



MAHARAH URBAN TECHNOLOGY INITIATIVE

URBAN-TECH BOOTCAMP

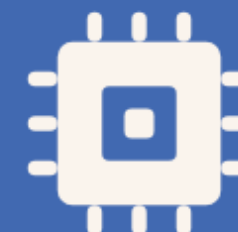
PROGRAMME REPORT 2026

GREATER TRIPOLI, LIBYA · APRIL – JULY 2026

Implemented by **Libyan Spider** · In partnership with **UNDP Libya** · Funded by the **Embassy of Italy**

LibyanSpider

**Urban
Impact.**



A bootcamp built around the city itself

The **Maharah Urban-Tech Bootcamp** is a multidisciplinary innovation programme implemented by Libyan Spider in partnership with UNDP Libya, with the generous support of the Embassy of Italy, to empower young innovators to address urban challenges through technology and collaboration.

Through an intensive three-week bootcamp, participants from diverse disciplines developed **four innovative Urban-Tech solutions** addressing real challenges across Greater Tripoli, culminating in their presentation at the Maharah Urban-Tech Demo Day and paving the way for further development and implementation.



Four months, five phases

From community consultation to solution uptake — the initiative moved from understanding the city, to selecting a cohort, to building and presenting working prototypes.



Understanding Tripoli's urban challenges

The initiative began with an urban assessment that combined focus groups, surveys, stakeholder engagement, and urban data analysis to understand the realities and priorities of Greater Tripoli.

ASSESSMENT AT A GLANCE

**2**

Focus Group Discussions

**30**

Participants Engaged

**212**

Survey Responses

**Tripoli in Numbers**

Open Urban Data Platform

KEY FINDINGS

76%

reported mobility is difficult

74%

believe urban expansion is not well organized

93%

believe technology can improve cities

68%

are willing to use digital urban services

88%

rated public services as average or poor

These findings guided participants in identifying challenge areas and developing the **four Urban-Tech solutions**.

Building the cohort

Following the open call, the Maharah Urban-Tech Initiative received **212 applications** from young professionals and recent graduates across diverse disciplines.

Eligible applicants underwent a structured selection process combining application screening and competency-based interviews, leading to the selection of **18 participants**, of whom **15 joined** the three-week Urban-Tech Bootcamp.

Open call

Broad outreach across disciplines

Screening

Eligibility & application review

Interviews

Competency-based assessment

225 Applications

205 Eligible applications

61 Competency-based interviews

18 Selected participants

15 Bootcamp cohort

Three weeks, one city

Over the course of three intensive weeks, participants combined technical learning, field engagement, and multidisciplinary collaboration to develop innovative solutions addressing real urban challenges across Greater Tripoli.



Learning in action

Moments from the bootcamp — expert-led sessions, hands-on workshops, mentorship, and the day-to-day work of the cohort at Libyan Spider.



Experience at a glance

Participant feedback reflected a highly engaging, practical, and impactful learning experience throughout the programme.

4.8/5



Overall Experience

4.8/5



Training Quality

4.8/5



Programme Organization

4.6/5



Mentorship & Support

4.6/5



Content Relevance

4.5/5



Learning Environment

VOICES FROM THE COHORT

“

Maharah Urban-Tech changed the way I look at cities and public spaces. It showed me how urban planning and technology can work together to create more inclusive and sustainable communities.



ZAHREDDEN ALOZRMLY

“

Working with people from completely different backgrounds challenged me to think differently. It strengthened my confidence, improved my teamwork, and taught me how to tackle complex problems together.



MUNIA SHELLI

“

Being part of a multidisciplinary team completely changed my perspective on urban challenges and how technology can contribute to solving them.



ABDULLAH HADIDAN

Four teams, four solutions

Four multidisciplinary teams developed four Urban-Tech proof-of-concept solutions to address real urban challenges across Greater Tripoli, culminating in their presentation at the Maharah Urban-Tech Demo Day.



