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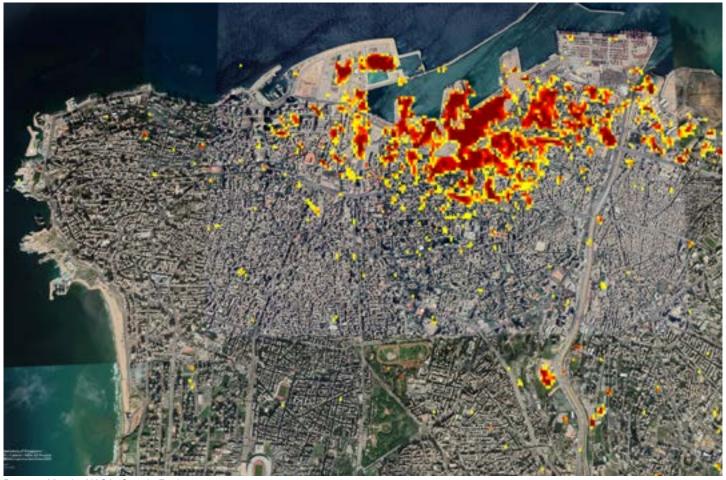
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INTRODUCTION

The devastating explosion on August 4, 2020 caused invaluable damage to Beirut's urban heritage. With the death toll exceeding 200, over 6500 people injured, and more than 60,000 units of offices and households destroyed, the explosion forced the displacement of over 100,000 people. As a result, the economic and cultural damages have been estimated at \$8 billion, for which \$2 billion would be needed for the cost of reconstruction.

Following the August 4 Beirut explosion, our city with over 5,000 years of history was left in a state of utter chaos and destruction and within mere seconds more material damage was created than a decade of civil war had seen. Large areas of Beirut were destroyed. They either became unrecognizable, or were on their way to destruction if immediate intervention did not occur. Approximately 1,000 historical buildings were damaged by the blast. These buildings included houses, apartment buildings, palaces from the 19th-century Ottoman period, and buildings from the modern period of the 1930's and beyond.



Damage Map by NASA, Google Earth

The neighborhoods that were the most affected by the explosion are located towards the southern and eastern ends of the harbor's third basin. The areas hardest hit by the explosion, such as Gemmayzeh, Mar Mikhael and Ashrafieh, also had the highest concentration of historic structures in Beirut. These neighborhoods are composed of cultural, educational, touristic, creative spaces, and small trades that perpetuate the city's valuable and intangible heritage. Moreover, buildings and homes of this area are occupied by inhabitants of different backgrounds and income levels. Throughout the capital's worst episodes in history, these neighborhoods remained inhabited and are living witnesses to Beirut's past and present. Thus, rescuing our endangered heritage is also part of preserving the city's historical and cultural identity.

WHO IS BHI



Due to this urgency, **Beirut Heritage Initiative (BHI)** was launched as **an independent and inclusive collective**, in favor of **restoring the built and cultural heritage of Beirut**. BHI was born out of necessity, to bridge a vital gap of funding and coordination that exists between the owners and residents of heritage structures stricken by the August 4 explosion, and the public departments essential to facilitate legal permits for reconstruction works; namely the *Directorate General of Antiquities* and the *Office of Governor of Beirut*.

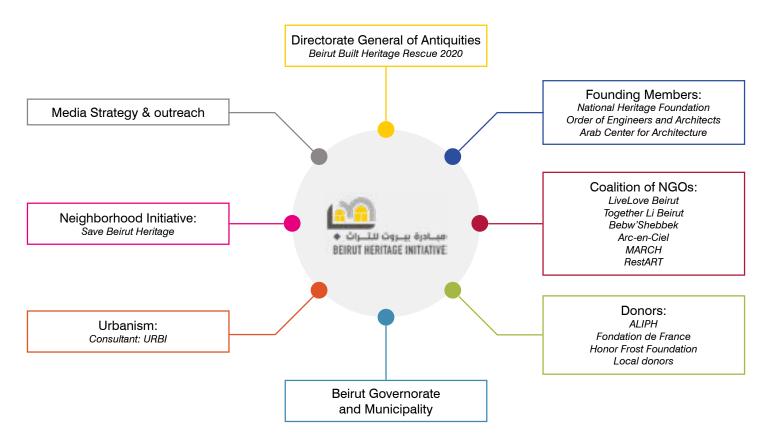
BHI is organized around a team of experts and professionals with complementary skills, such as the Order of Engineers and Architects of Beirut (OEA), the Beirut Built Heritage Rescue 2020 (BBHR20), and NGOs specialized in cultural heritage.

It is based on **continuous communication between all of the involved stakeholders**, such as *The National Heritage Foundation (FNP)*, *Arab Center for Architecture (ACA)*, *UN Blue Shield*, *Save Beirut Heritage (SBH)*, *Live Love Beirut (LLB)*, *Arc-en-Ciel (AEC)*, *Bebw' Shebbek (BWS)*, *Together Li Beirut* and *MARCH*, among many others.

BHI is one of the Civil Society Organizations member in the 3RF Consultative Group.

