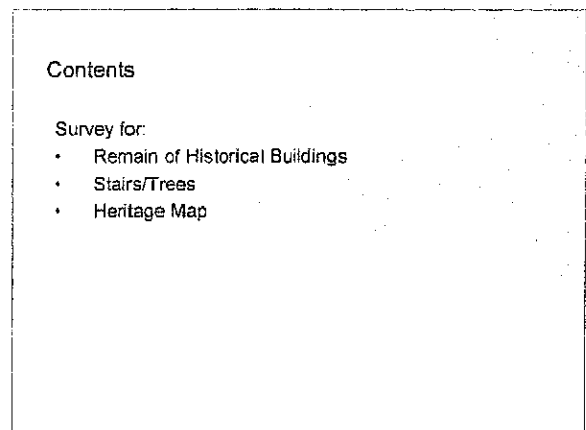
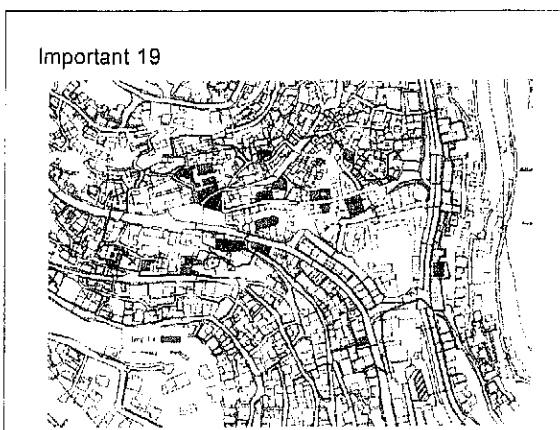
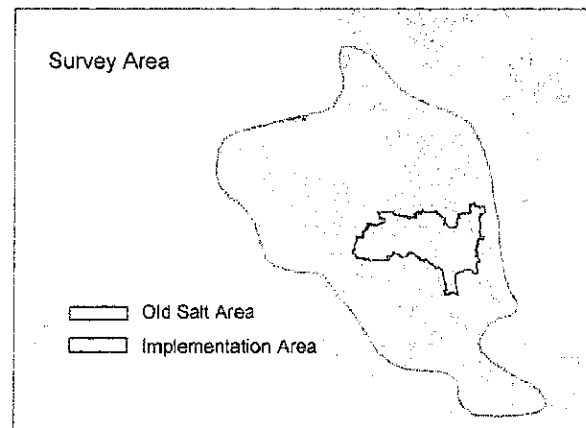
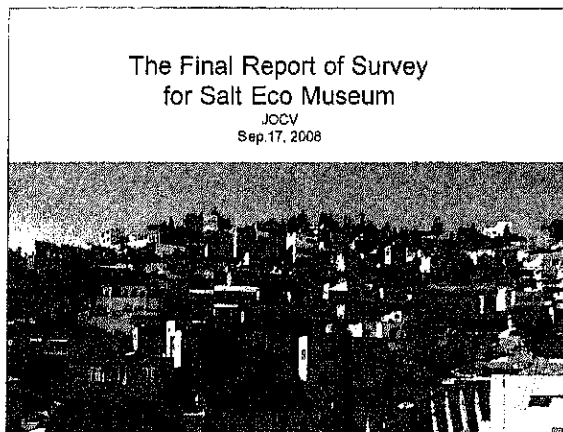
5. Technical Inputs

Date: Sep. 17th 2008

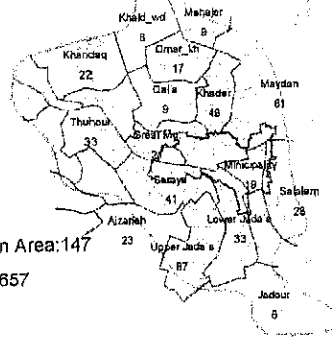
Place: SDC and PMU (2 times)

Participant: Jowad Banna (SDC), Adel Zureikat (JICA), Mayumi Akahoshi (JOCV),
 Marina Mathubara (JOCV), Keiko Ishii (JOCV),
 Takuro Hanaoka (JOCV), Kayo Murakami (JOCV),
 Lotus Abu Karaki (PMU), Eng. Lina Abu Salim (ASCD),
 Huda Kilani (HOSM), Ansam Malkawi (MOTA), Rababa (JBIC),
 Rayya Arabiyat (Appointed members by Steering Committee),
 Yuichi Fukuoka (PCI), You Ebisawa (JBIC), Mika Suzuki (JICA),
 Akiko Yamaguchi (Karak JOCV)

Purpose: Final Report of Survey

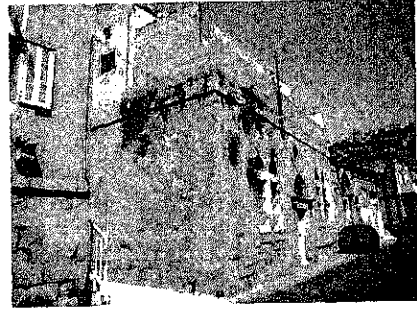


Historical buildings in Old Salt Area(1990)

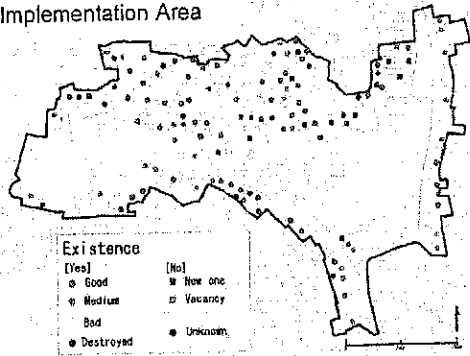


Implementation Area:147
Old Salt Area:657

Remain of Historical Buildings



Implementation Area



Khader Area

Existence
[Yes] [No]
● Good ■ None one
○ Medium □ Vacancy
⊖ Bad ◻ Unknown
⊗ Destroyed



Condition of historical buildings



Condition of historical buildings



2. Stairs/Trees

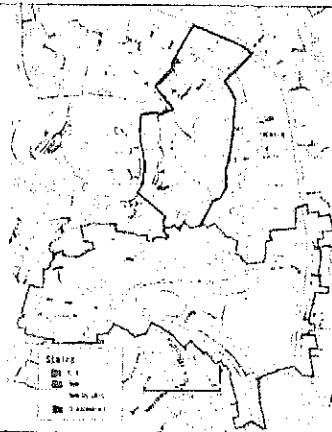
purpose:

- To know the place of stairs as tools for tourists
- To grasp the condition of historical stairs and trees as important elements of Salti urbanscape

Historical Stairs



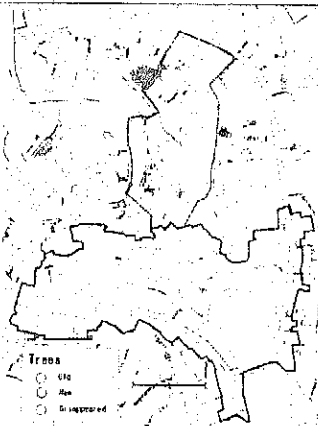
Stairs



Trees



Trees



3. Heritage Map

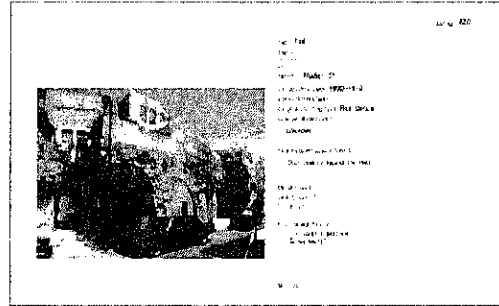
Method and purpose:

- Hearing Survey
- To get the interesting information from people living in Salt

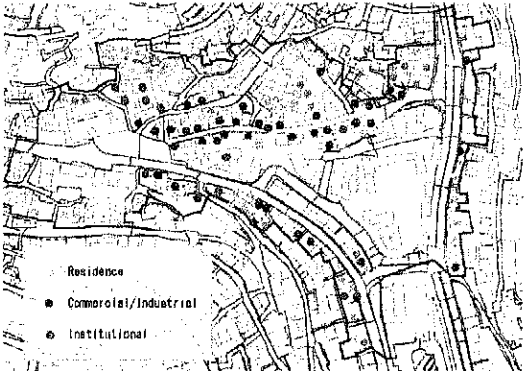
Hearing Survey



Survey Sheet



Categorized Map (Original Building Types)

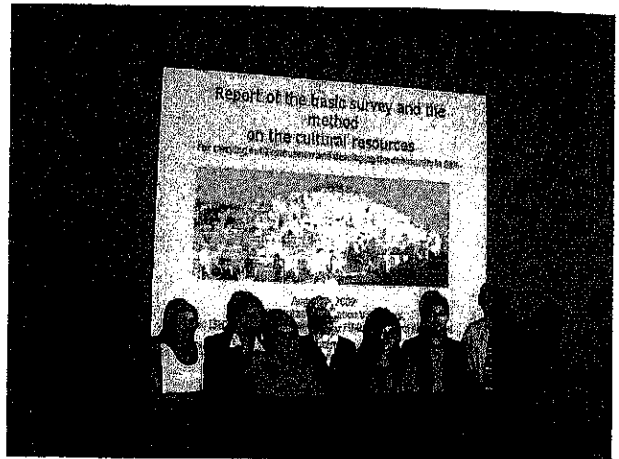


Date: Aug. 2nd 2009


Place: SDC

Participant: Jowad Banna (SDC), Adel Zureikat (JICA), Brother Andrew,
Eng. Lina Abu Salim (ASCD), Ola Klob (DoA), Doa'a Hiary (ASCD),
Keiko Ishii (JOCV), Kayo Murakami (JOCV), Aiko Fukui (JOCV),
Mayumi Akahoshi (JOCV), Mika Suzuki (JICA)

