

CONTEXT

Between November 2016 and October 2017, the conflict in Ar-Raqqa city escalated, leading to ruined infrastructure and displacement of the larger majority of its population. The city population dropped from an estimated 300,000 in late 2016 to around 7,000 persons in October 2017. While in February 2017, the city had a total of 1,667 satellite-detected damaged or destroyed structures, the total number of affected structures detected had soared up to 12,707 by October 2017. Since then, there have been waves or returnees and the current population estimates vary from 150,000 up to 330,000 people. Shelter needs remain high, and half of the population is estimated to be living in damaged or inadequate shelters. His city atlas provides detailed information on rehabilitation, reconstruction and damage to structures across 23 neighbourhoods in the Ar-Ragga city.

السياق

بين نوفمبر 2016 وأكتوبر 2017، تصاعد الصراع الدائر في مدينة الرقة ادى الى تدمير البنية التحتية وتشريد الغالبية العظمى من سكاتها. انخفص عدد سكان مدينة الرقة من حوالي 300,000 في أواخر عام 2016 إلى أقل من 7,000 شخص في أكتوبر 2017. كان في مدينة الرقة في فبراير 2017 ما مجموعه 1,667 مبنى تم اكتشافها متضررة أو مدمرة بواسطة الأقمار الصناعية، والتي عند تقييمها في نهاية الصراع في أكتوبر 2017 شهدت ارتفاعا كبيرا مع زيادة إلى 12,668 مبنى متضرر داخل المدينة. ومنذ ذلك الحين، كانت هناك موجات من العائدون وتتراوح التقديرات السكانية الحالية بين 150,000 إلى 330,000 نسمة. لا تزال احتياجات المأوى مرتفعة، ويقدر أن نصف السكان يعيشون في ملاجئ متضررة أو غير ملائمة. يوفر أطلس المدينة هذا معلومات مفصلة عن إعادة التأهيل وإعادة الإعمار والأضرار التي لحقت بالمباني في 23 حيًا في مدينة الرقة.

OVERVIEW

In partnership with United Nation Operational Satellite Applications Programme - UNOSAT, REACH conducted a damage and rehabilitation assessment to map damaged, demolished, reconstructed and rehabilitated buildings, as well as affected key infrastructure, such as schools, markets and hospitals. Through this comprehensive analysis on the specific location and classification of structural status, the atlas aims to be a tool for local government and humanitarian organizations to facilitate the planning and implementation of humanitarian activities in Ar-Raqqa. In particular, when used together with identified shelter needs as reported by the Humanitarian Needs Assessment Programme (HNAP),³ the atlas aims to assist humanitarian actors performing emergency repairs of War Damaged Shelters (WDS), as well as to advise reconstruction and early recovery.

لمحة عامة

بالشراكة مع برنامج الأمم المتحدة للتطبيقات الساتلية التشغيلية - يونوسات، أجرت ريتش تقييمًا للأضرار وإعادة التأهيل لرسم خرائط للمباني المتضررة والمهدمة والمعاد بناؤها والمعاد تأهيلها، فضلاً عن البنية التحتية الرئيسية المتضررة، مثل المدارس والأسواق والمستشفيات. من خلال هذا التحليل الشامل للموقع المحدد وتصنيف الوضع الهيكلي، يهدف الأطلس إلى أن يكون أداة للحكومة المحلية والمنظمات الإنسانية لتسهيل تخطيط وتنفيذ الأنسطة الإنسانية في الرقة. على وجه الخصوص، عند استخدامه جنبًا إلى جنب مع احتياجات المأوى المحددة كما ذكرت (منظمة هناب), يهدف الاطلس إلى مساعدة الجهات الإنسانية الفاعلة في إجراء إصلاحات طارئة للملاجئ التي دمرتها الحرب, وكذلك تقديم المشورة لإعادة الإعمار والتعافي المبكر.