An initial assessment has been made by architects specialized in heritage from *BBHR20* in the affected areas. Up until now, the assessment shows that:

- 100 buildings are at risk of collapsing
- 200 buildings are heavily damaged (roof structure and façade)
- 100 buildings are moderately damaged (slightly impacted façade)
- 270 buildings are lightly damaged (windows, doors, plaster, finishes)

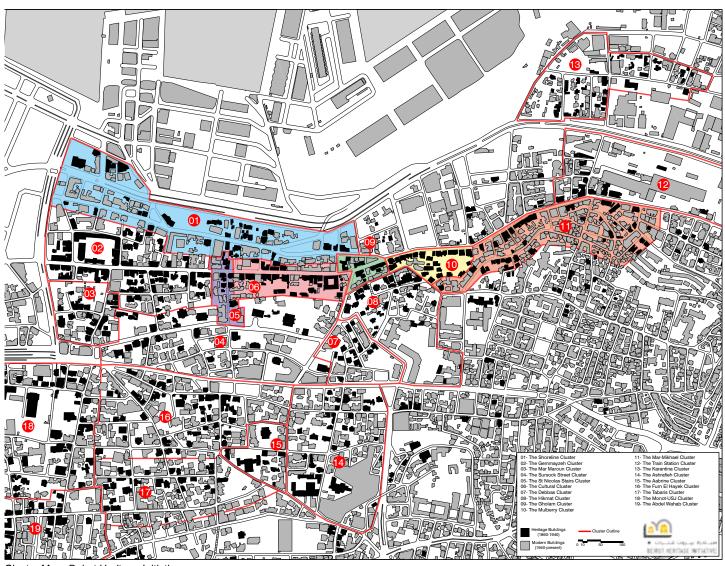


MISSION & OBJECTIVES

Today, the 'Beiruti Houses', those that survived the development pressures and perils of the past, stand as monuments for Beirut's phenomenal rise and a reflection of the multilayered history of the 19th and 20th century. Instantly altering the face of Beirut, the scale of destruction and the extent of damage from the explosion can be witnessed on numerous heritage buildings that are grouped into heritage clusters.

These heritage clusters offer an intangible value that is handed down through generations. Carrying the memories of generations and a unique historical identity, these buildings represent Beirut's rich history and culture. They offer the city and its inhabitants a sense of continuity in this fast changing world. Post-blast, the ongoing fight to protect and preserve these clusters gained momentum and amongst the rubble emerged a strengthened collective appreciation and awareness within the community.

BHI's mission to protect heritage focuses on more than buildings and includes the socio-economic fabric of Beirut. From the outset, BHI set its ultimate goal to be the equitable and sustainable revitalization of devastated neighbourhoods, ones that have the highest concentration of heritage clusters. These belong to different eras that include Ottoman stone and red-tile houses, French Mandate walkups, and post-Independence early Modernist apartment buildings.



Cluster Map, Beirut Heritage Initiative







Raymond (Rony) Araygi

is a lawyer and a former Minister of Culture (2014-2016). Araygi graduated from Saint Joseph University and has been a member of the Beirut Bar since 1989. He is the founder and Managing Partner of Araygi & Maalouly Law Firm.

In parallel, he served several years as a Senior advisor to the Minister of Public Health (1996-1998 and 2000- 2004), the Minister of Agriculture (1998-2000) and the Minister of Interior and Municipalities (2004-2005).



Youmna Ziadé Karam

is an entrepreneur, and has been pursuing a career in the banking sector (SGBL and BLC bank) particularly in Corporate Banking, project management, reengineering and Corporate Social Responsibility since 2003.

She is the co-founder of *Kitchenlab* (2013), and serves on the Board of *TAKREEM USA Foundation*.

She represents the *National Heritage* Foundation within BHI.



Fadlallah Dagher

is an architect, living and working in Beirut. Having graduated from ALBA in 1985, he is a founding member of *Dagher Hanna & Partners architects*.

He has been working on heritage preservation for 30 years, as an *advisor to the Ministry of Culture* (1994-2016), and was part of the team that drafted the new law for the protection of heritage.

He represents the *Order of Engineers* and *Architects of Beirut* within *BHI*.



Joy Kanaan

is an architect living and working in Beirut, as well as a lecturer at the Department of Architecture and Graphic Design at the *American University of Beirut*.

She is a board member of the *Arab Center for Architecture (ACA)*, and is an associate member of the *American Institute of Architects*, in the USA, and a professional member of the *Order of Engineers and Architects* in Lebanon.

She represents the ACA within BHI.



Abdul-Halim Jabr

is an architect/urban design consultant, who works actively on issues of urban design and governance in Greater Beirut, specifically in relation to the environment, old neighborhoods, and public places. He served as an advisor to the Ministry of Culture (2014-2016) and was part of the team that drafted the new law for the protection of heritage.

In May 2016, he was one of 24 candidates running for municipal council elections on the "Beirut Madinati" list.



Lynn Tehini Kassatly

is a journalist and consultant for Cultural affairs. Since 2019, Tehini was part of the *Presidency of Council of Minister team as a Cultural Advisor*. She regularly works as a consultant/expert in the cultural field for various consultancy firms in the Arab world.

Tehini is an active member of *Lebanon* of *Tomorrow* (board member) and *Cenacle de la Lumière*. She is also a member of the *Baalback International Festival* General Assembly.

