REACH
Informing more effective humanitarian action

HUMANITARIAN ATLAS
Ar-Raqqa City
Syrian Arab Republic

<div dir="rtl">

الأطلس الإنساني
مدينة الرقة
الجمهورية العربية السورية

</div>

Infrastructure Damage Reference Maps

<div dir="rtl">

الخرائط المرجعية لأضرار البنية التحتية

</div>

Overview

This city atlas provides information regarding the severity of damage to structures across 23 neighbourhoods in Ar-Raqqa.   In partnership with UNITAR's Operational Satellite Applications Programme - UNOSAT, and The International NGO Safety Organisation - INSO, REACH was able to identify key-infrastructure that has likely been damaged or destroyed.

Through this comprehensive analysis on the specific location and classification of structrual damage, the atlas aims to be a tool for local government and humanitarian organizations to facilitate in the planning and implementation of humanitiarian activities in Ar-Raqqa.

لمحة عامة

يوفر أطلس المدينة معلومات عن شدة الضرر الهيكلي عبر 23 حي في الرقة. وبالاشتراك مع UNITAR's/(معهد الأمم المتحدة للتدريب والبحث) برنامج تطبيقات الستلايت – ومنظمة الأمم المتحدة للتربية والعلم والثقافة (UNOSAT)، ومنظمة السلامة الدولية للمنظمات غير الحكومية (INSO)، تمكنت REACH من تحديد البنى الأساسية الرئيسية التي من المحتمل انها تعرضت للضرر أوالتدمي.

من خلال هذا التحليل الشامل حول الموقع المحدد وتصنيف الضرر الهيكلي، يهدف الأطلس إلى أن يكون أداة للحكومات المحلية والمنظمات الإنسانية للتسهيل في تخطيط وتنفيذ الأنشطة الإنسانية في الرقة.

Context

Between November 2016 and October 2017, the campaign to expel the group known as the Islamic State of Iraq and the Levant (ISIL) from Ar-Raqqa governorate led to an escalation of conflict across the area. The city of Ar-Raqqa in February 2017 had a total of 1,667 satellite-detected damaged or destroyed structures, which when assessed at the end of the conflict in October 2017 saw a major spike with an increase to 12,668 total affected structures within the city.

The population of Ar-Raqqa city dropped from an estimated 229,000 in late 2016 to fewer than 3,000 persons in October 2017. Although clashes within the city did not begin until June 2017, there were significant outflows of people as early as April in anticipation of increased conflict. Following the cessation of fighting in Ar-Raqqa city and complete evacuation of civilians in mid-October 2017, we are now witnessing tens of thousands of IDPs returning to areas of origin with limited access to livelihoods and in severe need of de-mining and repairs to shelters, roads and other infrastructure. The areas with the highest levels of returns are Ma'amoun and Ammar Ibn Yaser (Meshlab), Al-Thawrah (Qaraba) and Tishrine/Baath (Rmelah). These were the first areas that civilians returned to and are located along some of the primary access routes into the city.

السياق

في الفترة ما بين تشرين الثاني / نوفمبر 2016 وتشرين الأول / أكتوبر 2017، أدت حملة طرد الجماعة المعروفة باسم "الدولة الإسلامية في العراق والشام (ISIL) " من محافظة الرقة إلى تصاعد الصراع في المنطقة. و في شباط / فبراير 2017 قد بلغ مجموع الأبنية المتضررة او المدمرة 1,667 مبنى في مدينة الرقة من خلال الكشف عن طريق الاقمار الصناعية، وهو ما شهد عند نهاية النزاع في تشرين الأول / أكتوبر 2017 ارتفاعا كبيرا في زيادة عدد الابنية المتضررة والمدمرة داخل المدينة إلى 12,668 مبنى.

انخفض عدد سكان مدينة الرقة من ما يقارب 229,000 نسمة في اواخر عام 2016 الى اقل من 3,000 نسمة في اكتوبر 2017. وعلى الرغم من أن الاشتباكات داخل المدينة لم تبدأ حتى حزيران / يونيو 2017، كانت هناك تدفقات كبيرة من الناس في أوائل نيسان / أبريل تحسبا لزيادة الصراعات. وعقب وقف القتال في مدينة الرقة والإجلاء الكامل للمدنيين في منتصف تشرين الأول / أكتوبر 2017، نشهد الآن عشرات الآلاف من النازحين داخليا العائدين إلى مناطق المنشأ (الأصل) مع محدودية فرص الحصول على سبل كسب العيش وفي حاجة ماسة إلى إزالة الألغام والقيام بإصلاحات الملاجئ والطرق وغيرها من البنى التحتية. أما المناطق ذات أعلى مستويات عائدين فهي حي مأمون و حي عمار بن ياسر(مشلاب) و حي الثورة (قربة) وحي تشرين/بعث (رميله) .كانت هذه هي المناطق الأولى التي يعود إليها المدنيون ويتواجدون على طول بعض طرق الوصول الرئيسية إلى المدينة.

Methodology

Using high resolution satellite imagery acquired on 21 October 2017, 03 February 2017, 29 May 2015, 12 February 2014, and 22 October 2013 structural damage was identified. INSO enumerators collected the location and type of 398 major infrastructure points of interest. Using this data REACH was able to assess the likelihood of these points of interest and key-infrastrucuture being damaged or destroyed. The results are provided for each individual neighbourhood. Findings should be considered as indicative only.

المنهجية

باستخدام صور فضائية عالية الدقة تم الحصول عليها في 21 تشرين الأول / أكتوبر 2017 و 03 شباط / فبراير 2017 و 29 أيار / مايو 2015 و 12 شباط / فبراير 2014 و 22 تشرين الأول / أكتوبر 2013، تم تحديد الأضرار الهيكلية. وقد جمع باحثي منظمة السلامة الدولية للمنظمات غير الحكومية INSO موقع ونوع 398 نقاط اهتمام رئيسية للبنى التحتية. باستخدام هذه البيانات تمكنت REACH من تقييم احتمالية هذه النقاط المثيرة للاهتمام والبنية التحتية الرئيسية التي تضررت أو دمرت وتقدم النتائج لكل حي على حدة. وينبغي أن تعتبر النتائج إرشادية فقط.

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Ar-Raqqa City - Neighbourhood Reference Map
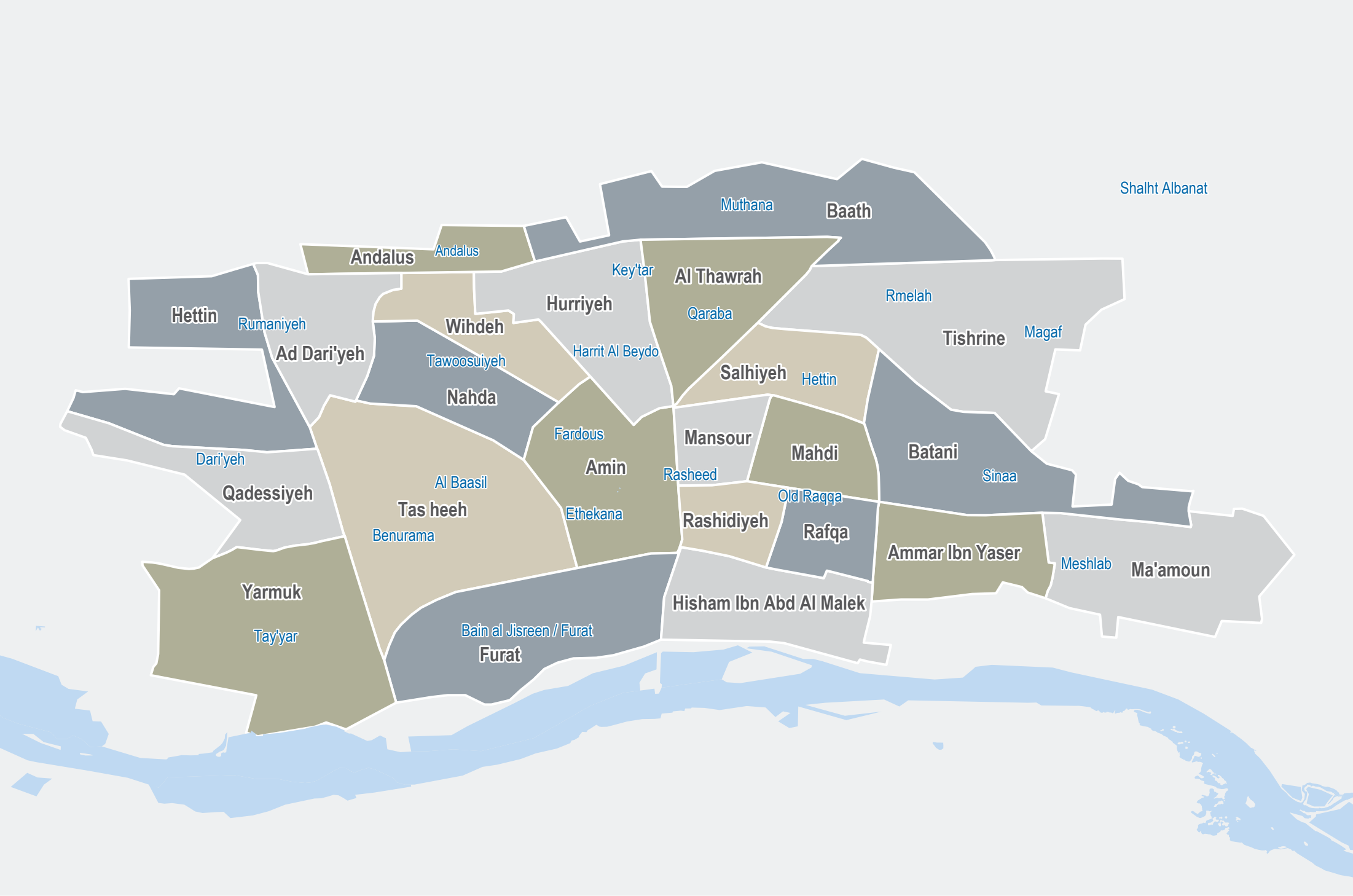
Source: Administrative Neighbourhood Boundaries - Syria COD, Humanitarian Data Exchange
The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by REACH or the United Nations.

Baath Neighbourhood (Andalus / Muthana)
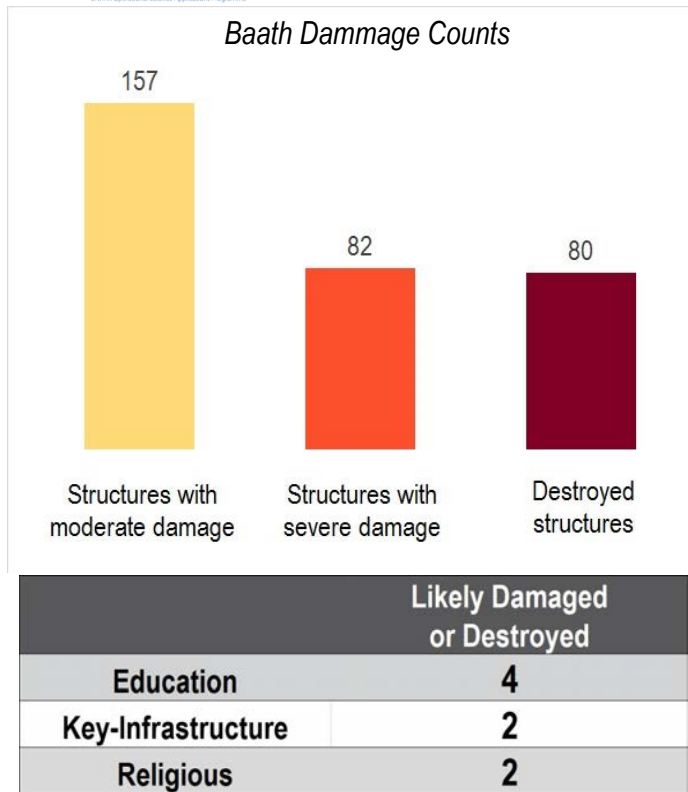## Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Baath Dammage Counts

157 — Structures with moderate damage
82 — Structures with severe damage
80 — Destroyed structures

	Likely Damaged or Destroyed
Education	4
Key-Infrastructure	2
Religious	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.

Legend (Likely damaged or destroyed*)

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

Andalus / Andalus — Muthana — Baath
Shaht Albanat
Rumaneh — Wihdeh — Hurriyeh — Saliheh — Magal
Daryah — Nahda — Key'tar — Rmelan
Hetten — Dari'ah — Mansour
Qadessiyeh — Amin — Batani
Benurama — Al Baasi — Rashid — Saliheh
Yarmuk — Tas heeh — Rashidiyeh Rafqa — Ammar — Seraa
Furat — Abd Al Malek — Hisham Ibn Yaser — Meshlab
Ma'amoun

Inset map (Syria):
TURKEY — AL HASAKEH — ALEPPO — IDLEB — AR RAQQA — Ar Raqqa City — DEIR EZ ZOR — LATTAKIA — HAMA — HOMS — TARTOUS — DAMASCUS — RURAL DAMASCUS — IRAQ — QUNEITRA — DAR'A — AS SWEIDA — JORDAN

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.

Map labels:
Grain Mill
Union of Peasants Gas Station
Khawarezmi School
Industrial Institute
Haruon Rashid Mosque
Muthana
Janin School
Anas Ibn Malik Mosque
Ismail Belqer Shcool
Directorate of Transport
Andalus
Baath
Baath Hurriyeh
Al Thawrah
Baath Tishrine
Key'tar
Al Thawrah Tishrine
Rmelah
Qaraba
Tishrine Saliyeh
Hurriyeh Wihdeh
Harrit Al Beydo
Al Thawrah Hurriyeh
Al Thawrah Saliyeh
Hettin
Saliyeh Batani
Tishrine Batani
Wihdeh Nahda
Wihdeh Amin
Hurriyeh Amin
Saliyeh Mansour
Saliyeh Mahdi

Scale: 0 50 100 200 300 400 500 600 Meters

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Andalus Neighbourhood (Andalus)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Andalus Dammage Counts

30	14	17
Structures with moderate damage	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	2
Religious	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.
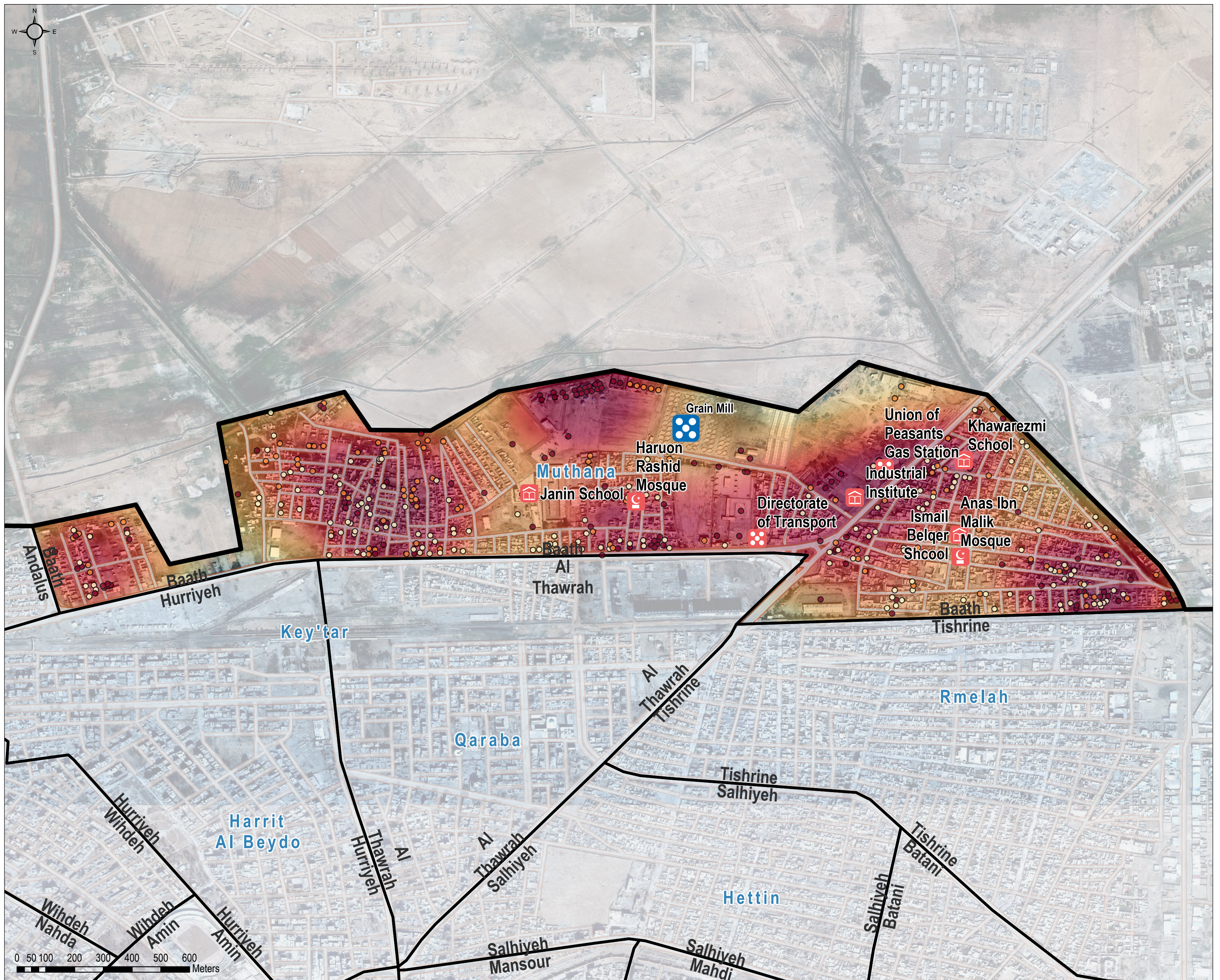
Legend:

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

- Neighbourhood Profile
- Neighbourhood Boundary

Map labels:

Abu Jaafar Mansour School

Abu Jaafar Mansour Mosque

Andalus

Baath

Faculty of Agriculture

Andalus Hurriyeh

Andalus Ad Dari'yeh

Andalus Wihdeh

Ad Dari'yeh Wihdeh

Hurriyeh Wihdeh

Ad Dari'yeh Nahda

Wihdeh Nahda

Overview inset labels:

Andalus, Baath, McPorta, Key, Al Thawrah, Rmelah, Shaht Albanat, Tishrine, Magaf, Ramouna, Ad Wihdeh, Dari'yeh, Hurriyeh, Qanatip, Nahda, Mansour, Batani, Qaroug, Amin, Neep, Mahdi, Sinaa, Hettin, Al Baasi, Rashidiyeh, Div Raqqa, Ammar, Qadessiyeh, Benurama, Tas heeh, Rafqa, Ibn Yaser, Meshlab, Ma'amoun, Yarmuk, Bab al Hasian, Hisham Ibn, Taylur, Furat, Abd Al Malek

Syria inset labels:

