



جذور لبنان  
jouzourloubnan.org

معًا نزرع غابات الغد  
TOGETHER WE PLANT  
TOMORROW'S FORESTS

ISSUE 08  
SEPT. 2019

زرعنا أكثر من 320 000 شجرة  
ما بكفّي!



[adoptacedar.org](http://adoptacedar.org)

# WORD OF THE PRESIDENT

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Il y a 11 ans Raoul Nehme, entra dans mon bureau à la Faculté des Sciences de l'USJ ; "Nous voulons planter des arbres, nous avons les ressources financières mais nous cherchons le savoir-faire", me disait-il. "Ça tombe bien" répliquai-je ; "J'ai le savoir-faire et manque de ressources".

Quelques mois plus tard, c'est sur cette base d'alchimie science-volonté de planter, que l'Association Jouzour Loubnan est née grâce à une poignée d'amis motivés et déterminés à rendre au Liban ce qui est au Liban et qui lui a été subtilisé par la cupidité des humains.

Ce savoir-faire scientifique est large, diversifié et ne cesse d'évoluer profitant de l'avancement des technologies. Les arbres jadis considérés comme de simples créatures absorbant le CO<sub>2</sub> et produisant de l'oxygène sont aujourd'hui reconnus comme des êtres complexes doués de communication et qui savent être solidaires pour le bien être de leur communauté forestière.

Il est opportun de revenir sur quelques principes que la communauté scientifique tente de remettre aux devants de la scène ces derniers mois suite à la publication le 5 juillet dernier par des chercheurs suisses d'une étude prônant que pour lutter contre le réchauffement climatique il suffit simplement de planter 1.000 milliard d'arbres.

**Planter des arbres, OUI.** Mais les forêts plantées sont beaucoup moins efficaces que les forêts naturelles pour stocker le CO<sub>2</sub> et s'approcheraient, au mieux, d'à peine 70 % des écosystèmes forestiers naturels. Donc la priorité est à la sauvegarde des forêts naturelles.

Planter des arbres, OUI. **Mais pas n'importe où !** Pas là où d'autres écosystèmes non forestiers prospèrent et hébergent foule de créatures adaptées à de tels milieux et qui disparaîtraient à jamais si les arbres envahissent leur habitat.



Planter des arbres, OUI. **Mais pas n'importe lesquels!** Planter des arbres natifs adaptés parfaitement aux conditions environnementales de la zone concernée et portant le potentiel génétique pour s'adapter aux changements futurs.

**Planter des arbres est aujourd'hui à la portée de tout le monde.** Le savoir-faire sous-jacent l'est aussi puisque qu'avec la démocratisation scientifique, le savoir qui est au service de la société est accessible à tous.

**Jouzour Loubnan continuera à ouvrir la voie** et les yeux sur les secrets des forêts, l'innovation dans le secteur forestier et les bonnes pratiques de reboisement dont les forêts urbaines et l'agroforesterie.

**Pr. Magda Bou Dagher Kharrat**

# adoptacedar.org

**1-2 years old**  
*Cedrus libani*



**20 USD**  
30,000 LBP

15-20cm



80-100cm



**8-10 years old**  
*Cedrus libani*



**60 USD**  
90,000 LBP

The donation fees cover the plantation, nurturing and protection of each planted seedling. Every tree which does not survive is replaced the following year.

## Adopt your cedar tree today!

**Get an instant digital certificate with the GPS location of your adopted cedar tree!\***



**Engrave your name on a metallic tag placed by your adopted cedar tree!**

**Request a picture of your metallic tag when installed on your cedar tree!**



**Surprise your friends and loved ones by adopting a cedar tree in their names as a gift!**

**\*Ask for a customized certificate design for your EVENT**  
(birthdays, wedding, baby shower, in memory of, thanks to, corporate gifts...)

# ABOUT

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Jouzour Loubnan is a NGO established since 2008 (registration number 491) whose mission is to participate in the restoration of Lebanese woodland and promote sustainable reforestation.

Jouzour Loubnan also focuses on engaging the Lebanese in reforestation by raising awareness on the importance of forests and biodiversity, involving the local communities in the protection and management of our planted forests and encouraging Lebanese residents and the diaspora to support reforestation.

To date (2019), Jouzour Loubnan has planted, nurtured and protected more than 320,000 native trees across Lebanon.

## CONTACT US

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contact@jouzourloubnan.org

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## FOLLOW US



/ JouzourLoubnan

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## VISIT OUR SITE



jouzourloubnan.org



adoptacedar.org

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# BASSOUL HENEINE SAL

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Rolls-Royce  
Motor Cars



BMW Motorrad

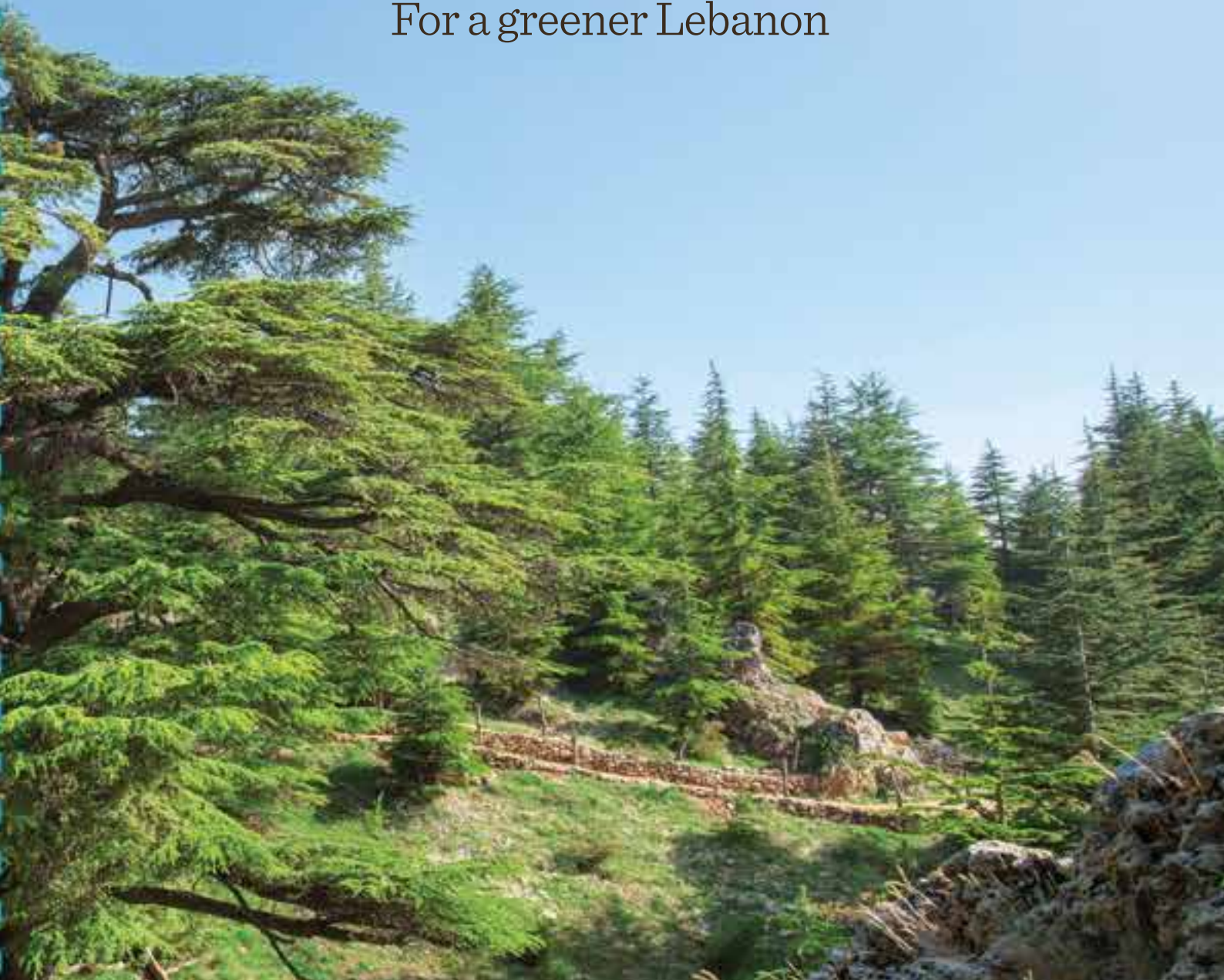


RENAULT  
Passion for life

For every car or motorbike sold,  
a cedar will be planted.

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For a greener Lebanon



# TRIBUTE TO « LA SOCIÉTÉ DES AMIS DES ARBRES »

C'était en 1934 que Charles Corm publiait son livre-phare « La Montagne inspirée » qui fut couronné par le Prix International de Poésie Edgar Allan Poe à Paris.

Cette même année 1934, il y a juste 85 ans, Charles Corm alors âgé de 40 ans fondait « La Société des Amis des Arbres » dont le comité exécutif comprenait entre autres comme membres le Président Émile Eddé, Gabriel Tabet, Jamil Beyhum, Evelyne Bustros, Jean Debbané, Badr Dimechkieh, Dona Maria Alfred Sursock, Fouad Ghosn, Assad Bey Younès, Gabriel Menassa et d'autres illustres personnalités de cette époque.

Cette association s'estompa lentement avec la maladie et le décès de son fondateur en 1963. Son fils Hiram reprit le flambeau à titre personnel et fit planter des milliers d'arbres le long des routes de la montagne libanaise entre 1965 et 1975.

La guerre civile de 1975 à 1990 sonna le glas des activités de la Société mais elle reste vivante légalement et juridiquement jusqu'à nos jours.

**C'est pourquoi, la Société des Amis des Arbres est justement fière de s'associer à l'Association Jouzour Loubnan pour, tel que stipulé dans les textes fondateurs de la Société des Amis des arbres :**

- Conserver le peu de forêts qui restent encore ;
- Reboiser ce qui est resté boisable ;
- Mettre cette œuvre à l'abri de ses ennemis, dont les plus dangereux est la chèvre ;
- Créer une réserve nationale.

David Charles Corm





Extraits des archives de la Société des Amis des Arbres.



<p>La Société des Amis des Arbres a l'honneur de vous prier de vouloir bien honorer de votre présence la cérémonie annuelle de:</p> <p><i>« La Journée de l'Arbre »</i></p> <p>qui aura lieu sous la Présidence de Son Excellence</p> <p><b>Sheikh Bechara El Khoury</b> Président de la République Libanaise</p> <p>le Dimanche 5 Décembre 1948, à 10 h. 30 du matin dans la cité de l'Unesco.</p> <p><b>PROGRAMME</b></p> <p>Hymne national Libanais Discours du Président de la Société des Amis des Arbres Discours de Son Excellence Monsieur le Président de la République Hymne de l'Arbre Plantation d'arbres et Musique.</p> <p style="text-align: right;">Institution « Friends of Trees »</p>	<p>تتمتع جمعية أصدقاء الأشجار بمحرمكم لإيفاء السنوي بمراسم</p> <p><b>يوم الشجرة</b></p> <p>بإشراف فخامة رئيس الجمهورية اللبنانية</p> <p><b>السيد بشارة خليل الخوري</b></p> <p>الزمان : الثلاثاء 5 من أشتاح الأبتدع وسفارة الأوناسكو ١٩٤٨</p> <p>المكان : سفارة سفيرة الأوناسكو</p> <p>•</p> <p><b>النشاط</b></p> <p>أ- نشيد الوطنيت</p> <p>ب- خطاب رئيس الجمعية</p> <p>ج- نشيد الشجرة</p> <p>د- نغمة الأختار الموسيقي</p> <p>•</p> <p>أمانة الجمعية</p>	<p>The Society of the Friends of the Tree has the honour to request your presence at its Annual Celebration under the patronage of His Excellency</p> <p><b>Sheikh Bechara El Khoury</b> President of the Lebanese Republic</p> <p>On Sunday, December 5, 1948 at 10 h. 30 a. m. On Unesco City grounds.</p> <p><b>PROGRAM</b></p> <p>The National Hymn Speech by the President of the Society Speech by His Excellency the President of the Republic Hymn of « The Tree » Tree Planting — Music.</p> <p style="text-align: right;">Institution « Friends of Trees »</p>
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**Creditbank** S.A.L.

