Academic Hubs: Using Science and Technology to build resilience
(case study)
Sharing Innovations to Improve Implementation and Reporting of the Sendai Framework for DRR:

Prof. Jalal Dabbeek
An Najah National University
Urban Planning and Disaster Risk Reduction Center (UPDRRC)
Palestine.
Building capacity within civil society and general public to cope with disasters by using several dissemination activities

- Holistic-approach concepts and methodologies..
- Local, national and international stakeholders’ integrations and networking concepts;
- Web-based platforms: Target groups individual citizens, professionals and decision-makers
- Giving priority to the applied research and to the community service programs;

• An-Najah University’s Urban Planning and Disaster Risk Reduction Center (UPDRRC) brought players, using scientific knowledge and strategies and community services to draw together all the target groups.

• Embedding DRR culturally;
Building capacity within civil society and general public to cope with disasters by using several dissemination activities

As a result, this approach had a wide remit and objectives including:
- Assisting Government, practitioners with infrastructure vulnerability and local site effect conditions assessments and creating solutions;
- Drafting new Seismic Building Code regulations.
- Developing several courses and programs on DRR, including master program on DRM.
- Conducting several capacity building programs on DRR. (Tenth of TR).
- **Modeling and mapping:** Hazards, seismic vulnerability and RA..
- Developing and conducting post disaster damages assessment.
- Introducing DRR requirements on physical planning guidelines.
- **Training courses on DRR for Journalists to create common language.**
- **Public seismic Poll:** to measure the seismic awareness levels of individual citizen.
Developing engineering courses for non engineers and urban planning courses for not planners.
تقرير
استطلاع الحالة الإنشائية
لمشروع ترميم رباط الكرد - حوش الشهابي
(المرحلة الثانية ب)
البلدة القديمة - القدس

مرسل من: أ.د. جلال الدبيك
مركز التخطيط الحضري والحد من مخاطر الكوارث/وحدة علوم الأرض وهندسة الزلازل في جامعة النجاح الوطنية
إلى: مؤسسة التعاون
شباط/ 2017
### Remote Rapid Visual Screening Tool

<table>
<thead>
<tr>
<th>BuildingID</th>
<th>RRVS Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>8905</td>
<td>COMPLETED</td>
</tr>
<tr>
<td>8836</td>
<td>COMPLETED</td>
</tr>
<tr>
<td>8849</td>
<td>COMPLETED</td>
</tr>
<tr>
<td>8867</td>
<td>COMPLETED</td>
</tr>
<tr>
<td>8903</td>
<td>COMPLETED</td>
</tr>
<tr>
<td>8904</td>
<td>COMPLETED</td>
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<tr>
<td>8926</td>
<td>COMPLETED</td>
</tr>
<tr>
<td>8927</td>
<td>COMPLETED</td>
</tr>
<tr>
<td>8994</td>
<td>COMPLETED</td>
</tr>
</tbody>
</table>

**Material Type**
- CR - Concrete, reinforced
- CIP - Cast-in-place concrete

**Material Property**
- MOC - Cement mortar

Showing 1 to 100 of 100 entries
Data collection
Identification of the Building: **Geographical Coordinates**

<table>
<thead>
<tr>
<th>Geographical Coordinates (WGS 84 System)</th>
<th>Lat.</th>
<th>Long.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N32°13'28.1&quot;</td>
<td>E35°16'03.4&quot;</td>
</tr>
</tbody>
</table>

**Geographical Coordinates (Android):**

![Google Maps screenshot showing the location with coordinates N32°13'28.1" and E35°16'03.4".]

**Geographical Coordinates (IOS):**

![iOS Map screenshot showing the location with coordinates N32°13'28.1" and E35°16'03.4".]