Purpose: Final Report of Basic Survey



Report of the basic survey and the method on the cultural resources
 - For carrying out Ecomuseum and developing the community in Salt -



August 2, 2009
 Japan Overseas Cooperation Volunteers,
 Kaiko ISHII / Kayo MURAKAMI / Aiko FUKUI / Aiyumi AKAHOSHI
 Counterparts,
 Ola KLOUB / Dou'a HIARI

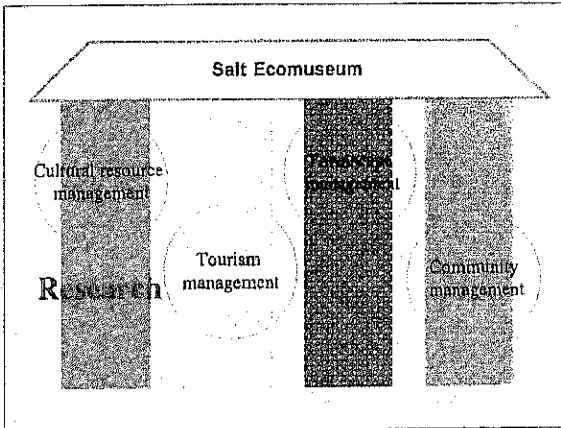
0. Mission

- Conduction of the basic survey on the cultural resource-
- Introduction of its method to carry out the Salt Ecomuseum and develop the Salt community

1. Survey

- Grasping the current situation of the 657 heritage buildings surveyed for "Salt: A Plan for Action" (Below, SPFA) in 1990

1990 → 2009
 After 20 years



2. Method

- 2.1 Collecting materials & information
- 2.2 Surveying in the field
- 2.3 Inputting digital data in order

2.1 Collecting materials & information

- 1) Collecting the SPFA's references in RSS
- 2) Interviewing Ms. Ranwa Khatib (Pre-member of RSS)
- 3) Inquiring of As-Salt City Development Project

RSS: Royal Scientific Society



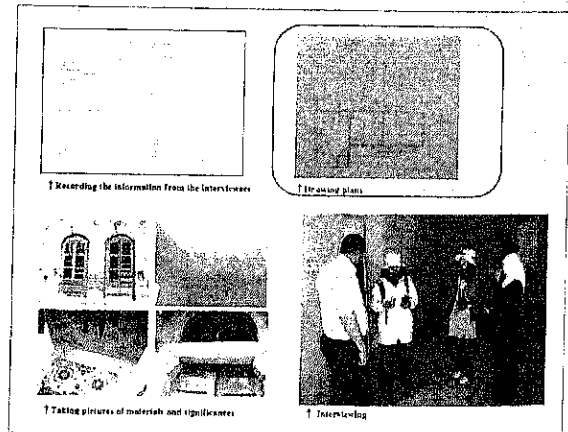
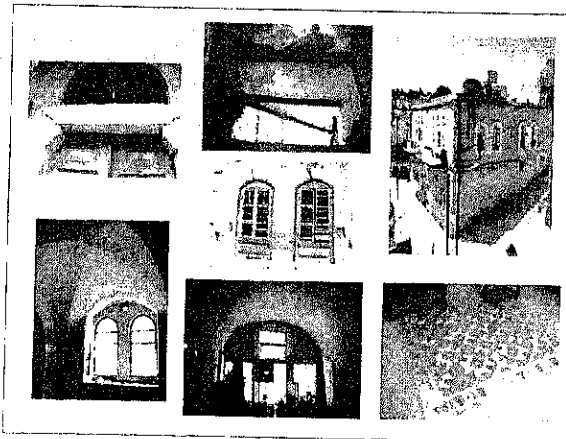
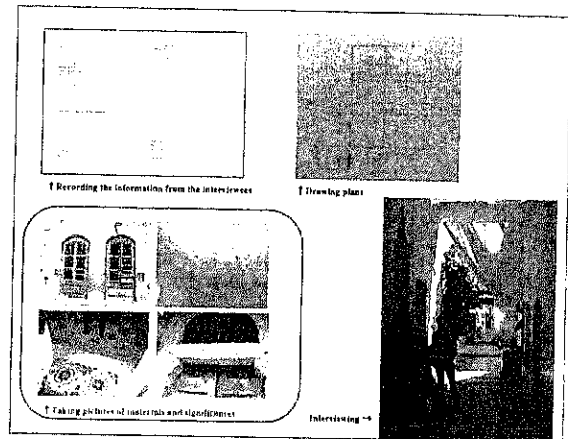
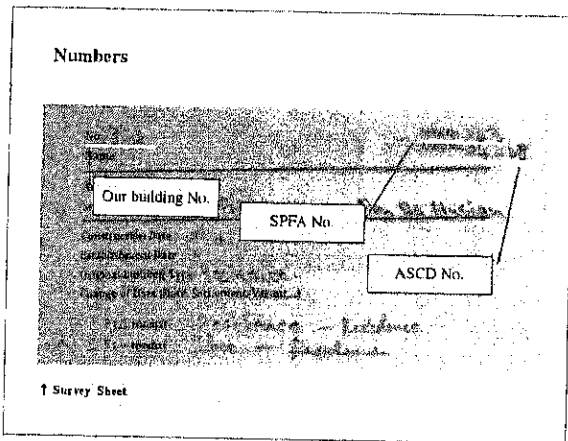
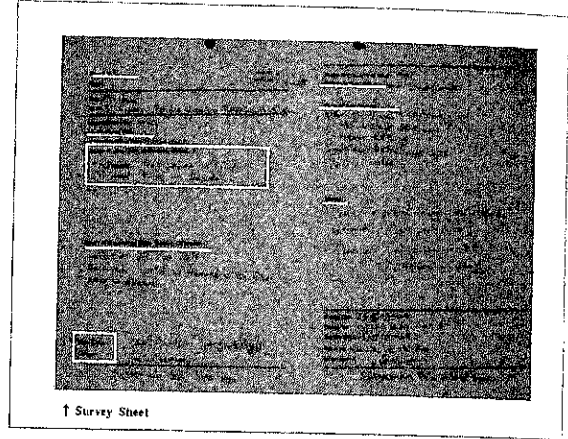
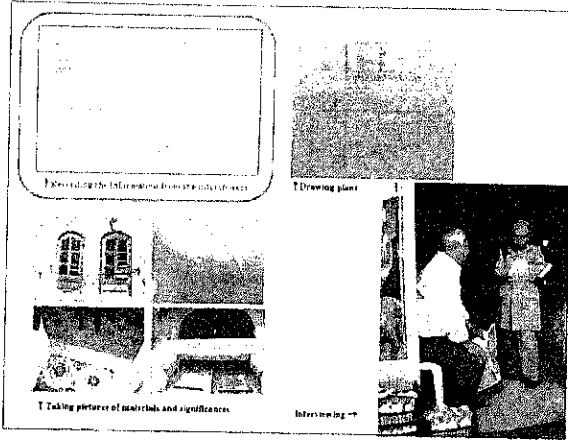
2. Method

- 2.1 Collecting materials & information
- 2.2 Surveying in the field
- 2.3 Inputting digital data in order

2.2 Surveying in the field

Based on the SPFA 20 years ago...

- 1) **Detail survey** : Interviewing, Taking pictures, Drawing plans
- 2) **Simple survey** : Observing, Taking pictures



2. Method

- 2.1 Collecting materials & information
- 2.2 Surveying in the field
- 2.3 Inputting digital data in order

2.3 Inputting digital data in order

- 1) Inputting survey sheets & pictures onto digital data
- 2) Making information sheets for each building (InDesign)
- 3) Mapping data on the latest map (ASCD map)

2. Method

2.1 Collecting materials & information

- 1) Collecting the SPFA's references in Royal Scientific Society
- 2) Interviewing Ms. Rawwa Khatib (Pre-member of RSS)
- 3) Inquiring of As-salt City Development Project

2.2 Surveying in the field

- 1) Detail survey: Interviewing, Taking pictures, Drawing plans
- 2) Simple survey: Observing, Taking pictures

2.3 Inputting digital data in order

- 1) Inputting survey notes & pictures onto digital data
- 2) Making survey sheets for each building
- 3) Mapping data on the latest map (ASCD map)

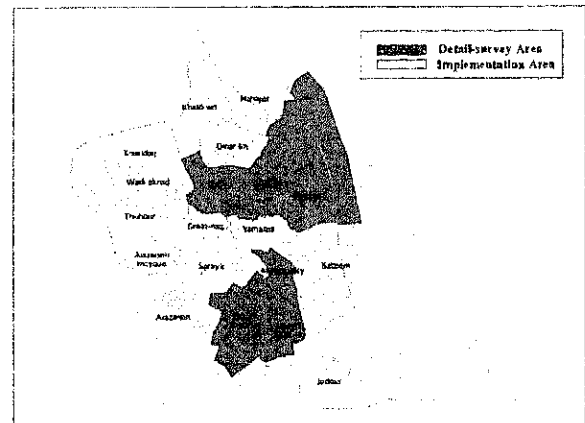
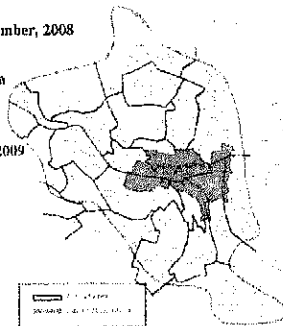
3. Process

- The 1st survey: August to September, 2008
(For 2 months)

Implementation Area

- The 2nd survey: April to July, 2009
(For 4 months)