## Nature nurtures

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A wiseman said:

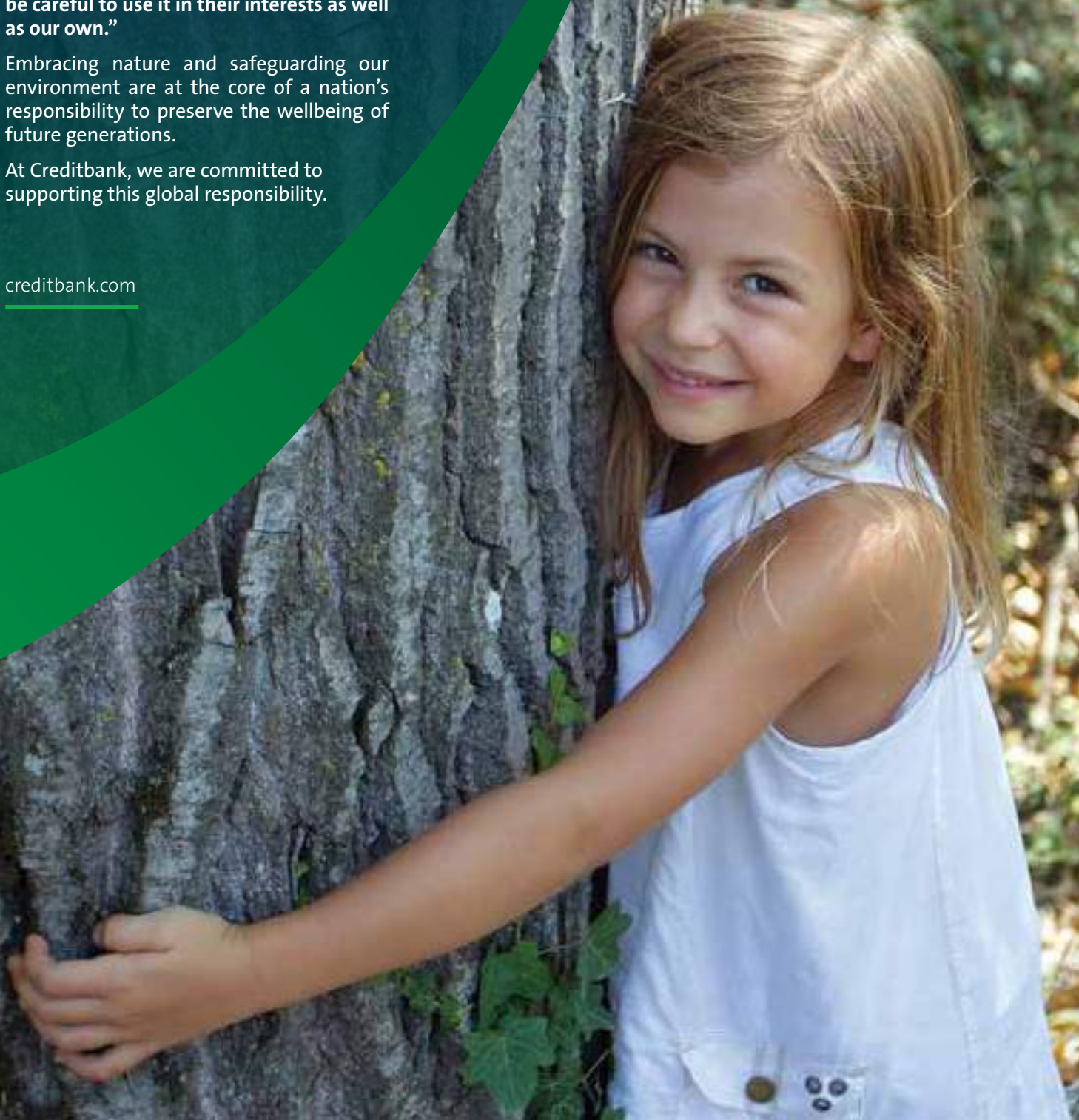
**“We have not inherited this earth from our parents to do with it what we will. We have borrowed it from our children and we must be careful to use it in their interests as well as our own.”**

Embracing nature and safeguarding our environment are at the core of a nation’s responsibility to preserve the wellbeing of future generations.

At Creditbank, we are committed to supporting this global responsibility.

[creditbank.com](http://creditbank.com)

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## L'EXEMPLE

Beaux arbres, je voudrais être pareil à vous :  
Non pas uniquement un tronc massif et rude,  
Blindé de dure écorce et ferme d'attitude :  
Beaux arbres, je voudrais être pareil à vous !

Jusqu'en la profondeur de la cendre des morts,  
Dans les sombres trésors des saintes origines,  
Pousser, tenacement, mes plus tendres racines,  
Jusqu'en la profondeur de la cendre des morts !

Pour rejaillir plus haut dans la splendeur du jour,  
Descendre, bravement, dans la nuit de ma tâche,  
Enfoncer dans le sol mes plus fortes attaches,  
Pour rejaillir plus haut dans la splendeur du jour !

Contre les vains fracas d'un farouche destin,  
Lorsque l'orage gronde et la foudre fait rage,  
Garder, stoïquement, le silence du sage,  
Contre les vains fracas d'un farouche destin !

Léger et verdoyant, plein de brise et d'azur,  
Secouer ma poussière au souffle d'un nuage,  
Avoir de vifs rameaux frémissants de feuillage,  
Léger et verdoyant, plein de brise et d'azur !

Et les bras large ouverts à tous les horizons,  
De l'aurore au couchant tendre ma tige étaie,  
Darder vers le zénith une âme verticale,  
Et les bras large ouverts à tous les horizons !

Par un constant miracle, incroyable et réel,  
Tirer de l'humus noir où gît la pourriture,  
L'éclat et le parfum de la fleur la plus pure,  
Par un constant miracle, incroyable et réel !

Tendre et gai, droit et fier et sensible, et serein,  
Pour ne pas épuiser mon ardeur qui s'épanche,  
Dans le vent fugitif n'avoir pas trop de branches,  
Tendre et gai, droit et fier, et sensible, et serein !

Des bourgeons du printemps jusqu'aux fruits de l'été,  
Nourri du tuf solide et du grand air qui passe,  
Fixe sur mon passé, m'élever dans l'espace,  
Des bourgeons du printemps jusqu'aux fruits de l'été !

Comme les Phéniciens, jusqu'au delà des mers,  
Transformaient par l'esprit le sort des premiers hommes,  
Remplir les vastes cleux de germes et d'aromes,  
Comme les Phéniciens, jusqu'au delà des mers !

Pour assurer l'espoir d'un meilleur avenir,  
Puits dans le vieux sang de la terre féconde,  
L'avril toujours nouveau qui rajeunit le monde,  
Pour assurer l'espoir d'un meilleur avenir !

(Les Cahiers de l'Enfant)

CHARLES CORM



# MEET THE TEAM

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**MAGDA BOU DAGHER KHARRAT** | PRESIDENT

**PROFESSION**

Professor, Faculty of Sciences  
Université Saint Joseph

**EDUCATION**

PhD in Plant Molecular Biology, University Pierre et  
Marie Curie.  
HDR, Université Paris-Sud



**RAOUL NEHME** | VICE PRESIDENT

**PROFESSION**

General Manager, BankMed

**EDUCATION**

Ecole Polytechnique de Paris & Ecole des Mines  
de Paris



**HIBA ABOULHOSN** | GENERAL SECRETARY

**PROFESSION**

Communications Consultant & Partner,  
KeepItSimple communications

**EDUCATION**

Masters in Communication, Edinburgh University



**HANI HOYEK** | ACCOUNTANT

**PROFESSION**

Business Development, BLC Bank

**EDUCATION**

Grande Ecole de Commerce EM Lyon



**RAMI KOZHAYA** | TREASURER

**PROFESSION**

Head of Alternative Delivery Channels,  
Bank Audi

**EDUCATION**

MBA - Management of Financial Institutions,  
USJ - Sorbonne - Paris Dauphine



**RIDA BOUTROS** | PROJECT COORDINATOR

**PROFESSION**

Project Coordinator, Jouzour Loubnan

**EDUCATION**

Masters in Biodiversity: Management and Conservation  
of Natural Resources, Lebanese University



**TONY CHAHINE** | PROJECT MANAGER

**PROFESSION**

Project Manager, Jouzour Loubnan

**EDUCATION**

MS Agricultural Engineering, Lebanese University



**ELISABETH NEHME** | COMMUNICATIONS MANAGER

**PROFESSION**

Communications Manager, Jouzour Loubnan

**EDUCATION**

BA in Marketing and Advertisement - USJ  
Non-profit Management Associate Diploma – LAU

**GEORGES TAWK** | SITE SUPERVISOR BCHARRI

---



**RAMEZ HAYEK**  
SITE SUPERVISOR JAJ

---



**SAYED MARCOS**  
SITE SUPERVISOR EHDEN

---



**MAROUN GEBRAYEL**  
SITE SUPERVISOR JEZZINE

---



**NASSIM FARHAT**  
SITE SUPERVISOR EBL EL SAKI

---



**ROGER AKIKI**  
SITE SUPERVISOR KFARDEBIAN

---



**FADI NASSIF**  
COMMITTEE MEMBER

---

**PROFESSION**  
Lawyer and Owner  
of Nassif Law Office



**ANTHONY ROUKOZ** | ASSISTANT LAB

---

**PROFESSION**  
Assistant Lab, Jouzour Loubnan

**EDUCATION**  
Environmental Sciences and Management  
SGE, Master 2, Faculty of Sciences, USJ



**JOELLE SAAB** | COMMITTEE MEMBER

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**PROFESSION**  
Head of Recycling Unit, DulSCO, UAE

**EDUCATION**  
Masters in Environmental Sciences and Management,  
Université Saint Joseph



**FREDERIC KHALIL** | MEMBER

---

**PROFESSION**  
Partner, BEAR

**EDUCATION**  
MBA, USJ - Paris Dauphine



**RIAD MOUAWAD** | MEMBER

---

**PROFESSION**  
Creative Director & Partner  
BlackInk - visual communication

**EDUCATION**  
Graphic Design, Notre Dame University



**FARID MAALOUF** | MEMBER

---

**PROFESSION**  
OTV, Execution Director

**EDUCATION**  
Civil Engineer, ESIB

**CHARLES EL HAGE** | MEMBER

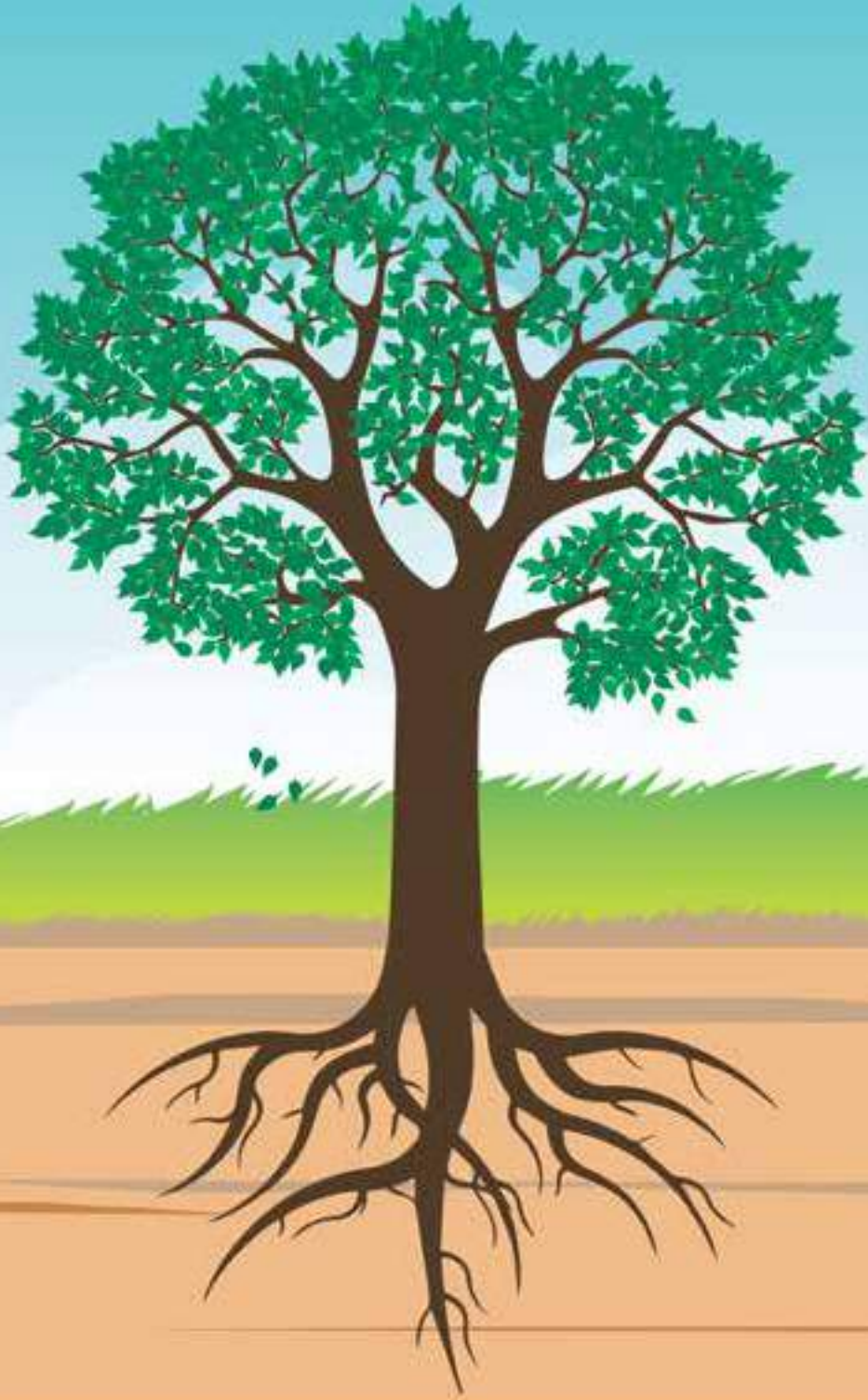
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**PROFESSION**  
Retired as Senior Vice-president with  
Booz & Company

**EDUCATION**  
Masters of Science in Industrial Engineering and  
Bachelor Industrial Management, Purdue University,  
Indiana, USA



# بأرض لبنان جذورنا راسخة



# مهما تغيّرت الظروف



le charcutier





جذور لبنان  
jouzourlibnan.org

زرعنا أكثر من 320 000 شجرة  
ما يكفي!

