Building from previous work:

“to make the city of Beirut a resilient capital city, providing a safe and liveable environment to its population and a prosperous economic and development future”

Source: EMI, GEM et al. (2014), Beirut Resilience Master Plan, final report
"The ability to anticipate and adapt to shocks & stresses; implementing lessons learned to leverage emerging opportunities, and effectively reduce vulnerabilities."
All cities are vulnerable to shocks and stresses

Funds and resources are in short supply, and it’s getting tougher.
We have created a simple but powerful approach, backed by a set of tools that makes resilience quantifiable, comparable and crucially manageable.
We prioritise how cities are protected now and in the future. We help them thrive and flourish.
RESILIENCE METHODOLOGY OVERVIEW

RESILIENCE DEMAND/RISKS

- Health
- Infrastructure
- Natural
- Security
- Societal
- Technology

STRATEGIES FOR BUILDING RESILIENCE CAPACITY

- Policies & Procedures
- Investment, Incentives & Contingency Funds
- Vulnerability Reduction Programs
- Community Awareness & Engagement
- Integrated Response & Recovery Plans
- Security & Business Continuity

RESILIENCE CAPACITY/CAPABILITY

- Mitigation
- Preparedness
- Response
- Recovery
- Learning & Adaptation

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BH RESILIENCE FRAMEWORK

Society & Community
- Community & Inclusion
- Mobility & Communication
- Health & Wellbeing
- Sense of Place

Governance & Economy
- Leadership & Government
- Business & Trade
- Skills & Education
- Safety & Security

Environment & Infrastructure
- Structure & Infrastructure
- Resources
- Systems & Technology
- Environment
ASSESS YOUR RELATIVE DEMAND

POOR AIR QUALITY

- Cost: 1 2 3 4 5
- Duration: 1 2 3 4 5
- Probability: 1 2 3 4 5
- Scale: 1 2 3 4 5
- Severity: 1 2 3 4 5
ESSENTIAL 2: ASSIGN A BUDGET

RESILIENCE BUILDING BUDGET

There is a budget and financial plan for resilience building within the city.

TRY RATING SCALE ABOVE

- Strongly Disagree
- Slightly Disagree
- Neutral
- Slightly Agree
- Strongly Agree

1 2 3 4 5
ESSENTIAL 3: UPDATE DATA ON HAZARDS & VULNERABILITIES

UNDERSTANDING VULNERABILITIES

Where or who in the city are vulnerable to assessed risks and is this understanding used to prioritise responses, response planning, and hazard mitigation.

Try rating scale above.
ESSENTIAL 8: PROTECT ECOSYSTEMS AND NATURAL BUFFERS

The city has measures in place to effectively protect priority ecosystems.

TRY RATING SCALE ABOVE
FILTER SHOCKS
Select the shocks/stresses that will be used in this report. Active shocks/stresses are shown in colour. The others are in grey.

RESILIENCE REPORT

HEEL

SENSE OF PLACE

Leadership & Government

Security & Safety

Environment

BUSINESS & TRADE

Skills & Education

Environment & Infrastructure

Governance & Economy

SOCIETY & COMMUNITY

Utility & Location

Systems & Technology

Resources

LAND MOVEMENT, EARTHQUAKE, LANDSLIP & SUBSIDENCE

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A CLOSER LOOK

TOP 3 RESILIENCE RATINGS

- 74% Security & Safety
- 76% Business & Trade
- 75% Leadership & Government

BOTTOM 3 RESILIENCE RATINGS

- 60% Sense of Place
- 58% Environment
- 60% Mobility & Communication
RESILIENCE REPORT

TOP ESTIMATED FINANCIAL IMPACT

- Terrorism
- New pandemic disease
- Storms & Gales
- Highway network disruption/stoppage
- Tsunami
- Existing disease outbreak/epidemic
- Surface Water Flooding
- Disruption to a critical supply chain
- Poor Air quality
- Land Movement, Earthquake, Landslip & Subsidence
- Financial Failure/Crisis

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FUTURE TRENDS

Current Resilience Gap vs Resilience Gap 2030

Bar chart showing the comparison of current resilience gap and future resilience gap across various sectors such as Leadership & Government, Security & Safety, Business & Trade, Skills & Innovation, Environment, Resources, Sustainability, Infrastructure, Community & Healthcare, Health & Wellbeing, Mobility & Communication, and Smart Place.
THE BEIRUT MASTERPLAN WILL HAVE 4 MAIN PILLARS

- **Society & Community**
  - Short Term: Community Awareness & Engagement
  - Medium Term: Vulnerability Reduction Programs
  - Long Term: Vulnerability Reduction Programs

- **Environment & Infrastructure**
  - Short Term: Vulnerability Reduction Programs
  - Medium Term: Vulnerability Reduction Programs
  - Long Term: Vulnerability Reduction Programs

- **Adaptive Capacity & Response**
  - Security & Business Continuity
  - Integrated Response & Recovery plans

- **Governance & Economy**
  - Policies & Procedures
  - Investment, Incentives
  - Contingency Funds