TEAM



Houda Kassatly
Ethnologist, photographer, & researcher
Main Coordinator



Yasmine El-Majzoub Architect, Field Operation Manager



Yasmine Dagher Architect, DocuComm Manager



Nadine Salloum Financial Manager



Youssef El-Kassar Civil Engineer, Site Manager



Dia Mrad Architect, Photographer



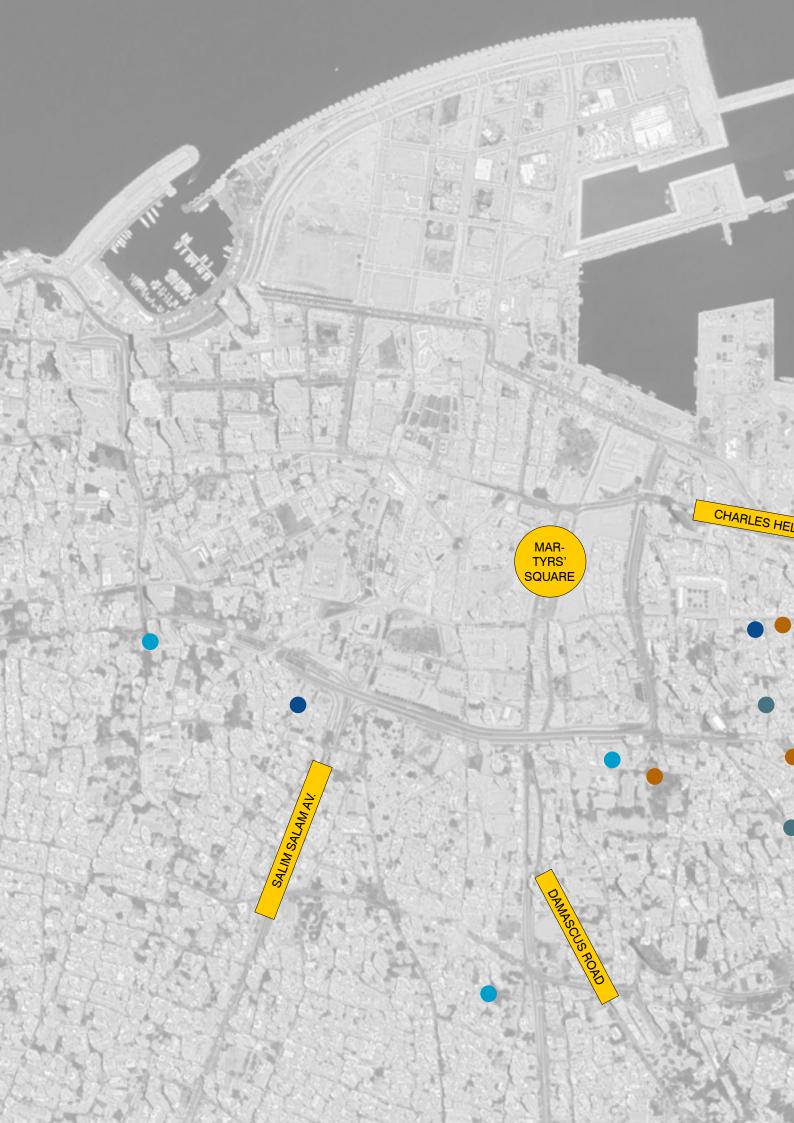
Nadine Harake Architect, Copywriter

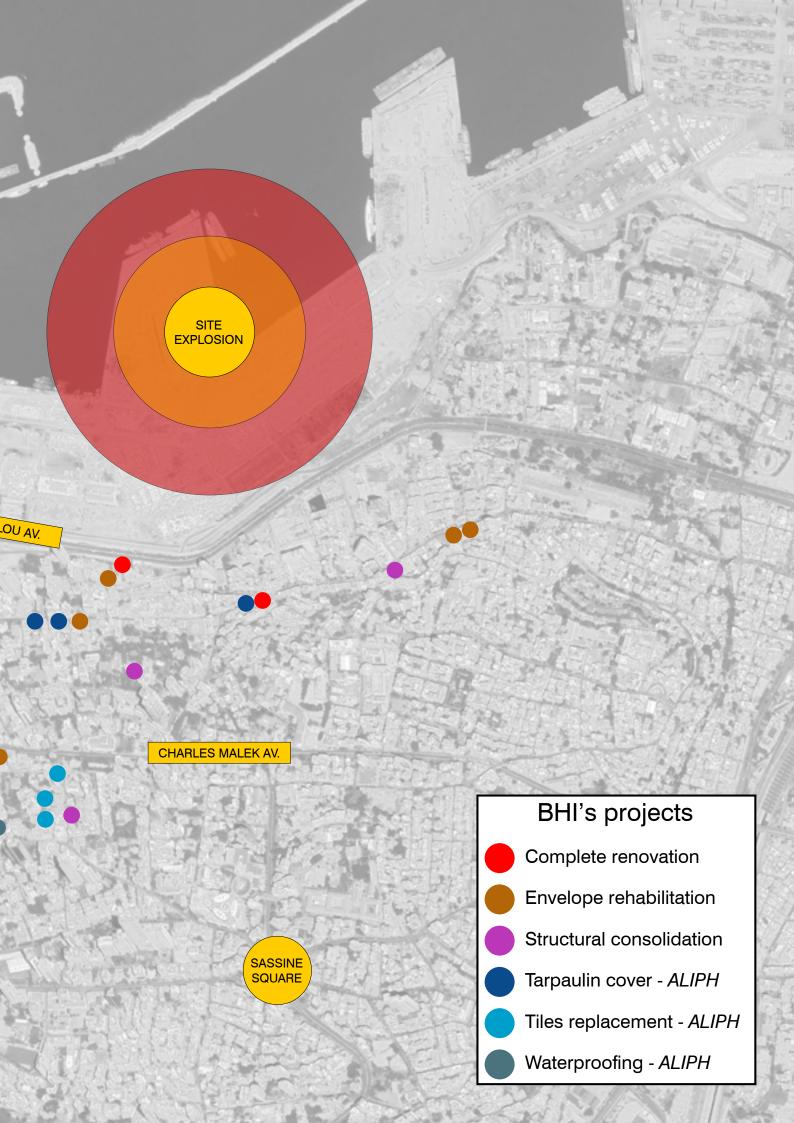


Pamela El-Saliby Architect, Visualizer











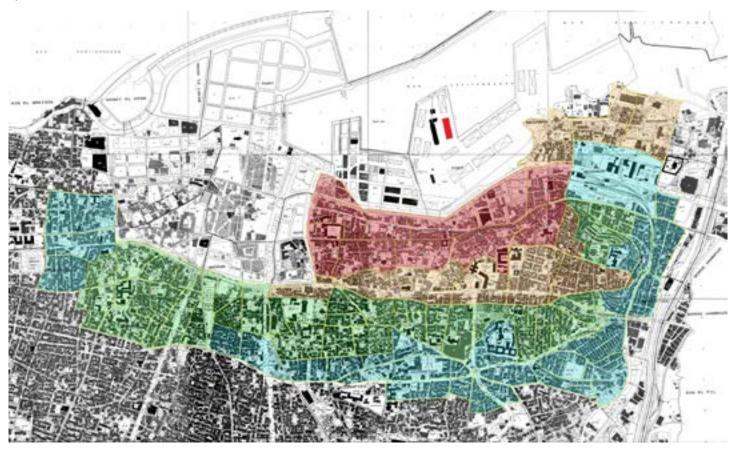
PHASE I: EMERGENCY WORKS UNDER ALIPH

Coordination with the Directorate General of Antiquities:

On account of the grant received from *ALIPH*, *BHI* was able to intervene early on, on emergency works such as propping and sheltering. *ALIPH*, in coordination with the *DGA* and *BBHR20*, funded *BHI* to shelter 10 (or more) heritage buildings that were damaged by the Beirut blast on August 4, 2020.

Accordingly, immediate action was taken in October 2020 to secure the required mission. Complying with the grant agreement, to assign a representative from *BBHR20*, in coordination with the *DGA*, to follow up on the works executed by *BHI* with the *ALIPH* grant, Dr. Antoine Fichfich inspected and supervised from the beginning of works through completion.

Accordingly, Dr. Fichfich issued a report by the *DGA | BBHR20*. As specified in the agreement and the financial report, Dr. Fichfich and his team received 4% of the grant fund. Further to coordinating with the *DGA*, *BHI* has been in continuous contact and communication with *BBHR20* through Mr. Maroun Hoshaimi, an architect restorer in charge of the sheltering process and the appointment of plots to *BHI* and other NGOs.



Red - Orange Zone			
Total Pitched Roofs		97	
Lig	htly damaged	18	
Мо	derately damaged	48	
Sev	verely damaged	31	
Total Pitched Roofs Restored		85	
Res	stored by owners	46	
Res	stored by BHI*	7	
Res	stored by other NGO	32	
Remaining Pitched Roofs		12	