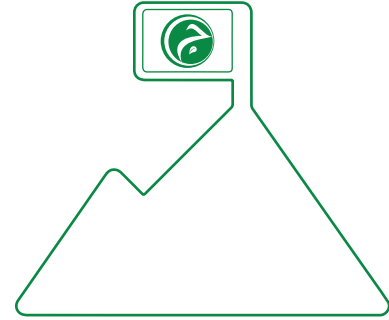
معًا نزرع غابات الغد  
TOGETHER WE PLANT  
TOMORROW'S FORESTS

[adoptacedar.org](http://adoptacedar.org)

# OUR MISSION

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Jouzour Loubnan participates in the restoration of Lebanese woodland and promotes sustainable reforestation.



# OUR GOALS

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## PLANT TOWARDS SUSTAINABLE FORESTS

- >> Restore degraded forest ecosystems.
- >> Contribute to the development of the Green Corridor.
- >> Foster urban forests and agroforestry.
- >> Create and share new and good forestry practices through research and development.



## ENGAGE THE LEBANESE IN REFORESTATION

- >> Raise awareness on the importance of forests and biodiversity.
- >> Involve local communities in the protection and management of our planted forests.
- >> Encourage Lebanese residents and diaspora to support reforestation.









JGROUP

Challenge  
Accepted!

# OUR GREEN PROGRAMMES

We cannot forget that the fight for reforestation is a worldwide fight, and we are all concerned about the fast reduction of native woodland areas in Lebanon.

**We all have a role to play!** Each of us can contribute to the reforestation effort as individuals.

Discover our CSR and green programmes to help us save Lebanon's forests and green spaces.

These programmes are flexible and can be adapted to cater your marketing and communication needs.



## ARE YOU A PRIVATE COMPANY AND WANT TO REDUCE YOUR ENVIRONMENTAL FOOTPRINT?

Our generous supporting partners have exceptionally well-received these corporate events to date. They are exciting team-building activities which also raise awareness about the importance of protecting and increasing our woodland heritage.

**Below the activities that the Jouzour Loubnan team can offer separately or jointly under this programme:**

- Donate a portion, a percentage or all of the proceeds of your product, service, or event;
- Sponsor a plantation site or a number of trees to be planted in the name of the company;
- Gather employees and/or client with their families in a fun outdoors team-building event during the plantation season in Autumn to plant the number of trees they donated;
- Organize awareness sessions with the employees promoting the benefits of reforestation;

Certificates are prepared in the name of the company, employee or client with the GPS coordinates of the adopted planted tree or of the sponsored plantation site.

These green partnerships can all be promoted externally with the general public through mediatized tools and events.



## ARE YOU A CAR DEALER / CAR RE-SELLER?

Jouzour Loubnan started this green initiative with one car dealer with the objective that soon enough every newly purchased car in Lebanon would create traffic of trees in our deserted mountains.

**“One tree planted for each new car sold” is our motto. The car dealers’ reforestation program is simple:**

- Receive a plantation certificate in the name of the new car owner with the GPS coordinates of the planted tree;
- (or) Receive a yearly plantation certificate in the name of the car dealer company with the GPS coordinates of the plantation site in which all of the trees are planted;
- Receive a customized designed sticker that can be placed on the car saying “I just planted a tree”;
- Promote this green partnership externally with the general public through mediatized tools and events.



REAL ESTATE  
PROGRAMME

## ARE YOU A REAL ESTATE DEVELOPER?

It has been such a reward to partner to date with more than 4 real-estate developers in this programme: “1sqm of newly created forests for 1sqm built.”

**Below the activities that the Jouzour Loubnan team can offer separately or jointly under this programme:**

- **Sponsor a surface of newly created forest equal to the surface of sold/ built sqm monthly or quarterly;**  
The developer will receive a certificate of plantation (monthly or yearly) in the name of the company with the GPS location of the newly planted site.
- **(or) Encourage the buyer to contribute to the creation of newly created forests for the surface of his/her newly purchased home;**  
The owner of the house will receive a certificate of plantation in his/her name with the GPS location of the newly planted site.

This programme allows you to promote an environmental awareness image and can be used in all of your marketing and sales strategies and promotional materials.



ADOPT A CEDAR  
PROGRAMME

## ARE YOU SEARCHING FOR A GIFT TO YOUR FAMILY AND FRIENDS ?

The ‘adoptacedar.org’ initiative was initiated based on the request of many individuals who wished to support Jouzour Loubnan’s mission but weren’t able to physically be present.

**This initiative evolved rapidly and started taking many shapes and forms, such as a wedding or birthday wish list, a new baby born’s ‘cadeau de retour’, a memorial, or even a wedding proposal. Anyone... Anywhere... can today adopt a Cedar in Lebanon with just a click!**

- **Adopt a small or big *Cedrus libani* for you, your family or friends;**
- **Receive an instant certificate with the GPS coordinates of the adopted tree;**
- **Request an event wish-list on the ‘adoptacedar.org’ site for friends and family;**
- **Personalize the certificate design to fit the event’s theme;**
- **(Optional) Engrave the name on a metallic tag to be placed on the adopted tree;**
- **(Optional) Request a picture of the tag and tree.**



VOLUNTEER  
PROGRAMME

## ARE YOU A MOTIVATED SPIRIT?

You can participate in our public plantation campaigns during the Autumn season.

**We announce them regularly on our website [www.jouzourloubnan.org](http://www.jouzourloubnan.org) and our Jouzour Loubnan pages on social media.**





## BUILDING LASTING RELATIONSHIPS

On the occasion of its 25<sup>th</sup> anniversary, Banque BEMO inaugurated the Bank's Cedar forest in honor of the deeply rooted and solid relationships with its clients.

\*Reforestation initiative in Partnership with Jouzour Loubnan.



# OUR GREEN PROGRAMMES

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## ARE YOU A TEACHER OR A STUDENT?

Jouzour Loubnan encourages students to participate and volunteer in its activities.

A letter certifying participation is offered to each student accordingly. Well rooted partnerships are forming generations while providing significant support to Jouzour Loubnan.



## ARE YOU A MEDIA, PR OR ADVERTISING COMPANY?

Journalists and media outlets are key and essential to reach out to the Lebanese citizens and diaspora, and to create awareness about the importance of reforestation in Lebanon.

You can support our cause by offering us free ad spaces for our annual awareness campaigns or by covering our activities and spreading the news to the public via different media portals.



## ARE YOU SOCIALLY OR POLITICALLY ACTIVE OR A KEY OPINION LEADER?

You may assist in the political awakening of the Lebanese Government and its commitment to implement a sustainable and achievable plan in the application of the law, and the protection and development of our woodland heritage.



Your protection,  
our identity.

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# NEWSFLASH - THE SIXTH MEDITERRANEAN FOREST WEEK



## ROLE OF MEDITERRANEAN FORESTS IN THE PARIS AGREEMENT: CHALLENGES AND OPPORTUNITIES

The Ministry of Agriculture, in collaboration with the Food and Agriculture Organization of the United Nations (FAO), **hosted the Sixth Edition of the Mediterranean Forest Week** at the Grand Hills Hotel, Broumana, on 1–5 April 2019. Held every two years, the Mediterranean Forest Week is a key platform for regional forestry-related cooperation and dialogue between all relevant stakeholders.

The 6th MFW brought together policy and decision-makers, forest administrators, researchers, practitioners, donors, civil society organizations, and social and environmental-based non-governmental organizations to share and promote the use of **forest-based solutions** to assist Mediterranean countries in the implementation of their Nationally Determined Contributions (NDCs) under the Paris Agreement.

During this event, President of Jouzour Loubnan, Pr. Magda Bou Dagher Kharrat, shared best practices and fostered an exchange of experiences with regards to restoration approaches that include **biodiversity for resilience**: “Biodiversity should be considered at different scales (stand, landscape, ecosystem, bioregional) and in terms of all elements (genes, species, communities). Increasing the biodiversity in planted forests have a positive effect on their resilient capacity.”

Moreover, the project coordinator of Jouzour Loubnan, Rida Boutros, represented the youth of Lebanon by ensuring that “We chose to embrace environmental careers; we chose to volunteer and devote time. We want to be more involved and engaged.

I am rising the voice for a better quality of life. Also, I am telling you, we all want to help our planet and our forest recover [...]”

The weeklong event concluded with the adoption of the ‘Lebanon Declaration’, presented by the newly appointed chairman of Silva Mediterranea, Dr. Chadi Mohanna, that prompts Mediterranean countries with NDCs under the Paris Agreement to **take specific, recommended actions** that 1) reinforce knowledge and experience sharing on Forest and Landscape Restoration approaches, 2) mobilize climate financing, and 3) synergize forest monitoring and reporting systems.







# 01

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**INCREASE  
THE  
WOODLAND  
AREA**