Mosaic

Discover Libya's Heritage

THE CHALLENGE

Limited digital access to Libya's cultural heritage reduces public engagement and makes historical sites difficult to explore.

THE SOLUTION

Mosaic is a digital platform that brings heritage sites to life through interactive maps, cultural content, and guided experiences.

KEY FEATURES

Interactive heritage map

Landmark information

Digital guided tours

Cultural events

WHY IT MATTERS

Making Libya's heritage more accessible while promoting cultural awareness and tourism.



Raknah

Smart Parking for Smarter Cities

THE CHALLENGE

Limited parking availability contributes to congestion, delays, and inefficient urban mobility.

THE SOLUTION

Raknah helps drivers find available parking spaces and provides operators with tools to manage parking more efficiently.

KEY FEATURES

Real-time availability

Smart navigation

Parking reservation

Occupancy dashboard

WHY IT MATTERS

Reducing congestion by improving the parking experience for drivers and operators.



Dalilek

Your Guide to Urban Services

THE CHALLENGE

Accessing public services is often complicated by fragmented information and unclear administrative procedures.

THE SOLUTION

Dalilek provides step-by-step guidance to help citizens access urban services through one digital platform.

KEY FEATURES

Service guidance

Required documents

Interactive directory

Location information

WHY IT MATTERS

Making public services easier to understand and access.



Urban Advisor

Smarter Decisions for Better Cities

THE CHALLENGE

Urban planning decisions are often limited by fragmented and inaccessible urban data.

THE SOLUTION

Urban Advisor uses AI and integrated datasets to support smarter planning and investment decisions.

KEY FEATURES

AI-powered insights

Urban data integration

Site analysis

Interactive dashboard

WHY IT MATTERS

Supporting evidence-based urban planning and sustainable city development.



URBAN-TECH SOLUTION 01

Mosaic

Discover Libya's Heritage

THE CHALLENGE

Limited digital access to Libya's cultural heritage reduces public engagement and makes historical sites difficult to explore.

THE SOLUTION

Mosaic is a digital platform that brings heritage sites to life through interactive maps, cultural content, and guided experiences.

WHY IT MATTERS

Making Libya's heritage more accessible while promoting cultural awareness and tourism.

THE TEAM



Anas Almoghrby



Mohamed Chaco



KEY FEATURES

- 1 Interactive heritage map
- 2 Landmark information
- 3 Digital guided tours
- 4 Cultural events



URBAN-TECH SOLUTION 02

Raknah

Smart Parking for Smarter Cities

THE CHALLENGE

Limited parking availability contributes to congestion, delays, and inefficient urban mobility.

THE SOLUTION

Raknah helps drivers find available parking spaces and provides operators with tools to manage parking more efficiently.

WHY IT MATTERS

Reducing congestion by improving the parking experience for drivers and operators.