An Najah National University
Urban Planning and Disaster Risk Reduction Center
Citizens Collection forms (in English and Arabic)
Collection forms

Citizens
(in English and Arabic)
Collection forms

Practitioners (in English)
<table>
<thead>
<tr>
<th>Horizontal Structure</th>
<th>Roof</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slab</td>
<td></td>
</tr>
<tr>
<td>Not identified</td>
<td></td>
</tr>
<tr>
<td>Solid slab with</td>
<td></td>
</tr>
<tr>
<td>ribbed form</td>
<td></td>
</tr>
<tr>
<td>Reinforced concrete</td>
<td></td>
</tr>
<tr>
<td>Ribbed slab</td>
<td></td>
</tr>
<tr>
<td>Smooth concrete slab</td>
<td></td>
</tr>
<tr>
<td>Corrugated structure</td>
<td></td>
</tr>
<tr>
<td>Heavy and stiff</td>
<td></td>
</tr>
<tr>
<td>Heavy and stipped</td>
<td></td>
</tr>
<tr>
<td>Light and stiff</td>
<td></td>
</tr>
<tr>
<td>Light and stipped</td>
<td></td>
</tr>
</tbody>
</table>

4) Regularity

<table>
<thead>
<tr>
<th>In plan</th>
<th>In elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular</td>
<td>Not regular</td>
</tr>
<tr>
<td>Regular</td>
<td>Not regular</td>
</tr>
</tbody>
</table>

5) Geomorphological Data

<table>
<thead>
<tr>
<th>Morphology site</th>
<th>Landslides</th>
<th>Category of soil foundation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ridge</td>
<td>Strong slope</td>
<td>Slight slope</td>
</tr>
</tbody>
</table>

6) Notes

Page 2

Date | The Compiler (Block Letters) | Sign of the Compiler

Collection forms
Practitioners (in English)
Main Characteristics of Buildings in Nablus

**Masonry Buildings**
- 1 or 2 bays in both directions
- 4 floors (maximum)

**RC Frame Buildings**
- 2 or 3 bays in both directions
- 15 floors (maximum)

**RC Shear Wall Buildings**
- From 3 to 5 bays in both directions
- From 5 to 20 floors (maximum)

Building Seismic Code Awareness Raising Activities

Introduction in Sasparm FP7 Project
The fragility curves have been developed starting from the SP-BELA (Simplified Pushover-Based Earthquake Loss Assessment) methodology. SP-BELA has been adapted to be representative of the reality of the as built in Nablus.

Fragility curves for masonry buildings with 2 storeys

Fragility curves for RC frame buildings with 7 storeys

Fragility curves for shear wall buildings with 10 storeys
Hundreds of Meetings, Public Lectures, Workshops, Training Courses, etc
dissemination activities and target groups;
Workshops and meetings

SASPARM 1

Results: Adopting the JSBC
Training Courses
Lectures

SASPARM 1
Integration and Interaction with other Projects and Activities

SASPARM 1
Tenth of reports, interviews, articles…etc

Media Coverage

- Web sites
- Radios
- TVs
- Films and photos
- Newspapers
- Face book,…etc

http://www.sasparm.ps/en/?page=one&cat=41
Working Group Meeting on Guidelines for Risk Management Policy

http://www.sasparm2.com/working-group-meeting-on-guidelines-for-risk-management-policy/

Local workshops and meetings

A Workshop Conducted on “DRR in Palestine and the 10 Essentials for Making Cities Resilient” - Sendai Framework, Tulkarem 24/03/2016

Several Meetings with stakeholders in Nablus Municipality

http://sasparm.ps/en/?page=details&newsID=236&cat=3
http://sasparm.ps/en/?page=details&newsID=238&cat=3
http://sasparm.ps/ar/?page=details&newsID=220&cat=3
Training Sessions for Practitioners - SASPARM 2

SASPARM2

05/11/2015

A short training course for students at planning engineering department -SASPARM 2

02/12/2015

http://sasparm.ps/ar/?page=details&newsID=206&cat=3

http://sasparm.ps/ar/?page=details&newsID=203&cat=3

http://sasparm2.com/a-training-course-for-students-planning-engineering-department-within-the-project-sasparm-2/

http://www.sasparm2.com/training-sessions-for-practitioners-sasparm-2/
Training course: seismic design of buildings

A Training course on Seismic Design of buildings in Tulkarm city

http://sasparm.ps/ar/?page=details&newsID=180&cat=3


http://sasparm.ps/ar/?page=details&newsID=208&cat=3
Training courses at NNU in the field of seismic design of buildings in Nablus city.

A Training course on Seismic Design of buildings in Jenin City

http://sasparm.ps/ar/?page=details&newsID=183&cat=3
Lecture on Disaster Risk Reduction in Palestine
(Jamal Abdul Naser School)  Oct 2016
A live radio show on resilient cities and SASPARM 2 project
Monday and Thursday every week
Between 8 - 9 AM


Media Coverage

TV Interviews - Maan news


TV Interviews - Nbc

Several Workshops on "Development of Disaster Risk Management system in Palestine."