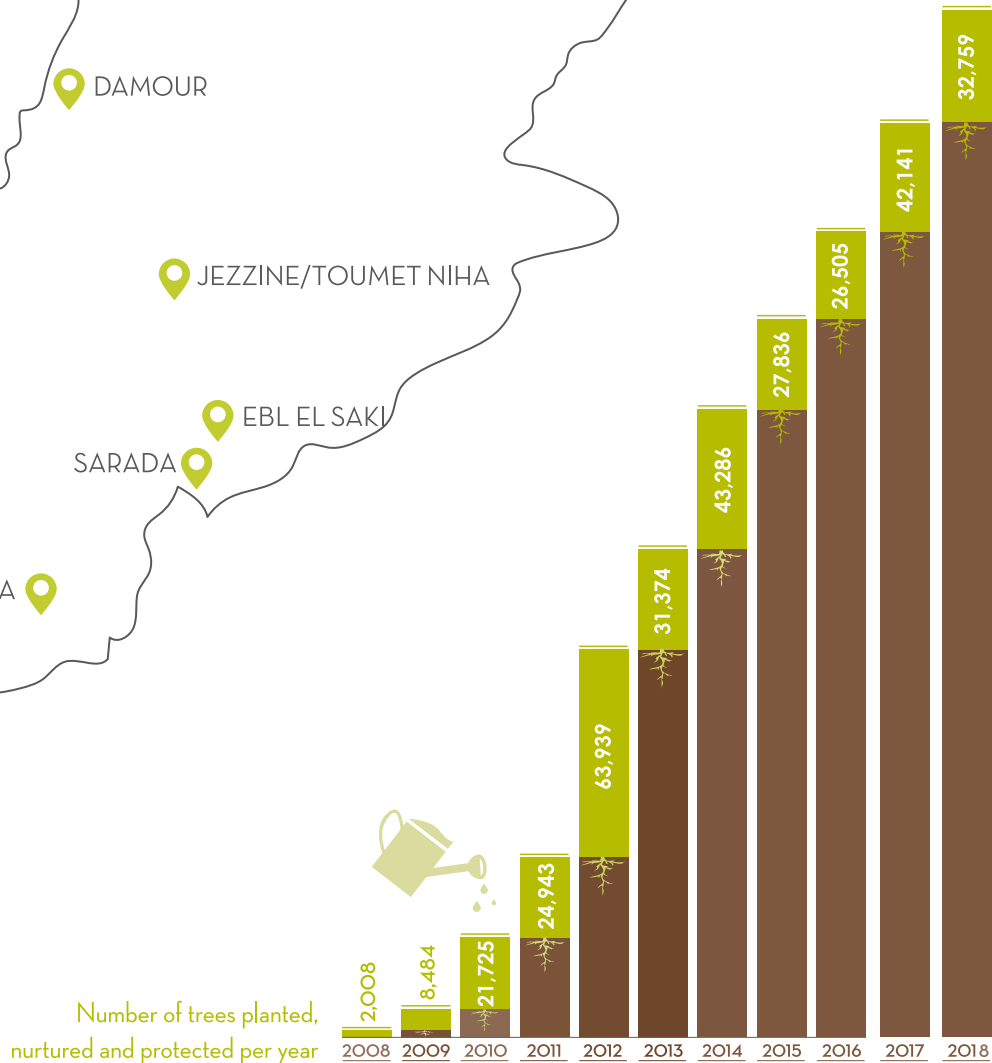
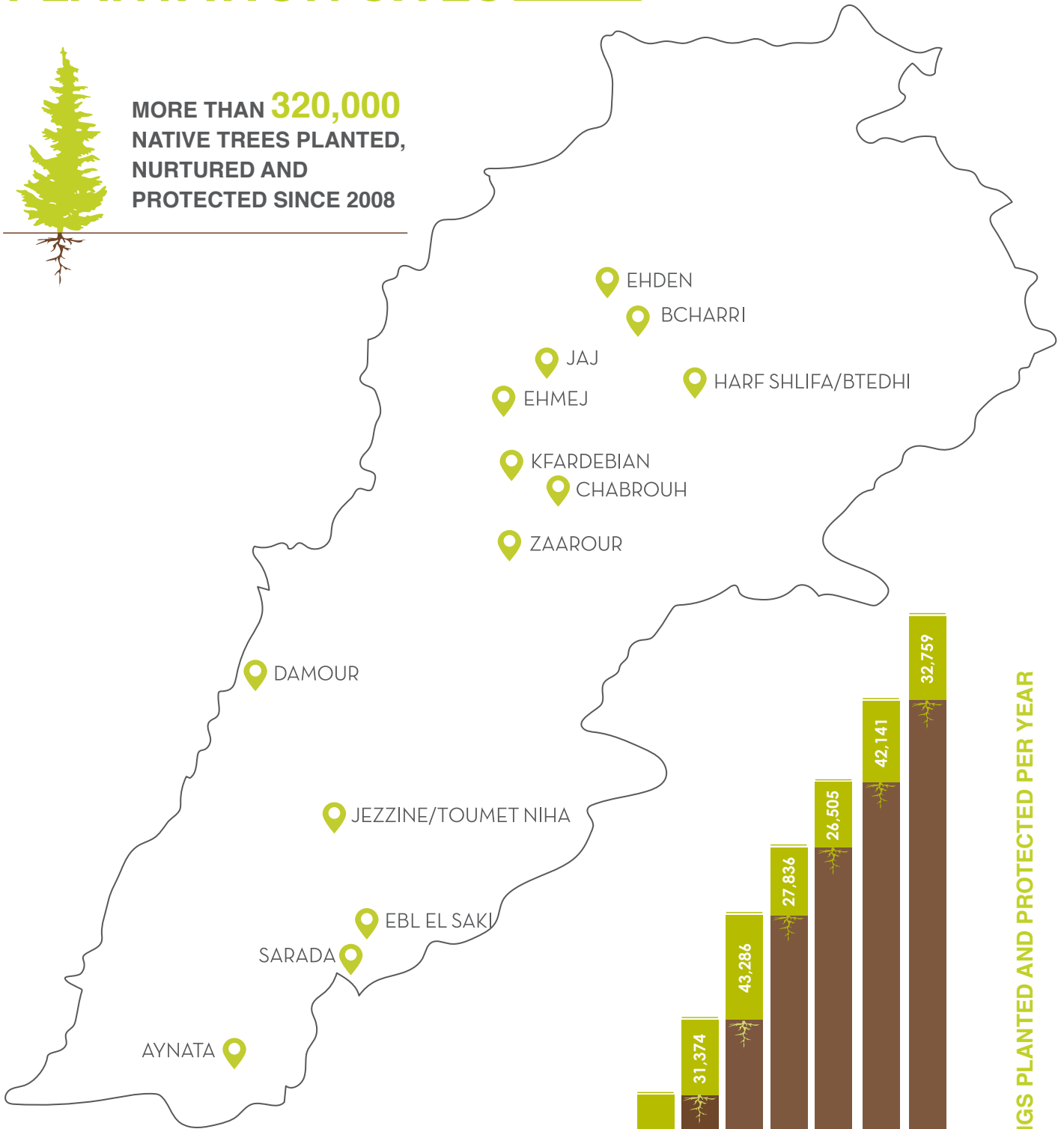




# EXPLORE OUR PLANTATION SITES



MORE THAN **320,000** NATIVE TREES PLANTED, NURTURED AND PROTECTED SINCE 2008



NUMBER OF SEEDLINGS PLANTED AND PROTECTED PER YEAR



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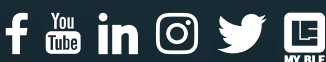
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# OUR ACHIEVEMENTS

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**PLANTED**  
≥ 320,000 TREES

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**CREATED**  
A SEED BANK LAB

which includes: over **400** seed capsules, over **300** taxa, over **70** accessions, **1,500,000** seeds.



**INITIATED GREEN**  
PROGRAMMES FOR

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AND LAUNCHED

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**ORGANIZED**  
AWARENESS SESSIONS  
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**PARTICIPATED IN AND**  
**CONTRIBUTED TO**

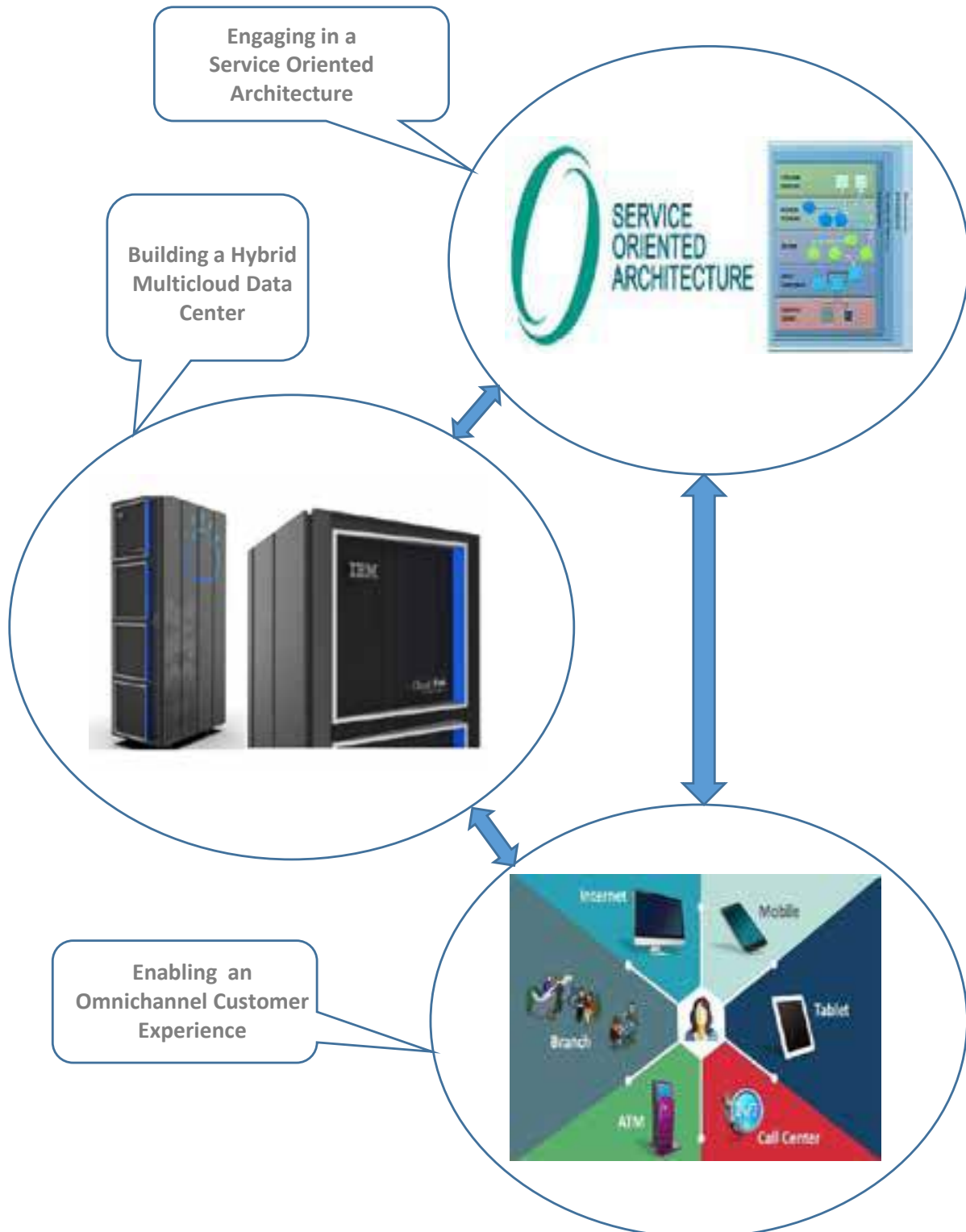
fairs, exhibitions, local and int'l workshops, seminars, local TV talk shows and radio programmes.

**ALL OF THIS WAS MADE POSSIBLE THANKS TO A TEAM OF 20 DEDICATED MEMBERS AND HUNDREDS OF DONORS, SUPPORTERS AND FRIENDS OF JOUZOUR LOUBNAN.**

SITE	SEEDLINGS PLANTED	AREA PLANTED (ha)	PERIOD OF PLANTATION
Kfardebian	174,949	300	2008-ongoing
Chabrouh - Faraya	7,884	10	2008-ongoing
Ebl El Saki	24,735	42	2012-ongoing
Ehden - Zgharta	5,600	7.1	2012-ongoing
Sarada	250	1	2017-ongoing
Jaj	712	10	2017-ongoing
Bcharre	3,005	10	2017-ongoing
Ehmej	10,300	15	2009-2016
Aynata	10,099	22.2	2010-2012
Harf Shlifa and Btedii	26,950	46.35	2011-2014
Zaarour	2,800	15	2013-2016
Balaa	100	0.5	2014
Damour	2,500	5.7	2014 & 2017
Jezzine	39,442	80	2015-2019
Other sites across Lebanon	15,648	<1	2008-2019
<b>TOTAL</b>	<b>324,974</b>	<b>570</b>	<b>11 YEARS</b>

NATIVE TREES PLANTED ACROSS LEBANON		
LATIN	ENGLISH	ARABIC
<i>Abies cilicica</i>	Cilician fir	شوح الكيليكى
<i>Cedrus libani</i>	Cedar of Lebanon	أرز لبنان
<i>Cercis siliquastrum</i>	Judas tree	زمريك
<i>Crataegus azarolus</i>	Mediterranean medlar	زعرور أصفر
<i>Crataegus monogyna</i>	Hawthorn	زعرور أحمر
<i>Cupressus sempervirens</i>	Evergreen cypress	شربين
<i>Fraxinus ornus</i>	Flowering ash	شجرة البق
<i>Juniperus excelsa</i>	Grecian juniper	لزاب
<i>Pinus brutia</i>	Calabrian pine	صنوبر برى
<i>Pinus pinea</i>	Umbrella pine	صنوبر حوي
<i>Pirus syriaca</i>	Syrian pear	اجاص بري
<i>Prunus ursina</i>	Bear plum	خوخ الدب
<i>Ostrya carpinifolia</i>	Hop-hornbeam	بندق بري
<i>Quercus calliprinos</i>	Kermes oak	سنديان
<i>Sorbus torminalis</i>	Wild service tree	غبيراء المغص
<i>Styrax officinalis</i>	Storax	حوز

## Digital Transformation Journey





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# OUR PLANTATION METHODOLOGY

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Throughout the tremendous efforts of reforestation in Lebanon aiming at restoring and increasing its native biodiversity and green landscapes, Jouzour Loubnan has been eager to explore, adopt and adapt advanced and innovative plantation techniques to Lebanon, with the ultimate purpose of providing sustainable reforestation at a reasonable cost.