METHODOLOGY

Using high resolution satellite imagery acquired on 29 April 2021, 21 October 2017, 03 February 2017, 29 May 2015, 12 February 2014, and 22 October 2013, structural changes over time were detected, providing evidence of the physical status of observed structures. Based on the type of change, buildings were categorized to be intact, damaged, destroyed, demolished, rehabilitated or reconstructed. Based on the Infrastructure Classification by the UNOSAT-UNITAR, 313 key infrastructure points of interest were also identified and their likely physical status was assessed. This damage atlas presents the results disaggregated to a neighbourhood-level, whereas the overall city-level results can be found in the Ar-Raqqa Damage Analysis Report.

المنهجية

باستخدام صور الأقمار الصناعية العالية الدقة التي تم الحصول عليها في 29 أبريل 2021 ، 21 أكتوبر 2017، 3 فبراير 2017، 29 مايو 2015، 12 فبراير 2014، 20 أكتوبر 2013، تم تحديد الأضرار الهيكلية. بناءً على نوع التغيير، تم تصنيف المباني على أنها سليمة أو متضررة أو مدمرة أو مهدمة أو مُعاد تأهيلها أو أعيد بناؤها. استنادًا إلى تصنيف البنية التحتية الذي اكتشفها يونوسات - يونيتار أثناء الكشف عن الأقمار الصناعية، تم تحديد 313 نقطة مهمة للبنية التحتية الرئيسية وتقييم الأضرار المادية المحتملة. يعرض هذا التقرير النتائج المصنفة على مستوى المدينة في تقرير الحيل أضرار الرقة.

- $^1.\ UNHCR, April\ 2018,\ https://www.unhcr.org/sy/11607-first-un-humanitarian-mission-raqqa-city-post-isis.html$
- ². Save the Children, Return to Al Ragga, June 2021
- https://resourcecentre.savethechildren.net/node/19436/pdf/sc_raqqa_area-based_report_final.pdf
- HNAP Mobility and Needs Monitoring Dataset, April 2021, https://hnap.info/

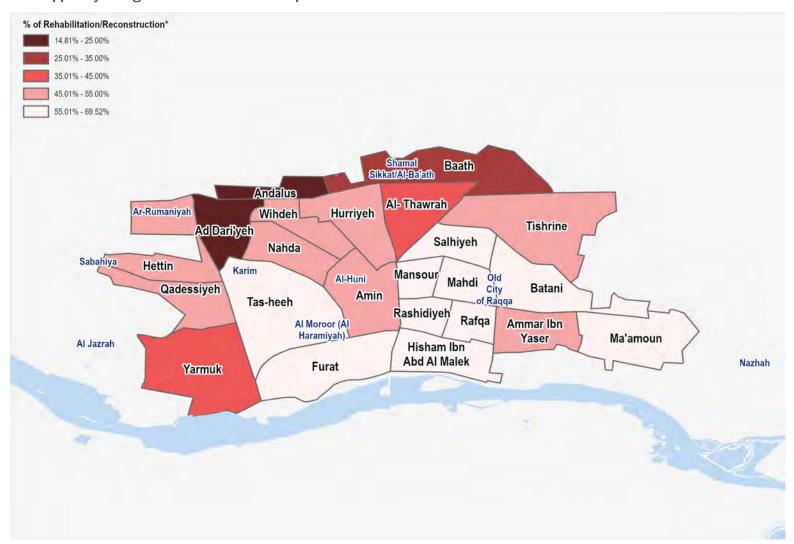
- 4 .lbid., Save the Children used an estimate of 270,000-330,000 while HNAP gave a moderate estimate of 153,000.
- 5. Findings on infrastructure should be considered indicative as no ground-level validation of damage or rehabilitation was conducted.