TURKEY, AL HASAKEH, ALEPPO, AR RAQQA, Ar Raqqa City, IDLEB, LATTAKIA, HAMA, DEIR EZ ZOR, TARTOUS, HOMS, DAMASCUS, RURAL DAMASCUS, QUNEITRA, DAR'A, AS SWEIDA, IRAQ, JORDAN
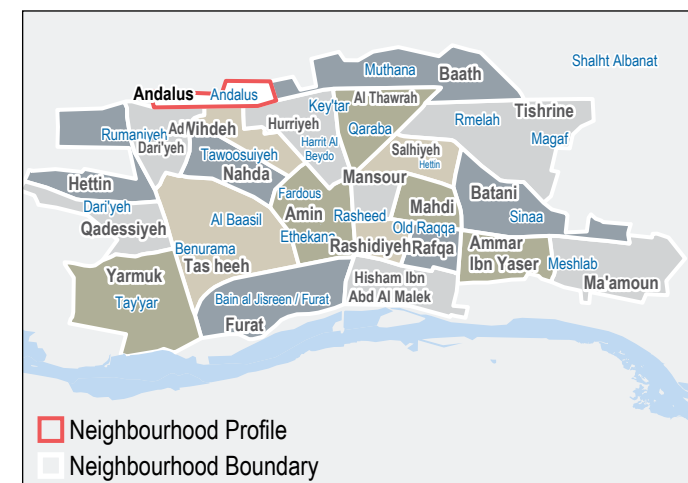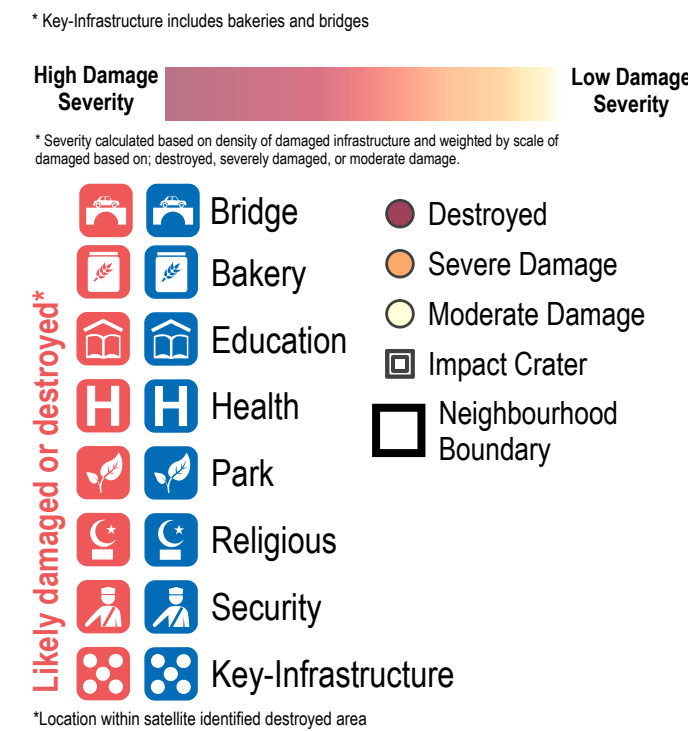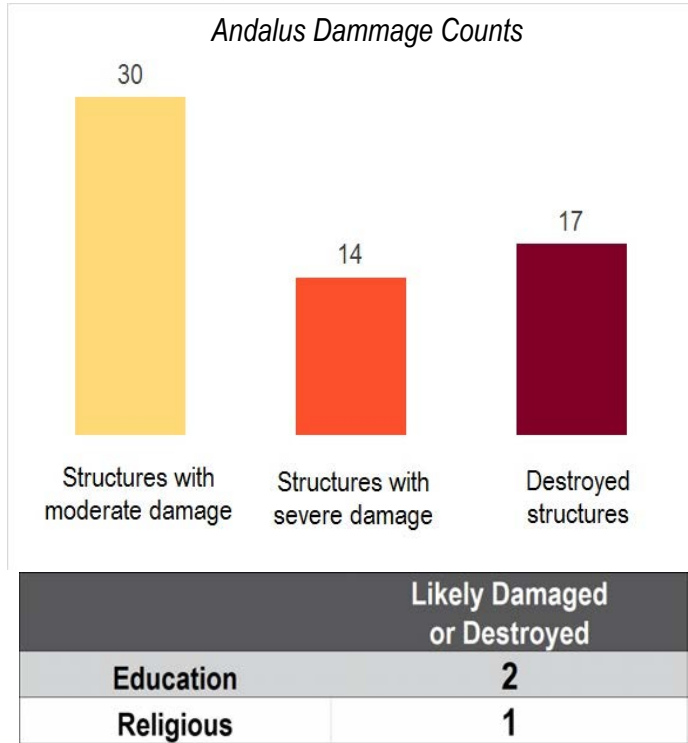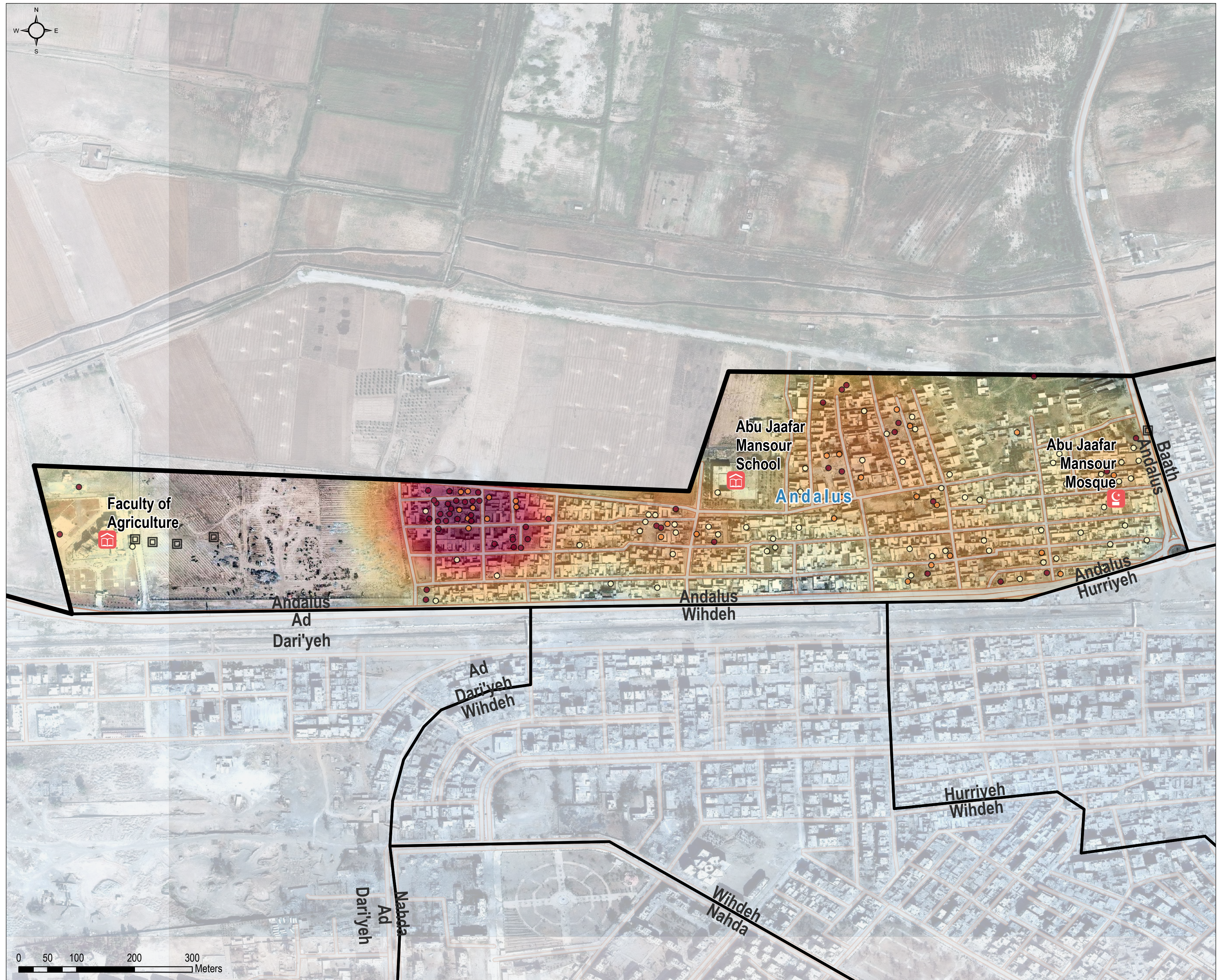
0 50 100 200 300 Meters

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.
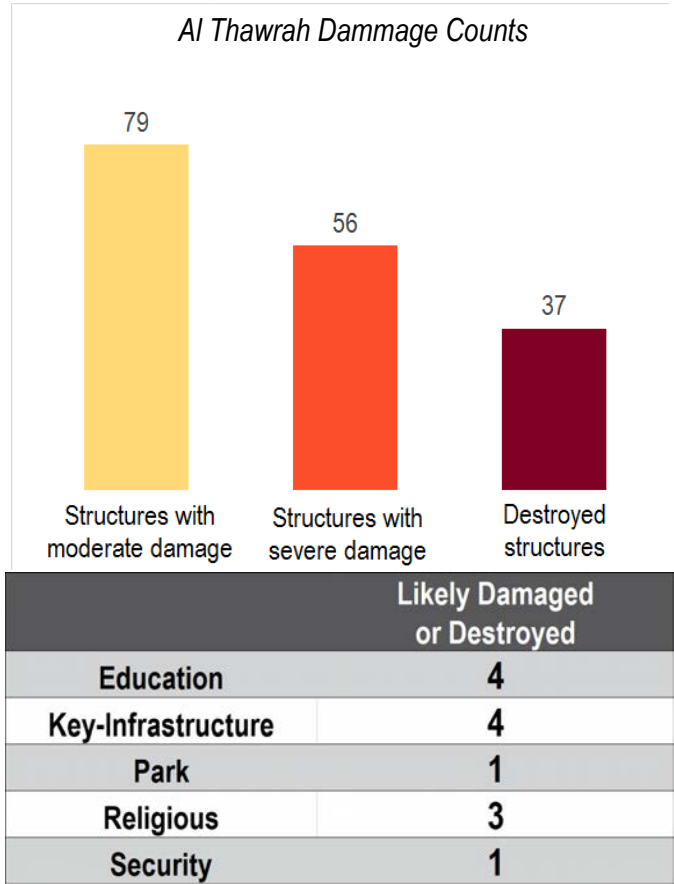
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Al Thawrah Neighbourhood (Qaraba / Key'tar)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

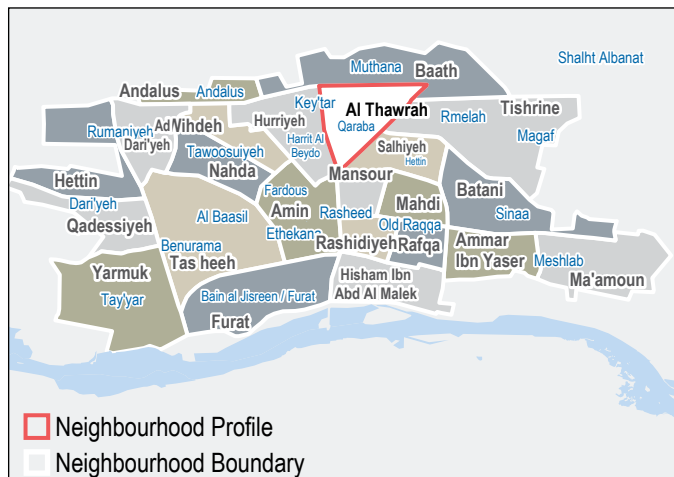### Al Thawrah Dammage Counts

79 — Structures with moderate damage	
56 — Structures with severe damage	
37 — Destroyed structures	

Likely Damaged or Destroyed	
Education	4
Key-Infrastructure	4
Park	1
Religious	3
Security	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity ← → **Low Damage Severity**

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- ● Destroyed
- ● Severe Damage
- ○ Moderate Damage
- ▢ Impact Crater
- ▢ Neighbourhood Boundary

*Location within satellite identified destroyed area

▢ Neighbourhood Profile
▢ Neighbourhood Boundary

Map labels:
- Baath Al Thawrah
- Salah El Din Mosque
- Key'tar
- Grain Silos
- Baath Tishrine
- Train Park
- Grain Foundation
- Reserve Bakery
- Al Thawrah Tishrine
- Hussain Mosque
- Mutanabi School
- Faculty of Education
- Qaraba
- Recruitment Foundation
- Farabi School
- Electricity Corporation
- College of Literature
- Tishrine Salhiyeh
- Hettin
- Al Thawrah Salhiyeh
- Ar Thawrah Hurriyeh
- Abdullah Ibn Masoud Mosque
- Salhiyeh Mansour
- Mansour Mahdi
- Salhiyeh Mahdi
- Hurriyeh Amin

Inset map labels (Ar Raqqa City area):
Andalus, Andalosi, Mufireh, Baath, Shaikt Albanat, Ad Wihdeh, Hurriyem, Rmelan, Magdi, Romaniyeh, Dari'yeh, Key'tar, Al Thawrah, Qaraba, Tishrine, Salhiyeh, Caross, Nahda, Mansour, Hetti, Al Baassi, Amin, Rashidiyeh, Mahdi, Batani, Qadessiyeh, Benurama, Tas heeh, Rafqa, Old Raqqa, Sinaa, Yarmuk, Hisham Ibn Yaser, Ammar, Meshleb, Tanbra, Furat, Abd Al Malek, Ma'amoun, Hisham Ibn

Location map labels:
TURKEY, AL HASAKEH, ALEPPO, IDLEB, AR RAQQA, Ar Raqqa City, DEIR EZ ZOR, LATTAKIA, HAMA, HOMS, TARTOUS, DAMASCUS, RURAL DAMASCUS, QUNEITRA, DARA'A, AS SWEIDA, IRAQ, JORDAN

0 50 100 200 Meters

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Hurriyeh Neighbourhood (Harrit Al Beydo / Key'tar)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

For Humanitarian Use Only
Production date : 15 February 2018

Hurriyeh Dammage Counts

44 — Structures with moderate damage
16 — Structures with severe damage
24 — Destroyed structures

	Likely Damaged or Destroyed
Education	3
Health	1
Key-Infrastructure	5
Park	2
Religious	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.
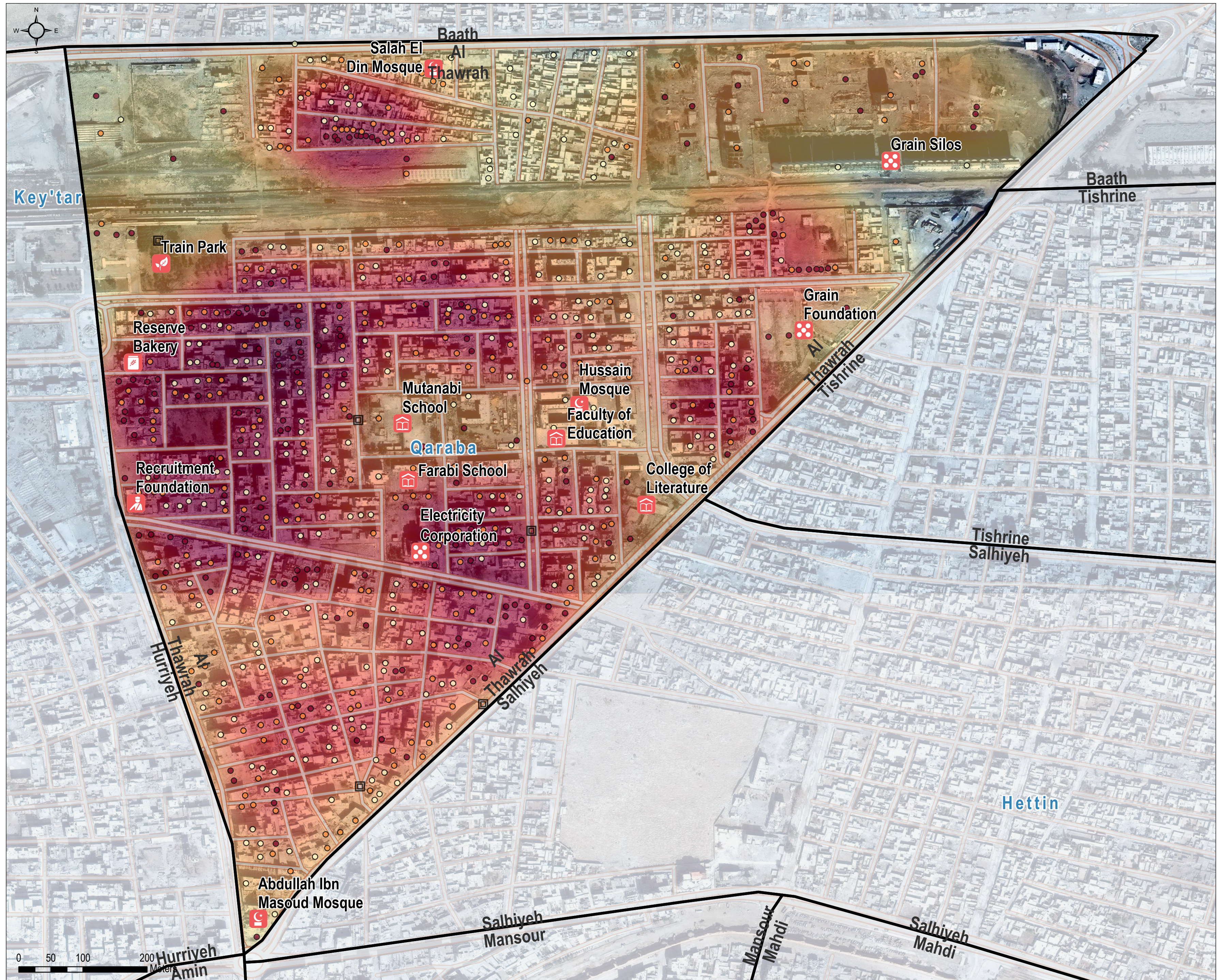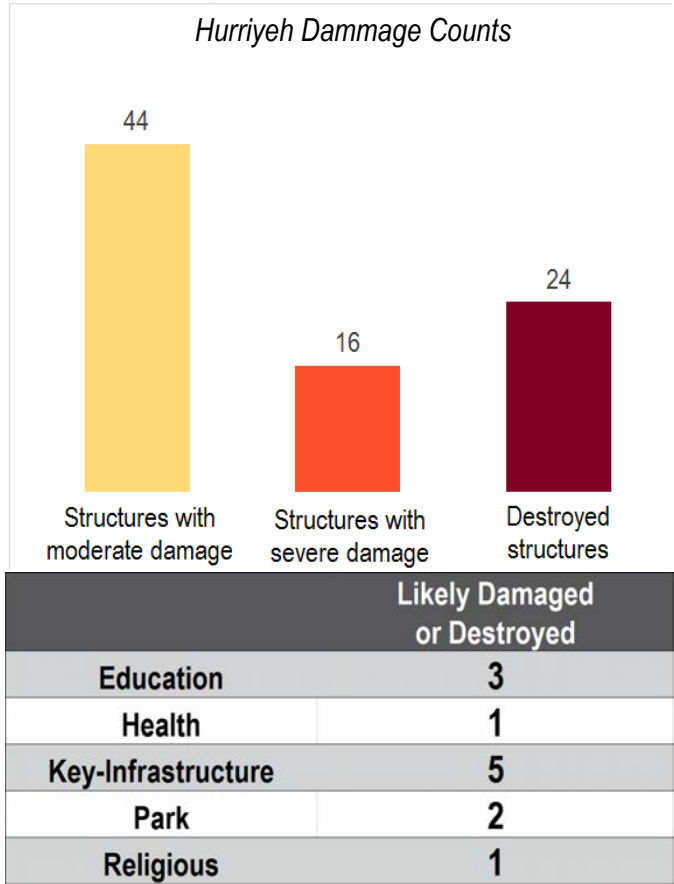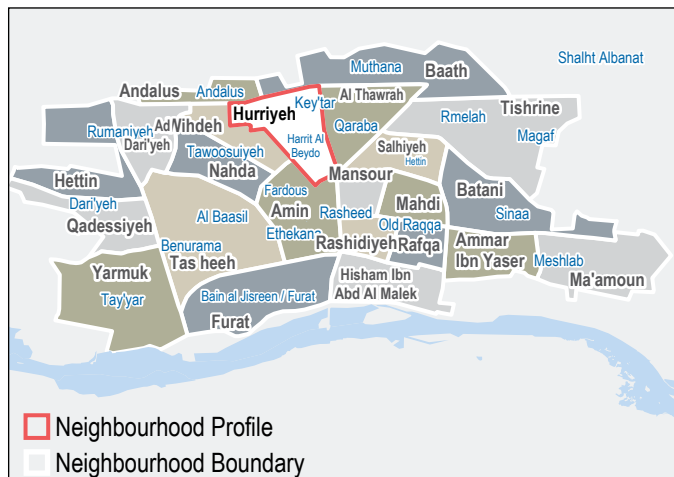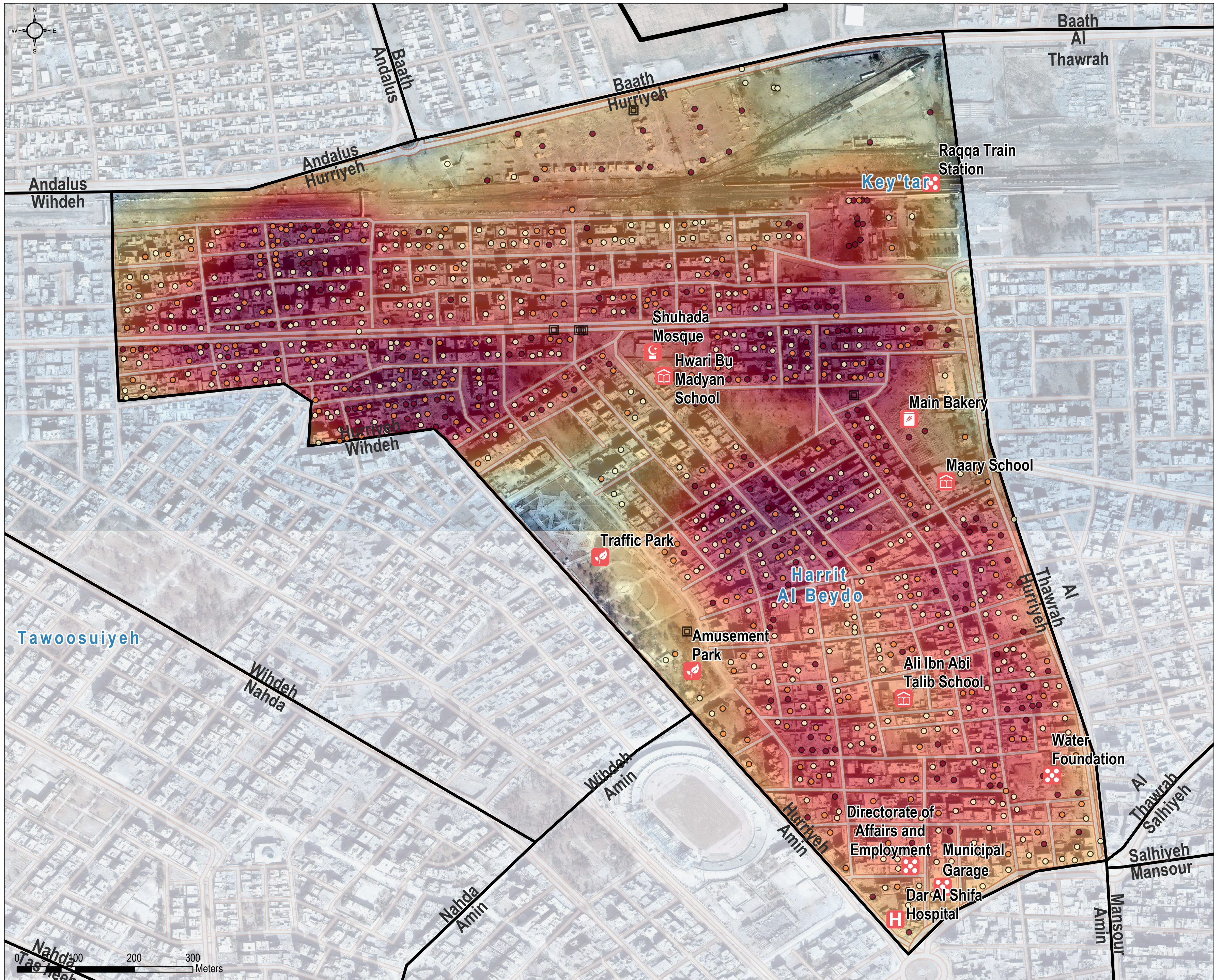
Legend
- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