Old Salt Area



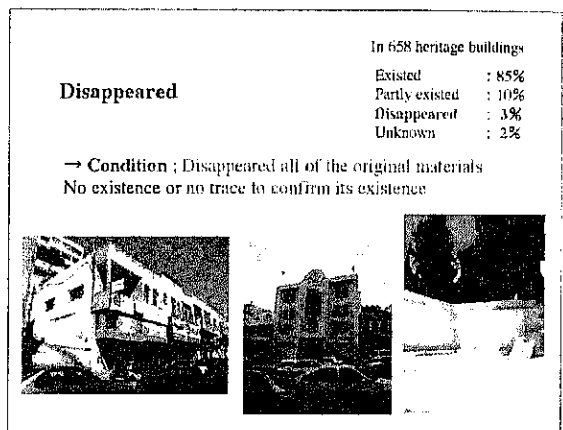
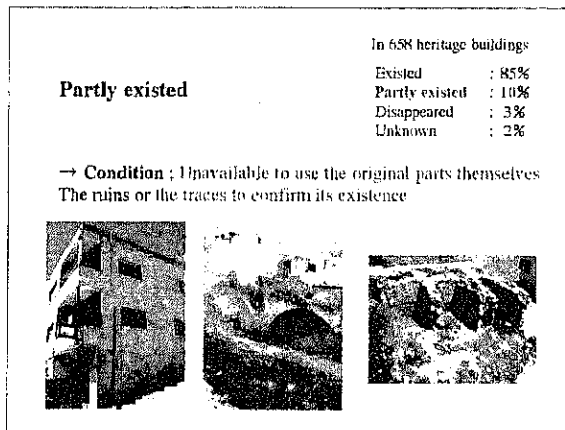
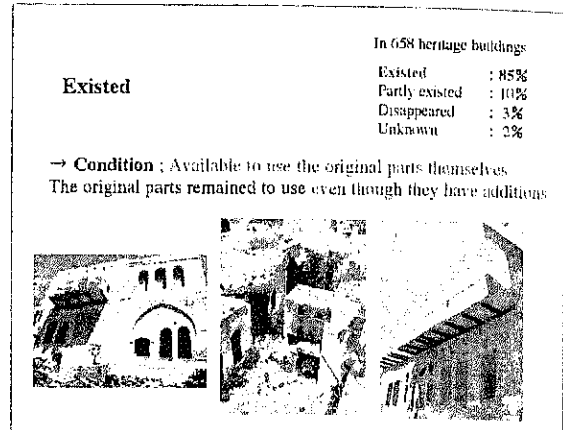
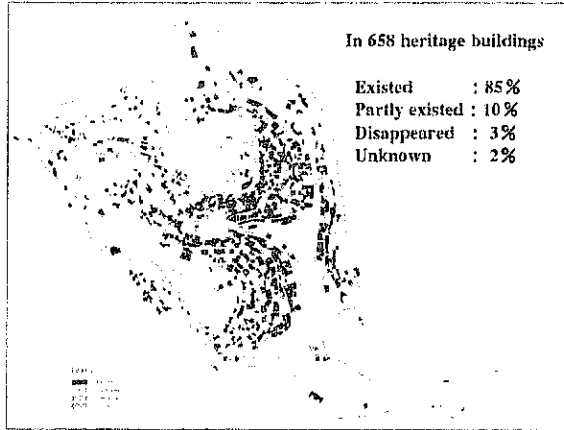
4. Results

4.1 Condition of the 658 heritage buildings on the SPFA in 1990 (Existed / Partly existed / Disappeared)

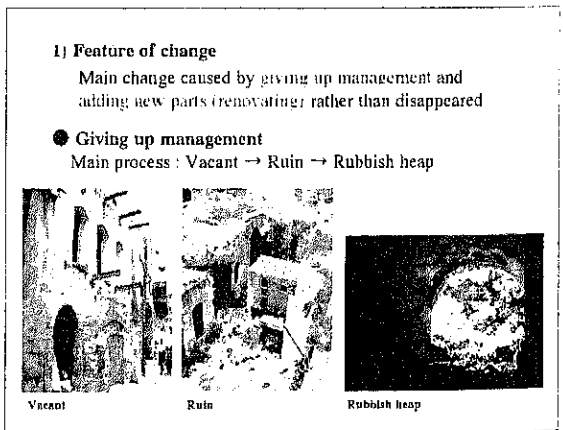
4.2 Feature of the current situation in the detail-survey

4.3 Discovery of the unrecorded heritage buildings

4.1 Condition of the 658 heritage buildings on the SPFA in 1990 (Existed / Partly existed / Disappeared)

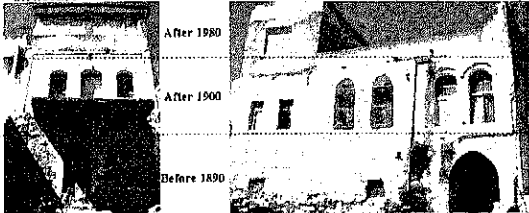


4.2 Feature of the current situation in the detail-survey



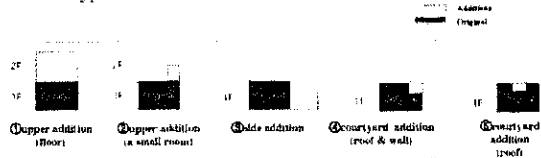
1) Feature of change
 The main change caused by giving up management and adding new parts (renovating) rather than disappeared

● **Addition**
 New parts on the side or on the top, using the original structure

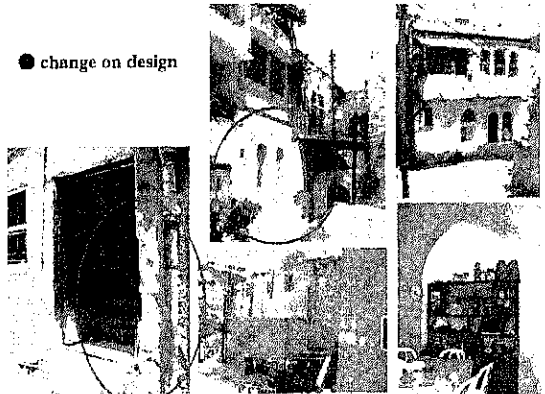
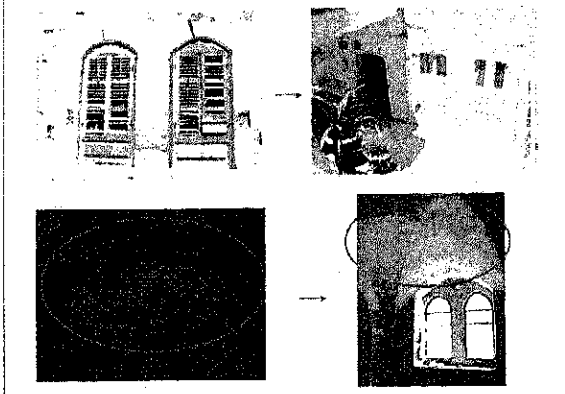


1) Feature of change
 The main change caused by giving up management and adding new parts (renovating) rather than disappeared

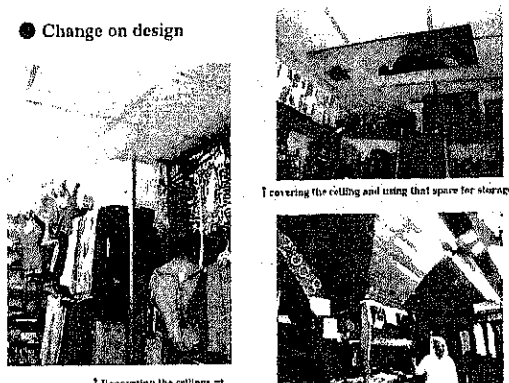
● **Types of addition :**



● **change on design**

● **Change on design**



Renovating the ceilings →

→ covering the ceiling and using that space for storage

2) Feature of using

■ **Vacant** → The building exists but it is vacant or partly vacant

Using : 67%
 Partly vacant : 20%
 Vacant : 13%

■ **Used by the owner** → The owner doesn't use the building (Most of them live in Amman)

Using : 51%
 Not using : 46%
 Unknown : 3%


2) Feature of using

- Used by the owner
- Rented by the owner's relative

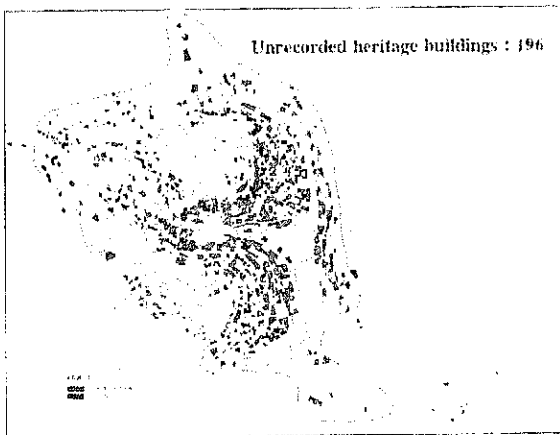
↑ Additional parts

↓ Traditional parts

- Rented by foreign laborer
- Storage
- Vacant



4.3 Discovery of unrecorded heritage buildings

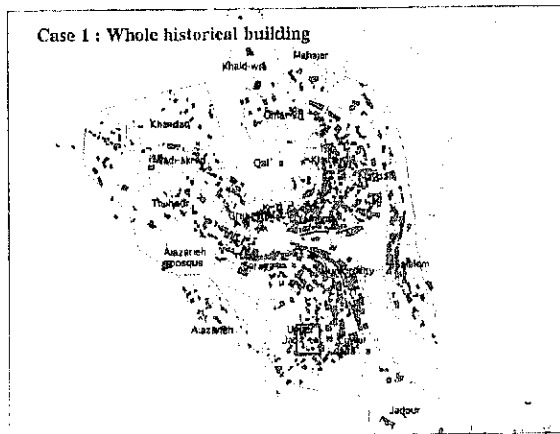


SPFA(1990) (According to Ms. Ranwa Khatib & references of RSS)