Despite its small size, Lebanon grasps some of the most diverse ecosystems in the accentuated high mountains, with extreme variability in climate and soil conditions. While this diversity places Lebanon at the core of the largest biodiversity hotspot in the world, countless unmanaged and unsustainable exploitation of the natural resources (i.e., socio-economic, grazing, deforestation, wildfire, urbanization) exercised extreme pressure over the Lebanese woodland. Along with the noticeable impacts of climate change, the reforestation efforts in Lebanon face indeed a set of severe threats and constraints hindering the success and sustainability of this restoration approach.

**To optimize the reforestation techniques, Jouzour Loubnan has tried using a new technique for digging reforestation holes in Kfardebian in the 2017 planting season.**

The new technique consists of installing a spiral metallic device called post holes digger auger to a heavy-duty excavator and use it as an efficient alternative for both earth auger and hand digging. The auger is composed by a metallic spiral able to pivot and has different sizes in diameter (20 – 30 cm) and length (60 – 100 cm) and very resistant to frame to connect it to the power equipment.

In term of efficiency, the comparison between the excavator auger and the earth auger showed an evident dissimilarity. In fact, unlike the hand auger that regularly needs fuel changes during a working day, the excavator can work for 8 hours in a row and can open a planting hole in less than 30 seconds comparing to the 5 minutes needed for the hand auger and the traditional hand digging using spades and hoes.

On the other hand, the use of excavator in reforestation practices can cope with the site topology constraint that may block the access of worker to some suitable reforestation spots, and it also eases the digging regardless of the type and structure of soils. Another main advantage is in the quality of the dug hole by excavators comparing to the hole done by traditional methods. The easily reached 60 cm depth is beneficial to the seedlings sowing because it ensures better soil conditions for root growth, better water draining to the roots, and additional water storage. In terms of cost, it allows saving workforce and fuel consumption. A 1-day excavator can replace 8-man days.

The results are proved by the higher survival rates noted in the plantation site of Kfardebian.

Additional observation will be evaluated after 2 growing seasons to confirm the accuracy of the noticed results.







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# CORPORATE SOCIAL RESPONSIBILITY

SITE	PARTICIPANTS	DATE	NUMBER OF PARTICIPANTS
Chabrouh	Amex	July 28, 2018	20
Kfardebian	A&C Moussa	October 31, 2018	15
Kfardebian	Nestlé	November 1, 2018	10
Ebl El Saki	L'Occitane en Provence	December 3, 2018	15



Amex



A&C Moussa



Nestlé



L'Occitane en Provence





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straining to win the sky*

*Antoine de Saint-Exupéry,  
The Wisdom of the Sands*



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# PLANTATION DAYS

SITE	PARTICIPANTS	DATE	NUMBER OF PARTICIPANTS
Jezzine	CTI - Horsh Tabet	April 14, 2018	36
Kfardebian	Beirut Evangelical School for girls and boys - Rabieh	November 2, 2018	67
Jezzine	Bazzi Family in memory of Mohammad	November 3, 2018	100
Kfardebian	Public plantation	November 4, 2018	100
Kfardebian	Notre Dame Louaize - Faytroun	November 8, 2018	60
Jaj	Collège des Soeurs des Saints-Coeurs Bauchrieh	November 9, 2018	78
Kfardebian	Ecole Notre Dame de la Paix - Dora	November 10, 2018	20
Kfardebian	جمعية رحة تجمع - رحة عكار - Children Cancer Center	November 16, 2018	5
Jezzine	Scout Notre Dame de Louaize with Lebanese Army Forces	November 18, 2018	100
Jaj	Scout NDA Sabtieh with Lebanese Army Forces	November 18, 2018	100
Kfardebian	International College	November 19 - 29, 2018	200
Kfardebian	CTI School	November 27, 2018	86



CTI - Horsh Tabet



Beirut Evangelical School for girls and boys - Rabieh



Bazzi Family in memory of Mohammad



Public plantation



Notre Dame Louaize - Faytroun



Collège des Soeurs des Saints-Coeurs Bauchrieh



جمعية رحبة تجمع - رحبة عكار - Children Cancer Center



Scout Notre Dame de Louaize with Lebanese Army Forces



Scout NDA Sabtieh with Lebanese Army Forces



International College



CTI School



# S.A.L.M.A REFORESTATION PROJECT IN JAJ VILLAGE

**REGION:**  
Cedars Nature Reserve, Jaj

**TREES:**  
16,650 Cedrus libani

**SEEDS:**  
16 kg of Cedrus libani

**AREA:**  
20 hectares

**DATE:**  
January 2019 – October 2021



“Smart Adaptation of Forest Landscapes in Mountain Areas (SALMA)” is a five-year project implemented by the Food and Agriculture Organization (FAO) in Lebanon, in collaboration with the Ministry of Agriculture and funded by the Global Environment Facility (GEF) with a budget of USD 7,147,635.

## SALMA'S MAIN OBJECTIVE:

Enhance the resilience of vulnerable rural communities and their livelihoods in mountain areas through:

- Reduced soil and water erosion
- Forest fire prevention and control
- Pest management
- Diversification of livelihood income and improved adaptive capacity of these communities

## SALMA'S MAIN OUTPUTS:

- 1,000 Hectares of forests restored through sustainable forest management
- 750 Hectares restored through reforestation/afforestation
- Green and sustainable jobs supported and promoted in more than 16 vulnerable localities
- Reduced vulnerabilities and increased adaptive capacities to climate change in target areas



- Monitoring and information system developed (Forest and tree resources assessment; C&I)
- Training and capacity building provided to different partners (MOA, NGOs...)

Jouzour Loubnan has selected for this project in Jaj Cedars Nature Reserve since been known for its old cedars of several hundred years, rooted in rocky masses. It was created to conserve landscapes, plant and animal species, and particularly threatened, rare or unique species, their habitats, biological balances, and ecosystems, as well as biodiversity that faces degradation, pollution, and risk of extinction.

It constitutes a high potential ground to accomplish a multi-purpose reforestation initiative in line with the 40 million trees program launched by the Lebanese Government in December 2012 and steered by the Ministry of Agriculture to plant 40 million forest trees in Public lands within the 20 years.

Jouzour Loubnan has already worked in close collaboration with the local authorities and municipalities of the Mount Lebanon region. These initiatives have been a great success, and they have left a positive impression and a deep sense of gratitude from the local community.





# JEZZINE REFORESTATION PROJECT

**REGION:**  
Toumet Niha, Jezzine

**SEEDLING PLANTED**  
39,442

**AREA:**  
80 hectares planted on a municipal land

**DATE:**  
August 2014 – March 2019



Jouzour Loubnan announced on Friday May 10, 2019 at the Jezzine Municipality hall the completion of the Jezzine Reforestation Project.

Ensuring the sustainability of this project and conserving the trees planted is the most important mission. Thus, Jezzine municipality has endorsed and owned the project and will protect and maintain it beyond the project's financing. Also, the municipality, with Jouzour Loubnan's assistance, will manage to declare Toumet Niha - Jezzine as an official Lebanese nature reserve.

The success of this reforestation project resides through three interconnected goals:

**1 |** Increase the woodland area and participate in the restoration of its degraded high mountain eco-system in close partnership with the Municipality of Jezzine. Broadleaves trees are the most well-developed and well-adapted species to the plantation site.

**2 |** Empower the Municipality of Jezzine and the local community to protect, manage, promote, benefit from the project. For that, Jouzour Loubnan organized six workshops and capacity building training on:

- How to promote viable ecotourism for municipalities
- Fire prevention and the importance of weeding

- Elements of successful management of a reforestation project
- Site monitoring with a reforestation management workshop
- Geographic Information System (GIS) mapping
- Communication strategies in reforestation

**3 |** Promote environmental awareness by sensitizing the youth and locals to preserve their newly planted forest. Jouzour Loubnan organized nine plantation activities with more than 300 people and four local awareness sessions with more than 400 students at Jezzine.

It is thanks to the Lebanese Army, the Lebanese Mine Action Center, the Union of Municipalities of Jezzine, the Municipality of Jezzine, the Jezzine Police, the people of Jezzine and Ain Majdalain, who played a significant role in the success of the project.

This project was executed in partnership with the Ministry of Agriculture within the framework of the 40 million-tree programme, under the EU Agriculture and Rural Development Programme (ARDP) and was co-financed by the European Union and Jouzour Loubnan.



Project co-funded by the European Union





02

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**PLANT  
WITH A  
SCIENTIFIC  
BACKGROUND**



# ENTER OUR LABORATORY

**Our mission is based on solid scientific research.** In partnership with the Faculty of Sciences at the Saint Joseph University, we have created the Biodiversity

Conservation Initiative with a main purpose to save Lebanon's biodiversity by restoring degraded ecosystems and conserving its threatened species.



**SEED BANK**



**SEED GERMINATION**



**RARE & ENDEMIC SPECIES CONSERVATION**



**FIELD ASSESSMENTS**



**ECOLOGICAL RESTORATION**



**HERBARIUM**



**DNA REFERENCE LIBRARY**



**GENOMIC PLANT CHARACTERISTICS**



**TRAINING & TUTORING**



Seed germination



Field assessment



*Glaucium leiocarpum* species from Kurnes Saudae

- The Jouzour Loubnan seed bank contains:

Over **400** seed capsules

Over **300** taxa

Over **70** accessions

Over **1 500 000** seeds present

- A new herbarium preparation section was opened in the lab containing over **100** conserved samples

- Definition of new Germination protocols this year focused primarily on regional and strict endemic species, over **20** new protocols were defined (to note a few: *Origanum libanoticum*, *Ornithogalum libanoticum*, *Pancratium maritimum*, *Cyclamen libanotica*, *Iris antilibanotica*...)

- Over **500** seedlings were handled this year

- Important focus on-field activity, reaching seed stocks from new locations like **Kurnet Es Sauda, Anjar, and Tyr**

- The Jouzour Loubnan Seed Bank this year had a significant number of trainees (**over 20**) who participated in the elaboration of the germination protocol for the *Styrax officinalis* species, and pollen measurement for the *Juniperus* species



Students training



*Ornithogalum libanoticum* seedling



*Astragalus berytheus* first germination protocol



*Pancratium maritimum* first germination

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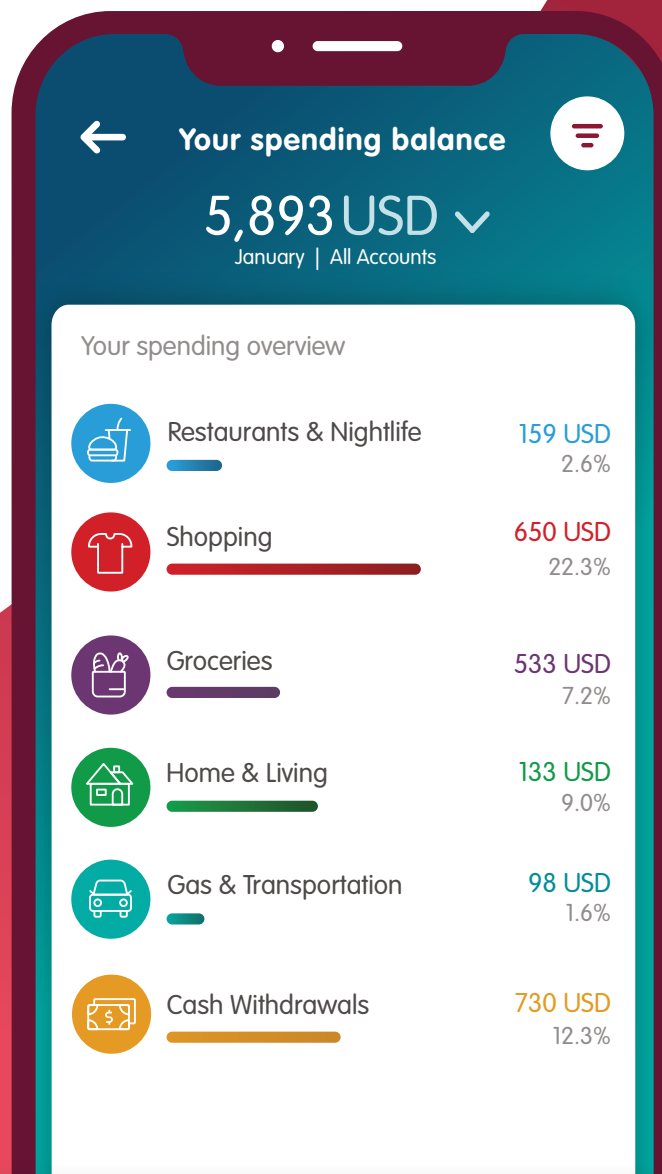
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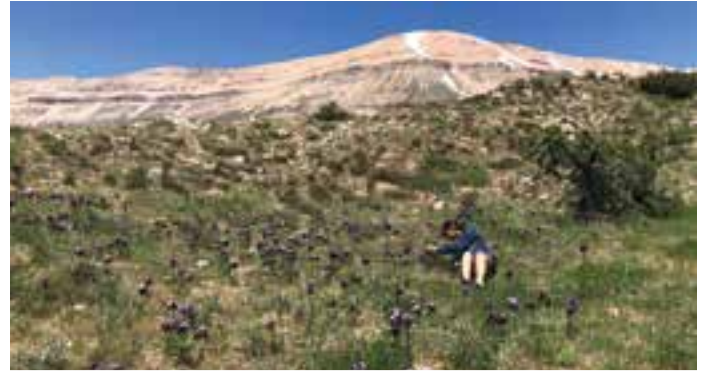




# LEBANON: ENVIRONMENTAL AND CULTURAL REFUGE



Anjar site will host *Iris antilibanotica*



*Iris cedretii* blooming at the highest peak in Mount Makmel



Collection of endemic species for the Herbarium



Reinforcement of *Iris bismarckiana* in Sarada in its natural habitat

Under the framework of the programme entitled “Conserving and Valorizing the Unique Botanical Heritage of Lebanon” funded by the Critical Ecosystem Partnership Fund (CEPF) and implemented by the Saint Joseph University of Beirut (USJ), this project offers different approaches focused on the conservation of endemic, threatened and rare species.