Likely damaged or destroyed

- ● Destroyed
- ● Severe Damage
- ○ Moderate Damage
- ▣ Impact Crater
- ▢ Neighbourhood Boundary

*Location within satellite identified destroyed area

□ Neighbourhood Profile
Neighbourhood Boundary

Map labels

Baath Andalus
Baath Hurriyeh
Baath Al Thawrah
Andalus Hurriyeh
Andalus Wihdeh
Andalus
Raqqa Train Station
Key'tar
Shuhada Mosque
Hwari Bu Madyan School
Main Bakery
Harri1 Wihdeh
Maary School
Traffic Park
Harrit Al Beydo
Al Thawrah
Amusement Park
Ali Ibn Abi Talib School
Tawoosuiyeh
Water Foundation
Wihdeh Nahda
Wihdeh Amin
Directorate of Affairs and Employment
Municipal Garage
Al Thawrah Salhiyeh
Salhiyeh Mansour
Hurriyeh Amin
Nahda Amin
Dar Al Shifa Hospital
Mansour Amin
Nahda Tas heeh

Location map
TURKEY
AL HASAKEH
ALEPPO
IDLEB
AR RAQQA
Ar Raqqa City
LATTAKIA
TARTOUS
HAMA
HOMS
DEIR EZ ZOR
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A
AS SWEIDA
JORDAN
IRAQ

Neighbourhood inset
Andalus, Ar-Raqi, Baath, Rumaylan, Ad Wihdeh, Daryah, Hurriyeh, Key'tar, Al Thawrah, Rmelah, Magel, Tishrine, Hettin, Nahda, Mansour, Al Baghli, Al Rashid, Qadessiyeh, Amin, Rasheeb, Batani, Mahdi, Benghazi, Tas heeh, Ammar Ibn Yaser, Meshleb, Ma'amoun, Yarmuk, Tayty, Hisham Ibn Abd Al Malek, Furat

Scale: 0 100 200 300 Meters

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.

Data sources:
Infrastructure Classification - International NGO Safety Organisation (INSO)
Satellite Imagery: WorldView-3 from 21 October 2017
Copyright: DigitalGlobe, Inc
Source: US Department of State, Humanitarian Information Unit, NextView License
Road Data: OpenStreetMap
Admin Data: UN OCHA
Production: UNITAR-UNOSAT
Production: REACH Initiatives

Analysis Conducted comparing:
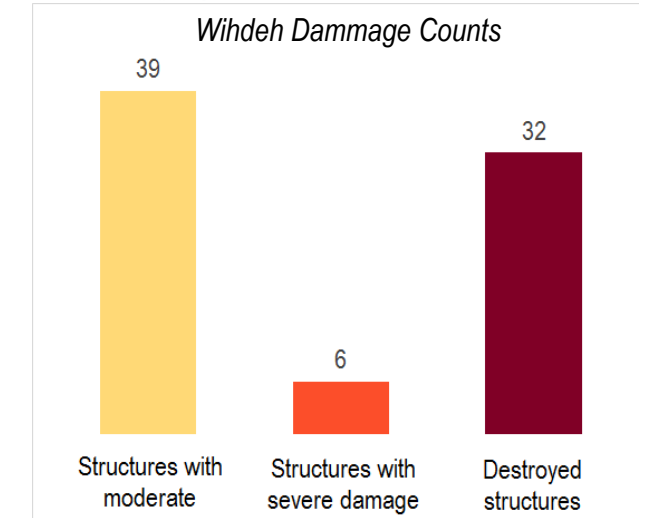Satellite Data (1): WorldView-3 from 21 October 2017
Copyright: DigitalGlobe, Inc
Source: US Department of State, Humanitarian Information Unit, NextView License
Satellite Data (2): WorldView-2 from 03 February 2017, 12 February 2014
Copyright: DigitalGlobe, Inc
Source: US Department of State, Humanitarian Information Unit, NextView License

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Wihdeh Neighbourhood (Tawoosuiyeh)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Wihdeh Dammage Counts

39	6	32
Structures with moderate	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	3
Key-Infrastructure	3
Park	2
Religious	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity ————— Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.

Legend

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

- Neighbourhood Profile
- Neighbourhood Boundary

Map labels

Andalus
Baath Andalus
Baath Hurriyeh
Andalus Hurriyeh
Andalus Ad Dari'yeh
Andalus Wihdeh
Wihdeh Hurriyeh
Ad Dari'yeh Wihdeh
Tameer Comapny
Furqan Mosque
Red Crescent Ar-Raqqa Branch
Ali Dham School
Financial Building
Hurriyeh Wihdeh
Maawiyah School
Muawiya Ibn Abi Sufyan School
White Park
Ansar Mosque
Ad Dari'yeh Nahda
Tawoosuiyeh
Wihdeh Nahda
Jalaa Park
Wihdeh Amin
Nahda Tas heeh
Nahda Amin

Location maps

Ar Raqqa City

TURKEY
AL HASAKEH
ALEPPO
IDLEB
AR RAQQA
LATTAKIA
HAMA
DEIR EZ ZOR
TARTOUS
HOMS
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A
AS SWEIDA
JORDAN
IRAQ

Scale

0 50 100 200 Meters

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Tishrine Neighbourhood (Magaf)

Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Tishrine Dammage Counts

- 194 — Structures with moderate damage
- 64 — Structures with severe damage
- 121 — Destroyed structures

	Likely Damaged or Destroyed
Education	6
Religious	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — **Low Damage Severity**

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.
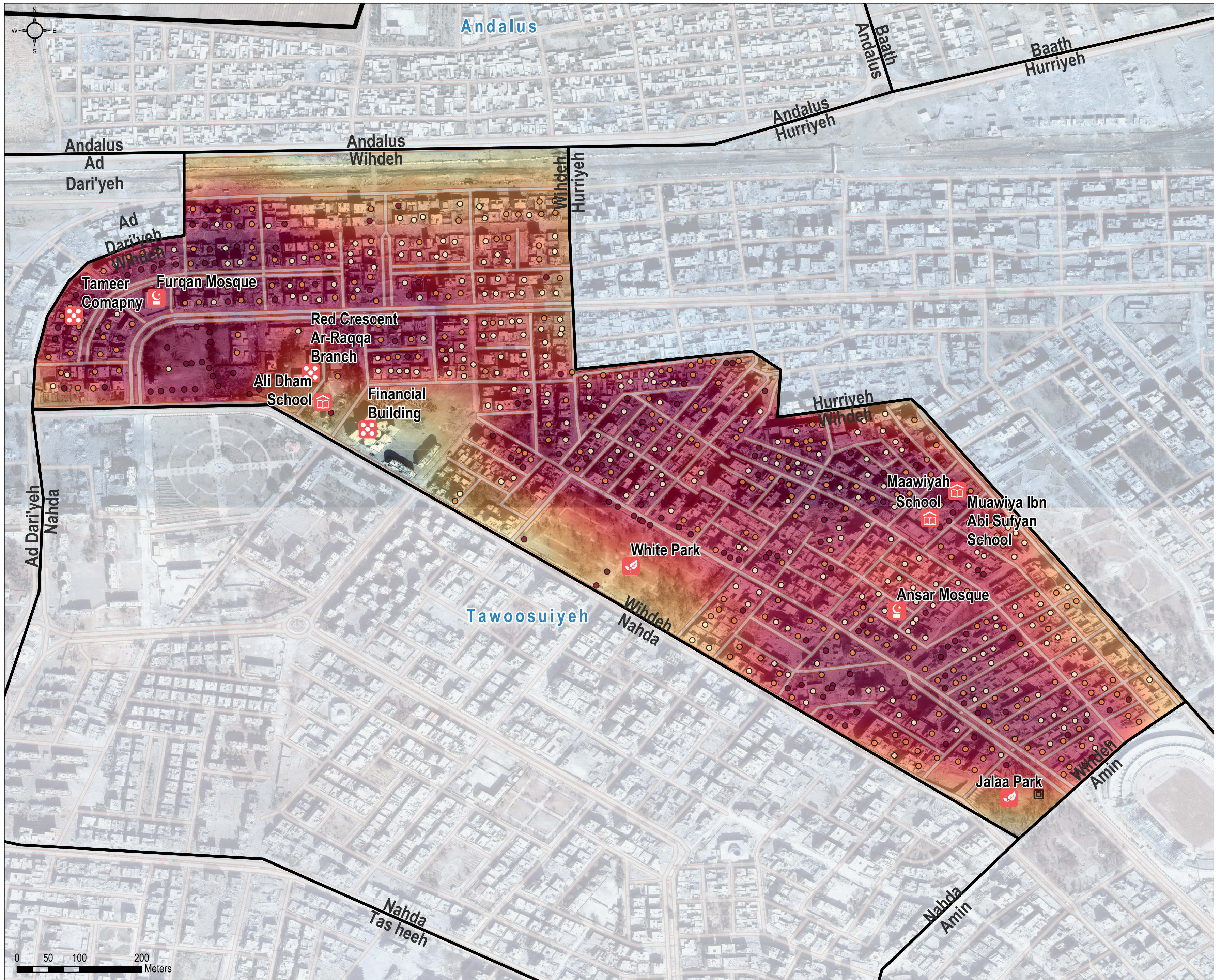
Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

- Neighbourhood Profile
- Neighbourhood Boundary

TURKEY
AL HASAKEH
ALEPPO
IDLEB
AR RAQQA
Ar Raqqa City
LATTAKIA
HAMA
DEIR EZ ZOR
TARTOUS
HOMS
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A
AS SWEIDA
JORDAN
IRAQ

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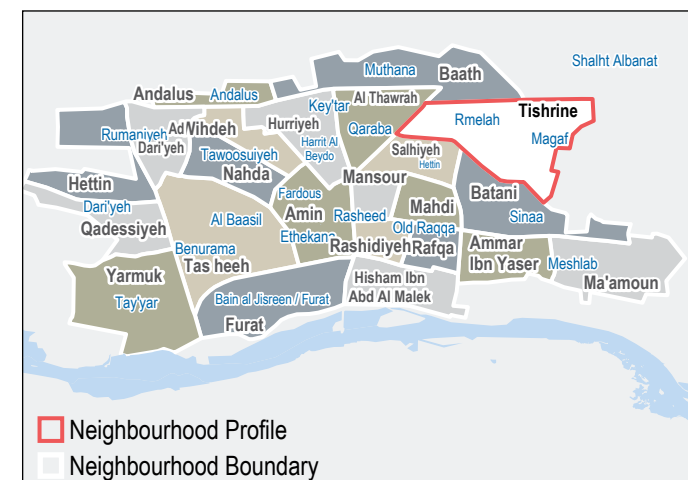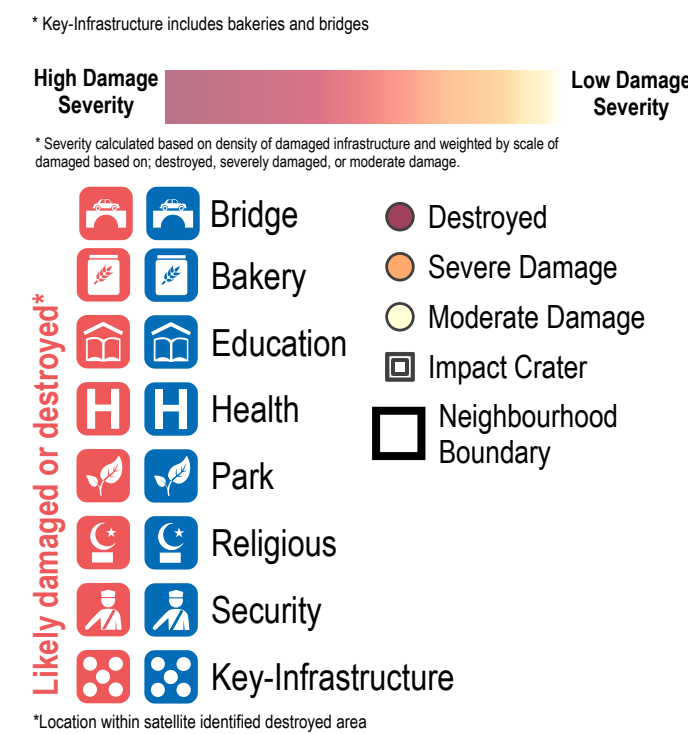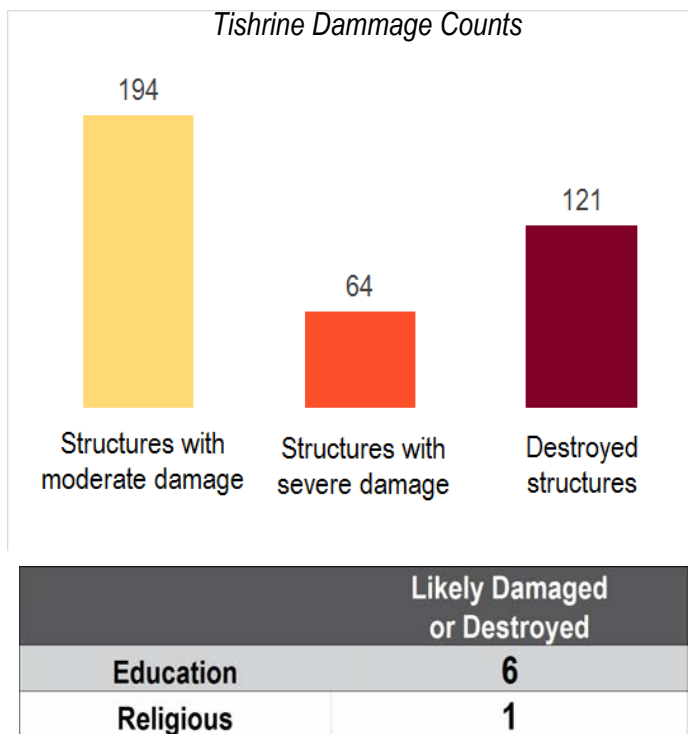
Data sources:
Infrastructure Classification - International NGO Safety Organisation (INSO)

Satellite Imagery: WorldView-3 from 21 October 2017
Copyright: DigitalGlobe, Inc
Source: US Department of State, Humanitarian
Information Unit, NextView License
Road Data: OpenStreetMap
Admin Data: UN OCHA
Analysis: UNITAR-UNOSAT
Production: REACH Initiatives

Analysis Conducted comparing:
Satellite Data (1): WorldView-3 from 21 October 2017
Copyright: DigitalGlobe, Inc
Source: US Department of State,
Humanitarian Information Unit, NextView License

Satellite Data (2): WorldView-2 from 03 February 2017,
12 February 2014
Copyright: DigitalGlobe, Inc
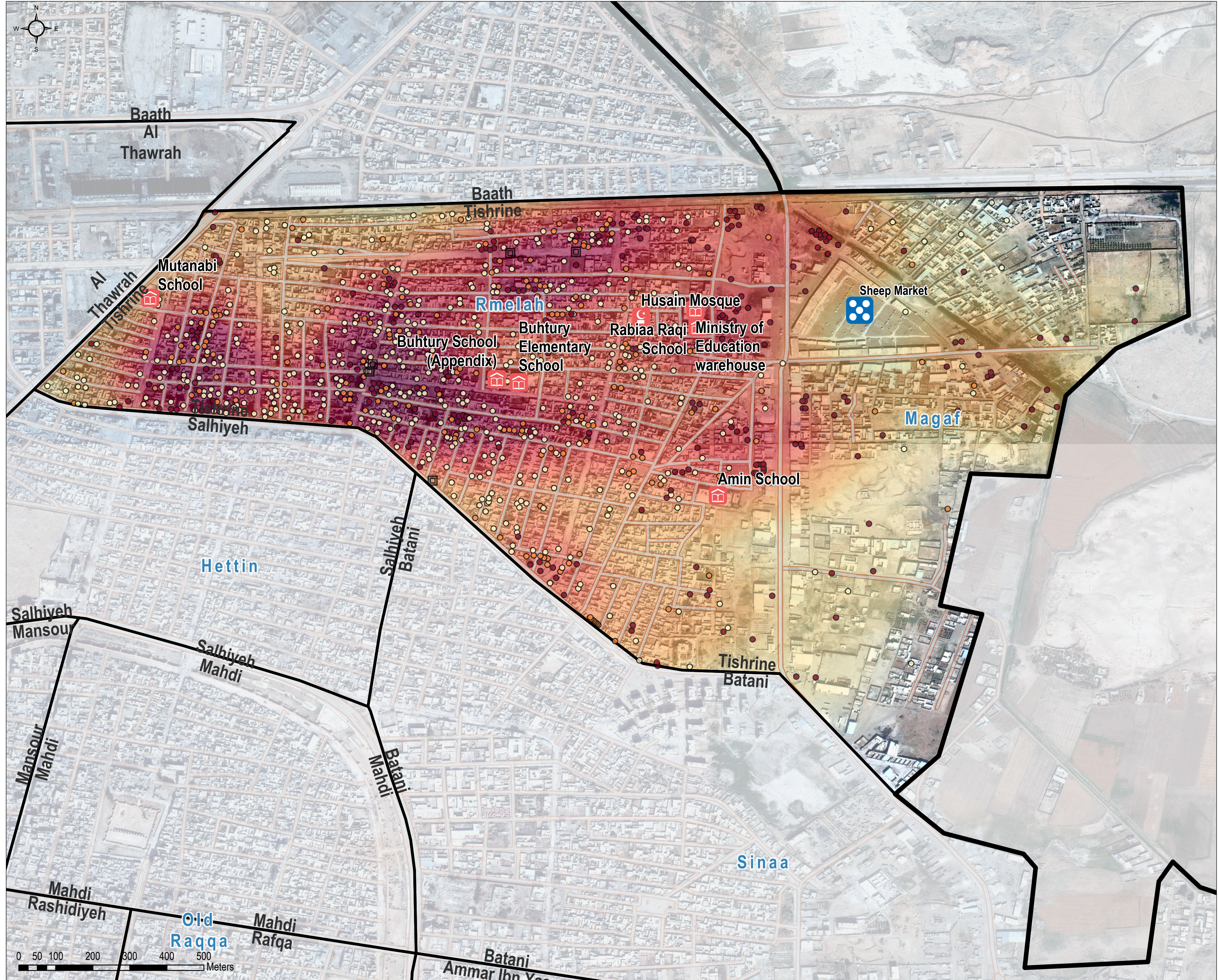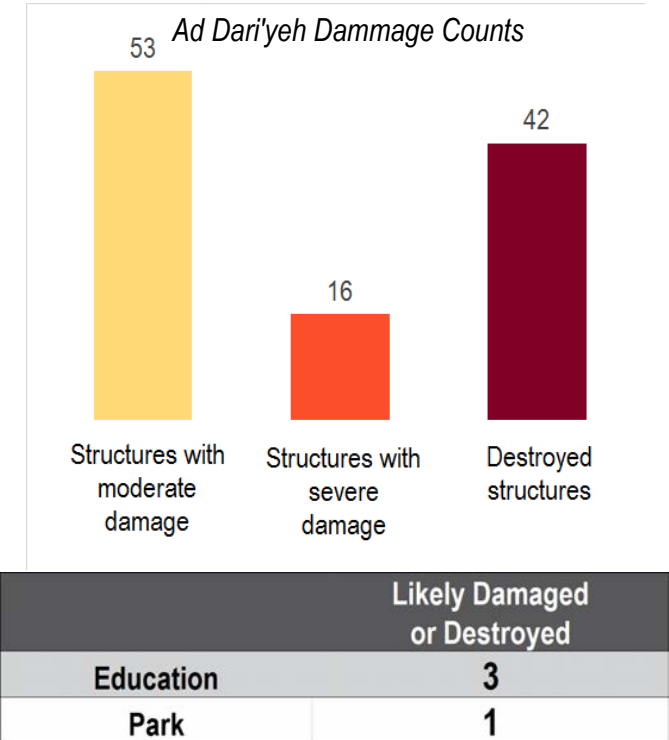Source: US Department of State, Humanitarian Information Unit,
NextView License

Map labels

Baath Al Thawrah
Baath Tishrine
Al Thawrah Tishrine
Mutanabi School
Rmelah
Husain Mosque
Buhtury School (Appendix)
Buhtury Elementary School
Rabiaa Raqi School
Ministry of Education warehouse
Sheep Market
Magaf
Salhiyeh
Amin School
Hettin
Salhiyeh Batani
Salhiyeh Mansou
Salhiyeh Mahdi
Tishrine Batani
Mansour Mahdi
Batani Mahdi
Sinaa
Mahdi Rashidiyeh
Mahdi Rafqa
Old Raqqa
Batani Ammar Ibn Ya...