Blue - Green Zone			
Total Pitched Roofs			
	Lightly damaged		
	Moderately damaged		
	Severely damaged	-	
Total Pitched Roofs Restored		12	
	Restored by owners		
	Restored by BHI*	8	
	Restored by other NGO	4	
Remaining Pitched Roofs			

Restoration of pitched roofs within the affected area, Beirut Built Heritage Rescue 2020

^{*} BHI has intervened on flat roofs that were damaged by the earthquake following the blast.

BHI was committed to shelter as many buildings as possible within the granted budget from ALIPH. Accordingly, with a more detailed examination of market prices and budget, BHI succeeded to intervene on more than the 10 buildings initially assigned, and was able to do 21 interventions on 17 buildings.

The sheltering provided by BHI was based on 4 methods:

- A- When the roof structure was not severely affected: Repairing the pitched roof wood structure and replacing the broken roof tiles.
- B- When the roof structure was severely damaged: Repairing the pitched roof timber structure with a temporary replacement and covering the building with a tarpaulin (*Belmark 550mg*).
- C- When the roof is made out of a reinforced concrete slab (1930's 1960's constructions): water-proofing application including grouting and slanting.
- D- Roof's that were covered with a tarpaulin cover, by *BHI* with *ALIPH* grant, are now getting a full reconstruction.



Tile Replacement, Y. Kassar



Tarpaulin Cover, LiveLoveBeirut



Waterproofing application, D. Mrad



Roof Reconstruction, D. Mrad



TILE REPLACEMENT:



Ashrafieh 1139, after the blast, C. Acra



During the intervention, LiveLoveBeirut



After the intervention, D. Mrad

TARPAULIN COVER:



Rmeil 292, after the blast, LiveLoveBeirut



During the intervention, LiveLoveBeirut



After the intervention, LiveLoveBeirut

WATERPROOFING APPLICATION:



Ashrafieh 1161, before intervention, D. Mrad



During the intervention, D. Mrad



After the intervention, D. Mrad

ROOF RECONSTRUCTION:



Rmeil 688, after the blast, Y. Kassar



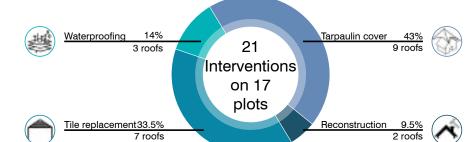
During the intervention, D. Mrad

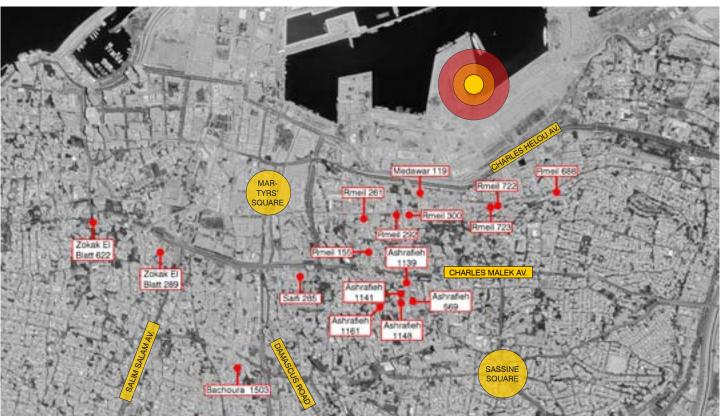


Tile placement, Y, Kassar

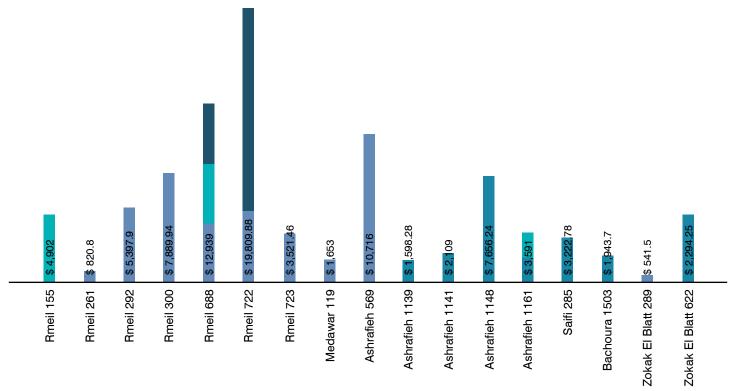
Summary of Works:

With the granted budget of \$125,000, BHI was able to carry a total of 21 operations on 17 plots that had endured damages from the August 4 2020 blast.





Emergency works map, Google Maps





PHASE II: STRUCTURAL CONSOLIDATION

Propping:







Interior propping, D. Mrad



Emergency propping, D. Mrad

Damage Assessment

Emergency propping and consolidation was executed on vulnerable heritage buildings, that require costly and time-consuming repairs and restoration.

Furthermore, BHI intervened on interior wall reconstruction and consolidation to secure the buildings structurally.

Structure Envelope Roof Interior Light Medium Heavy Severe

Wall reconstruction:



Rmeil 688, wall detachment, D. Mrad



During the intervention, D. Mrad



After the intervention, D. Mrad

Structural consolidation of the Sursock Palace, under ALIPH:



Sursock Palace North Façade, after the blast, D. Mrad

Located at the top of the cliff overlooking

the Beirut port and the northern lebanese coast, Sursock Palace has been severly affected by the blast on Aug. 4 2020.

The North facade (facing the port) has been detached from the rest of the building. Most of the woodwork is destroyed, and internal damages include large wall cracks, ceilings, walls and roof damages...

Due to the urgent need for structural consolidation, and the prevention of further collapse, a contracting company (*EDRAFOR*) chosen by the Sursock family, under the recommendation of *BHI*, and as per instructions from Michel Chalhoub (specialized engineer-restorer) supported the fragile North Facade with a steel structure.



Interior propping and bracing, Y. Dagher



The bracing system on the facade, Y. Dagher



The shoring system standing on the balcony-terrace, Y. Dagher



PHASE III: PARTIAL RENOVATION

Three arches reconstruction:





Rmeil 342, after the blast, D. Mrad

After the intervention, Y. Dagher

Beirut's built heritage is mostly known for its iconic triple arched bays facing North. The destruction of those arches left the interiors of the houses exposed and structurally vulnerable.

BHI managed to restore this unique architectural feature in two heritage buildings. The intervention included:

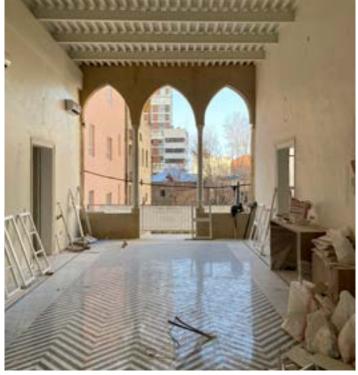
- The reconstruction of the sandstone arches and Carrara marble columns
- The restoration of damaged corbels or wooden beams that held the balconies' Carrara marble slabs
- Plastering of the newly constructed arches using lime plaster



During the intervention, Y. Kassar



Balcony installation, F. Dagher

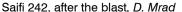


After the intervention, F. Dagher

Saifi 242:

This heritage building was severely damaged. BHI's intervention consisted in the reconstruction of Northern façade's triple arches, with Carrara marble columns and sandstone arches, with plaster and carpentry works, as well as the restoration of the Carrara marble balcony laid on steel trusses and wooden beams.







During intervention, D. Mrad



After intervention, D. Mrad



Laying of the fallen sandstones, D. Mrad



Replacing the broken Carrara tiles, D. Mrad

BHI was able to intervene further on this plot, with two other operations:

- Reconstitution of *Qotrani* wooden windows and arches for the new facade, a project in collaboration with *Bebw'Shebbek*.
- Renovation of the damaged Baghdadi ceilings using traditional techniques.