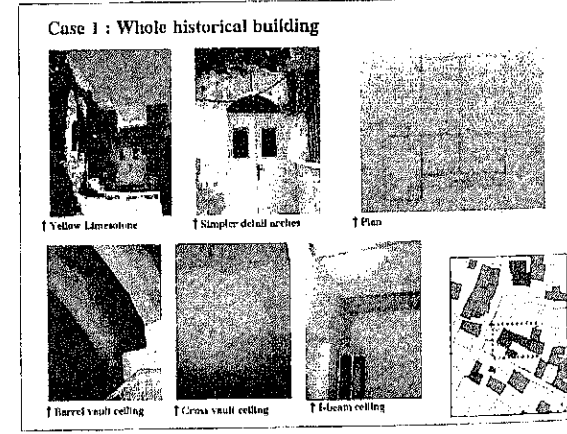
- **Method of survey**
 - Evaluated by observing the exterior and analyzed old pictures
- **Criteria of heritage buildings**
 - Confirmed historical points of significance and materials on buildings before 1950
 - Not including the ruins

Our survey(2009)

- **Method of survey**
 - Interviewing the local people, taking pictures and drawing plans
- **Criteria of heritage buildings**
 - Confirmed historical point of significances and materials on buildings
 - Including the ruins

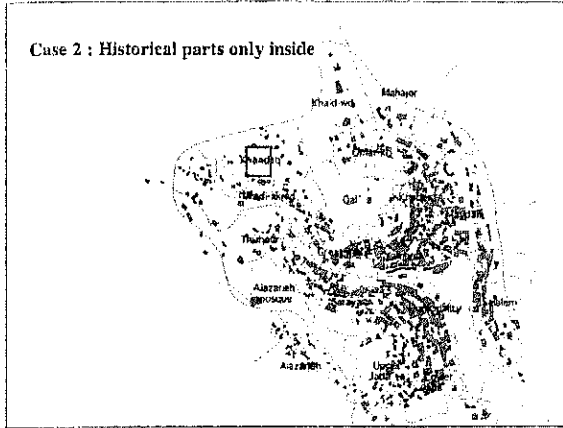


Case 1 : Whole historical building

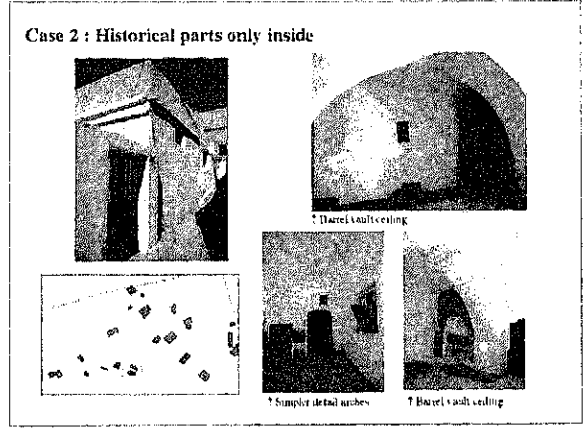


- ↑ Yellow Limestone
- ↑ Simpler detail arches
- ↑ Plan
- ↑ Barred vault ceiling
- ↑ Gross vault ceiling
- ↑ Ebeah ceiling

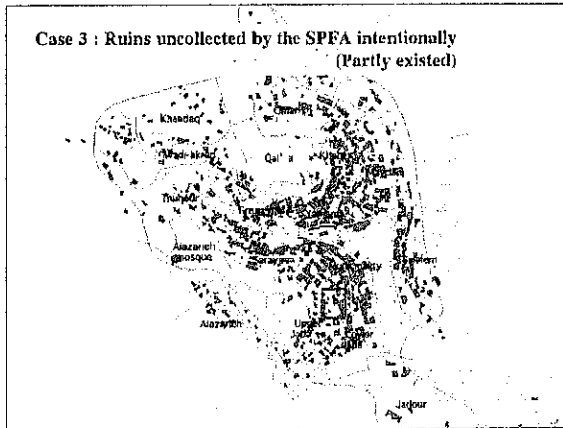
Case 2 : Historical parts only inside



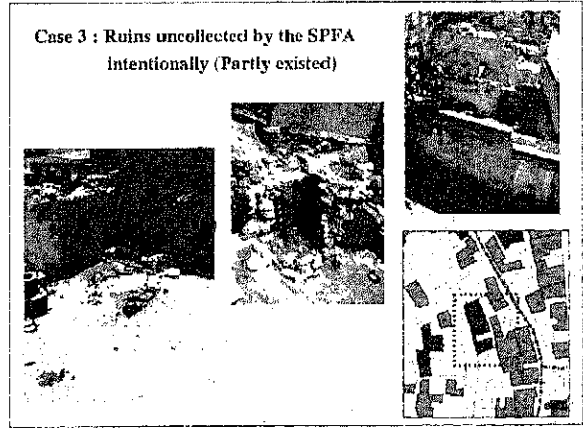
Case 2 : Historical parts only inside



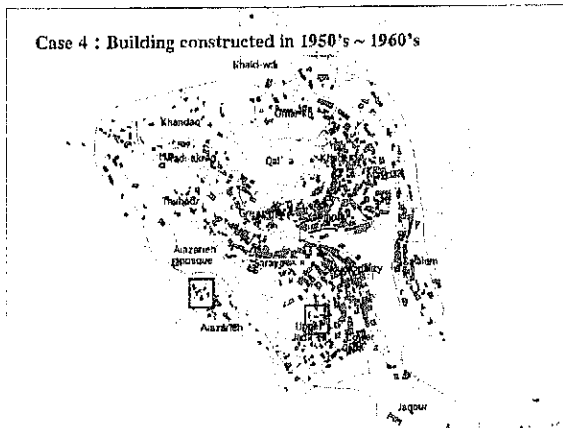
Case 3 : Ruins uncollected by the SPFA intentionally (Partly existed)



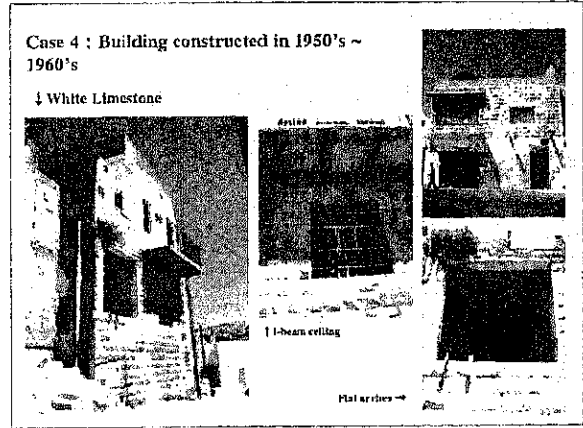
Case 3 : Ruins uncollected by the SPFA intentionally (Partly existed)



Case 4 : Building constructed in 1950's ~ 1960's



Case 4 : Building constructed in 1950's ~ 1960's



5. Conclusion & next issue

- 4.1 Condition of the 658 heritage buildings on SPFA in 1990
(Existed / Partly existed / Disappeared)
- 4.2 Feature of the current situation in the detail-survey
- 4.3 Discovery of the unrecorded heritage buildings

State of progress

Detail Surveyed, 528
Simple Surveyed, 326 (Total 854)

→ Necessity of completing all in next term as soon as possible !

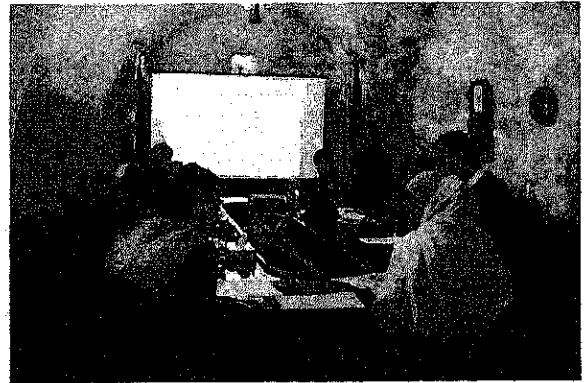
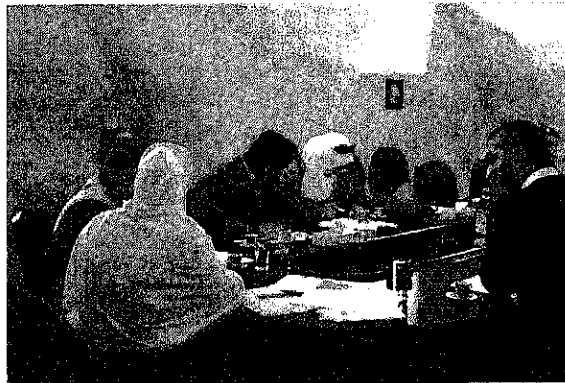


Date: Feb. 11th 2010


Place: As-Salt City Development Projects Unit

Participant: MoTA member, Eng. Lina Abu Salim (ASCD), Ola Klob (DoA),
Mohammed Hawamdeh (ASCD), Kayo Murakami (JOCV),
Akiko Ogino (JOCV), Aiko Fukui (JOCV), Kaoru Amimoto (JOCV)

Purpose: The explanation of our survey as a matter related with CCSR to MoTA

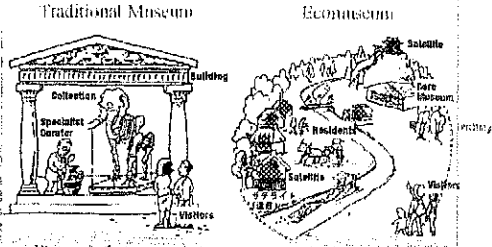


Report of the basic survey and the method on the cultural resources
 - For carrying out Ecomuseum and developing the community in Salt -

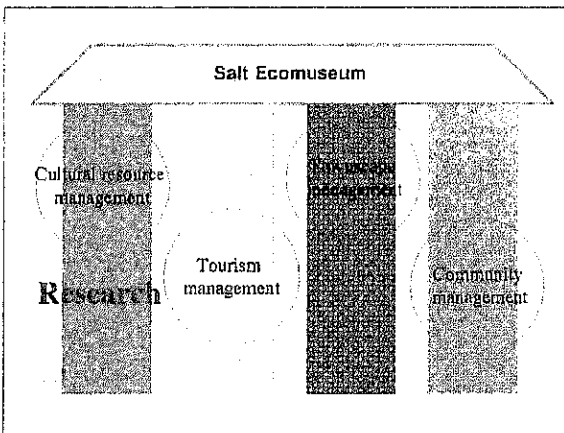


Feb. 11, 2010
 Japan Overseas Cooperation Volunteers,
 Akiko OKINO / Kayo MURAKAMI / Aiko FUKUI / Kaoru AMINAH HJD
 Counterparts,
 Ota KLOEH / Mohammed HAWAMDEH

What is Ecomuseum?
 Traditional museum and Ecomuseum



Visitors see the treasure in the MUSEUM BUILDING. Visitors see the treasure at the ORIGINAL PLACE.