• Several meetings with local and national stockholders have been done during 2015 and 2016, such as:

http://sasparm.ps/ar/?page=details&newsID=178&cat=3

Development of a volunteer system on Emergency Response in Palestine
Elements:

• Community service course
• Developing a mechanism to inform students who wish to register in this system
• 6 lectures about the concept of DRR
• Donation a blood unit
• Working 50 hours “as a volunteer” in one of the partner institutions in the fields related to DRM (Students receive a training of 50 hours at one of the institutions working in the field of emergency response during disasters).
Short Training Courses on DRM- SASPARM2 (Students)

30/9/2016


http://sasparm.ps/ar/?page=details&newsID=219&cat=3
http://www.sasparm.ps/ar/?page=details&newsID=235&cat=3
Two Training Courses on DRM and SASPARM2 Project

October 1st, 2016
12/03/2016

http://sasparm.ps/en/?page=details&newsID=233&cat=
http://www.sasparm2.com/short-training-course-on-disaster-risk-
reduction-and-sasparm2-project-2/

http://sasparm.ps/ar/?page=details&newsID=219&cat=
3

An Najah National University
Urban Planning and Disaster Risk Reduction Center
Selected activities during the training and working hours.
Five Short Training Courses on DRM and Emergency Response (in five cities: Ramallah, Salfit, Tulkarm, Hebron and Bethlehem). - Pal. Medical Relief Society

http://sasparm.ps/ar/?page=details&newsID=194&cat=3

Partners:
- Palestinian Civil Defense
- Municipalities
- Red Crescent
- Hospitals
- Health and Medical institutions (Associations)
- Ministries related to disasters response operations.
- Palestinian National Agency for Disaster Risk Mitigation.
- others

Documentation and Follow-up mechanism
- A standard form for volunteers was developed in cooperation with the Palestinian Civil Defense and other concerns parties.
- Regular meetings for evaluation and follow up.
Creating a database for students volunteering; each student fills in all necessary information (e.g. name, age, sex, place of residence, education, experience).

Volunteer Application Form

<table>
<thead>
<tr>
<th>1. Name:</th>
<th>2. Age:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Gender:</th>
<th>4. Place of Residence:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. Education:</th>
<th>6. Experience:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7. Date of Birth:</th>
<th>8. Signature:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Please fill out all required fields.

An Najah National University
Urban Planning and Disaster Risk Reduction Center
Volunteer Application Form

Personal Information:
- First Name:
- Father's Name:
- Surname:
- Date of Birth: __/__/_____
- Marital status:
- Governorate:
- Sex: Male ☐ Female ☐
- Address:
- Mobile Number:
- Alternate Phone Number:
- Home Number:
- Area of study:
- Email address:
- School Year:
- Eye Glasses: Yes ☐ No ☐
- Driving license: Yes ☐ No ☐
- Blood type:
- Do you have any health problems? Yes ☐ No ☐ Specify:

Choose the institution you want to volunteer with:
- Palestinian Civil Defense
- The Municipality
- Red Crescent
- The Fire brigade
- Hospitals
- Health and Medical institutions (Associations)
- Ministries related to disasters response operations and civil protection, specify:
- University Scientific Centers
- Others

How did you know about the volunteering program?
- SASPARM website
- An-Najah University website
- Friends
- Others: (Specify)

Skills and training courses:
1. ..........................................................
2. ..........................................................
3. ..........................................................
4. ..........................................................
5. ..........................................................

The period of volunteer training:
- During community service course
- During community service course and after

The reason of volunteering and how do you hope to benefit?
....................................................................................................................................................

Do you wish to volunteer after the completion of community service course, especially in emergencies?

Volunteer availability during community service course and after the completion of the course if you desire.
- Saturday: Start______ End______
- Sunday: Start______ End______
- Monday: Start______ End______
- Tuesday: Start______ End______
- Wednesday: Start______ End______
- Thursday: Start______ End______
- Friday: Start______ End______

Notes: ........................................................................................................................................

Date:
Signature/Volunteer:
Signature/Staff:
Thank you for your attention.

www.najah.edu
www.sasparm.ps
www.sasparm2.com