0 50 100 200 300 400 500 Meters

Andalus / Andaluz
Mufteea
Baath
Shaikt Albanat
Ramerman / Ad Wiheda
Hurriyeh
Thawrah
Key...
Tishrine
Dari'yeh
Nahda
Karilos
Rmelah
Magaf
Qadessiyeh
Al Baasil
Rasheed
Salhiyeh
Hettin
Ehkeira
Rashidiyeh
Yarmuk
Benurama
Al Rooaa
Rafqa
Sinaa
Amin
Ammar
Tayfur
Tas heeh
Ibn Yaser
Meshlab
Safa Kasai / Furati
Hisham Ibn Abd Al Malek
Ma'amoun

REACH
An initiative of
IMPACT Initiatives
ACTED and UNISAT

Ad Dari'yeh Neighbourhood (Rumaniyeh)

Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Ad Dari'yeh Dammage Counts

53	16	42
Structures with moderate damage	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	3
Park	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.
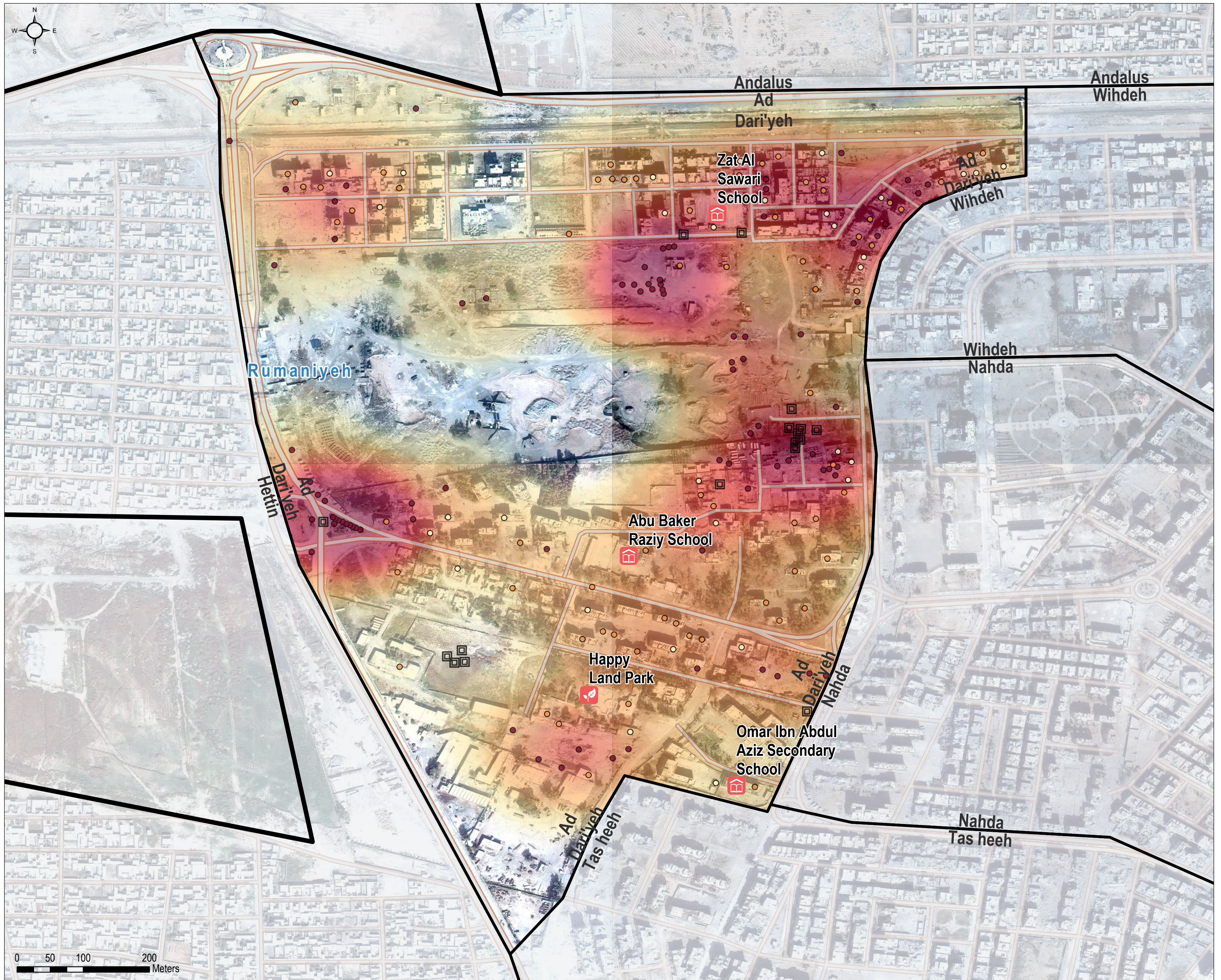
Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

*Location within satellite identified destroyed area

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

- Neighbourhood Profile
- Neighbourhood Boundary

Map labels

Andalus Ad Dari'yeh
Andalus Wihdeh
Zat Al Sawari School
Ad Dari'yeh Wihdeh
Rumaniyeh
Wihdeh Nahda
Ad Dari'yeh Hettin
Abu Baker Raziy School
Ad Dari'yeh Nahda
Happy Land Park
Omar Ibn Abdul Aziz Secondary School
Ad Dari'yeh Tas heeh
Nahda Tas heeh

Overview map labels

Shaiht Albanat, Baath, Dummana, Kefa, Al Thawrah, Tishreen, Rmelah, Magat, Andalus, Arkoub, Hurriyeh, Garadi, Salhiyeh, Mansour, Wihdeh, Hettin, Nahda, Harm Kadir, Rasheed, Batani, Mahdi, Ad Dari'yeh, Qadessiyeh, Al Baasil, Fardos, Amin, Rasheed, Sbaei, Al Raqqa, Benurama, Rashidiyeh, Rafqa, Ammar, Yarmuk, Tas heeh, Hisham Ibn, Ibn Yaser, Meshlab, Bani Hasan, Rawda, Murouj, Abd Al Malek, Ma'amoun, Trailyeh, Furat

TURKEY
AL HASAKEH
ALEPPO
IDLEB
AR RAQQA
Ar Raqqa City
LATTAKIA
HAMA
DEIR EZ ZOR
TARTOUS
HOMS
DAMASCUS
RURAL DAMASCUS
IRAQ
QUNEITRA
DAR'A
AS SWEIDA
JORDAN

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.
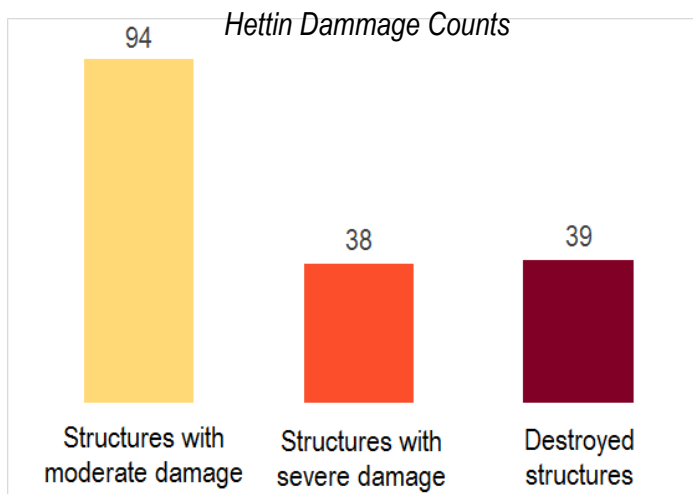
0 50 100 200 Meters

REACH
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IMPACT Initiatives
ACTED and UNOSAT

Hettin Neighbourhood (Rumaniyeh / Dari'yeh)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Hettin Dammage Counts

94

38

39

Structures with moderate damage

Structures with severe damage

Destroyed structures

	Likely Damaged or Destroyed
Key-Infrastructure	2
Religious	1
Security	1

* Key-Infrastructure includes bakeries and bridges

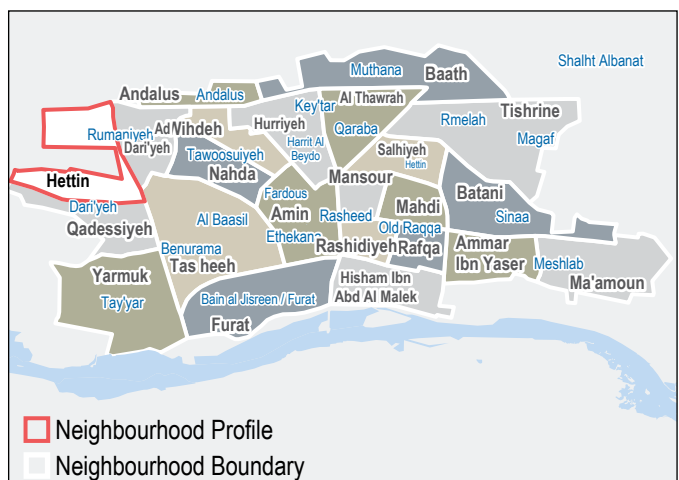High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
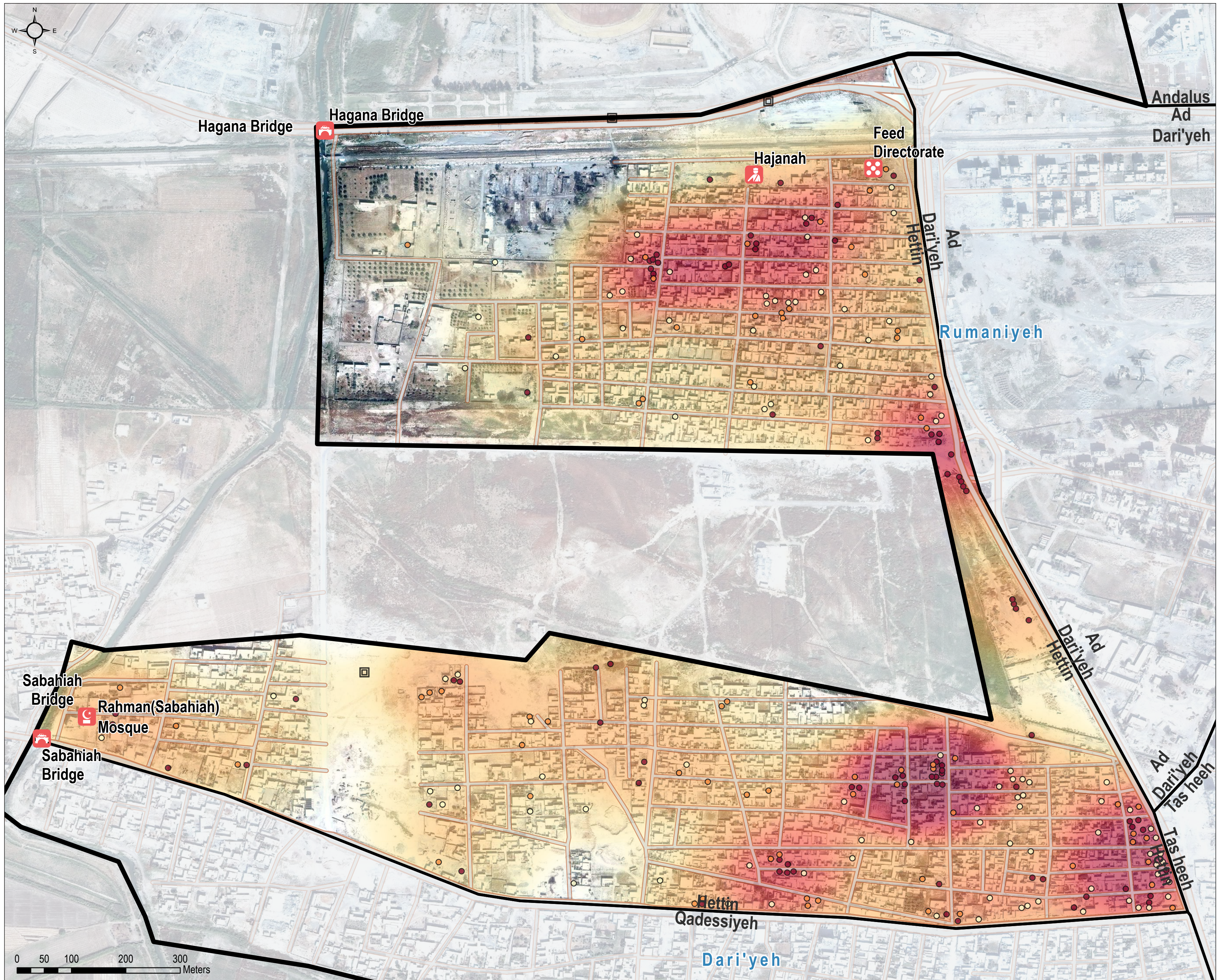- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

Andalus Al-Andalus
Ad Vihdeh
Rumaniyeh
Dari'yeh
Hettin
Dari'yeh
Qadessiyeh
Yarmuk Tas heeh
Tejow
Furat

Muhora Baath
Hurriyeh Al Thawrah
Key Akrab Rmeiah Tishrine
Nahda Hami Rasheed Saihiyen Magal
Al Baasil Amin Mahdi
Ekhlan Old Raqqa Mansour Batani
Rashidiyeh Rafqa Shyeh
Hasan Jasem Jura Hisham Ibn Ibn Yaser Meshiab
Abd Al Malik Ma'amoun

Shakht Albanat

Locator map:
TURKEY
AL HASAKEH
ALEPPO
IDLEB AR RAQQA Ar Raqqa City
LATTAKIA HAMA DEIR EZ ZOR
TARTOUS HOMS
DAMASCUS
RURAL DAMASCUS
QUNEITRA AS SWEIDA
DAR'A JORDAN
IRAQ

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.

Map labels
- Hagana Bridge
- Hagana Bridge
- Andalus Ad Dari'yeh
- Feed Directorate
- Hajanah
- Ad Dari'yeh / Hettin
- Ad Dari'yeh
- Rumaniyeh
- Sabahiah Bridge
- Rahman (Sabahiah) Mosque
- Sabahiah Bridge
- Ad Dari'yeh / Hettin
- Ad Dari'yeh
- Tas heeh
- Hettin Qadessiyeh
- Dari'yeh

0 50 100 200 300 Meters

REACH
An initiative of IMPACT Initiatives
ACTED and UNOSAT

Salhiyeh Neighbourhood (Hettin)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Salhiyeh Dammage Counts

38	22	6
Structures with moderate damage	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	2
Health	1
Religious	3

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary
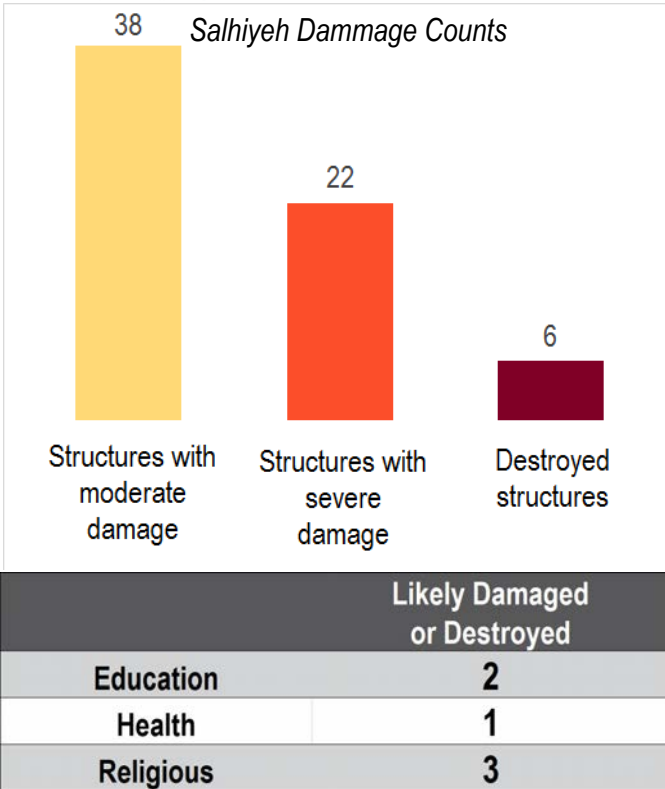
*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

Qaraba

Al Thawrah Tishrine

Tishrine Salhiyeh

Zaid Ibn Harithah Mosque

Al Thawrah Salhiyeh

Mounir Habib Secondary School

Rawdah Mosque

Hettin Cemetery

Salhiyeh Batani

Hettin

Al Thawrah Hurriyeh

Hitten School

Comprehensive Clinics

Salhiyeh Mansour

Salhiyeh Mahdi

Ali Ibn Ali Talib Mosque

Salhiyeh Batani

Mansour Amin

Mansour Mahdi

Batani Mahdi

TURKEY
AL HASAKEH
ALEPPO
AR RAQQA
Ar Raqqa City
IDLEB
DEIR EZ ZOR
LA TAKIA
TARTOUS
HAMA
HOMS
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A
AS SWEIDA
JORDAN
IRAQ

0 50 100 200 Meters

REACH
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ACTED and UNOSAT

Nahda Neighbourhood (Tawoosuiyeh)
Satellite-Detected Severity of Structure Damage - 21 October 2017

Nahda Dammage Counts

16
6
5

Structures with moderate damage
Structures with severe damage
Destroyed structures