Carpentry installation, collaboration with Bebw' Shebbek, D. Mrad



Repair of Baghdadi Ceiling, D. Mrad





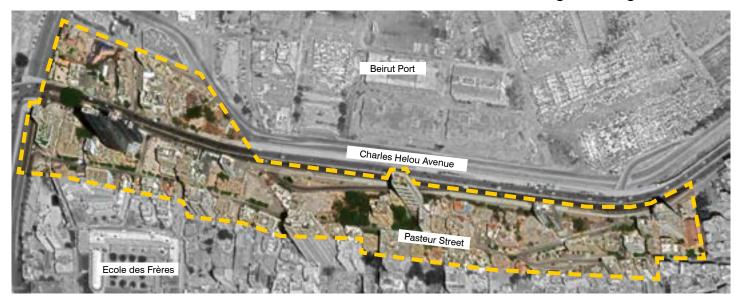
PHASE IV: FULL RENOVATION WITHIN CLUSTERS

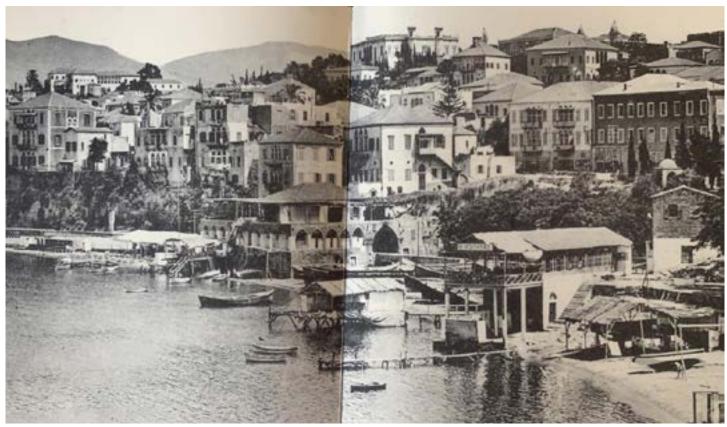
BHI has been adopting the Cluster Strategy, by forming partnerships with other NGOs to revive a group of buildings within a cluster rather than a building on its own.

1- The Shoreline Cluster:

Located less than 500 meters from the blast area, the <u>Shoreline Cluster</u> is composed of 35 heritage buildings. Before the construction of the Charles Helou Avenue and the port, the shoreline cluster was located on the Medawar Cliff, on the banks of the St. Andrew's Bay.

BHI is intervening on two heritage buildings (Medawar 479 and Medawar 119) in the middle of this cluster, and is in contact with several actors to collaborate on six other heritage buildings.





The Saint-Andrew Bay - 1920, Beyrouth, Notre Mémoire - Fouad Debbas

Medawar 479 - The Blue House:

Medawar 479, known as "The Blue House", is a heritage building located between Pasteur Street, and Charles Helou Avenue. Due to its utmost proximity to the port, the explosion inflicted eminent damages upon its structure.

Prior to the construction of the Charles Helou Avenue and the port's expansion, the building sat on the cliffs of the Medawar shoreline overlooking the sea. Its construction was phased by two stages, whereby the first two floors were constructed in the early1900's, and the third around the 1920's.

A generous grant allocated to *BHI* from the *Honor Frost Foundation* will enable its full restoration. The scope of restoration works includes structural consolidation, reconstruction of the pitched roof and the North facade, interior renovations, and MEP works.

The restoration works will follow the guidelines of a thorough study conducted by Architect/Restorer Joe Kallas based on a request from the *DGA*. Furthermore, a tender was launched by *BHI* to assign an eligible contractor to execute the works. It is estimated that the chosen contractor will proceed with the restoration works in July.



Medawar 479 within its neighborhood, 1920's, Beirut Heritage



Medawar 479, before the blast, BBHR 2020



After the blast, Dia Mrad



Damage mapping, J. Kallas



Medawar 479, Facing the port, Y. Dagher



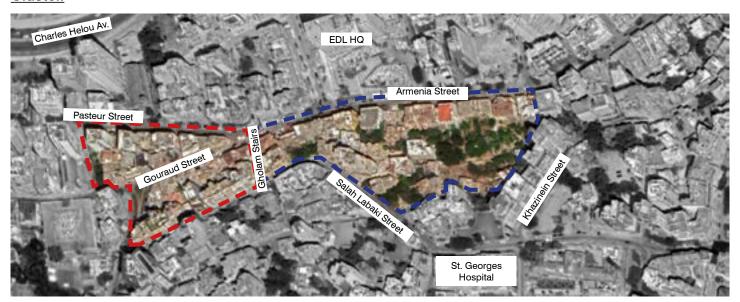
North-East 3D, J. Kallas



2- The Gholam & Mulberry Clusters:

The Gholam Cluster (in red) and Mulberry Cluster (in blue) are located less than 500 meters away from the explosion site. Both clusters endured severe damages from the blast.

BHI is intervening on 1 of 4 (Rmeil 722) heritage buildings in the <u>Gholam Cluster</u>, in collaboration with Together Li Beirut, and is supporting LiveLoveBeirut on the renovation of 5 buildings in the <u>Mulberry Cluster</u>.





The Gholam Cluster, from left to right: Rmeil 707, Gholam Public Stairs, Rmeil 722 and Rmeil 723, D. Mrad

Rmeil 722:

Rmeil 722, is a heritage building located at the juncture between Gemmayzeh and Mar Mikhael. Built between 1860 -1900, it is composed of a commercial ground floor and two residential floors. Severe damages have been inflicted upon this building as it lies along the direct axes of the port explosion. In October 2020, *BHI* sheltered the building under a grant from *ALIPH* to secure it from further damage during the winter storms. In April 2021, with the help of multiple donors, *BHI* was able to secure the fund needed for the building's full restoration. Consequently, *BHI* will be contributing to the safeguarding of the neighborhood's heritage cluster.

Restoration works will follow the guidelines of a thorough study conducted by Architect/Restorer Pierre Ghanem from *BBHR* which was commissioned by the *DGA* and funded by the *DAI*. So far, 15% of the works have been completed on site and the expected end date of the works is September 2021. In addition, a grant has been also allocated to the refurbishment of the Gholam Public Stairs by the French ministries of Culture and Ecological Transition.