The project aims to support for the management of the nature reserves of Horsh Ehden, Jabal Moussa Biosphere, and Jaj Nature Reserve.

The first aspect of species conservation is to study the dynamics of the population from different endemic target species present in the above-mentioned protected areas. This information is crucial to understand each species better and to elaborate a management plan focused on the preservation of such endemic species.

The second aspect is the implementation a *circum-situ* conservation, in archeological sites, of endemic species present nearby these places under their legal status as protected areas.

Archaeological sites are protected areas that can integrate the conservation of endemic plant species into their management plan. This innovative approach is quite promising in Lebanon and in the region where the archaeological sites are numerous and well distributed over all the bioclimatic zones.

We know now precisely where and which species to focus our efforts to start implementing the conservation actions.

A reintroduction into these sites from *ex-situ* genetic resources, some endemic plant species compatible with the presence of ruins and belonging to the same bioclimatic zones will be implemented. These are herbaceous species (geophytes) without a deep root system.

These introductions will have two objectives:

**1** | the conservation on already protected sites of these plants species which would not require constraining maintenance since they would develop under the same abiotic conditions as their place of origin and;

**2** | the awareness of the general public and local community about these endemic plants that are an integral part of our cultural heritage.

In Lebanon, archaeological sites are linked to the Directorate General of Antiquities (DGA). This institution, under the supervision of the Ministry of Culture, works closely with the Ministry of Tourism.

The areas where these plants will be reintroduced will be agreed in partnership with the managers of the DGA, under their responsibility. The most sensitive areas will be avoided: in particular, only embankment areas, areas already excavated, and areas, where no sensitive cultural property is present, will be affected.

**Rhea Kahale – MS**  
Biodiversity Conservation Initiative – Lebanon  
Faculty of Science USJ - Jouzour Loubnan



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# STUDYING ECOSYSTEMS USING DNA METABARCODING

The pilot project led by Saint Joseph University in Beirut in collaboration with Jouzour Loubnan initiated by Pr. Bou Dagher Kharrat aims to support the ecosystem's restoration projects at the national level.

Knowing what each animal species eats and through which animal species each plant disperses its seed, is crucial to understand the structure and the dynamism of an ecosystem. The analysis of food webs and the elucidation of species interactions facilitate the understanding of the ecosystem's functioning and consequently allows restoring it.

Although ancient identification techniques such as trapping, visual analysis, and camera trapping methods require intensive work and often lack resolution, recent DNA-based approaches are potentially considered most accurate for species inventories and dietary studies.

DNA metabarcoding is a universal system based on a small fragment of DNA called "DNA barcodes" that allow species discrimination. It can be applied to multiple applications, including biodiversity monitoring, animal diet assessment, reconstruction of paleo communities, food authentication.

In our project, we used this multi-specific approach to identify Lebanese mammals and their diet throughout the year during the four seasons using a non-invasive sampling methodology based on scat analysis.

The results of our study are auspicious for Lebanon and the eastern Mediterranean region.

Since Lebanon's biodiversity is endangered, the results will help managers elaborating restoration and conservation projects to promote wildlife and to protect endemic and threatened species.

The generated information could be used as a support tool for other ecosystems restoration and reference projects to restore degraded forests and to protect our country's biodiversity.

This project is in collaboration with the Smithsonian institute in Washington DC.



**Liliane Boukhoudou – PhD student**  
Biodiversity Conservation Initiative – Lebanon  
Faculty of Science USJ - Jouzour Loubnan



# THE GUARDIAN OF HIGH MOUNTAINS

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*Juniperus polycarpus*, Wadi El Njaas, Dannieh

Maybe you are asking yourself who is the guardian of high mountains. Who can tolerate the harsh climatic conditions of those locations?

Those guardians are trees from the genus “*Juniperus*” we call it in Lebanon “Lezzeb.”

*Juniperus* are evergreen trees and shrubs that can reach 20m in height. They are long-lived trees that can live for more than 2000 years. In Lebanon, there are five *Juniperus* species, *J. excelsa*, *J. polycarpus*, *J. oxycedrus*, *J. drupacea*, and *J. foetidissima*.

Juniper forests are found at high altitudes on the two Lebanese mountain chains “Mount Lebanon and Anti-Lebanon” from 1000m till 2900m. Those trees are considered as one of the essential features of the Lebanese forests due to its high tolerance to the harsh environment such as drought, a wide range of temperatures and low nutrient substrate.

Their great adaptation to extreme environmental factors gave *Junipers* high plasticity towards habitats, wherein some locations any other tree cannot live. *Junipers* constitute an important integrated natural system; it is the home and nutrient source for many birds and animals, its rooting system protects the soil from erosion and interacts with the soil microorganisms.

For all those reasons, Junipers have received close attention for reforestation and ecological restoration activities such as in Iran, Turkey, and Lebanon. In the frame of my doctorate thesis accomplished at Saint Joseph University of Beirut (Lebanon)

and Paris Sud University (France), I studied the genetic characteristics of *Juniperus*, and our results showed that this genus is exceptional compared to other conifers. Those genetic features might be one of the important reasons giving juniper trees their high adaptation to extreme environmental factors. Our results will enhance the knowledge of the exceptional genetic composition of *Juniperus* and will help the foresters and the scientists working on the ecological restoration to use wisely this species in their restoration activities.

Please visit those references for more information on our discoveries in the world of *Juniperus*;

Perla Farhat, Oriane Hidalgo, Thierry Robert, Sonja Siljak-Yakovlev, Ilia J. Leitch, Robert Adams and Magda Bou Dagher Kharrat (2019): Polyploidy in the conifer genus *Juniperus*: an unexpectedly high rate, *Frontiers in Plant Science*, DOI: 10.3389/fpls.2019.00676.

Perla Farhat, Sonja Siljak-Yakovlev, Robert P. Adams, Magda Bou Dagher Kharrat and Thierry Robert (2019): Genome size variation and polyploidy in the geographical range of *Juniperus sabina* L. (Cupressaceae), *Botany Letters*, DOI: 10.1080/23818107.2019.1613262

**Perla Farhat – PhD**  
Biodiversity Conservation Initiative – Lebanon  
Faculty of Science USJ - Paris Sud University -  
Jouzour Loubnan









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mtv



# APPLYING DNA BARCODING TO ILLUMINATE LEBANESE BIODIVERSITY

The Mediterranean Basin constitutes Hotspot biodiversity representing 0.3% of the world's biodiversity. Lebanon is considered to be an essential site in this basin, with 9,116 characterized species in total (4,486 for fauna and 4,630 for flora from which 91 are endemic). Significant gaps, however, exist for Fungi, Lichen, Insects, Bryophytes, and Pteridophytes characterization.

Public platforms featuring Lebanon's biodiversity are poor and sporadic. This is mainly due to the lack of funding needed to expand this taxonomy.

iBOL (International Barcode of Life) is a research alliance involving nations that have committed both human and financial resources to enable expansion of the global reference database, the development of informatics platforms, and/or the analytical protocols needed to use the reference library to inventory, assess and describe biodiversity.

Thus, iBOL is the largest genomics initiative in biodiversity that aims to create a digital identification system for living species based on DNA sequences, Barcodes. The coding tool was developed by Dr. Paul Hebert-University of Guelph, Canada, who is hosting and developing this project, which now includes more than 32 countries.

Saint-Joseph University is coordinating the involvement of Lebanon as a National Node in iBOL via its instigator Pr. Magda

Bou Dagher Kharrat-President of Jouzour Loubnan by involving leading researchers involved in DNA barcoding (BIOSCAN project) and representatives of key organizations supporting the discovery and protection of Lebanese biodiversity.

iBOL initiative will provide us with the opportunity to create our reference library for mammals, insects, and plants in Lebanon, especially the endemic ones using DNA barcoding.

Carole Saliba and Liliane Boukhdoud from Pr Kharrat's laboratory has participated in the "8th International Barcode of Life conference" that took place in Norway from 17-20 June 2019. In the framework of this collaboration, Carole Saliba, Edy Haoui and Pierre Malichev spent one month training at the University of Guelph-Canada this summer (July 2019) to understand the barcoding process and to help expand our reference library by the acquisition of detailed temporal and spatial information on insects from Malaise Traps using DNA barcoding technic.

Using barcoding for species identification will help us understand the biodiversity of our country's ecosystems and expand our database applying this method on other taxonomic groups.

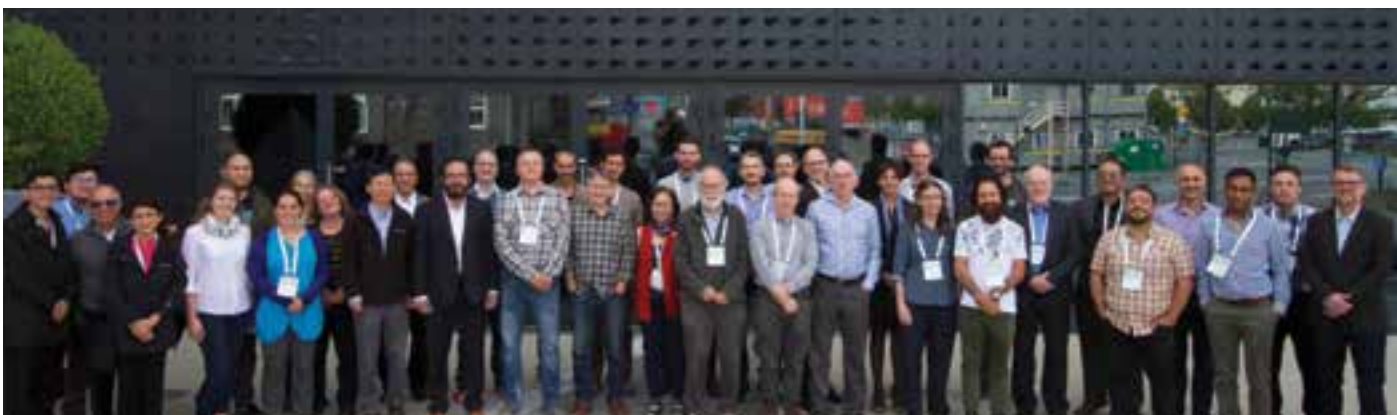
**Carole Saliba – MS**  
Biodiversity Conservation Initiative – Lebanon  
Faculty of Science USJ - Jouzour Loubnan



Studying Lebanese Insects Biodiversity, University of Guelph-Canada



USJ Participation in the 8th Barcode of Life conference. From left to right: Liliane Bou Khdoud, Magda Bou Dagher Kharrat and Carole Saliba



Members of the iBOL consortium of 27 countries (Lebanon representative: Magda Bou Dagher Kharrat-FS USJ and president of Jouzour Loubnan) meeting at the Centre for Biodiversity Genomics- Trondheim, Norway, July 2019



# IS CLIMATE CHANGE AN EMERGING RISK FOR *CEDRUS LIBANI*?



Cedar forest of Horsh Ehdén Nature reserve



Extracting a core from the cedar trunk to study growth rings

## How is our beloved Cedar growing with the increasing drought and a decline of precipitations in the Levant during the 20th century as a result of Climate change?

Is *Cedrus libani* growing better at low or at high altitudes in Lebanon? Does it prefer the northern, the mid or the southern parts of Mount Lebanon range? Are humid western slopes and dry eastern slopes the same for Cedar growth?

To answer all of these questions, we have conducted a “dendrochronological” study to assess the radial growth of *Cedrus libani* within its ecological niche, i.e., natural habitat, in Lebanon.