0. Mission

- Conduction of the basic survey on the cultural resources
- Introduction of its method to carry out the Salt Ecomuseum and develop the Salt community

1. Survey

- Grasping the current situation of the 659 heritage buildings surveyed for "Salt: A Plan for Action" (Below, SPFA) in 1990

1990 → 2009

After 20 years

SPFA(1990) [According to Ms. Ramwa Khatib & references of RSS...]

- **Method of survey**
 - Evaluated by observing the exterior and analyzed old pictures
- **Criteria of heritage buildings**
 - Confirmed historical points of significance and materials on buildings (4 in 1987)
 - Not including the ruins

Our survey(2009)

- **Method of survey**
 - Interviewing the local people, taking pictures and drawing plans
- **Criteria of heritage buildings**
 - Confirmed historical point of significances and materials on buildings
 - Including the ruins

2. Method

2.1 Collecting materials & information

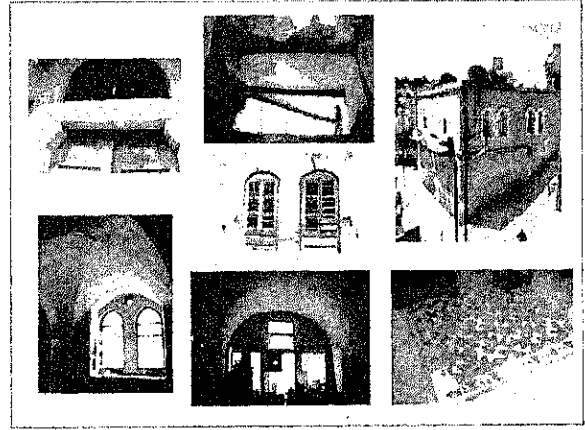
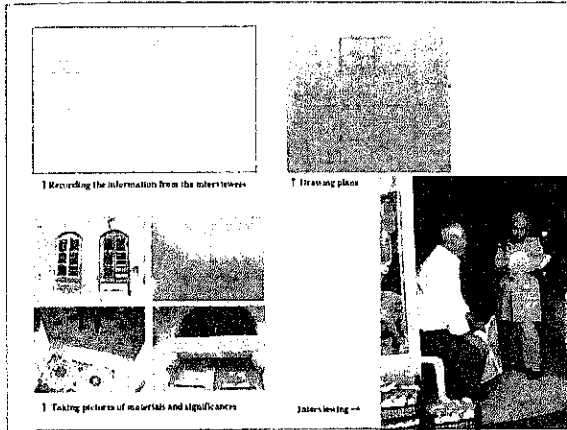
- 1) Collecting the SPFA's references in Royal Scientific Society
- 2) Interviewing Ms. Ramwa Khatib(Pre-member of RSS)
- 3) Inquiring of As-salt City Development Project

2.2 Surveying in the field

Detail survey: Interviewing, Taking pictures, Drawing plans

2.3 Inputting digital data in order

- 1) Inputting survey notes & pictures onto digital data
- 2) Making survey sheets for each building
- 3) Mapping data on the latest map (ASCD map)



Survey Sheet

Name: _____

Address: _____

City: _____

State: _____

Zip: _____

Phone: _____

Survey Date: _____

Surveyor: _____

SPFA No. _____

ASCD No. _____

Area of Building No. _____

Number of Stories _____

Number of Units _____

Number of Units Occupied _____

Number of Units Vacant _____

Number of Units Under Construction _____

Number of Units Being Demolished _____

Number of Units Being Relocated _____

Number of Units Being Reconstructed _____

Number of Units Being Restored _____

Number of Units Being Repaired _____

Number of Units Being Renovated _____

Number of Units Being Modernized _____

Number of Units Being Converted _____

Number of Units Being Adapted _____

Number of Units Being Reused _____

Number of Units Being Demolished _____

Number of Units Being Relocated _____

Number of Units Being Reconstructed _____

Number of Units Being Restored _____

Number of Units Being Repaired _____

Number of Units Being Renovated _____

Number of Units Being Modernized _____

Number of Units Being Converted _____

Number of Units Being Adapted _____

Number of Units Being Reused _____

Numbers

SPFA No. _____

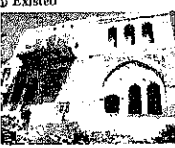
ASCD No. _____

Area of Building No. _____


Survey Sheet

3. Condition of the 659 heritage buildings on the SPFA in 1990


⊙ Existed



⊙ Disappeared

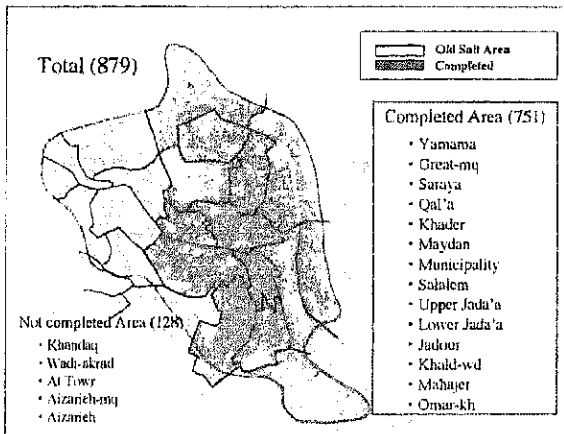
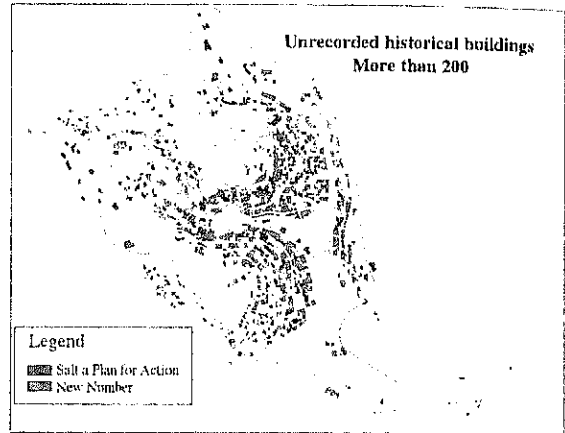
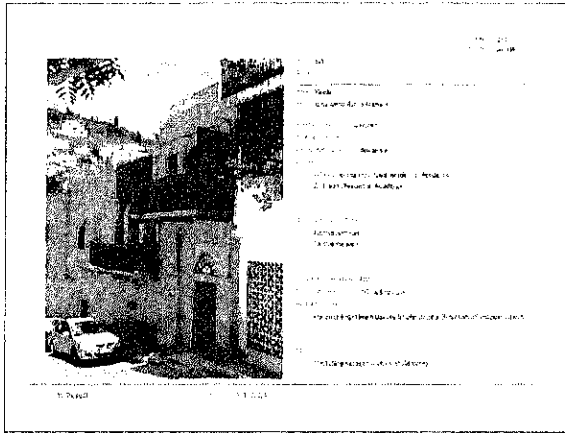


⊙ Partly existed



⊙ Unconfirmed





State of progress

Completed buildings, 751
Left, 128 + α (Total 879 + α)

Thank you for your attention !

Date: Feb. 14th 2010

Place: As-Salt City Development Projects Unit

Participant: Eng. Ranwa Yahya Khatib, Ola Klob (DoA), Fadia Shaheen (MoTA),
Botheneh Al-Rawashdeh (MoTA), Kayo Murakami (JOCV),
Akiko Ogino (JOCV), Aiko Fukui (JOCV), Kaoru Amimoto (JOCV)

Purpose: The discussion on our survey.



Questionnaire

Dear Ms.Ranwa,

It would be warmly appreciated that you could have a meeting with us!

These are the contents of today's questions.

☆ **Survey sheets**

To confirm the name on point of significance and so on

☆ **References for Madafa, Bait Falahi**

If possible, in English (Is SPFA the best book to learn it?)