Rmeil 722, after the blast, D. Mrad





The dismantled arches, and their re-installation, D. Mrad



Inspection of the wooden structure, D. Mrad



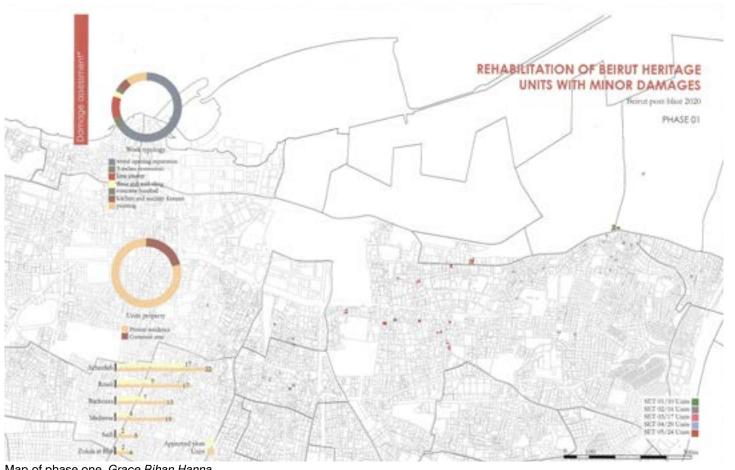
Roof works, D. Mrad



ASSISTANCE TO UNHCR HERITAGE **RESTORATION WORKS IN BEIRUT**

The objective of the project is to assist UNHCR in conducting restoration of heritage buildings affected by the Beirut Blast. FNP - Beirut Heritage Initiative Campaign will provide the assistance through preparation of technical documents allowing UNHCR's selected contractor to execute works in an adequare manner, supervision of the execution works, and hand over of works with relevant reports to UNHCR. INTERSOS will support the intervention by ensuring the funding from UNHCR to FNP - Beirut Heritage Initiative Campaign in the framework of the project is compliant with the requirements and providing financial oversight of the expenditures done by FNP - Beirut Heritage Initiative Campaign.

Ms Grace Rihan Hanna, architect-restorer from the Beirut Built Heritage Rescue 2020, was selected as the project manager and heritage expert, to carry out this projetct.



Map of phase one, Grace Rihan Hanna

Methodology:

Once a unit is selected, a survey is done to assess damages in terms of quantities. They are highlighted on a current situation "minute" (Plan).

The data collected for unit selection and survey are registered on an Excel template sheet that cover three main aspects:

- 1. An architectural assessment for each unit describing its typology, damage type and general information
- 2. A technical assessment that groups the site photos, the current situation plan and the intervention BOQ for that same unit
- 3. A social status report of the family living inside that specific unit along with the legal documents of the owner / tenant of the unit - an ID copy and a proof of residency being a real estate affadavit, a lease agreement or an electricity or water bill.

Once approved by the UNHCR, the site work begins under the team supervision and inspection.

REHABILITATION OF BEIRUT HERITAGE UNITS WITH MINOR DAMAGES

Beirut post-blast 2020

150

109 APPROVIDE UNITS

* 109 gains were appeared by UNHCR.



The purpose of the mission is to primiter a perjoic attenty to senior UNPICR in preparing small surfaced documents with relevant ROQs/special/assings, ollowing the selected continuous:

- so concern works in an absquare manage—so supervise the misoration of these section in hand some of surface with relevant reports to UNPICR, KONSOS and DGA.

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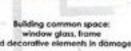








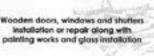












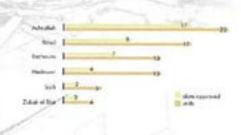












ICOMOS

UNHCR





FONDATION DE FRANCE PROJECT

The project with the Fondation de France has 3 components:

- 1- Publication of two technical manuals, on heritage buildings built between 1860-1925 and 1925-1970
- 2- Training courses and workshops (refer to page 30 & 31)
- 3- Site visits and assessments

The manuals, trainings and expertise are necessary for the renovation of the affected heritage houses, awaiting for funding for proper intervention.



Site Visit with Engineer - Heritage specialist Michel Chalhoub, D. Mrad

Our project benefits a large number of people and different target groups. From the inhabitants of these houses which need to be restored, to the engineers, architects, associations, trades, craftsmen who participate in this reconstruction.

All of our actions are therefore beneficial to multiple sectors. With the proper know-how, each house or business restored will induces a revitalization of the city, the social life, and the economic activity. By restoring the buildings, we encourage the inhabitants to return to their homes and thereby resume their main activities. Our policy is directed not towards aid for the restoration of a building, but of a group of buildings, within clusters, in order to encourage residents to establish themselves in their neighborhoods.

The knowledge contained in the manuals, the practices and solutions it proposes are already applied either during the various interventions that we carry out ourselves, or during the interventions of our partners and other actors who work in the affected neighborhoods.