THE TEAM



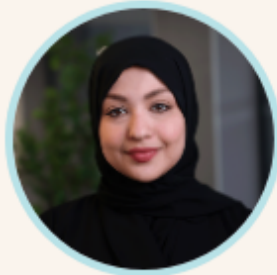
Zaher Aldin



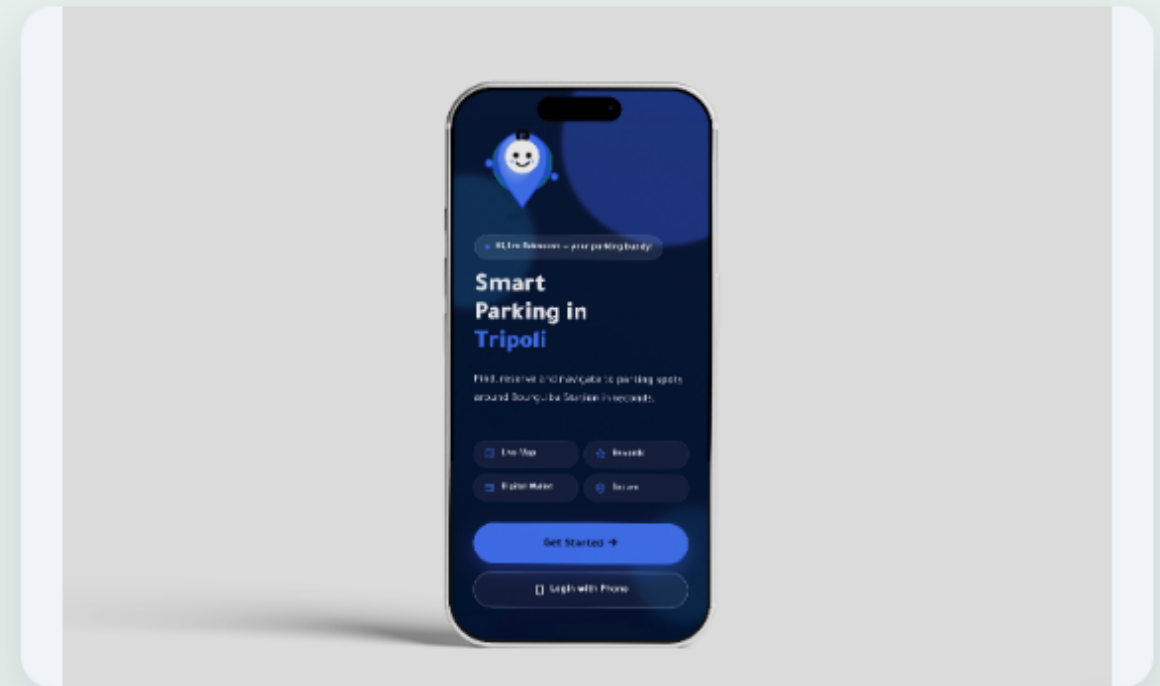
Abdulla Hdedan



Majdoleen Elsmoui



Sara Nasef



KEY FEATURES

- 1 Real-time availability
- 2 Smart navigation
- 3 Parking reservation
- 4 Occupancy dashboard



URBAN-TECH SOLUTION 03

Dalilek

Your Guide to Urban Services

THE CHALLENGE

Accessing public services is often complicated by fragmented information and unclear administrative procedures.

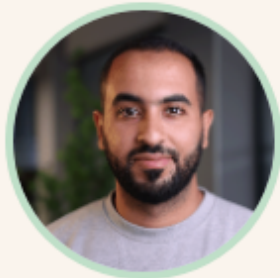
THE SOLUTION

Dalilek provides step-by-step guidance to help citizens access urban services through one digital platform.

WHY IT MATTERS

Making public services easier to understand and access.

THE TEAM



Ali Abufaid



Rana Shileebik



KEY FEATURES

- 1 Service guidance
- 2 Required documents
- 3 Interactive directory
- 4 Location information



URBAN-TECH SOLUTION 04

Urban Advisor

Smarter Decisions for Better Cities

THE CHALLENGE

Urban planning decisions are often limited by fragmented and inaccessible urban data.

THE SOLUTION

Urban Advisor uses AI and integrated datasets to support smarter planning and investment decisions.

WHY IT MATTERS

Supporting evidence-based urban planning and sustainable city development.