What do we mean by “dendrochronology” and “radial growth”? Dendrochronology is the dating and study of annual growth rings resulting from radial tree growth or enlargement of a tree trunk (dendro = tree, chronos = time, & logos = science). Each “Annual growth ring” represents a single yearly flush of growth which begins in the spring and ceases in the summer or early autumn. One ring is produced every year; that’s why we count tree rings on wood stamps to determine the age of trees.

Tree growth is frequently affected by variations in climates, and the yearly sequence of favorable and unfavorable climate (wet and dry or warm and cold years) is faithfully recorded by the sequence of growth rings during the lifetime of trees growing in a given geographic region. Thus, tree rings are considered as natural archives of trees’ histories. When examined closely, wide rings indicate optimal growth (moist, abundant resources), whereas narrow rings reflect restricted growth (drought, heat, competition). After assigning a calendar year to each identified ring from all trees sampled in a forest, tree ring width and climate

relationships (precipitations, temperature) are established, and trends in radial growth over long periods of time are built.

This pioneer study initiated by Dr. Rana El Zein in 2019, is a collaborative work between the Faculty of Sciences at Saint Joseph University of Beirut (USJ) and the National Institute for Agronomic Research “INRA” (France). We have assessed all the known natural forests and stands of Cedar from its Northern expansion in Lebanon (Akkar) to its southernmost limit in Lebanon and the world (Niha, Shouf), sampling thus 17 forests and 439 trees (May 2018 to July 2019). The sampling consisted of extracting wood cores from the trunk, using an increment borer.

The close study of growth rings of sampled cedar trees will demystify the trends of radial growth for *Cedrus libani* over the last century and will detect any potential risk of forest decline due to climate change. In fact, tree growth is an indicator of tree vitality (health). Declining radial growth is linked to forest decline and mortality, the imminent risk for drought-prone forests throughout the world in a drastically changing climate.

The findings of the study are important for Jouzour Loubnan and will be used at national level as guidelines for reforestation and conservation policies of Lebanon Cedar to ensure proper management of cedar forests and the sustainability of reforestation projects.

**Rana El Zein – PhD**  
Biodiversity Conservation Initiative – Lebanon  
Faculty of Science USJ - Jouzour Loubnan



Wide and narrow rings of a cedar core indicating growth patterns during the lifetime of the tree







# INTERNATIONAL SUMMER SCHOOL: TREE RINGS, CLIMATE, NATURAL RESOURCES, AND HUMAN INTERACTION AT CHERYOMUSHKI, KHAKASSIA, RUSSIAN FEDERATION

Tony Chahine, Jouzour Loubnan's Project Manager, enrolled at the International Summer School Tree Rings, Climate, Natural Resources, and Human Interaction organized by the Khakass Tree Ring Research Laboratory, Siberian Federal University and the Laboratory of Tree-Research in the School of Natural Resources and Environment at the University of Arizona, Tucson, USA, August 2018.

In this course, twelve participants from 8 different countries were introduced to techniques of dendrochronology and conducted practical training sessions in using new methods. The instrumental and proxy records (tree-ring chronologies) were used to place the climatic conditions faced in the management of trees, water, livestock, indigenous herbivores, and people and their needs in a proper long-term perspective. By understanding climate variability through time, managers and planners will be able to reduce the risk of failure in training the anticipated outcomes because of the changing characteristics of the climate.

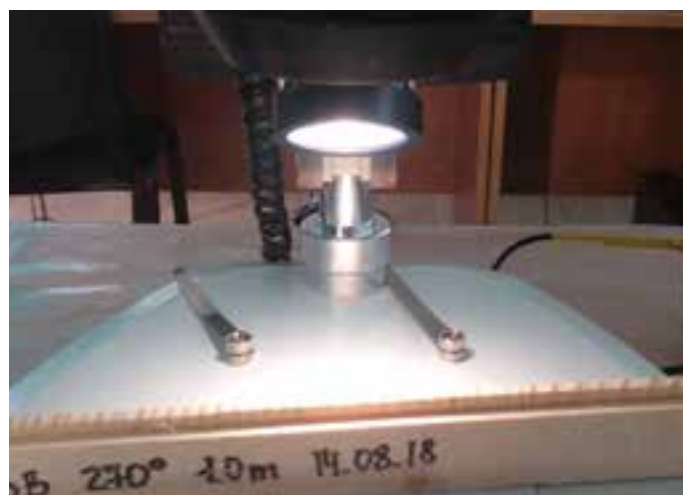
The interactions between participants at the summer course spurred the research activities that lead to the more sustainable development of natural resources in Russia, surrounding countries, and in the Mediterranean region and also have introduced students to dendrochronological techniques that may apply to any climate reconstruction and environmental management.

These interactions will also increase the likelihood of future collaboration of researchers in Europe, the Russian Federation, USA, China, and the Mediterranean countries. This course, in particular, strengthened the participants'

capability to directly apply dendrochronology in natural resources, hydrology, climatology, anthropology, archeology, and other fields in which improved knowledge of environmental variability is essential.

This fruitful summer course will help us to enhance and fortify our knowledge in the field of Dendrochronology in Lebanon since the laboratory of Jouzour Loubnan newly conducted a Dendrochronological study with a collaboration between the Faculty of Sciences at Saint Joseph University (USJ) and the National Institute for Agronomic Research "INRA" (France).

**Tony Chahine – MS**  
Jouzour Loubnan  
Biodiversity Conservation Initiative – Lebanon



Systemic way of marking years using a stereomicroscope.



Counting rings using a stereomicroscope.



Cross-dating and identification of common ring width patterns.



Sampling day at the Krasnoyarsk Siberian forest.





03

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**PROMOTE  
ENVIRONMENTAL  
AWARENESS**

# AWARENESS OUTREACH

Reaching thousands of students, scouts and Lebanese citizens.

AWARENESS SESSION	DATE	AUDIENCE REACHED
USJ - Sciences Humaines	October 20, 2018	20 students
Scout Notre Dame de Louaize	October 20, 2018	20 scout chiefs
Val Père Jacques School	November 7, 2018	120 students - 6 classes EB7
CityMall - Independence Day	November 10 to 22, 2018	Thousands of customers
Antonine Sisters School - Roumieh	November 13, 2018	89 students - secondary classes
Collège des Filles de la Charité - Zouk	November 15, 2018	120 students - CM1 classes
Institut Père Michel Khalifé	December 5, 2018	52 students - grades 8, 9, 10 and 11
Rotary Youth Leadership Awards (RYLA)	January 11, 2019	Youth Rotarians
Deutsche International Schule Beirut	February 5-7, 2019	90 students - grade 4
Lebanese International School - Rachaya Al Wadi	March 26, 2019	150 students - grade 7 and grade 8
Lycée Franco-Libanais Verdun	April 17, 2019	120 students - grade 10
Collège Melkart	May 12, 2019	150 students
Lebanese Scout Association Zahle 3	May 25, 2019	50 scouts members
European Union Green Day	June 15, 2019	Hundreds of participants
Faculté de Médecine Dentaire - USJ	June 23, 2019	100 participants
سبت بعلبك الثقافي - Sabt Baalbeck	June 23 to July 6, 2019	Thousands of attendees
Stay Safe - Planet Earth Event	July 20 and 21, 2019	100 participants



USJ - Sciences Humaines



Scout Notre Dame de Louaize



Val Père Jacques School



CityMall - Independence Day





Antonine Sisters School - Roumieh



Collège des Filles de la Charité - Zouk



Institut Père Michel Khalifé



Rotary Youth Leadership Awards (RYLA)



Deutsche International Schule Beirut



Lebanese International School - Rachaya Al Wadi



Lycée Franco-Libanais Verdun



Collège Melkart



Lebanese Scout Association Zahle 3



European Union Green Day



Faculté de Médecine Dentaire - USJ



Stay Safe - Planet Earth Event





# OTV

الهوا نقى... مثل هوانا



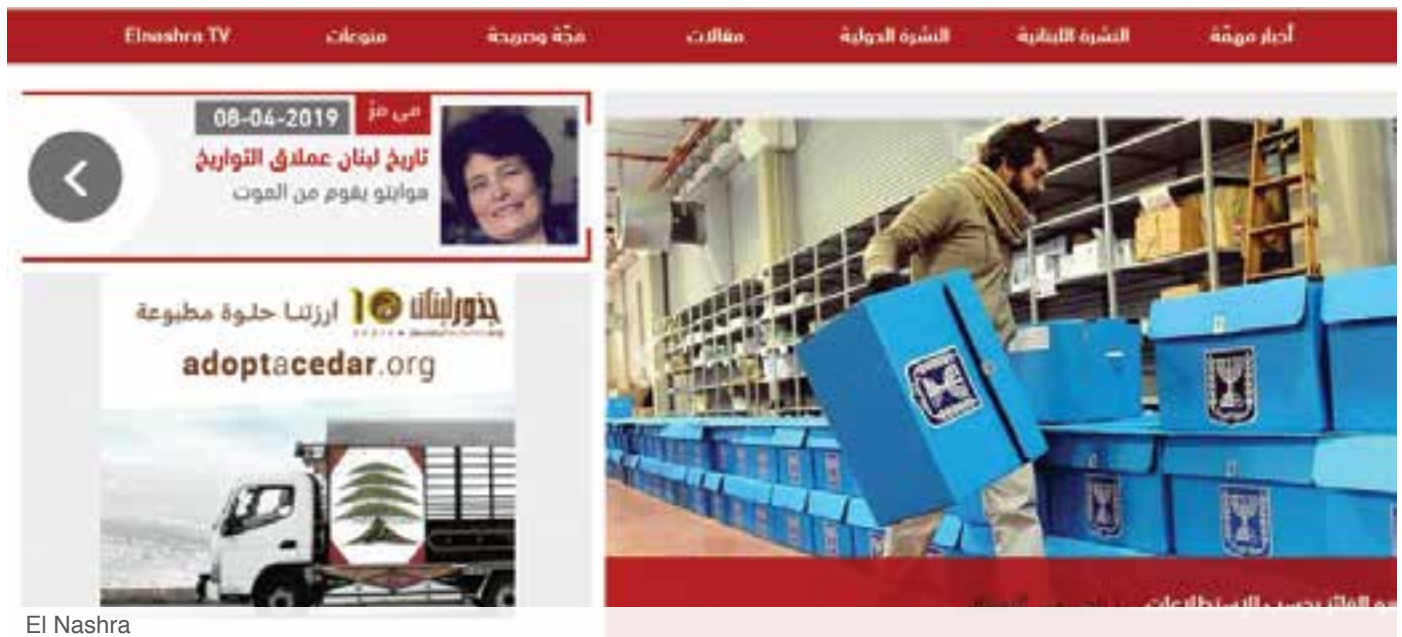
العوافي

22.30

sunday



# IN THE MEDIA



El Nashra



Radio Liban Libre - بلديتي بلدي



National Outdoor Awareness Campaign



TF1



National Outdoor Awareness Campaign



# GETTING INTO THE GREEN SCENE

If environmental causes are important to you, show your support by volunteering with these organizations.



## GREEN GLASS RECYCLING INITIATIVE LEBANON (GGRI)

Launched by Cedar Environmental, GGRI collects unwanted glass and amber glass packaging, mainly used for beer bottles, and repurposes them to make colorful, functional art pieces and tableware, such as water jugs. Since the initiative began five years ago, over 275 tons of glass have been recycled, which equates to around one million bottles. "All proceeds from the sale of these glass items goes back into the program to provide more work for the glass-making artisans," says Cedar Environmental's Chad Aidi Odeh. "The glassmakers of Lebanon have had more work in one year making GGRI products than they have had for the last five years combined."

## LIVE LOVE RECYCLE

Live Love Recycle began operating in April 2016, creating its mobile application users to send their recyclables with a direct to Amazon at no fee. From August 2016 until now, the application has been downloaded over 12,000 times. More than 7,000 people are recycling regularly and that's a very positive sign for us," says George Blass, the initiative's founder. "We plan on extending our reach beyond Beirut and recycling the range of items we are able to accept. There is a recycling factory opening within a year in the Bekaa, one that's big enough to process recyclables such as glass and batteries. It will be an interesting step forward."

## SAVE KfarABIDA

Lebanon's coast is one of the top destinations for beachgoers, but with the marine cities hitting the headlines, the youth of Kfarabida are taking it upon themselves to protect the marine life and keep the beaches clean.