	Likely Damaged or Destroyed
Education	8
Key-Infrastructure	1
Park	
Religious	2

* Key-Infrastructure includes bakeries and bridges
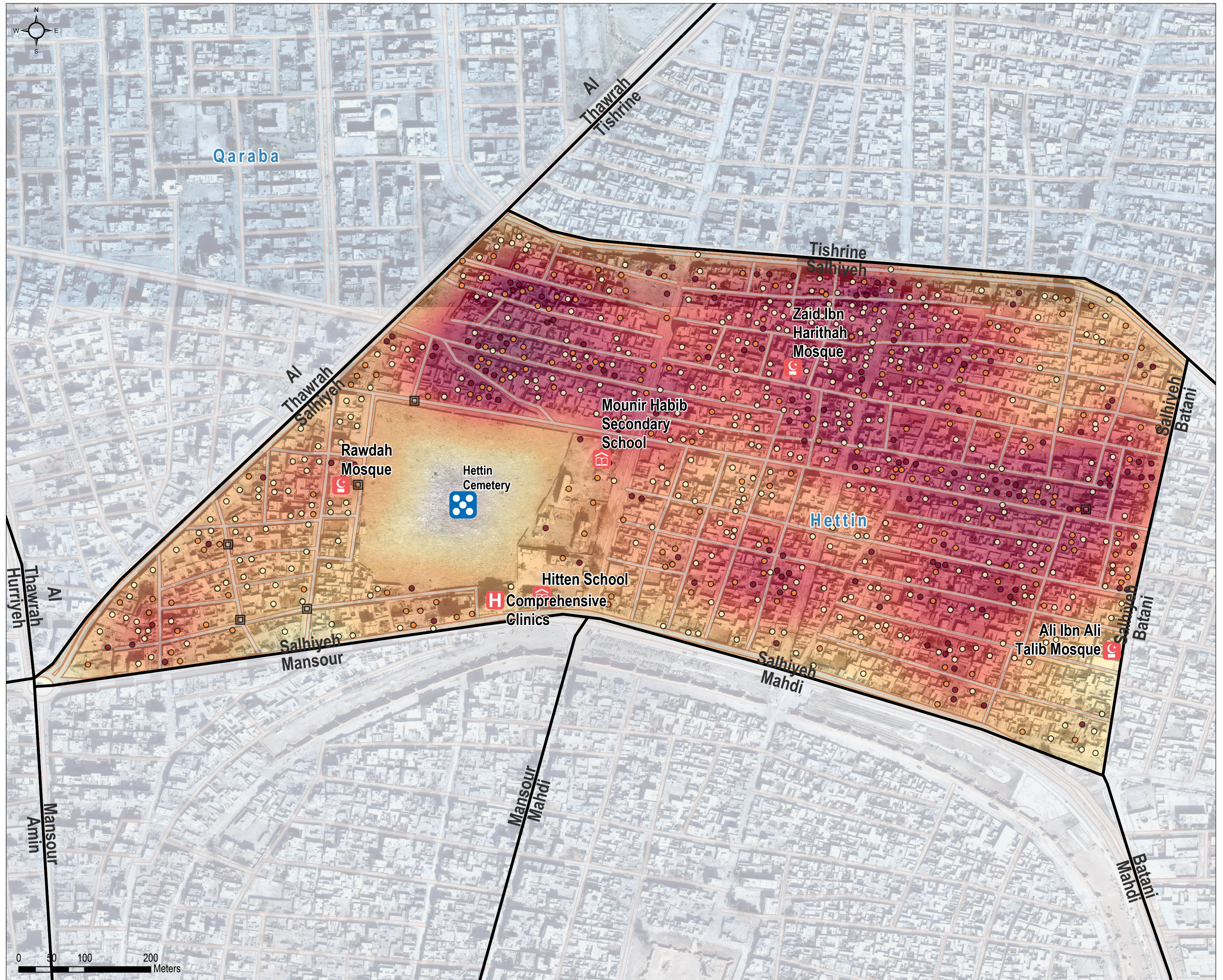
High Damage Severity
Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

	Bridge		Bridge
	Bakery		Bakery
	Education		Education
H	Health	H	Health
	Park		Park
	Religious		Religious
	Security		Security
	Key-Infrastructure		Key-Infrastructure

- ● Destroyed
- ● Severe Damage
- ○ Moderate Damage
- ▣ Impact Crater
- ▢ Neighbourhood Boundary

*Location within satellite identified destroyed area

□ Neighbourhood Profile
□ Neighbourhood Boundary

Map labels:
Ad Dari'yeh Wihdeh
Hurriyeh Wihdeh
Istiklal (Independence) Park
Abi Zar Al Gafari School
Khalil Krish School
Ad Dari'yeh Nahda
Tawoosuiyeh
Wihdeh Nahda
Basrawi Mosque
Rayyan Bakery
Zi Qar Elementary School
Jawad Anzour School
Imam Nawawi Mosque
Ibn Khaldoun School
Ibn Khaldoun School
Hamiydah Thaher School
Hasan Ibn Haytham School
Nahda Tas heeh
Nahda Amin
Amin Tas heeh

Inset map labels:
Andalus, Andalus, Tishrine, Rmeilah, Magaf, Al Thawrah, Key, Jazrah, Saliyeh, Rashid, Mansour, Batani, Hettin, Al Baas, Mahdi, Sinaa, Qadessiyeh, Amin, Yarmuk, Karima, Rashidiyeh, Rafqa, Ammar, Benurama, Hisham Ibn Abd Al Malek, Ibn Yaser, Meshtel, Taqwa, Furat, Ma'amoun
Tawoosuiyeh, Nahda
Shahit Albanat, Baath

Syria inset labels:
TURKEY
AL HASAKEH
ALEPPO
IDLEB
AR RAQQA — Ar Raqqa City
LATTAKIA
HAMA
TARTOUS
HOMS
DEIR EZ ZOR
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A
AS SWEIDA
IRAQ
JORDAN

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.
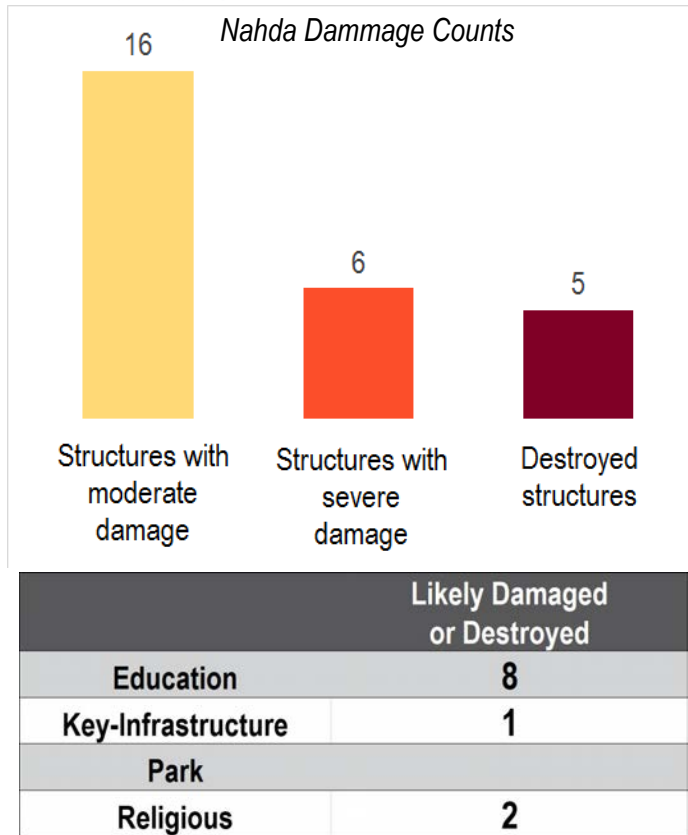
0 50 100 200 Meters

REACH
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ACTED and UNOSAT

Mansour Neighbourhood (Rasheed)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Mansour Dammage Counts

24	8	10
Structures with moderate damage	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	1
Health	1
Key-Infrastructure	2
Religious	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.
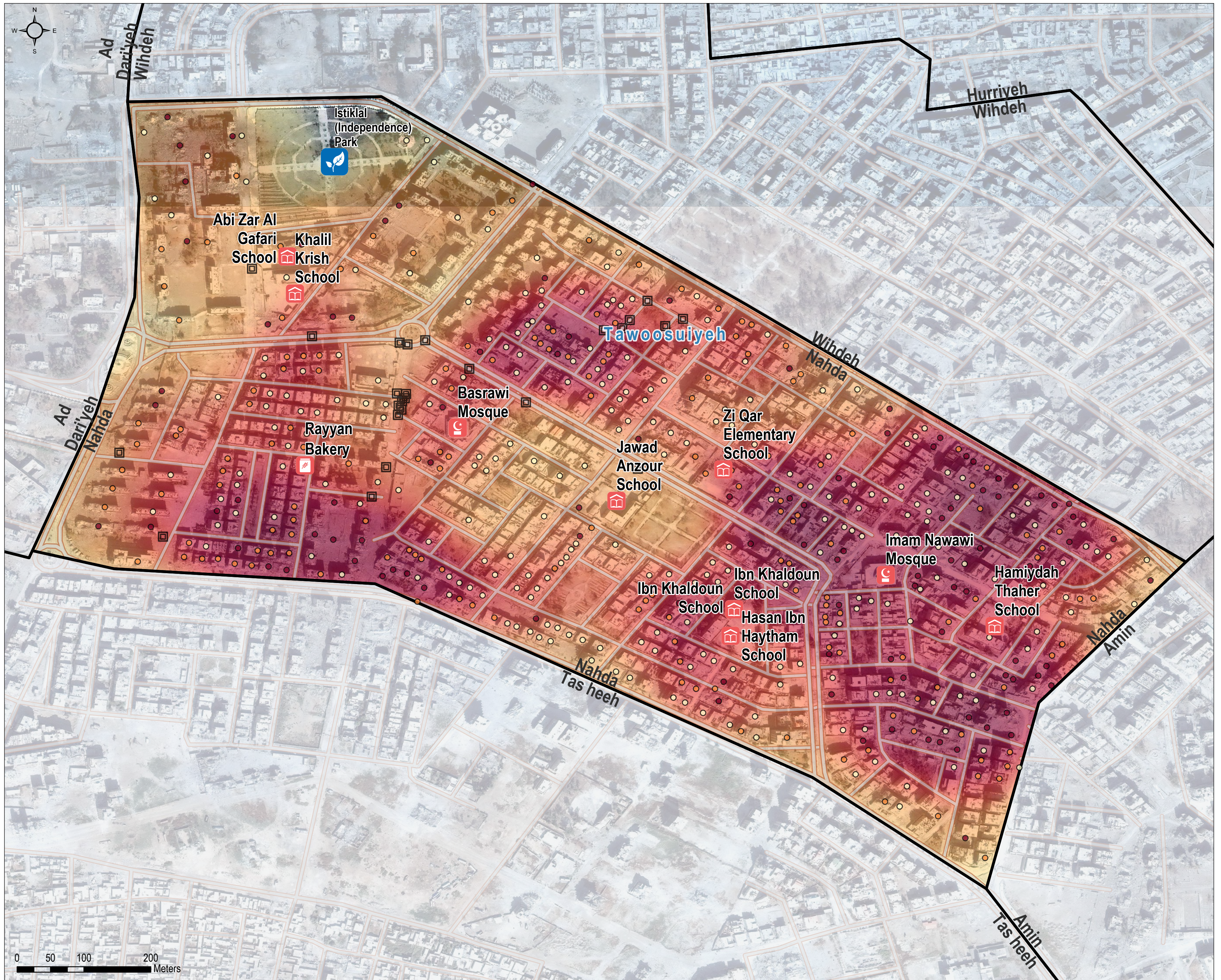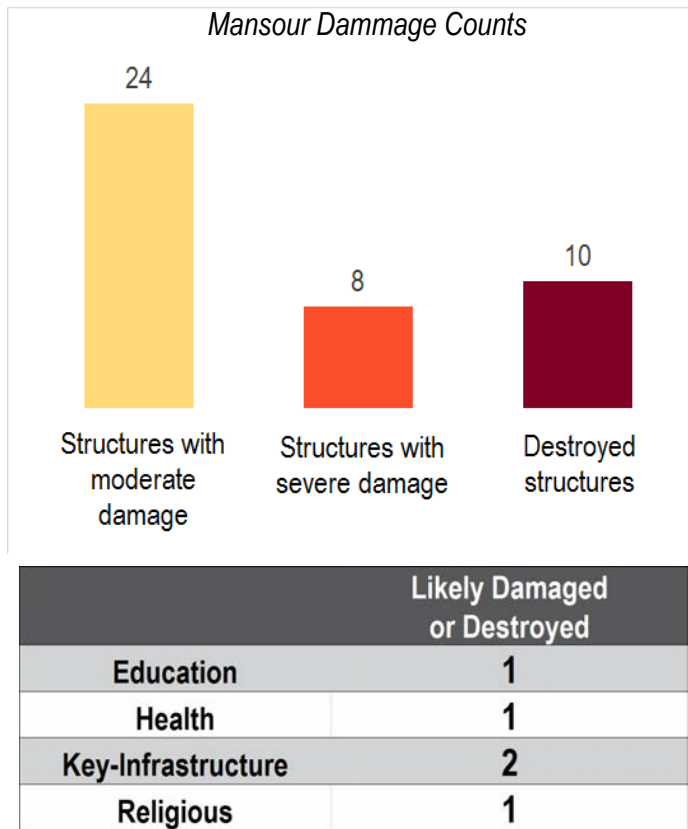
Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- ● Destroyed
- ● Severe Damage
- ○ Moderate Damage
- ▣ Impact Crater
- ▢ Neighbourhood Boundary

*Location within satellite identified destroyed area

□ Neighbourhood Profile
▢ Neighbourhood Boundary

TURKEY

ALEPPO AL HASAKEH
IDLEB AR RAQQA
LATTAKIA **Ar Raqqa City** DEIR EZ ZOR
HAMA
TARTOUS HOMS
DAMASCUS
RURAL DAMASCUS IRAQ
QUNEITRA
DAR'A AS SWEIDA
JORDAN

Map labels:
Salhiyeh Mahdi
Salhiyeh Mansour
Al Thawrah Hurriyeh
Al Thawriyeh Salhiyeh
Hurriyeh Amin
Mansour Amin
Omar Ibn Khatab School
Mansour Mahdi
Hani Mosque
Rasheed
Old Hal Market
Enhanced Bakery
Peace Hospital
Mansour Rashidiyeh
Mahdi Rashidiyeh

0 50 100 Meters

REACH
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ACTED and UNOSAT

Mahdi Neighbourhood (Old Raqqa)
Satellite-Detected Severity of Structure Damage - 21 October 2017

For Humanitarian Use Only
Production date : 15 February 2018

Mahdi Dammage Counts

- 21 — Structures with moderate damage
- 14 — Structures with severe damage
- 4 — Destroyed structures

	Likely Damaged or Destroyed
Education	1
Key-Infrastructure	1
Religious	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

Labels on map:
- Salhiyeh Mansour
- Salhiyeh Mahdi
- Salhiyeh Batani
- Mansour Mahdi
- Batani Mahdi
- Farouq School
- Mansury Mosque
- Harun Al-Rashid Castle
- Othman Ibn Affan Mosque
- Mahdi Rashidiyeh
- Rashidiyeh Rafga
- Old Raqqa
- Mahdi Rafga

Overview map labels:
Andalus, Andalus, Baath, Al Thawrah, Tishrine, Ad'Wihdeh, Rumaney, Hurriyeh, Rmelan, Magal, Hettin, Dariyeh, Tel Abyed, Nahda, Saliyieh, Batani, Qadessiyeh, Al Baasa, Firdoos, Rasheed, Nasra, Sinaa, Yarmuk, Benurama, Amin, Rashidiyeh, Rafga, Taryee, Tas heeh, Hisham Ibn, Ammar, Meshiac, Ma'amoun, Shakil Albanat, Furat, Ibn Yaser, Abd Al Malek

Turkey / Syria overview:
TURKEY, AL HASAKEH, ALEPPO, AR RAQQA, Ar Raqqa City, DEIR EZ ZOR, LATTAKIA, HAMA, IDLEB, HOMS, TARTOUS, DAMASCUS, RURAL DAMASCUS, QUNEITRA, DAR'A, AS SWEIDA, JORDAN, IRAQ

0 50 100 Meters

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.

Data sources:
Infrastructure Classification - International NGO Safety Organisation (INSO)
Satellite Imagery: WorldView-3 from 21 October 2017
Copyright: DigitalGlobe, Inc
Source: US Department of State, Humanitarian
Information Unit, NextView License
Road Data: OpenStreetMap
Admin Data: UN OCHA
Analysis: UNITAR-UNOSAT
Production: REACH Initiatives

Analysis Conducted comparing:
Satellite Data (1): WorldView-3 from 21 October 2017
Copyright: DigitalGlobe, Inc
Source: US Department of State,
Humanitarian Information Unit, NextView License
Satellite Data (2): WorldView-2 from 03 February 2017,
12 February 2014
Copyright: DigitalGlobe, Inc
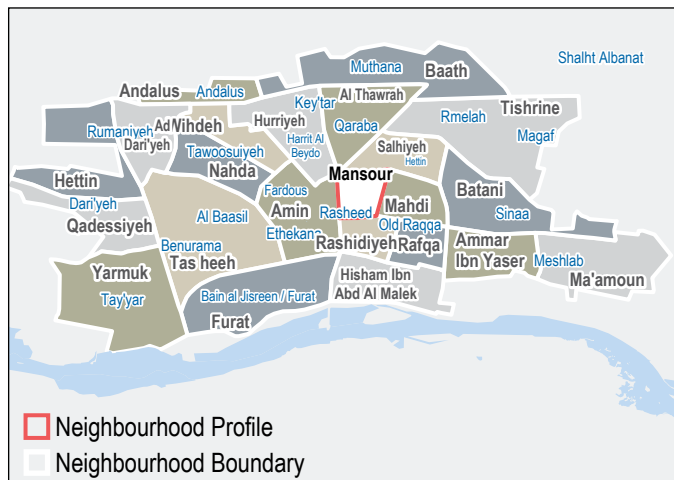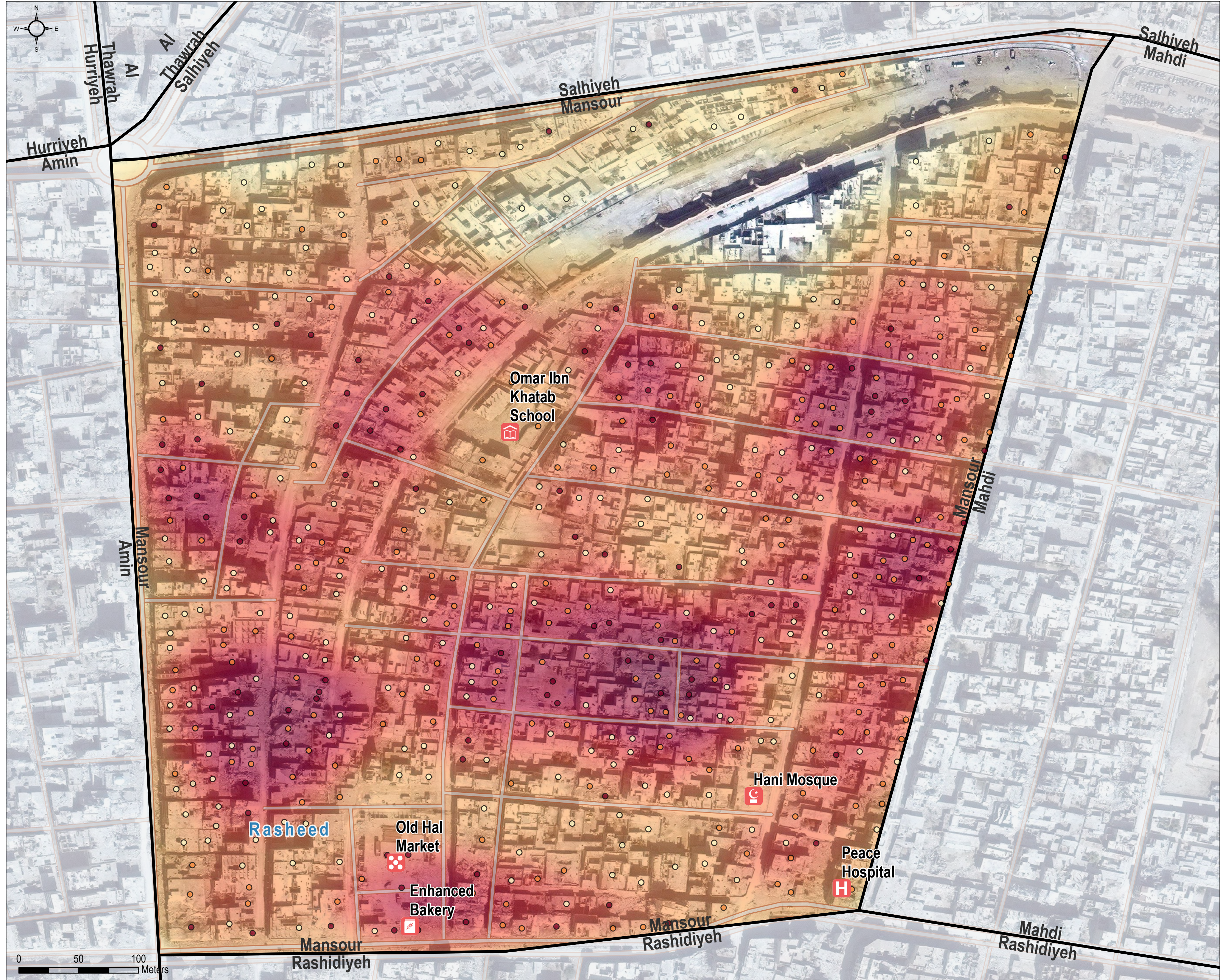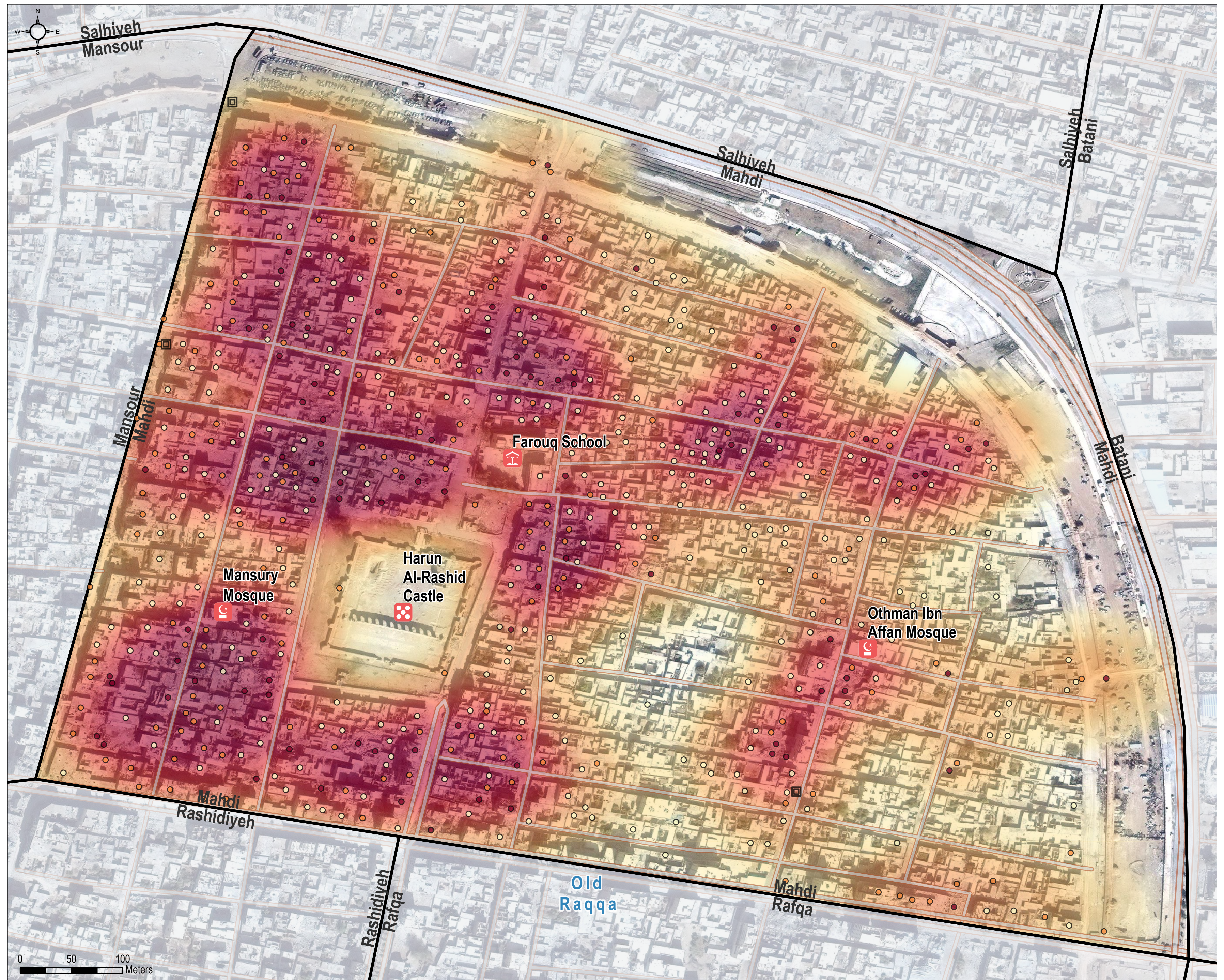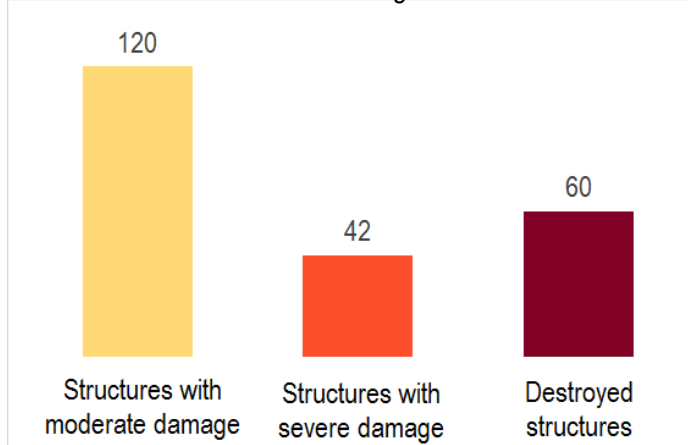Source: US Department of State, Humanitarian Information Unit,
NextView License