THE TEAM



Ayman Ali



Retaj Bek Derna



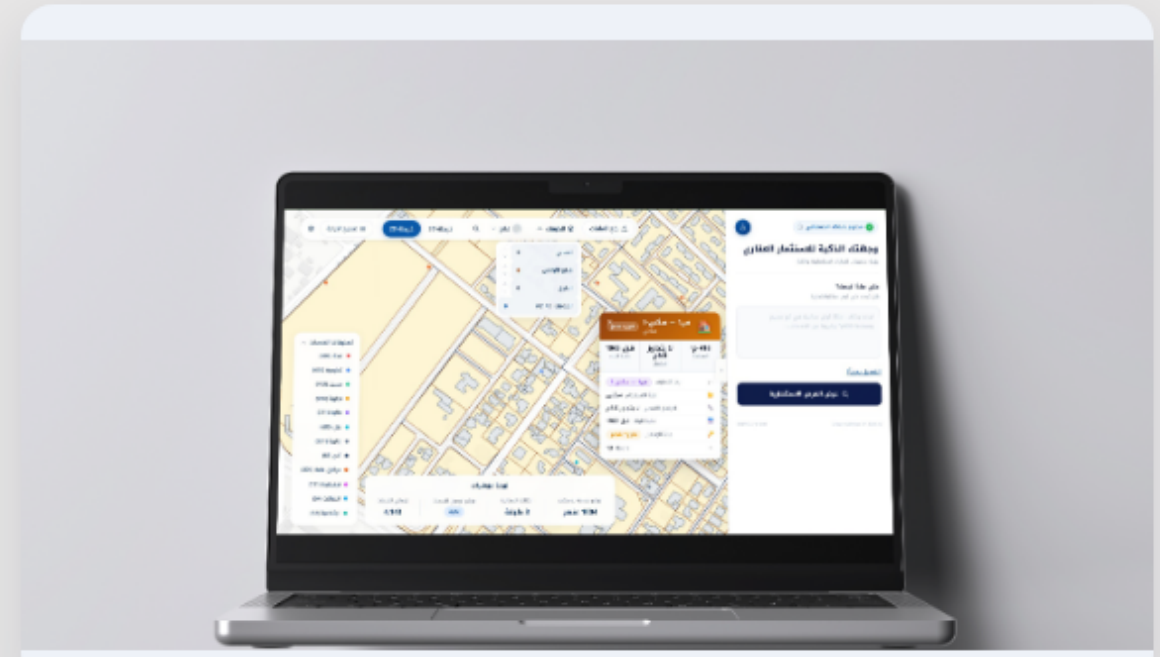
Mawada Dalla



Monia Shelli

KEY FEATURES

- 1 AI-powered insights
- 2 Urban data integration
- 3 Site analysis
- 4 Interactive dashboard



From prototype to recognition

■ 4 JULY 2026

The **Maharah Urban-Tech Demo Day** marked the culmination of the bootcamp, bringing together representatives from government institutions, development partners, academia, and the private sector.

Dr. Sophie Kemkhadze

UNDP Resident Representative in
Libya

**H.E. Eng. Esam Jouma
Altmouni**

Minister of Housing and
Construction

Tripoli Central Municipality
Representatives



Hosted at the **Libya National Museum (The Red Castle)**, the event reflected the belief that innovation begins by understanding and valuing our urban and cultural heritage.



WINNING SOLUTION

Urban Advisor

RECOGNITION

One-year technical infrastructure package from **Libyan Spider**

Three dedicated **mentorship sessions**

Stakeholder matching support to facilitate real-world implementation

The day it came together

Team presentations, expert evaluation, and networking at the Libya National Museum (The Red Castle) — the culmination of the Maharah Urban-Tech Bootcamp.



Maharah Urban-Tech Connect

5 – 30 JULY 2026

As part of the initiative's uptake phase, Libyan Spider hosted **Maharah Urban-Tech Connect**, bringing together the Maharah teams with representatives from UNDP Libya, the Embassy of Italy, Tripoli Central Municipality, academia, and the private sector. The event provided a platform for participants to present the progress of their solutions following the bootcamp and institutional engagement phase, while receiving valuable feedback and engaging in discussions on potential partnerships.