☆ **Unrecorded historical buildings**

There are 4 cases as unrecorded (Slides)

☆ **Architectural question**

1. About the structure of SPFA No.245 (Papers)
2. About the background on the materials , I-beam, reinforced concrete, white limestone, yellow limestone
3. About the mud buildings

With best wishes,

Japanese Overseas Cooperation Volunteers

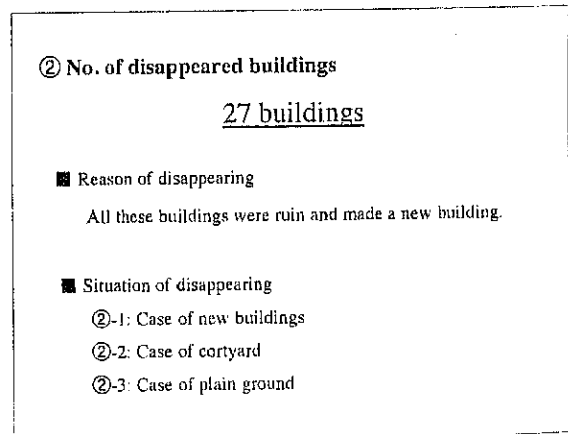
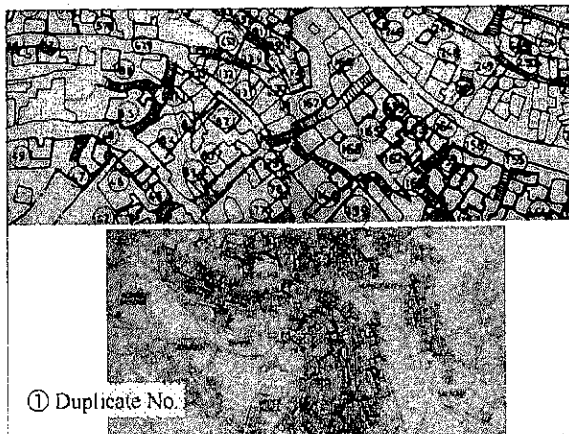
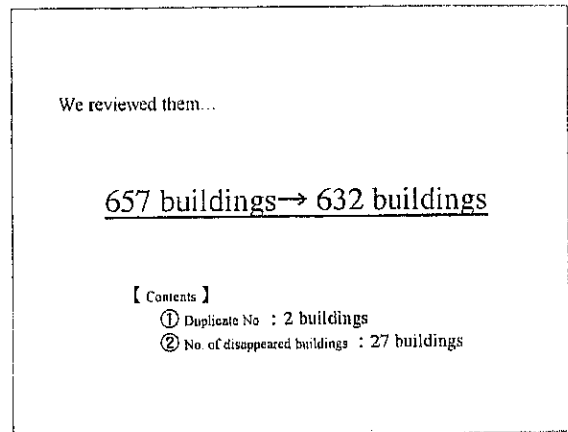
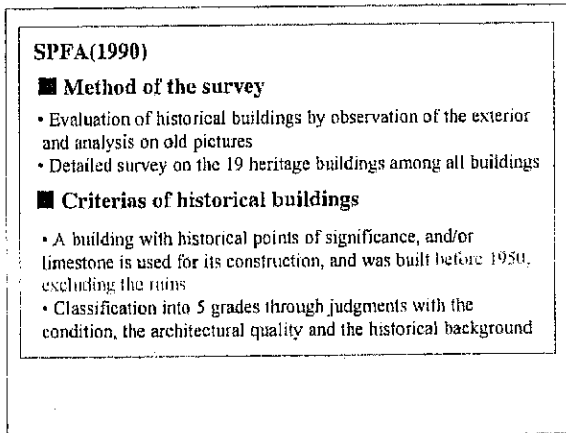
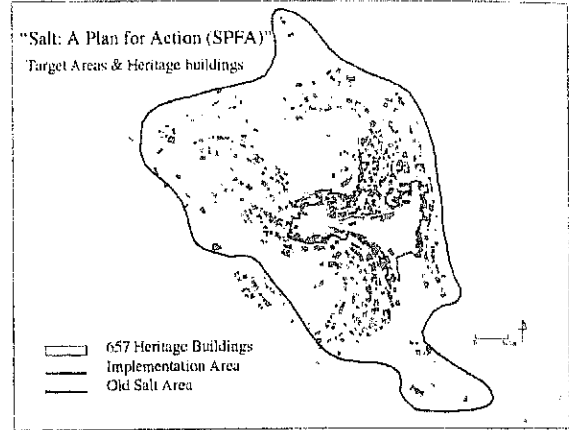
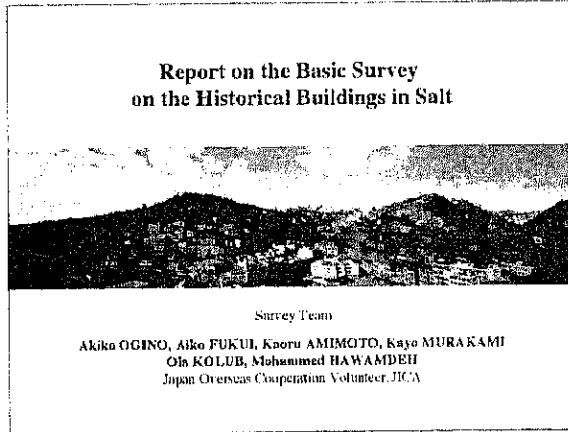
Date: May. 31th 2010

Place: PMU

Participant: MoTA, Assem (MoTA CCSR Team), Rana (MoTA CCSR Team),
Lotus Abu Karaki (PMU), Eng. Lina Abu Salim (ASCD),
Ola Klob (DoA), Mohammed Hawamdeh (ASCD), Adel Zureikat (JICA),
Prof. Noriaki Nishiyama (JICA, Hokkaido University),
Kiho Yaoita (Hokkaido University),
Chinami Eguchi (JICA), Mika Suzuki (JICA), Kayo Murakami (JOCV),
Akiko Ogino (JOCV), Kaoru Amimoto (JOCV)

Purpose: The explanation of our survey and the saggetion to MoTA and CCSR.






②-1: Case of new buildings
 "Replaced with the concrete"

No.121 in Municipality

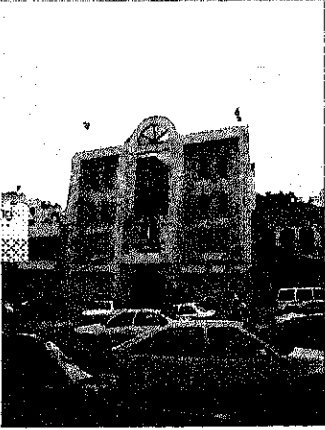
There was a cross vault ceiling and courtyard.
 The owner destroyed the historical building and rebuilt new one in 1990's.



②-1: Case of new buildings
 "The old building is an old building"

No. 498 in Maydan

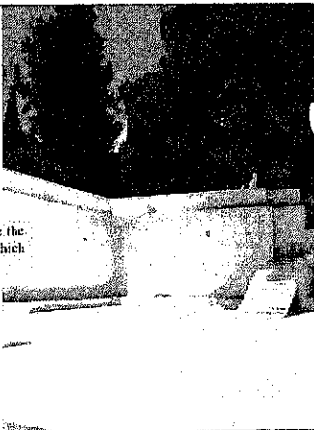
The present building is totally new in 2009.
 But they used the old stone foundation to build foundation for it.



②-2: Case of courtyard

No.44 in Upper Jada'a


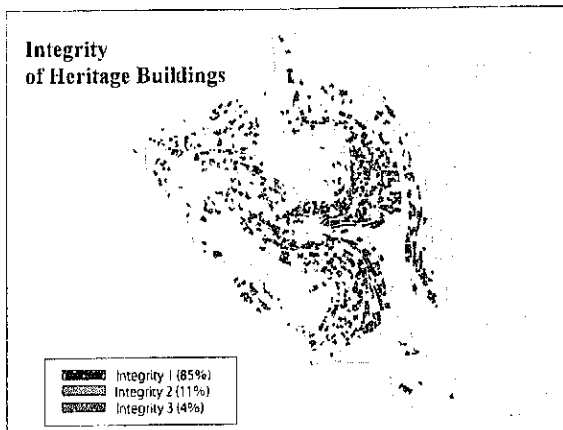
The new courtyard is in the place where the owner destroyed a historical building which was a peasant house.



②-3: Case of plain ground

No.309 in Qala'a


There were 2rooms buildings.
 But it was destroyed in 1995-2000.





Integrity 1

Integrity 1 : 85%
 Integrity 2 : 11%
 Integrity 3 : 4%

→ Buildings categorized in Integrity 1 remain whole original structure even though they have additions






Integrity 2

→ Buildings categorized in Integrity 2 have lost some part of its original structure

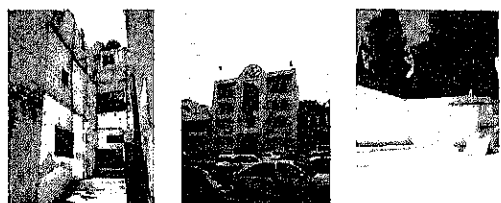
Integrity 1 : 85%
Integrity 2 : 11%
Integrity 3 : 4%



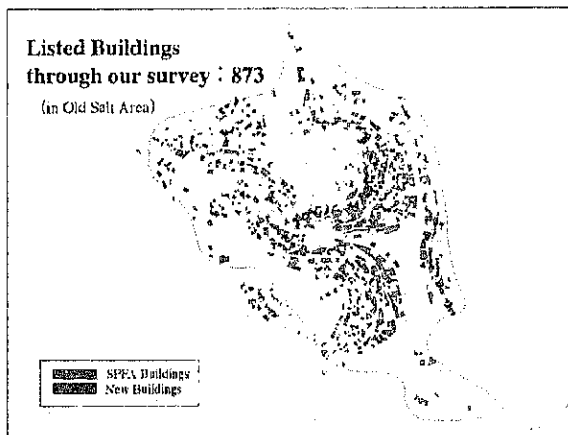
Line of SPFA No.19
Remains
Disappeared portion

Integrity 3

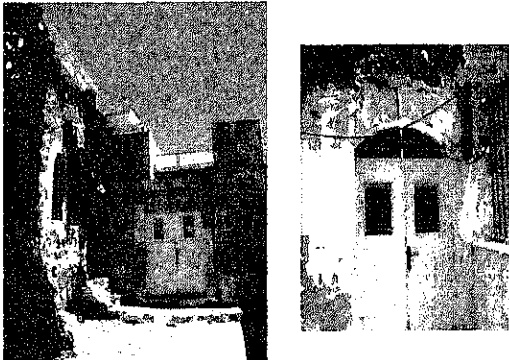
→ Buildings categorized in Integrity 3 have no trace from its original structure at all