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IMPACT Initiatives
ACTED and UNOSAT

Batani Neighbourhood (Sinaa / Hettin)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Batani Dammage Counts

- 120 — Structures with moderate damage
- 42 — Structures with severe damage
- 60 — Destroyed structures

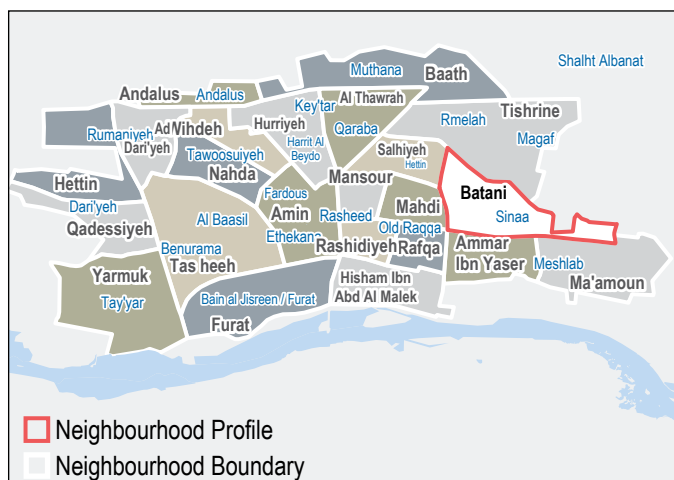|	Likely Damaged or Destroyed
Education	1
Health	1
Key-Infrastructure	2
Religious	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.
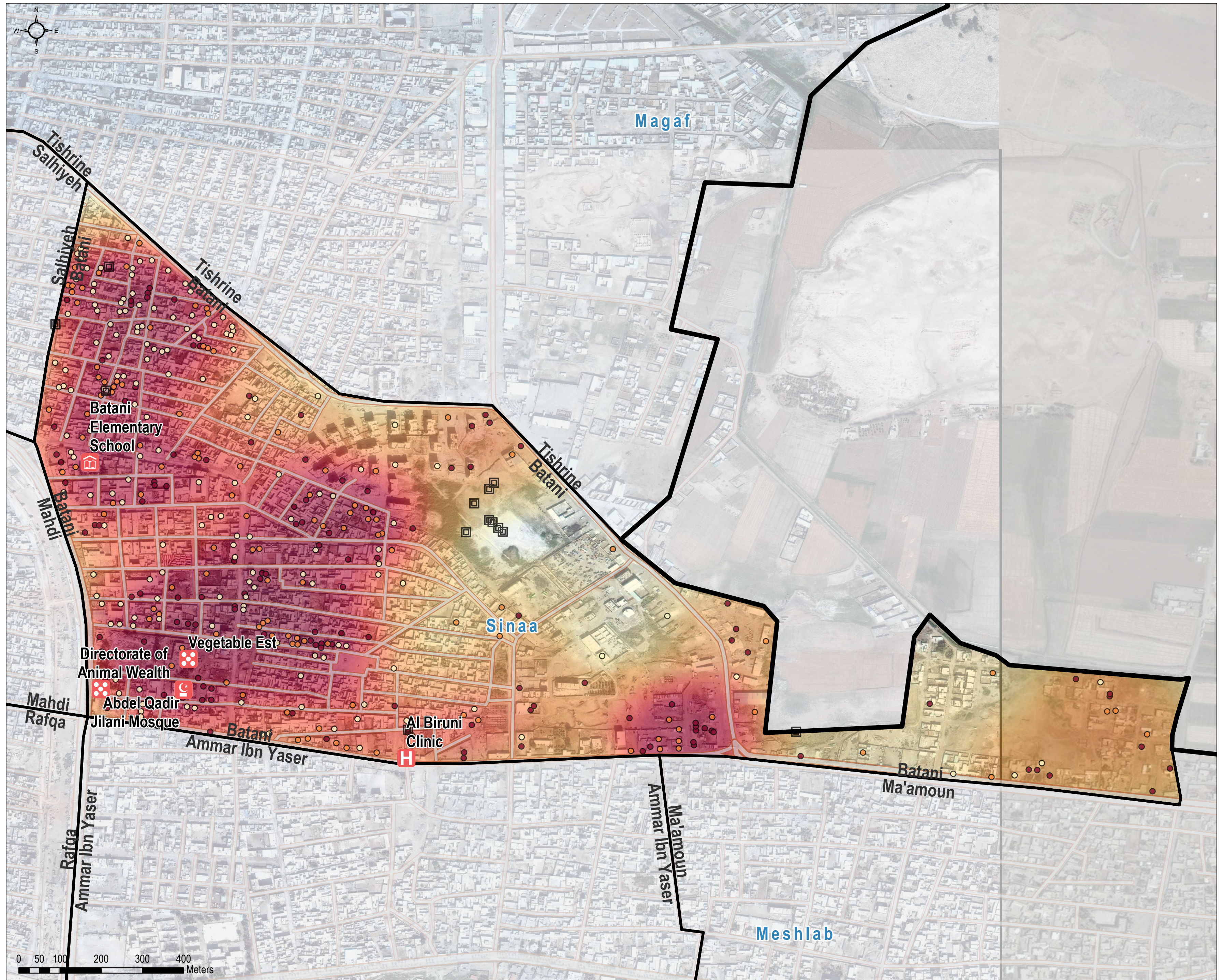
Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

TURKEY
AL HASAKEH
ALEPPO
IDLEB
Ar Raqqa City
AR RAQQA
DEIR EZ ZOR
LATTAKIA
HAMA
TARTOUS
HOMS
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A
AS SWEIDA
JORDAN
IRAQ

Map labels

Magaf
Tishrine Salhiyeh
Salhiyeh Batani
Tishrine Batani
Batani Elementary School
Batani Mahdi
Tishrine Batani
Sinaa
Vegetable Est
Directorate of Animal Wealth
Abdel-Qadir Jilani-Mosque
Batani Ammar Ibn Yaser
Al Biruni Clinic
Mahdi Rafqa
Rafqa Ammar Ibn Yaser
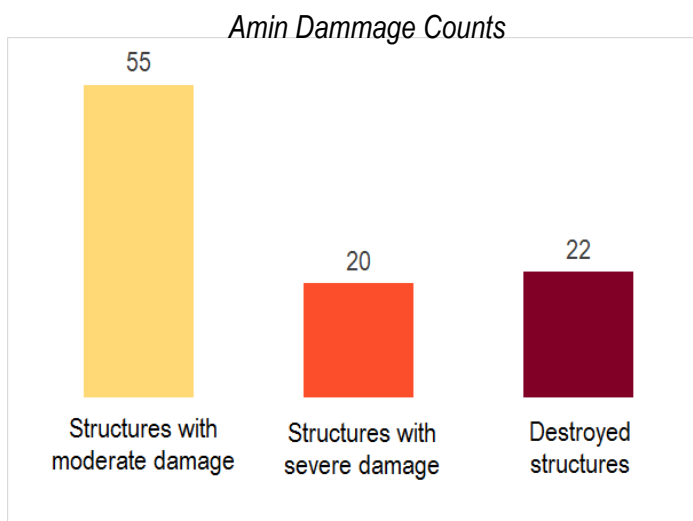Ma'amoun Ammar Ibn Yaser
Batani Ma'amoun
Meshlab

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.

0 50 100 200 300 400 Meters

REACH
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IMPACT Initiatives
ACTED and UNOSAT

Amin Neighbourhood (Ethekana / Fardous / Rasheed)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Amin Dammage Counts

55	20	22
Structures with moderate damage	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	4
Health	10
Key-Infrastructure	26
Park	6
Religious	6
Security	3

* Key-Infrastructure: bakeries and bridges

High Damage Severity ———— Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.

Legend

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

Likely damaged or destroyed*

- ● Destroyed
- ● Severe Damage
- ○ Moderate Damage
- ▣ Impact Crater
- ▢ Neighbourhood Boundary

*Location within satellite identified destroyed area

- Neighbourhood Profile
- Neighbourhood Boundary

Map Labels:

Wihdeh Nahda
Wihdeh Amin
Hurriyeh Amin
Municipal Stadium
Swan Park
Nahda Amin
General Gym
Directorate of Industry Trade
Al Firdous Bakery
Fardous
Military Retired Persons Association
Al Firdous Mosque
Children Park
Maternity Hospital
Real Estate Bank
Dr. Hashem Alhousein Hospital
Health care Department
Risalah Hospital
Modern Medicine Hospital
Ar-Raqqa Swimming Pool
Police Command
Justice Palace
Teachers Syndicate
Directorate of Oil
Nahda Tas heeh
General Assembly of Informatics
Military clinic
Rashid Secondary school
Old Culture Centre
Directorate of Municipalities
Fauaz Mosque
7 April Park
Government Complex
Air Force Intelligence
Rasheed
The National Hospital
Baath Party Headquarter
Labor Union
Rashid Park
Mansour Rashidiyeh
Thalassemia Center
French Haggadah Centre
Mashhadani Hospital
Syria International Islamic Bank
Murtar church
Nursing school
Nursing School
Thuknah Mosque
Tourist Hotel
Ethekana
Thuknah Park
Bemo Bank Union of Peasants
Circassian Mosque
The Central Pharmacy
Muasat Hospital
Fatima Zahra School
Al Rashid Bakery
Directorate of Finance
Directorate of Education
Fire Station
Governorate Building
President Square
Amin Furat
Hurriyeh
Thawrah Hurriyeh
Al Thawrah Salhiyeh
Salhiyeh Mansour
Mansour
Amin Rashidiyeh
Tas heeh Furat
Amin
Hisham Ibn Abd Al Malek
Rashidiyeh
Hisham Ibn Abd Al Malek
Furat Hisham Ibn Abd Al Malek

Locator map:

TURKEY
AL HASAKEH
ALEPPO
IDLEB
AR RAQQA
Ar Raqqa City
DEIR EZ ZOR
LATTAKIA
HAMA
HOMS
TARTOUS
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A
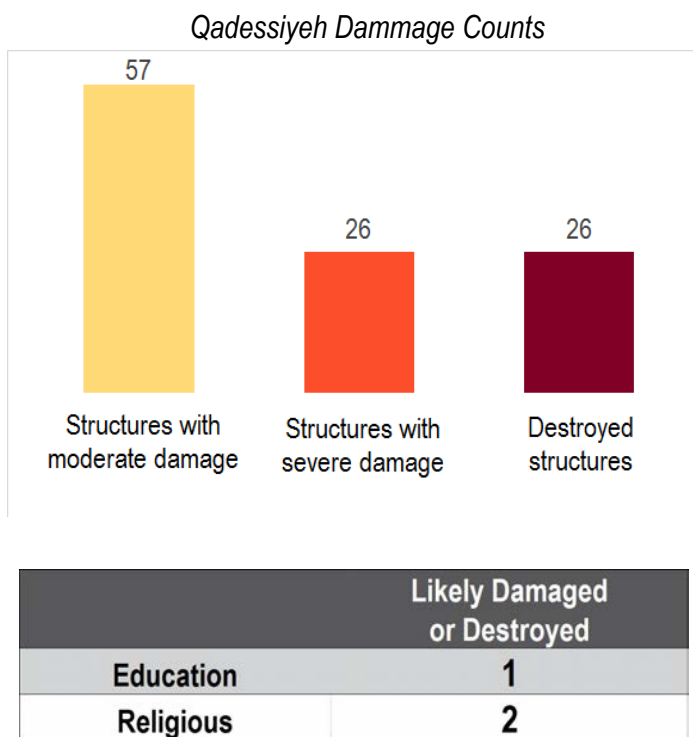AS SWEIDA
JORDAN
IRAQ

Scale: 0 50 100 200 300 Meters

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.

REACH
An initiative of
IMPACT Initiatives
ACTED and UNOSAT

Qadessiyeh Neighbourhood (Dari'yeh)

Satellite-Detected Severity of Structure Damage - 21 October 2017

Qadessiyeh Dammage Counts

57	26	26
Structures with moderate damage	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	1
Religious	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.
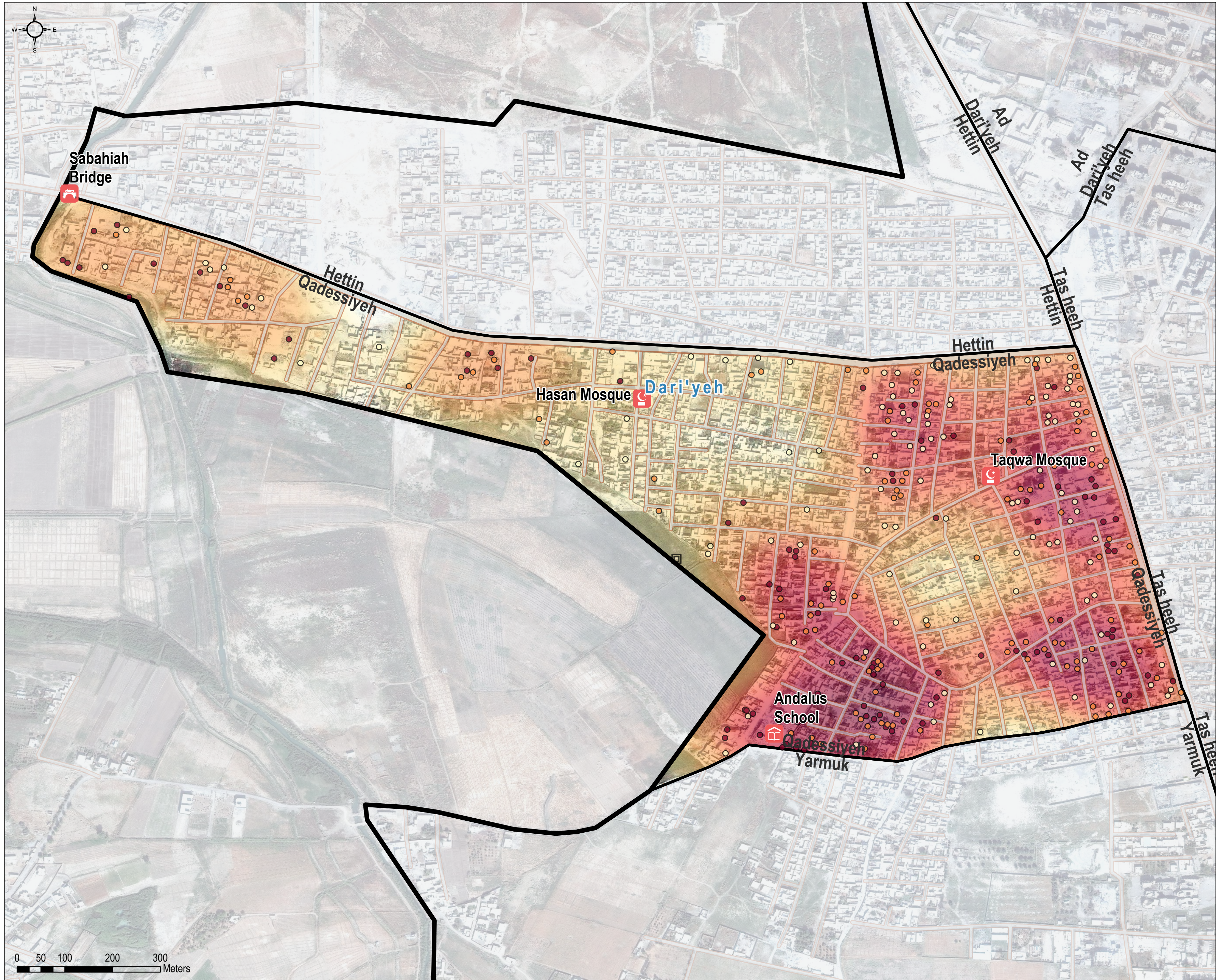
Bridge — Destroyed
Bakery — Severe Damage
Education — Moderate Damage
Health — Impact Crater
Park — Neighbourhood Boundary
Religious
Security
Key-Infrastructure

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

Andalus, Andalus, Al Thawrat, Muhaira, Baath, Tishrine
Rumaylan, AdMihdeh, Dari'yeh, Keytar, Humryen, Jalrata, Rmelan, Magaf
Hettin, Tawoosiyeh, Nahda, Tevo, Sathiyen, Mansour, Batani
Qadessiyeh, Al Baasi, Amin, Rasheed, Old-Raqqa, Mahdi, Sinaa
Benurama, Emeken, Rashidiyeh, Rafqa, Ammar, Ibn Yaser, Meshlab
Yarmuk, Tas heeh, Hisham Ibn, Abd Al Malek, Ma'amoun
Taylwe, Baru & Huson Yusef, Furat