Beyond the presentations, the event fostered meaningful networking and knowledge exchange, creating opportunities to connect innovative urban solutions with organizations interested in supporting their further **development, piloting, and future implementation.**

WHO JOINED

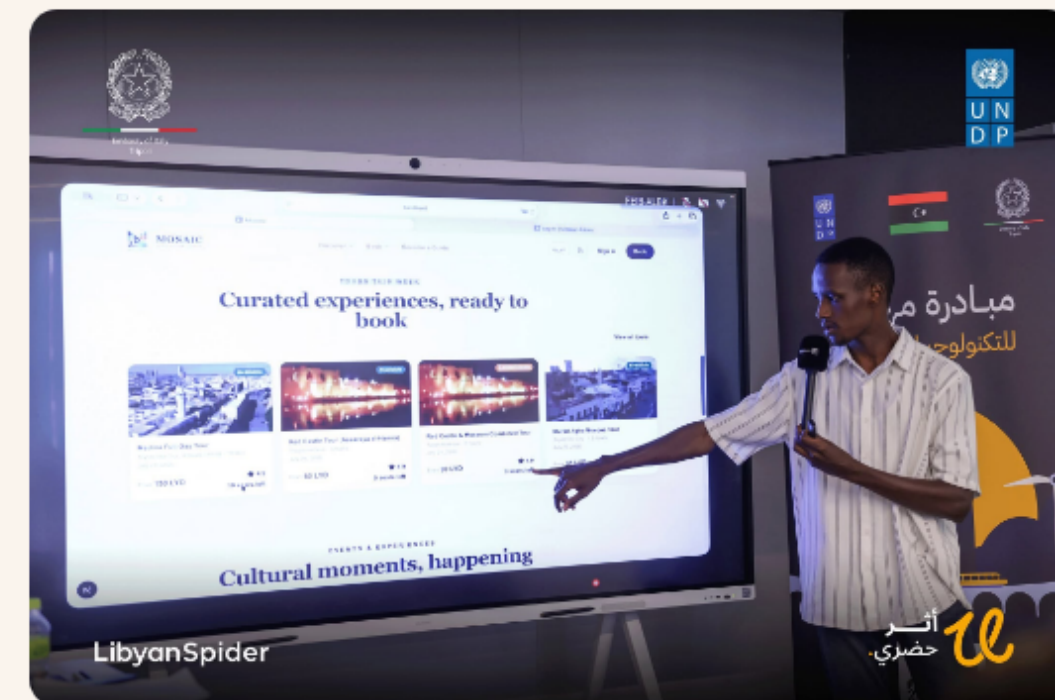
UNDP Libya

Embassy of Italy

Tripoli Central Municipality

Academia

Private Sector



Collaborate, partner, build

The Maharah Urban-Tech teams continue to develop their solutions and welcome collaboration through partnerships, pilot implementation, technical support, data sharing, mentorship, or investment.

 Mosaic Discover Libya's Heritage	 Raknah Smart Parking for Smarter Cities	 Dalilek Your Guide to Urban Services	 Urban Advisor Smarter Decisions for Better Cities
POTENTIAL COLLABORATION Heritage & cultural institutions Tourism organizations Digital content partners Museums and historical sites	POTENTIAL COLLABORATION Municipalities Parking operators Smart mobility providers Commercial and mixed-use developments	POTENTIAL COLLABORATION Public institutions Municipal service providers Digital government initiatives Citizen service organizations	POTENTIAL COLLABORATION Urban planning authorities GIS and urban data providers Research institutions AI and smart city partners



GET IN TOUCH

To explore partnership opportunities or connect with any of the Maharah Urban-Tech solution teams, please contact the Maharah Urban-Tech Initiative at hello@maharah.ly

The journey continues

The successful completion of the Maharah Urban-Tech Bootcamp marks an important milestone in the broader Maharah Initiative, implemented through the partnership between the **United Nations Development Programme (UNDP) Libya** and **Libyan Spider**.

More than a series of training programmes, Maharah continues to cultivate a growing community of multidisciplinary innovators equipped to develop technology-enabled solutions that address real development challenges and help build smarter, more resilient, and more inclusive cities across Libya.

Implemented by **Libyan Spider** · In partnership with **UNDP Libya** · Funded by the **Embassy of Italy**

182

young professionals empowered

268+

hours of specialized training

3

cities — Tripoli, Benghazi & Sebha