Pages from the 1860 - 1930 manual:



LES BAIES AUX TROIS ARCS

OUVERTURES ET MENUSCHIES

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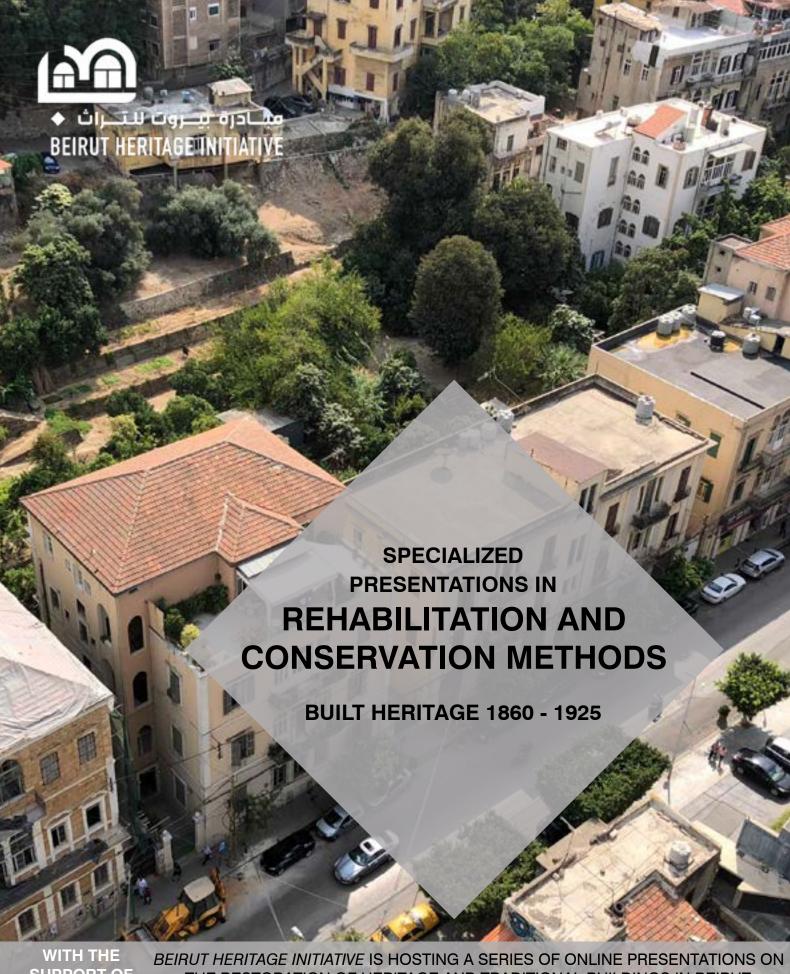
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SUPPORT OF

Fondation de France

THE RESTORATION OF HERITAGE AND TRADITIONAL BUILDINGS IN BEIRUT. THE PRESENTATIONS ARE TAILORED TO PROFESSIONALS AND NGO'S ACTIVE IN THE FIELD OF CONSTRUCTION, INTRODUCING THE METHODS THAT RESPECT THE INTEGRITY OF THE ORIGINAL STRUCTURES. THE SESSIONS WILL BE LED BY EXPERIENCED PROFESSIONALS, HERITAGE ARCHITECTS AND ENGINEERS.



INTRODUCTION TO THE BEIRUTI HOUSES

1860 - 1925

Fadlallah Dagher

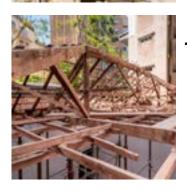
Friday July 09, 2021, 5:00 pm



STRUCTURAL RESTORATION OF THE HERITAGE BUILDINGS FOLLOWING THE BLAST

Michel Chalhoub

Tuesday July 13, 2021, 5:00 pm Wednesday July 14, 2021, 5:00 pm



TIMBER ROOFS: RESTORING A FORGOTTEN KNOW-HOW

Jean Samaha

Monday July 19, 2021, 5:00 pm



UNDERSTANDING THE LOCAL CARPENTRY: DOORS, WINDOWS & TRIPLE ARCHES

Paula Abou Harb

Friday July 23, 2021, 5:00 pm



CONSERVATION OF THE HISTORICAL FINISHES: PLASTER, MURALS AND FLOORING

Nathalie Chahine Monday July 26, 2021, 5:00 pm Tuesday July 27, 2021, 5:00 pm



HERITAGE BUILDINGS & CLUSTERS IN THE FABRIC OF THE CITY

Abdul-Halim Jabr

Friday July 30, 2021, 5:00 pm

Beyond the romantic image, the presentation focuses on the social and urban aspects, as well as on the distinctive spatial and technical components of the typical Beiruti Houses.

The August 4, 2020 Blast affected the structural stability of the Beiruti Houses. The presentation will highlight the pathologies observed, and the methodology and technologies for the retrofitting and consolidation of the damaged structures.

The red tiled, pyramidal timber truss pitched roof is a major innovation in local architecture in the 2nd part of the 19th century; without this shelter, the living monument is lost. The presentation focuses on the arrival and loss of this know-how, practices, and principles of construction, also on material and details, as well as on the restoration methods.

Openings have always constituted an integral part of a building's elevation. Understanding and preserving their typologies and traditional craftsmanship helps in telling the story of the city's changing architectural tastes, influences and lifestyles.

The painted ceilings and walls flourished in the late-Ottoman Beiruti mansions between 1840 and 1930. In parallel, these mansions had their floors covered with Italian marble, terracotta tiles, cemento, and furni stone. the presentations will cover the techniques of installations and applications, the pathologies, and the ways of interventions on those finishing elements.

A short overview of heritage planning from 1990's till today, followed by a focus on contemporary challenges in protecting urban heritage of Ottoman, French and post-independance eras.



FOR MORE INFORMATION

Beirut Heritage Initiative (BHI)

<u>beirutheritageinitiative.com</u> info@beirutheritageinitiative.com

Facebook https://www.facebook.com/BeirutHeritageInitiative/
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Fadlallah DagherYoumna Karam

Architect & Coordinator Financial Coordinator

Lynn Tehini

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nancial Coordinator

• Abdul-Halim Jabr Urbanism Coordinator



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