TURKEY
AL HASAKEH
ALEPPO
IDLEB
AR RAQQA — **Ar Raqqa City**
LATTAKIA
HAMA — DEIR EZ ZOR
TARTOUS
HOMS
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A — AS SWEIDA
JORDAN — IRAQ

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.
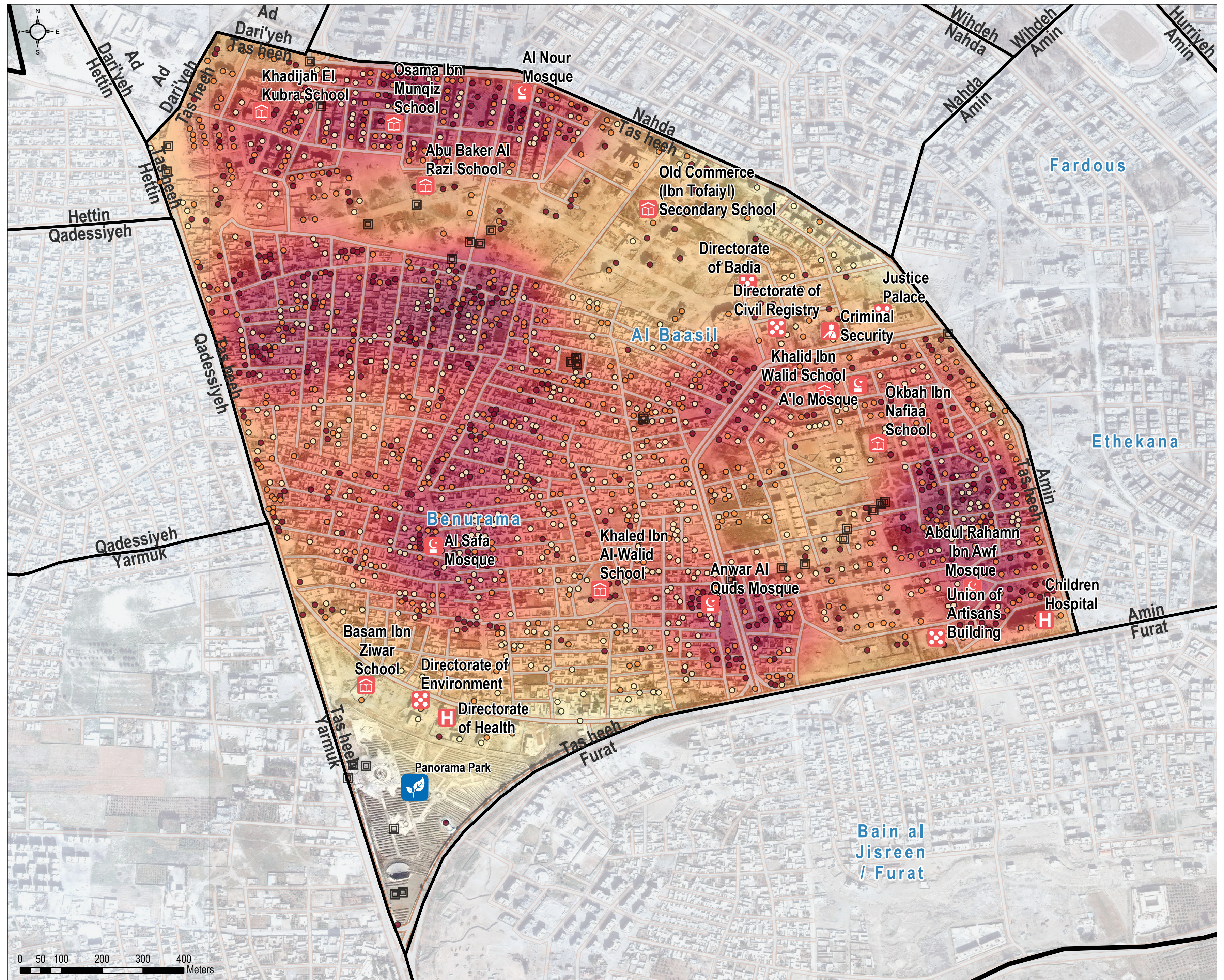
Map labels:
Sabahiah Bridge
Hettin Qadessiyeh
Hasan Mosque — **Dari'yeh**
Hettin Qadessiyeh
Taqwa Mosque
Andalus School
Qadessiyeh Yarmuk
Ad Dari'yeh Hettin
Ad Dari'yeh Tas heeh
Tas heeh Hettin
Tas heeh Qadessiyeh
Tas heeh Yarmuk

0 50 100 200 300 Meters

REACH
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ACTED and UNOSAT

Tas heeh Neighbourhood (Benurama / Al Baasil)
Satellite-Detected Severity of Structure Damage - 21 October 2017

For Humanitarian Use Only
Production date : 15 February 2018

UNOSAT

Tas heeh Dammage Counts

78	34	32
Structures with moderate damage	Structures with severe damage	Destroyed structures

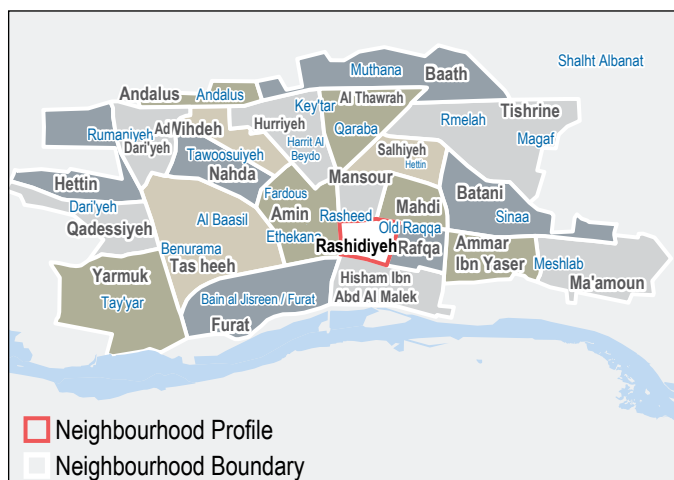|	Likely Damaged or Destroyed
Education	8
Health	2
Key-Infrastructure	5
Religious	5
Security	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity ———— Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.
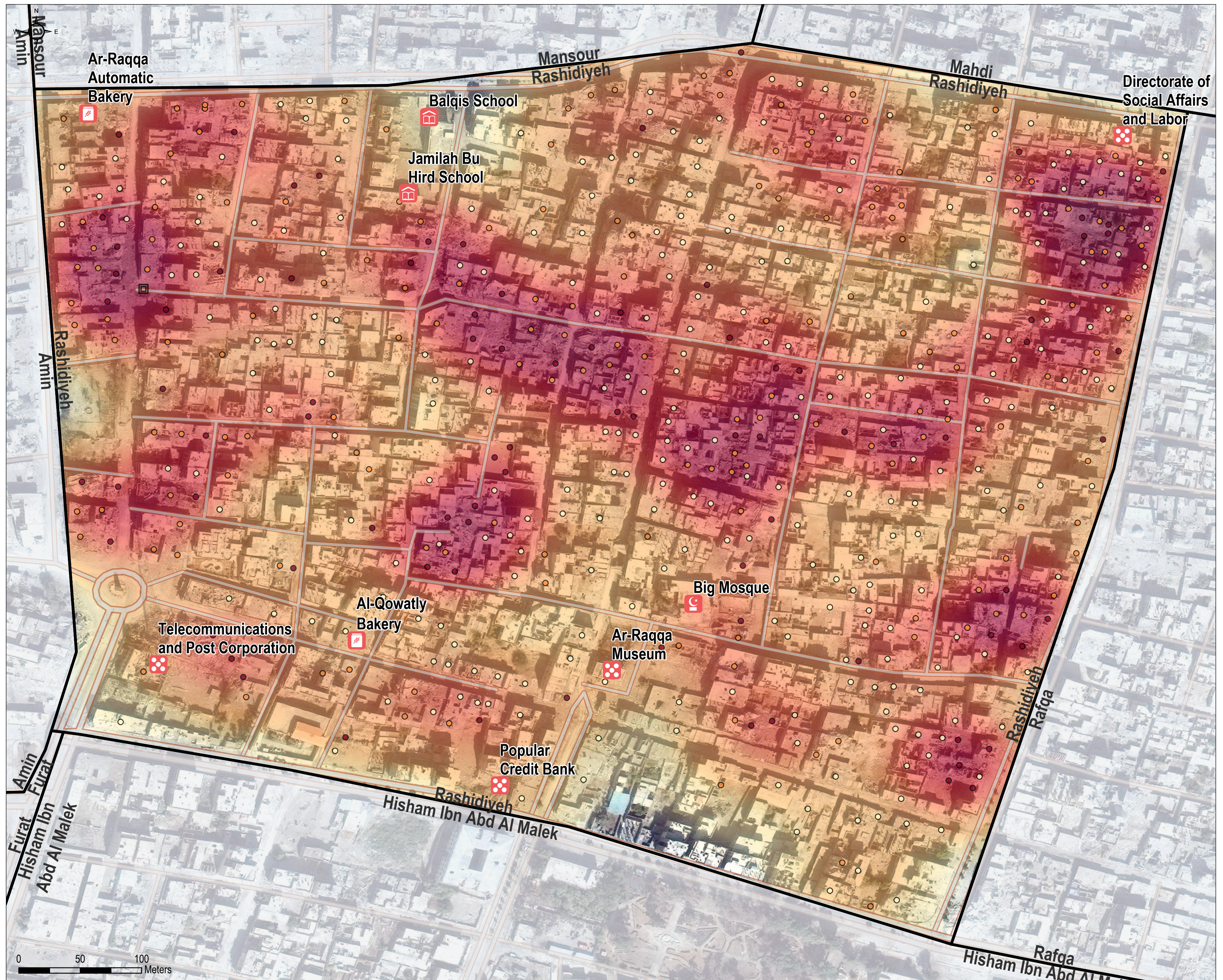
Legend

Likely damaged or destroyed*:
- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- ● Destroyed
- ● Severe Damage
- ○ Moderate Damage
- ▣ Impact Crater
- ▢ Neighbourhood Boundary

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

Map Labels

Ad Dari'yeh Tas heeh
Khadijah El Kubra School
Osama Ibn Munqiz School
Al Nour Mosque
Abu Baker Al Razi School
Old Commerce (Ibn Tofaiyl) Secondary School
Directorate of Badia
Directorate of Civil Registry
Justice Palace
Criminal Security
Al Baasil
Khalid Ibn Walid School
A'lo Mosque
Okbah Ibn Nafiaa School
Benurama
Al Safa Mosque
Khaled Ibn Al-Walid School
Anwar Al Quds Mosque
Abdul Rahamn Ibn Awf Mosque
Union of Artisans Building
Children Hospital
Basam Ibn Ziwar School
Directorate of Environment
Directorate of Health
Panorama Park

Hettin
Qadessiyeh
Qadessiyeh Yarmuk
Tas heeh Yarmuk
Tas heeh Furat
Bain al Jisreen / Furat
Fardous
Ethekana
Amin Furat
Nahda
Wihdeh Nahda
Wihdeh Amin
Hurriyeh Amin

Location inset

TURKEY
ALEPPO
IDLEB
LATTAKIA
TARTOUS
HAMA
HOMS
AL HASAKEH
Ar Raqqa City
AR RAQQA
DEIR EZ ZOR
RURAL DAMASCUS
DAMASCUS
QUNEITRA
DAR'A
AS SWEIDA
JORDAN
IRAQ

0 50 100 200 300 400 Meters

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ACTED and UNOSAT

Rashidiyeh Neighbourhood (Old Raqqa / Rasheed)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Rashidiyeh Dammage Counts

26 — Structures with moderate damage
10 — Structures with severe damage
9 — Destroyed structures

	Likely Damaged or Destroyed
Education	2
Key-Infrastructure	6
Religious	1

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

Map Labels:
- Ar-Raqqa Automatic Bakery
- Balqis School
- Jamilah Bu Hird School
- Mansour Rashidiyeh
- Mahdi Rashidiyeh
- Directorate of Social Affairs and Labor
- Big Mosque
- Al-Qowatly Bakery
- Ar-Raqqa Museum
- Telecommunications and Post Corporation
- Popular Credit Bank
- Hisham Ibn Abd Al Malek
- Rashidiyeh
- Rafqa
- Amin
- Furat

Inset map labels: Andalus, Anbous, Al Thawrah, Mufarika, Baath, Shaikt Albanat, Tishrine, Hurryeh, Jazrbab, Rmelah, Magaf, Ad Wihdeh, Dariyeh, Nahda, Sahiyeh, Battani, Hettin, Al Baasir, Mansour, Sina, Qadessiyeh, Thakna, Mahdi, Rashidiyeh, Rafga, Ammar Ibn Yaser, Ma'amoun, Yarmuk, Tas heeh, Hisham Ibn Abd Al Malek, Tayira, Furat

TURKEY, AL HASAKEH, ALEPPO, AR RAQQA, Ar Raqqa City, IDLEB, DEIR EZ ZOR, LATTAKIA, HAMA, TARTOUS, HOMS, DAMASCUS, RURAL DAMASCUS, QUNEITRA, DAR'A, AS SWEIDA, JORDAN, IRAQ

0 50 100 Meters

REACH
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Rafqa Neighbourhood (Old Raqqa)
Satellite-Detected Severity of Structure Damage - 21 October 2017

For Humanitarian Use Only
Production date : 15 February 2018

UNOSAT

Rafqa Dammage Counts

38 — Structures with moderate damage
18 — Structures with severe damage
19 — Destroyed structures

	Likely Damaged or Destroyed
Education	1
Health	1
Key-Infrastructure	2
Religious	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity
* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.
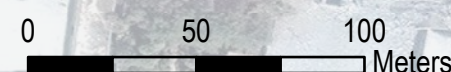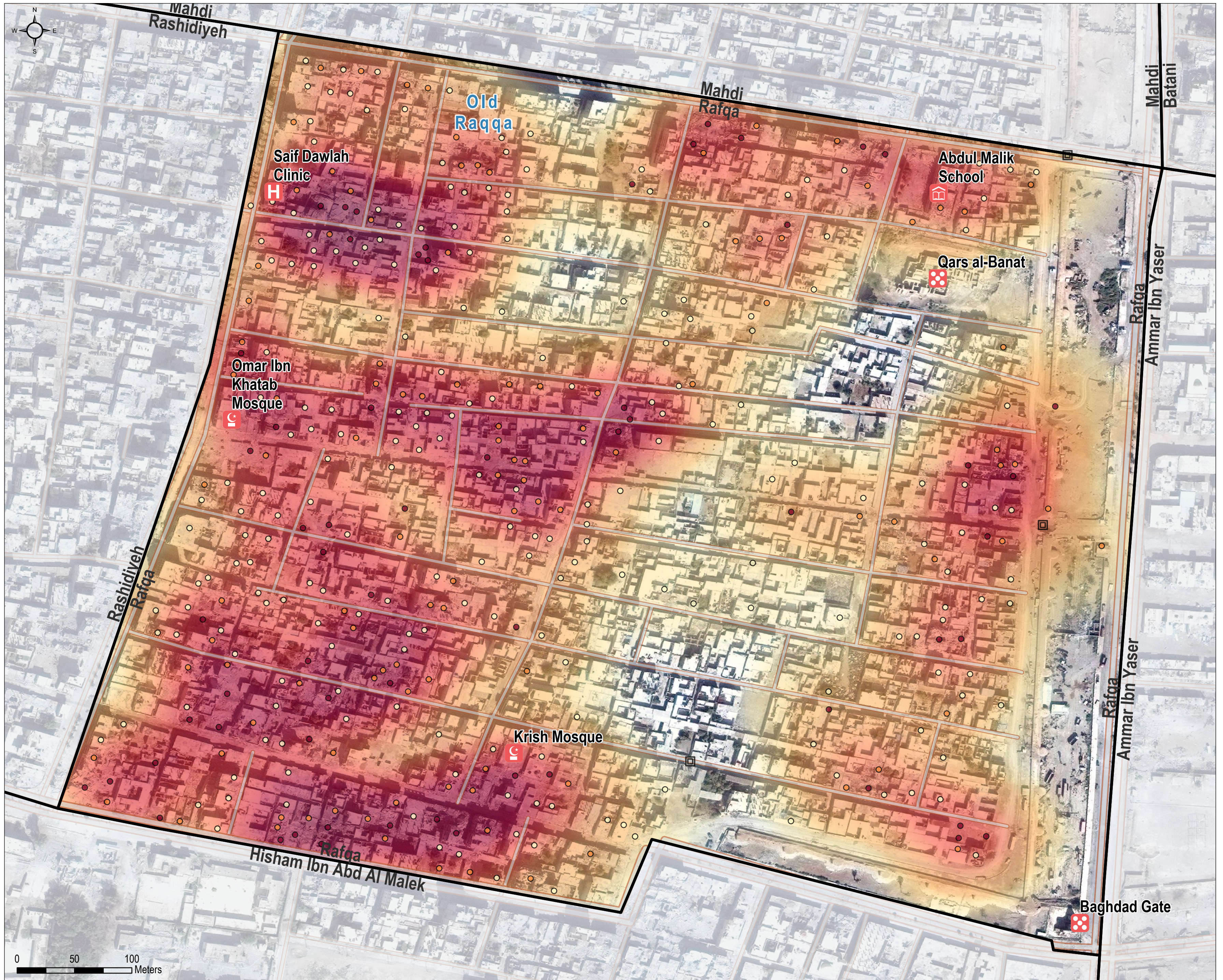
Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- ● Destroyed
- ● Severe Damage
- ● Moderate Damage
- ▣ Impact Crater
- ▢ Neighbourhood Boundary

*Location within satellite identified destroyed area

□ Neighbourhood Profile
Neighbourhood Boundary

TURKEY
AL HASAKEH
ALEPPO
IDLEB
AR RAQQA   Ar Raqqa City
LATAKIA
TARTOUS   HAMA   DEIR EZ ZOR
HOMS
DAMASCUS
RURAL DAMASCUS
QUNEITRA   IRAQ
DAR'A   AS SWEIDA
JORDAN

Map labels

Mahdi Rashidiyeh
Old Raqqa
Mahdi Rafga
Abdul Malik School
Saif Dawlah Clinic
Qars al-Banat
Omar Ibn Khatab Mosque
Rashidiyeh Rafga
Ammar Ibn Yaser
Mahdi Batani
Krish Mosque
Rafga
Hisham Ibn Abd Al Malek
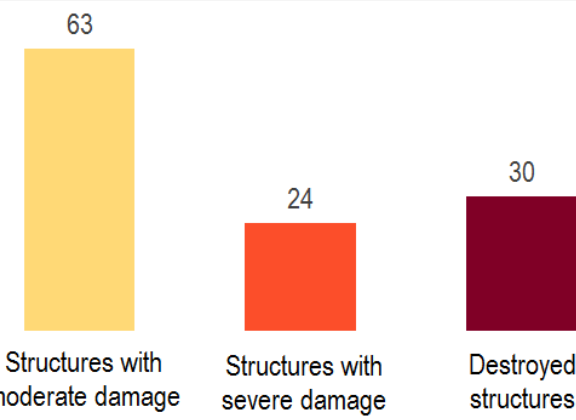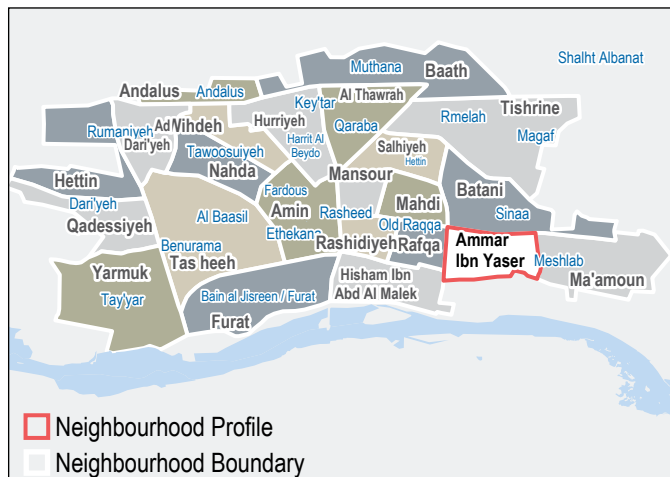Baghdad Gate

0   50   100 Meters

Note: Data, designations and boundaries contained on this map are not warranted to be error-free and do not imply acceptance by the REACH partners, associates or donors mentioned on this map.