"We've always worked on raising awareness and organizing campaigns, this is the best way to protect our shores. We need to focus on working with programmers, to bring in more to night, educating them on marine life and biodiversity. We've also been trying to work with the municipality to start implementing recycling bins on our shores to encourage people to dispose of their litter properly," says Cassi of Beauty, co-founder of Save Kfarabida. "Our problem stems from two sources: lack of public awareness and lack of supervision from the government."

#savethebeach

## JOUZOUR LOUBMAN

Lebanon's tourism sector is recovering and will largely maintain its appeal, but one sector is still struggling: the tourism industry. It's a challenge with various weather conditions, lack of water, poor cell quality and connectivity. To date, they've planted over 200,000 native trees, Tony Odeh, Jouzour's co-founder, explains. "We use various-based equipment that take into account all factors, such as soil type and quality, and precipitation levels to determine which plants should be planted in which area and follow up regularly to make sure they are thriving." The initiative also works on organizing communities and individuals through different programs such as their Adopt a Lake program.

TV @NBS, @jouzourlebanon, @adoptionking

## OPERATION BIG BLUE ASSOCIATION

With recent environmental challenges posing serious to Lebanon's coastline, Operation Big Blue Association has made it its mission to make sure the beach stays clean and the marine life remains stable.

"When the Lebanese did not, we had coastline incidents, getting into the sea as well as dead marine life that we were encountering during every day," says Odeh, president of the association. Some of Operation Big Blue's biggest achievements include writing a petition to prevent the use of plastic bottles on the beach, starting with cleaning of the beach, as well as providing first aid to endangered marine life such as sea turtles. "We are working on ending the opening of coasts into the sea, which is easier than people think it is, but we're currently challenged by the absence of will from the political sphere and a need for greater awareness."

#bigblue4lebanon, @operationbigblue

## GREENBERRY BIOGAS

GreenBerry is a company that is pushing another concept of sustainable energy: waste to energy. Through their biogas digesters, GreenBerry turns waste such as food scraps, animal manure and biomass into a biogas that can be used to generate electricity or heat and a liquid fertilizer that can be used for plants. "By producing our own gas through the digester, we're successful in doing one job fully by 75 percent," says Hady Haddad, founder of GreenBerry. "We're not done in the cost of waste transportation and we're the organic waste stream from us as well as just as well as doing wildlife recycling through our track loop and adding a new."

#144337, @greenberrylbn

Lebanon Traveler Issue 25



Future TV - Aalam el Sabah



MTV Alive

# ON SOCIAL MEDIA









# OUR LEBANESE DIASPORA

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Bcharri, June 2019



Jouzour Loubnan office, August 2019

## THE NATIONAL FEDERATION OF SYRIAN LEBANESE AMERICANS

The National Federation of Syrian Lebanese Americans is a non-political network of social and heritage clubs, representing the best interests of its component Federations: The Southern and Midwest Federations.

During their trip to Lebanon in June, the National Federation was honored in a ceremony by the mayor of Becharri and by the Lebanese Department of Tourism with the planting of 10 Cedar trees in their names.

## SOCIEDAD LIBANESA DE ROSARIO - ARGENTINA

The city of Rosario in Argentina had a thriving group of Lebanese who had emigrated at the end of the 19th and early 20th centuries.

The Lebanese Society of Rosario, for decades, has developed an important flow of activities, in its various areas. Each of them, focused in only one direction, has achieved the foundational objective of spreading the Lebanese cultural legacy as it does in each National Meeting of Communities.

A partnership was agreed, and cedar tree adoptions will be done in the name of the Lebanese community in Argentina to help us fulfill our lifetime mission.



Holy Spirit University of Kaslik, August 2019



BIEL, June 2019

### THE MARONITE FOUNDATION IN THE WORLD

The Maronite Academy is an initiative, undertaken by the Maronite Foundation, aimed at introducing young Lebanese immigrants around the world to their country of origin, Lebanon.

During their stay in Lebanon, the candidates got to bond with their roots and got further in touch with the history of Lebanon and the Maronite Heritage through various site visits and seminars, given by prominent figures.

A Cedar tree is now planted and adopted in the name of each of these selected candidates.

### LEBANESE DIASPORA ENERGY EVENT - LEBANON

The Lebanese Diaspora Energy (LDE) seeks to showcase the success stories of select Lebanese residents and expatriates and motivate them to stay connected while celebrating the Lebanese heritage and promoting the positive image of Lebanon around the world.

The event enabled influential Lebanese residents to meet thousands of leading Lebanese key players and decision-makers from the Diaspora, and share investment opportunities in Lebanon and abroad, as well as ideas for better management of Lebanon's assets.



#IWALKEDTHELOOP

يا Hike يا بَلَّا



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# OPERATION 7ÈME JOUR



Appel du Pr. Bou Dagher Kharrat aux anciens de l'USJ pour participer aux efforts de reboisement à travers l'Opération 7ème Jour.

Chers Alumni,

Le réseautage est devenu incomparablement puissant dans notre société. Notre réseau se tisse, s'enrichit et se développe avec le temps et devient un ancrage à partir duquel on peut s'élever et rayonner.

Ceci dit, le réseautage n'est pas l'apanage de la société humaine!

N'avez-vous jamais perçu l'acte de planter comme un acte de connexion d'un arbre à la nouvelle forêt ? En effet, les arbres ont un réseau sophistiqué et interconnecté qui existe sous terre. C'est par le biais de ce réseau fait de racines et de micro-organismes que les arbres communiquent et s'entraident. La sagesse des arbres mères, leur expérience à combattre les parasites, à résister à la sécheresse et au froid... Cette mémoire est transmise à la génération suivante à travers ce réseau. La résilience de la forêt dépend de cette richesse et cette hétérogénéité.

Telle est notre communauté USJ. Notre résilience réside dans notre diversité et dans notre réseau de connexion. Nous sommes un rassemblement de jeunes et de moins jeunes, d'enthousiastes et d'expérimentés, de fragiles et de téméraires, d'ambitieux et de plein de ressources. Développons notre réseau...Connectons nos racines.

« Connectons nos racines » est une initiative de la cellule Reforestation et Biodiversité de l'Opération 7ème jour de l'USJ qui vise à connecter les étudiants de l'USJ avec la Communauté des Alumni à travers la plantation d'arbres.

Un Alumnus adopte un arbre\*, un étudiant le plante...C'est un acte symbolique!

Ça ne s'arrêtera pas là : ces deux protagonistes sont appelés à être en contact pour suivre l'évolution de l'arbre d'année en année. L'Association Jouzour Loubnan qui organisera la campagne de plantation installera au pied de chaque arbre le nom de l'Alumnus parrain. Les coordonnées GPS et une attestation de plantation seront délivrées à l'étudiant qui prendra contact avec le parrain et partagera avec lui photos et expérience.

Connectons nos racines : notre communauté et la planète gagneront.

**Pr Magda Bou Dagher Kharrat**  
Faculté des sciences  
Présidente de l'Association Jouzour Loubnan



# AWARENESS CAMPAIGN BEHIND THE SCENES

A special thanks to the crew who are helping Jouzour Loubnan in spreading environmental awareness!

## THANKS TO THE CREW

### BOYS

Alex El Khoury  
Sam Saab  
Charbel Rizk  
Sami-Joe Keyrouz  
Amir Amirkhan  
Alex El Mir

### GIRLS

Josée Saab  
Elsa Nakouzi  
Martine Madi  
Zoyi Sakr  
Lynn Abi Assaf

### SHOOTING CREW

Anna-Maria Ouainy  
Fadi Tabet  
Gaby Mansour

### INSTITUT MODERNE DU LIBAN

Mr. Maroun Khalife

### LIBRAIRIE MADI

Mr. Marc Madi

### PHENOMENA TEAM

Sami Saab  
Anne-Marie Chakhtoura  
Loane Saab  
Josette Rouphael  
Valentina Hayek











**04**

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# HANNA LAHOUD FOUNDATION

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**Hanna Lahoud Foundation** is dedicated to maintaining Hanna Lahoud's spirit and approach to life, his values and way of helping people in difficult situations: "one struggle at a time, one smile at a time."

HLF is a non-profit, non-partisan, non-political, and non-religious and aims to support people in a professional and sustainable way. The four HLF Programs (**Education, Cancer Support, HLF Awards, and Hanna Lahoud Forests**), include actions of great importance for Hanna and are strongly related to the life he experienced, fighting to overcome difficulties whilst spreading hope and optimism.

**Hanna Lahoud** is an incredible young man who went through challenging experiences, always keeping optimism, hope, and the will to help others. The youngest of eight siblings and the only one who managed to go to the University, Hanna **joined the Lebanese Red Cross** as a volunteer for eight years after his closer brother died in an accident. In 2010, he began with the **International Committee of the Red Cross (ICRC)** whereas a dedicated humanitarian he worked to support and assist vulnerable people in Algeria, Tunis, Iraq, and Guinea-Conakry. In 2014 Hanna was diagnosed with advanced cancer, and after nine months of fighting with great strength and an incredible sense of humor, he overcame the disease, going back to his work helping others. On the 21st of April 2018, Hanna Lahoud was **tragically killed** whilst working with the ICRC in Taiz, Yemen at the age of 37.

In an important partnership with **Jouzour Loubnan** we are creating the **Hanna Lahoud Forest** of cedar trees to

help reforest Lebanon, honoring Hanna Lahoud and as a way to ensure the memory of those living the values Hanna stands for: **Kindness, Passion for life, Humility, Integrity, and Justice.**

Hanna Lahoud Foundation stands ready to support those carrying these values.

**Our Website:** [www.hannalahoud.org](http://www.hannalahoud.org)

**Contact e-mail:** [contact@hannalahoud.org](mailto:contact@hannalahoud.org)

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# SABT BAALBECK



للمشاركات الخطية، العرض الأول للطلاب أمام لجنة تدريب، تدريب المؤهلين لفترة ٦ أسابيع، العرض الأخير أمام لجنة حكم مؤلفة من أهم الكتاب اللبنانيين لتحديد المراتب الأولى والثانية وتقديم جوائز قيمة للفائزين.

٣. معرض خليل مطران للكتاب السنوي ليضم في نسخته الثانية حوالي ١٢ من أهم دور النشر اللبنانية. الهدف الأول، خلق مساحة لقاء أوسع بين البعلبكي والكتاب بتنوعاته، بعد افتقادها. والثاني، إلقاء الضوء على بيت شاعر الاقطار العربية المهمل نسبيا، والذي يسعى وريثه جاهدا لتحويله الى مركز ثقافي لأهل المنطقة. يتحول السبت الى جمعية ثقافية خضراء: ندور الكتب عبر إيجاد بيوت جديدة لها، أوقفنا البلاستيك خلال الأنشطة، نروج للحد من طباعة الأوراق للدعوات. وزعنا بالتعاون مع جمعية جذور لبنان ألفي بذرة أرز للدعوة الى المهرجان الأخير. حولنا الدروع التذكارية الى تبني شجرة أرز باسم المكرم في كل نشاط. كما نحضر سويا ومع بلدية بعلبك لتشجير مساحة ٦ هكتارات.

للتواصل:

هاتف: ٠٠٩٦١٣١٤٧٧٠٣

إيميل: [sabtbaalbeck@gmail.com](mailto:sabtbaalbeck@gmail.com)

نطلق سبت بعلبك الثقافي العمل عام ٢٠١٥ مع مجموعة من الأمسيات الثقافية شهرية. كانت الرؤية ولا زالت الوصول الى مجتمع داعم للثقافة المتنوعة القائمة على المبادئ الإنسانية. من هنا، هدّفت هذا النشاط الشبابي، المتنوع، والمستقل الى تفعيل دور المجتمع المدني لإنماء بعلبك وتغيير الصورة النمطية عنها كمهمة أولى. حصل السبت على علم وخبر (رقم ٤) لجمعية لا تبتغي الربح عام ٢٠١٨، بعد التأكد من عزم المؤسسين على المضي قدما برغم أي ظرف معاكس. بالإضافة الى الندوات الدورية، كرّس السبت لثلاث أنشطة كبيرة في المنطقة:

١. مهرجان خليل مطران الشعري الموسيقي السنوي في قلعة بعلبك، بحضور ثابت على مدى الأعوام، تخطى ٨٠٠ شخص. وذلك تخليدا لذكرى شاعر الاقطار العربية البعلبكي الولادة والمنشأ، ودعم الشباب الموهوب.
٢. مسابقة منبر بعلبك، للشعر والنثر والإلقاء، لطلاب الثانويات كافة ضمن نطاق اتحاد بلديات بعلبك، بهدف تكريس اللغة الأم في نفوس الشباب والتعرف على الحضارة العربية العريقة. تتفرد هذه المسابقة بتقسيمها على المستوى اللبناني ككل. تمتد على العام الدراسي وتتضمن: التصفية الأولى



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