Integrity 1 : 85%
Integrity 2 : 11%
Integrity 3 : 4%




All exposed : Yellow Limestone No. 738 Upper Jada'a

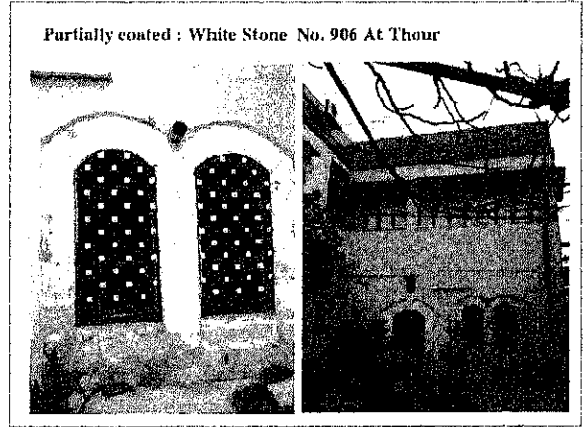
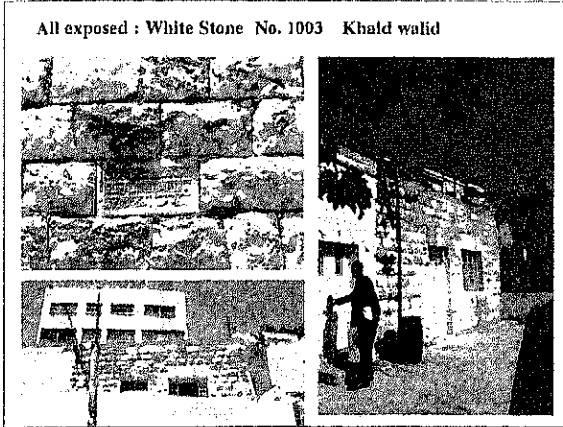


Partially coated : Yellow Limestone No. 855 Khalid walid



All Coated : Yellow Stone No. 693 Municipality -





Salt Historical Townscape
 is mainly composed of two interacting constituents,
 1. **Material:** Yellow Limestone, White Stone
 2. **Point of Significance:** Barrel Vault, Cross Vault and etc.

↓

We conducted this survey in order to take records of every historical building as a element of Salt Historical Townscape

Comparison of the Method of the 2 Surveys

SPFA(1990)

- **Method of the survey**
 In situation of historical buildings by observing the exterior and analyzing old pictures
- **Criteria of historical buildings**
 building with historical points of significance, and/or limestone is used for its construction, and was built before 1950, excluding the ruin

Our survey(2010)

- **Method of the survey**
 Interview with the local people, photographing and drawing plans
- **Criteria of historical buildings**
 A building with historical points of significance, and/or limestone is used for the building material, including the ruin

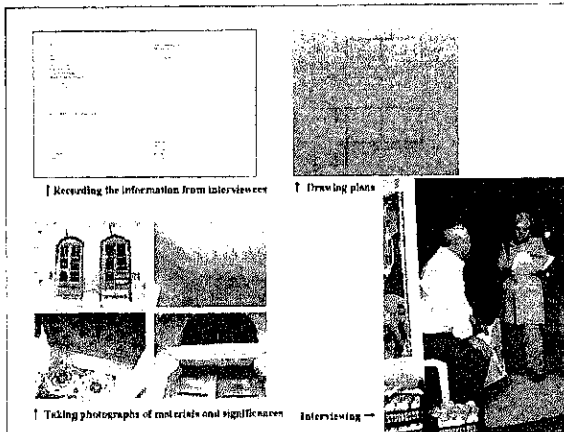
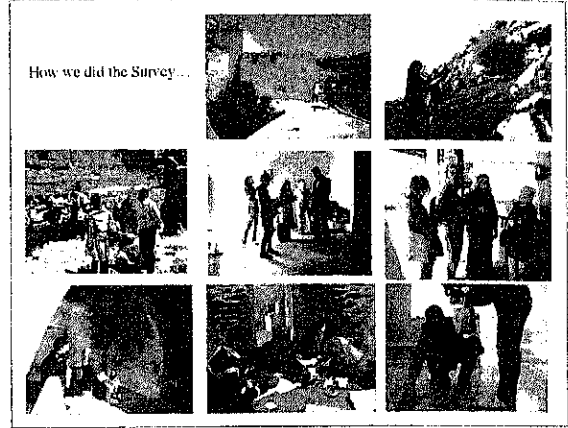
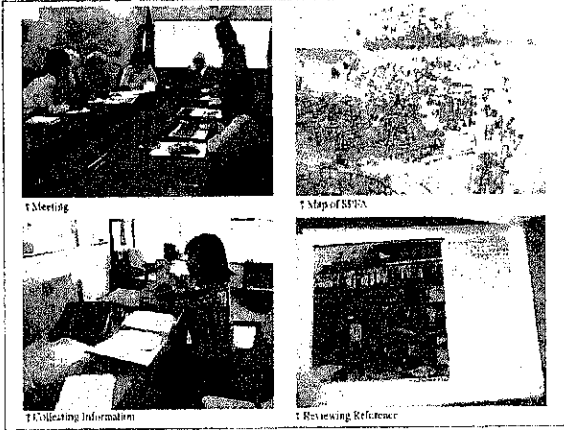
Ruins: 31 Cases

Ruins are elements of Salt Historical Townscape, which can show their bare structure to the tourists. At the same time, some of them can be restored

There are two grades of ruins which has some structures (20), or not (11).

↑ Case of understand a history

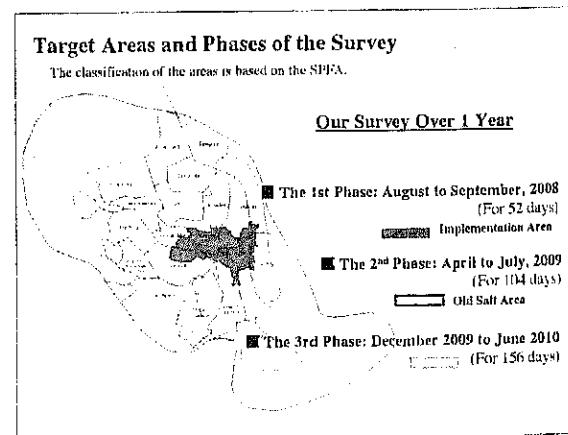
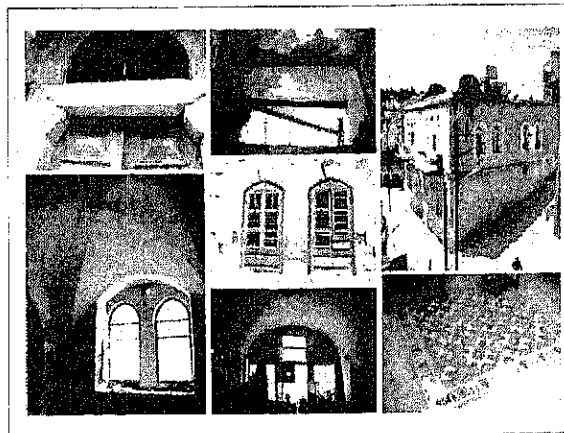
↑ Case of no understand a history

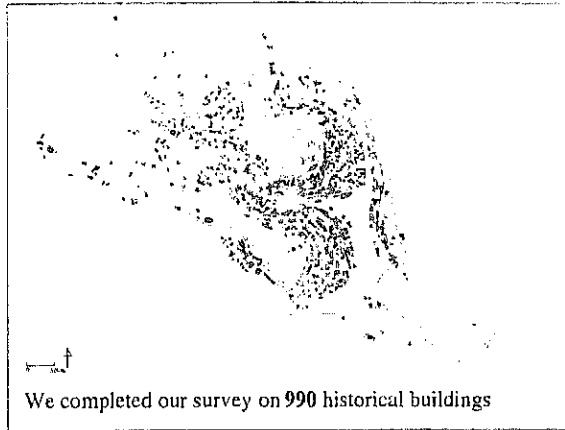


Survey Sheet

Date: _____	Time: _____	Area: _____	Phase: _____
Name: _____	Address: _____	Occupation: _____	Age: _____
Sex: _____	Ethnicity: _____	Education: _____	Religion: _____
Marital Status: _____	Family Size: _____	Income: _____	Assets: _____
Length of Residence: _____	Reason for Migration: _____	Migration Type: _____	Migration Route: _____
Reason for Migration: _____	Reason for Migration: _____	Reason for Migration: _____	Reason for Migration: _____
Reason for Migration: _____	Reason for Migration: _____	Reason for Migration: _____	Reason for Migration: _____
Reason for Migration: _____	Reason for Migration: _____	Reason for Migration: _____	Reason for Migration: _____

Items of the interview are as mentioned above.