Data sources:
Infrastructure Classification - International NGO Safety Organisation (INSO)
Satellite Imagery: WorldView-3 from 21 October 2017
Copyright: DigitalGlobe, Inc.
Source: US Department of State, Humanitarian Information Unit, NextView License
Road Data: OpenStreetMap
Admin Data: UN OCHA
Analysis: UNITAR-UNOSAT
Production: REACH Initiatives

Analysis Conducted comparing:
Satellite Data (1): WorldView-3 from 21 October 2017
Source: US Department of State,
Humanitarian Information Unit, NextView License

Satellite Data (2): WorldView-2 from 03 February 2017,
12 February 2014
Copyright: DigitalGlobe, Inc
Source: US Department of State, Humanitarian Information Unit, NextView License

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Ammar Ibn Yaser Neighbourhood (Meshlab)
Satellite-Detected Severity of Structure Damage - 21 October 2017

Ammar Ibn Yaser Dammage Counts

- 63 — Structures with moderate damage
- 24 — Structures with severe damage
- 30 — Destroyed structures

	Likely Damaged or Destroyed
Education	4
Key-Infrastructure	1
Religious	3

* Key-Infrastructure includes bakeries and bridges

High Damage Severity → Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
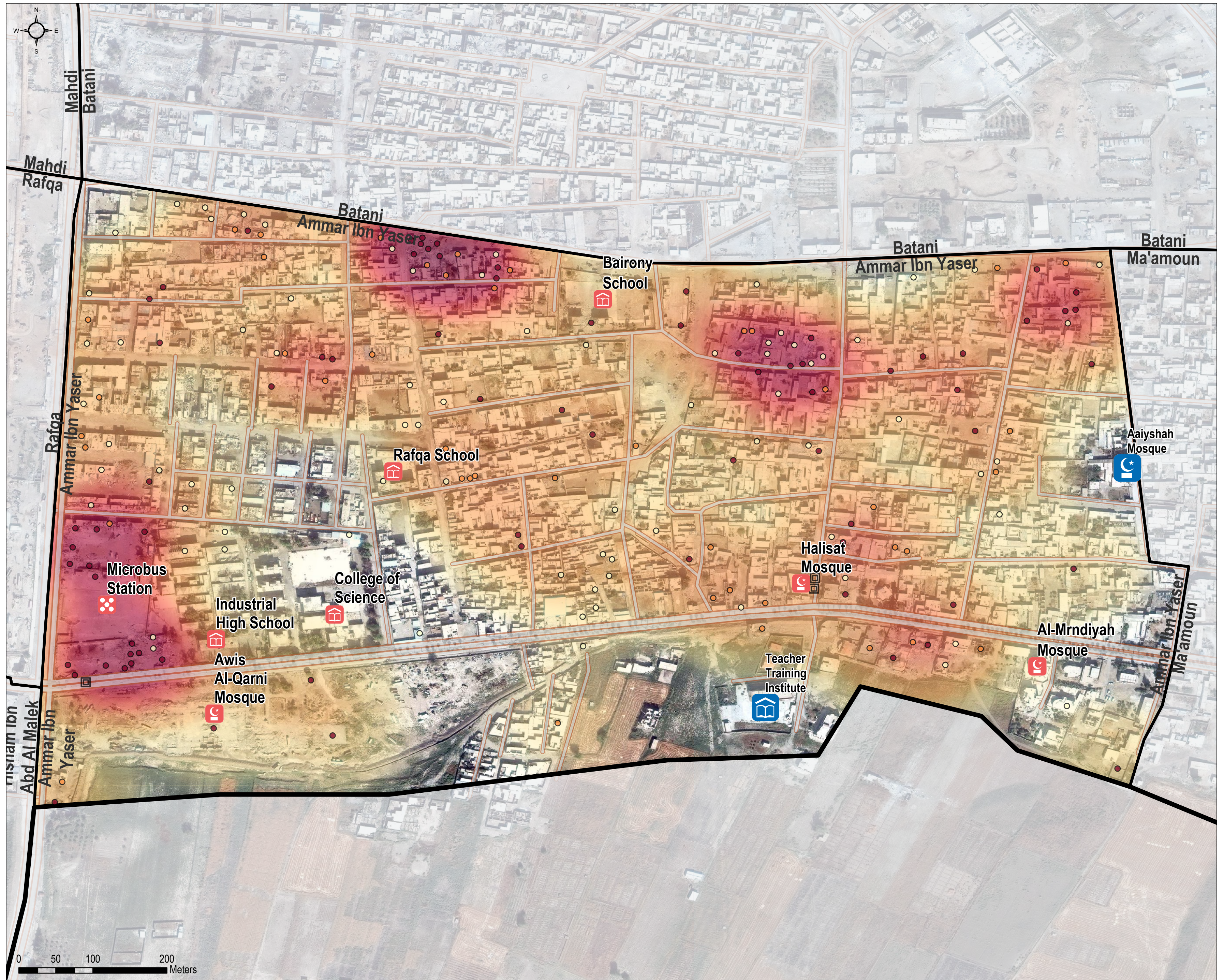- Impact Crater
- Neighbourhood Boundary

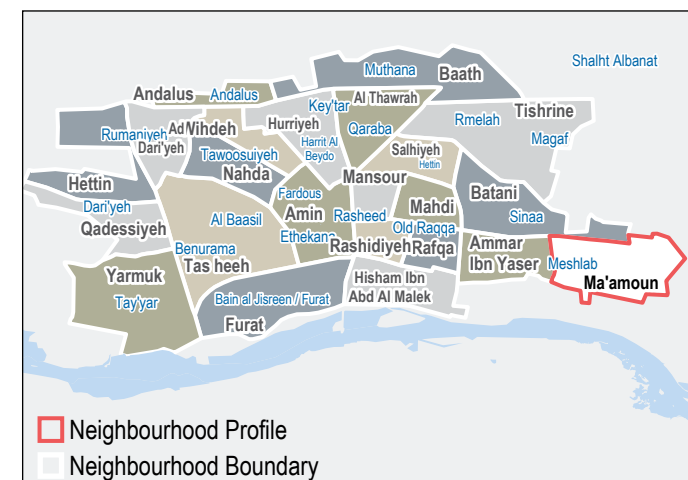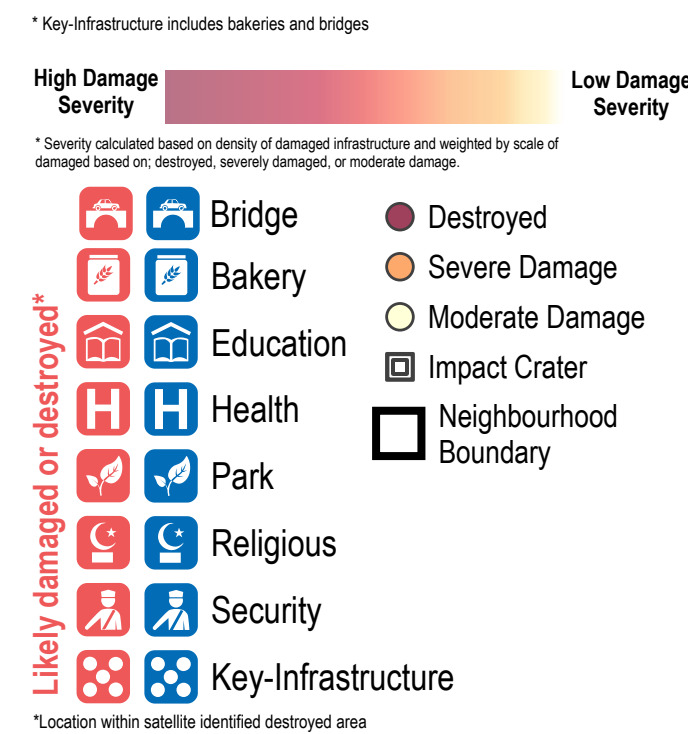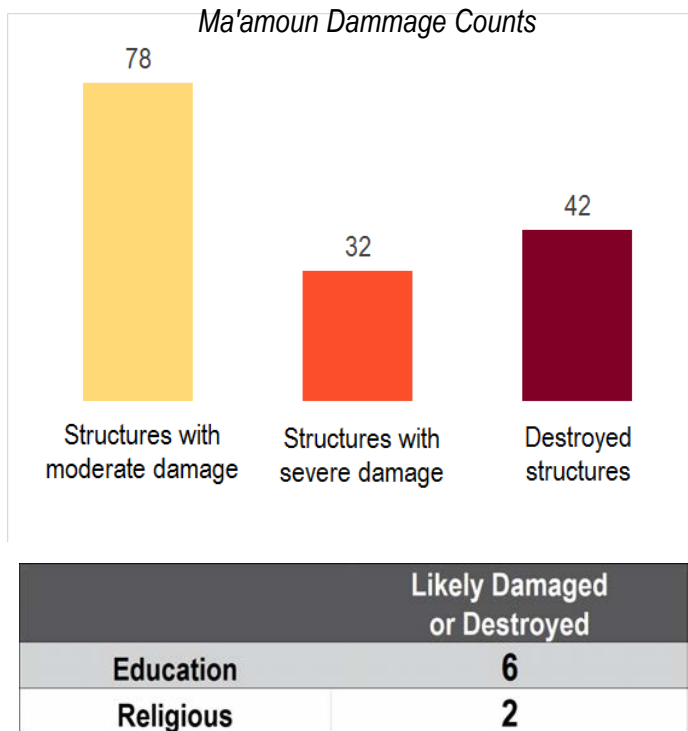*Location within satellite identified destroyed area

- Neighbourhood Profile
- Neighbourhood Boundary

Map labels:
Mahdi Batani, Mahdi Rafqa, Batani, Ammar Ibn Yaser, Bairony School, Batani Ma'amoun, Rafqa, Ammar Ibn Yaser, Rafqa School, Aaiyshah Mosque, Microbus Station, College of Science, Halisat Mosque, Industrial High School, Awis Al-Qarni Mosque, Teacher Training Institute, Al-Mrndiyah Mosque, Hisham Ibn Abd Al Malek, Ammar Ibn Yaser, Ammar Ibn Yaser Ma'amoun

Locator map labels:
Andalus, Al-Andalus, Mashtel, Baath, Rumaniye, Al Vihideh, Al Thawrah, Tishrine, Hurriyeh, Harriri, Rmeleh, Magal, Nahda, Mansour, Al Baasl, Amin, Rasheed, Mahdi, Qadesiyeh, Benawiwen, Tas heeh, Rashidiyeh, Rafqa, Ammar Ibn Yaser Meshlab, Yarmuk, Hisham Ibn Abd Al Malek, Ma'amoun, Furat

TURKEY, AL HASAKEH, ALEPPO, AR RAQQA, Ar Raqqa City, IDLEB, DEIR EZ ZOR, LATTAKIA, HAMA, HOMS, TARTOUS, IRAQ, DAMASCUS, RURAL DAMASCUS, QUNEITRA, DAR'A, AS SWEIDA, JORDAN

0 50 100 200 Meters

Ma'amoun Neighbourhood (Meshlab)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Ma'amoun Dammage Counts

78 — Structures with moderate damage
32 — Structures with severe damage
42 — Destroyed structures

	Likely Damaged or Destroyed
Education	6
Religious	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damage based on; destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

TURKEY
AL HASAKEH
ALEPPO
AR RAQQA — Ar Raqqa City
IDLEB
LATTAKIA
HAMA
DEIR EZ ZOR
TARTOUS
HOMS
DAMASCUS
RURAL DAMASCUS
QUNEITRA
DAR'A
AS SWEIDA
JORDAN
IRAQ

Map labels

Al Ma'amoun
Ammar Ibn Yaser
Abdel Qader Jilani Mosque
Batani Ma'amoun
Satiaa Husary School
Wihdah Arabia School
Intifadah School
Wihdah Arabia Kindergarten
Wihdah Arabia Elementary School
Meshlab
Obay Ibn Kaab Mosque
Zaki Arsuzi Middle School
Zaki Al Arsouzi High School

0 50 100 200 300 Meters

REACH
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Hisham Ibn Abd Al Malek Neighbourhood (Hisham Ibn Abd Al Malek)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

Hisham Ibn Abd Al Malek Dammage Counts

Structures with moderate damage	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	4
Key-Infrastructure	6
Park	1
Religious	5
Security	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — **Low Damage Severity**

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
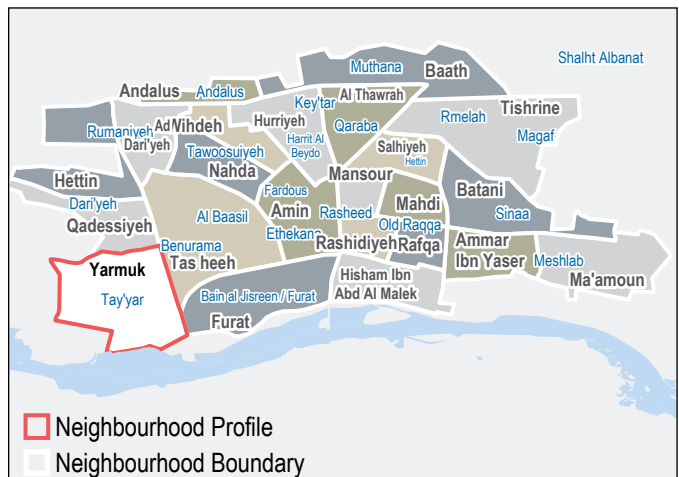- Health
- Park
- Religious
- Security
- Key-Infrastructure

- ● Destroyed
- ● Severe Damage
- ○ Moderate Damage
- ▣ Impact Crater
- ▢ Neighbourhood Boundary

*Location on satellite identified destroyed area

- Neighbourhood Profile
- Neighbourhood Boundary

TURKEY
AL HASAKEH
ALEPPO
AR RAQQA
Ar Raqqa City
IDLEB
LATTAKIA
HAMA
DEIR EZ ZOR
TARTOUS
HOMS
DAMASCUS
RURAL DAMASCUS
IRAQ
QUNEITRA
DAR'A AS SWEIDA
JORDAN

Map labels
- Rashidiyeh Amin
- Amin Furat
- Furat
- Rashidiyeh
- Hisham Ibn Abd Al Malek
- Bustan Restaurant
- Furat nightclub
- Pustan Park
- Rashidiyeh Rafqa
- Rafqa
- Ammar Ibn Yaser
- Rafga
- Ammar Ibn Yaser
- Directorate of Immigration and Passports
- Directorate of Examinations
- Old Military Court Building
- Mena Mosque
- Ammar Ibn Yasser Mosque
- Commercial Institute
- Rabia'a Adwiah School (Appendix)
- Rabia'a Adwiah School
- Abul Salam A'jayly Mosque
- Hisham Ibn Abd Al Malek
- Directorate of Control and Inspection
- Ahel Bader Mosque
- Saif Daulah Kindergarten
- Political Security Branch
- Shuhada Uhud Mosque
- Al-Hal Market
- Old (Mansour) Bridge

90 100 200 300 Meters

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ACTED and UNOSAT

Yarmuk Neighbourhood (Tay'yar)
Satellite-Detected Severity of Structure Damage - 21 October 2017

For Humanitarian Use Only
Production date : 15 February 2018

UNOSAT

Yarmuk Dammage Counts

- 82 — Structures with moderate damage
- 34 — Structures with severe damage
- 54 — Destroyed structures

	Likely Damaged or Destroyed
Education	2
Health	1
Key-Infrastructure	2
Religious	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on: destroyed, severely damaged, or moderate damage.

Legend

Likely damaged or destroyed*
- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

- ● Destroyed
- ● Severe Damage
- ○ Moderate Damage
- ▢ Impact Crater
- ▢ Neighbourhood Boundary

*Location within satellite identified destroyed area

Neighbourhood Profile
Neighbourhood Boundary

Map Labels
- Qadessiyeh Yarmuk
- Hasan Mosque
- Al Ahli Hospital
- Ibaa Privet School
- Tay'yar
- Ibrahim Hanano School
- Shiraa Restaurant
- Tawhid Mosque
- Furat Gas Station
- Tas heeh Yarmuk
- Tas heeh Furat
- Furat Yarmuk

TURKEY
- AL HASAKEH
- ALEPPO
- AR RAQQA — Ar Raqqa City
- IDLEB
- LATTAKIA
- TARTOUS
- HAMA
- DEIR EZ ZOR
- HOMS
- DAMASCUS
- RURAL DAMASCUS
- QUNEITRA
- DAR'A
- AS SWEIDA
- JORDAN
- IRAQ

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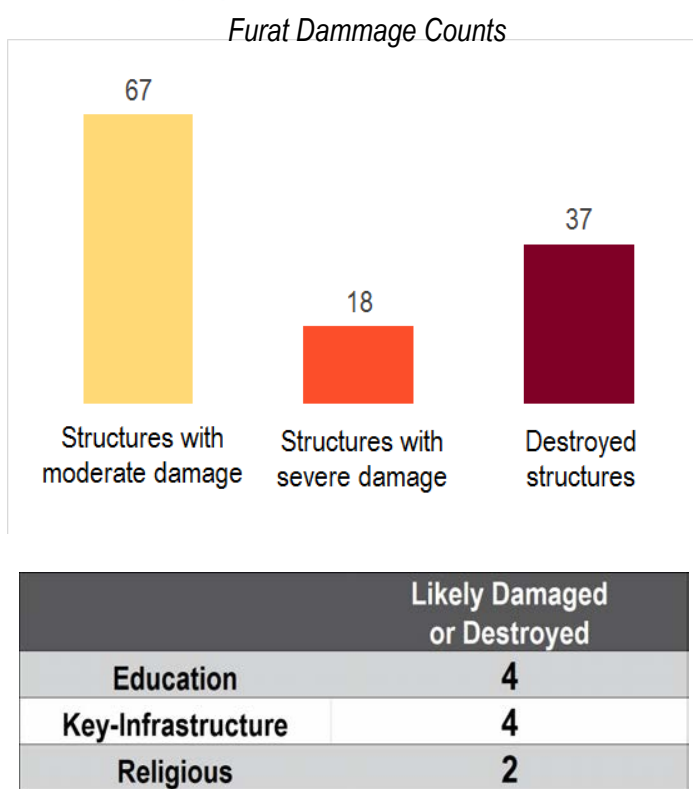
0 50 100 200 300 Meters

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Furat Neighbourhood (Bain al Jisreen / Furat)
Satellite-Detected Severity of Structure Damage - 21 October 2017

UNOSAT

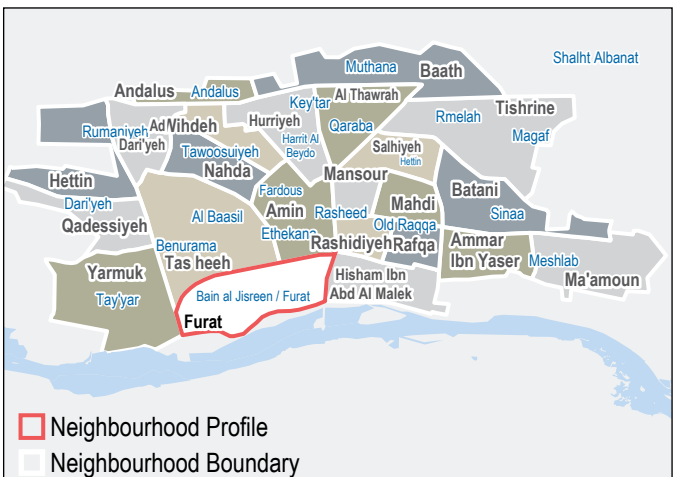### Furat Dammage Counts

67	18	37
Structures with moderate damage	Structures with severe damage	Destroyed structures

	Likely Damaged or Destroyed
Education	4
Key-Infrastructure	4
Religious	2

* Key-Infrastructure includes bakeries and bridges

High Damage Severity — Low Damage Severity

* Severity calculated based on density of damaged infrastructure and weighted by scale of damaged based on; destroyed, severely damaged, or moderate damage.

Legend:

Likely damaged or destroyed*

- Bridge
- Bakery
- Education
- Health
- Park
- Religious
- Security
- Key-Infrastructure

*Location within satellite identified destroyed area

- Destroyed
- Severe Damage
- Moderate Damage
- Impact Crater
- Neighbourhood Boundary

Neighbourhood Profile
Neighbourhood Boundary

TURKEY

ALEPPO — Ar Raqqa City
IDLEB
LATTAKIA — AL HASAKEH
TARTOUS — HAMA
— DEIR EZ ZOR
HOMS
DAMASCUS
RURAL DAMASCUS — IRAQ
QUNEITRA
DARA'A — AS SWEIDA
JORDAN

Map labels:

Ethekana
Benurama
Tas heeh Amin
Amin Furat
Abu-Elhaif Gas Station
Cultural Center
Pullman Garage
Mustafa Mosque
Tariq Ibn Ziad School
Commerce Secondary School
Central Bank of Syria
Al Mustafa Mosque
Bain al Jisreen / Furat
Hotel Service Training School
Durat Furat School
Ibn Tafil School
Old (Mansour) Bridge
Tas heeh Furat
Tas heeh Yarmuk
Furat Yarmuk
Hisham Ibn Abd Al Malek
Rashidiyeh Amin

Scale: 0 50 100 200 300 400 Meters

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