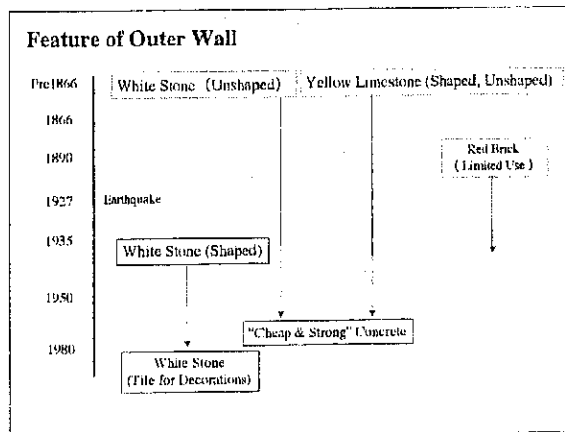
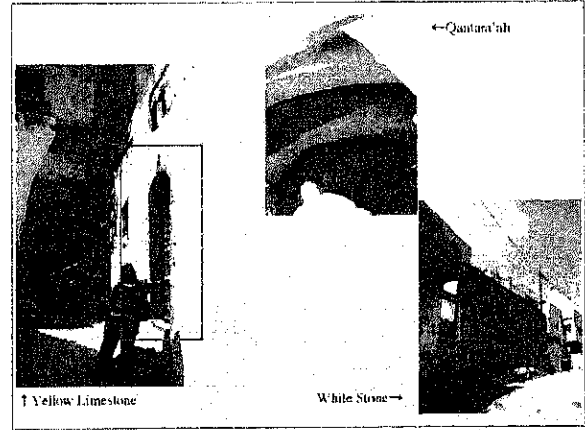
Category	Subcategory	Total Salt Area		Cost of Salt Area		
		(sq. m)	(%)	(\$ million)	(%)	
DFFA (m)	All expanded Yellow Limestone	850	53.2%	6	0.0%	
	Factory expanded Yellow Limestone	50	3.2%	0	0.0%	
	All Colored Yellow Stone	74	4.7%	1	1.3%	
	All expanded White Stone	11	0.7%	0	0.0%	
	Factory expanded White Stone	15	0.9%	0	0.0%	
	All Colored White Stone	15	0.9%	0	0.0%	
	Subtotal	1015	63.4%	7	0.0%	
	New Salt	All expanded Yellow Limestone	12	0.8%	14	3.0%
		Factory expanded Yellow Limestone	100	6.3%	6	1.3%
		All Colored Yellow Stone	44	2.8%	14	3.0%
All expanded White Stone		18	1.1%	0	0.0%	
Factory expanded White Stone		1	0.1%	0	0.0%	
All Colored White Stone		2	0.1%	13	2.8%	
Subtotal		187	11.7%	43	9.1%	
Total		1202	75.1%	50	10.4%	

All numbers in a field are in million dollars.

Features of Expanded Target Areas

We found the historical buildings which have the unique structure made of Unshaped Stones with Qantara'ah and openings made of Yellow Limestone.

These were constructed before Nabulsi immigrated and their style were different from buildings made by Nabulsi in the city center



Options for Salt Townscape formation


- 1. Feature the value of survived property**
 - ① Only Yellow Limestone from Saji's Yellow lime stone will be used.
 - ② Other materials such as White stone will be used for the repair and new construction.
- 2. Restoration of the Historical Townscape**

The reconstruction with Yellow Limestone will be preceded and followed by architectural study(evidences of original use).
- 3. Turn Whole Salt Townscape into Yellow**

Characterize Salt as Yellow Stone Town.

**Comments for townscape conservation of Salt
A Theme Park or A World Heritage?**


Noriaki Nishiyama
Professor, Hokkaido University



(1) Evaluation of heritage buildings and a townscape

a) Salt stones are irreplaceable cultural resource (which will never be able to be obtained)


→ A Salt stone that consists a historic building and another Salt stone which consists a ruin have equal values. (Alternative yellow limestones are only new materials.)



(1) Evaluation of heritage buildings and a townscape

b) Every traditional building which tells stories of Salt's history has a value as a cultural heritage.


→ All traditional buildings consist a property and are the evidences of its integrity of the stories of Salt city as a cultural heritage.




(1) Evaluation of heritage buildings and a townscape

b) Every traditional building which tells stories of Salt's history has a value as a cultural heritage.


→ Peculiar histories, sizes, ages, conditions and integrity (extent of originality), designs, locations (to be a landmark) of each building are elements to add utility and economic value and are not to discuss superiority and inferiority.



(1) Evaluation of heritage buildings and a townscape

c) To evaluate Salt's profound extent as a historic town

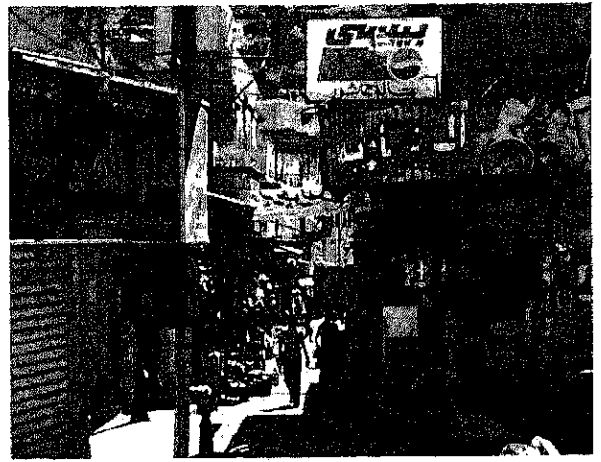
→ Evaluation is needed on different designs and layouts in each different area formed through the history of the townscape development.



1) Evaluation of heritage buildings and a townscape

1) The essential value of Salt's historic townscape is the diversity of building design


The characteristics common to all is about materials and construction technology used in Jordan and Arabic countries; however, Salt stone is Salt's peculiar material and all buildings are unique.



2) Repair and Restoration of Heritage Buildings

a) Repair based on scientific trace studies (architectural evidence)


- To prohibit use of Salt stone in a site without a evidence through the trace study, a new construction and parts of buildings.



(2) Repair and Restoration of Heritage Buildings

a) Repair based on scientific trace studies (architectural evidence)


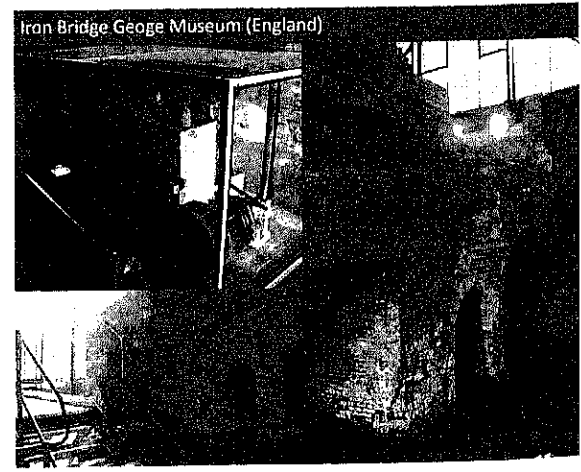
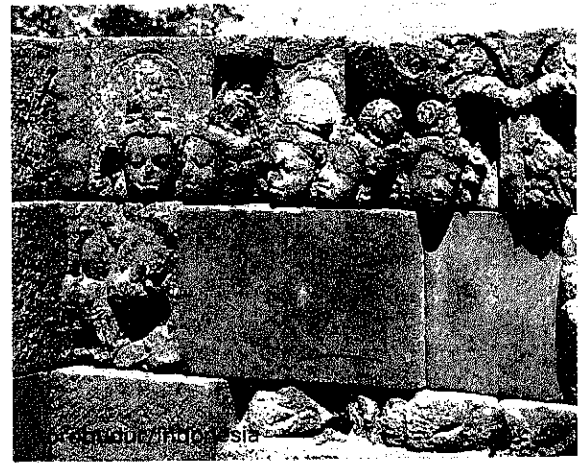
- Thorough preservation (conservation) of traditional materials such as window frames and doors.
- To establish principles and methods to choose colors of materials such as windows and doors.



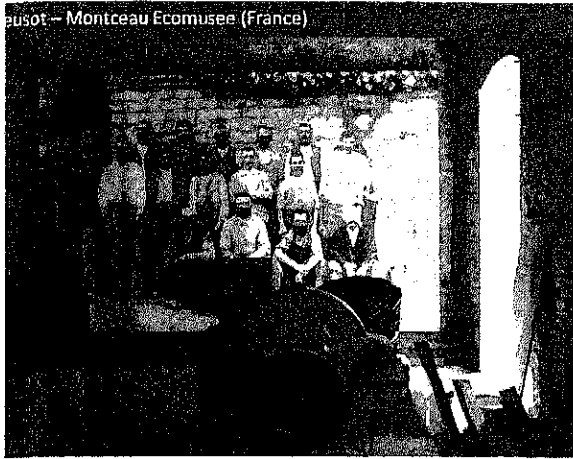
2) Repair and Restoration of Heritage Buildings

b) Introducing repair methods which enable to distinguish originals from newly added parts.
Ex.) Borobudur, Iron Bridge, Creusot - Montceau

- To apply strict guideline on the use of yellow limestone from other producing areas.
- Principles to introduce additional equipments such as handrails for safety reasons.

Creusot – Montceau Ecomusee (France)



Creusot – Montceau Ecomusee (France)



2) Repair and Restoration of Heritage Buildings

b) Restoration of heritage buildings whose value are not visually evident (hidden).

Restoration of the townscape by re-exposing finishing of Salt stones that are constructed by traditional construction technologies.



(2) Repair and Restoration of Heritage Buildings

c) Restoration of heritage buildings whose value are not visually evident (hidden).

To repair, preserve and restore Salt stone ruins of walls and arches with additional new construction materials to make that ruin back to a complete building and expose value and aesthetics of Salt stone.





(3) Harmonization (extension, renovation, new construction) of non heritage buildings

a) To strategically decide structures and materials to induce

→ Whether to allow new constructions (structures, designs or materials) or not, which will not be distinguishable from the heritage buildings. (Buildings using Salt stone or mason construction, arches and vaults which were never used in the building before)

(3) Harmonization (extension, renovation, new construction) of non heritage buildings

a) To strategically decide structures and materials to induce

→ Whether to induce restoration works which can produce a background to feature original heritage buildings. (To control size, forms and layouts and recommend simple openings, modern RC structure, white stone tiles, simple window and door)

(3) Harmonization (extension, renovation, new construction) of non heritage buildings

a) To strategically decide structures and materials to induce

→ To clarify principles and to show directions for private stakeholders to put their efforts.
(ex: floors materials which were used until 1950's)