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Ar-Raqqa City - Neighourhood Reference Map

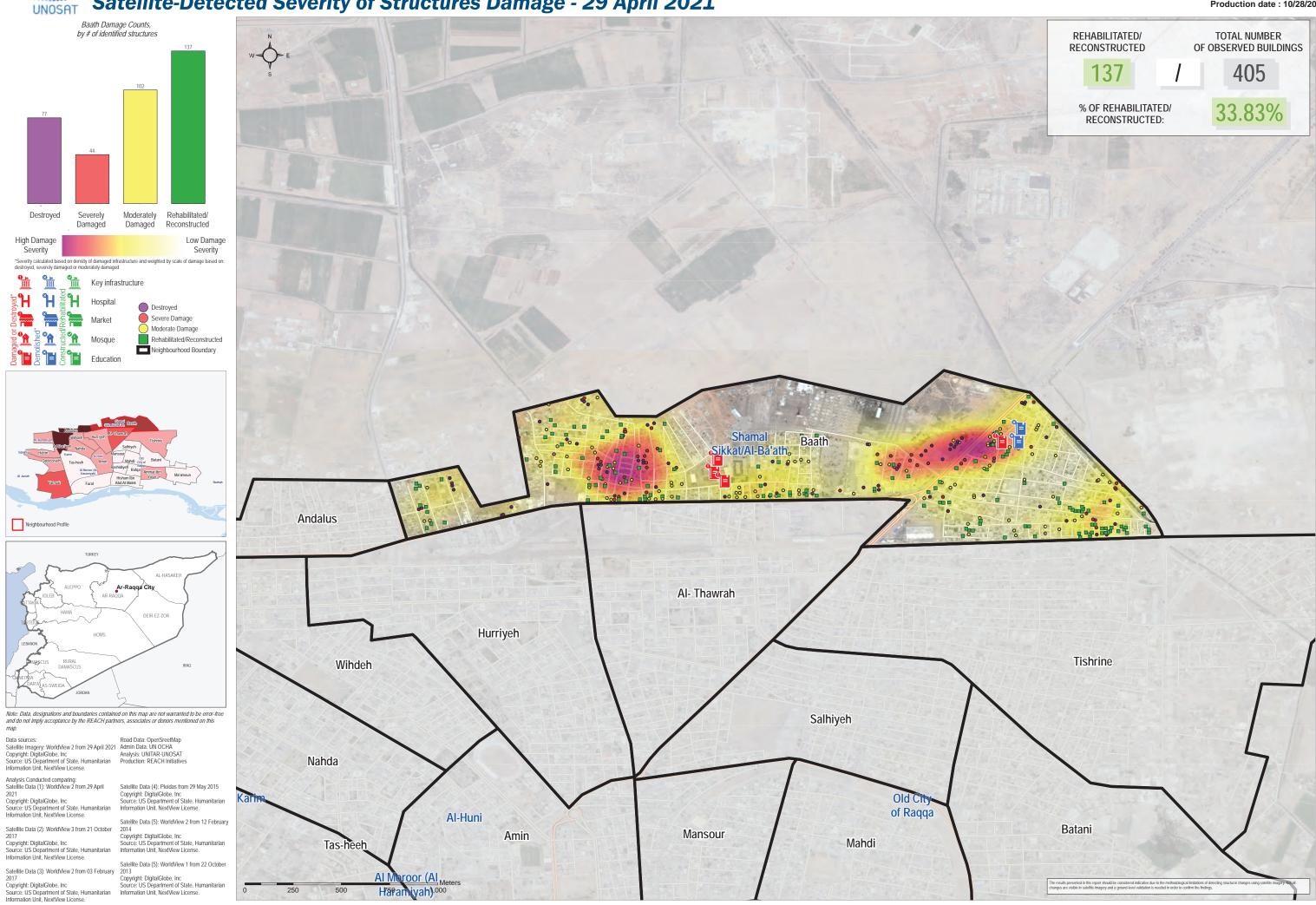


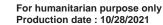
^{*} The percentage of rehabilitation/reconstruction represents the percentage of buildings that are rehabilitated/reconstructed versus buildings that are still damaged/destroyed. The higher the %, the more rehabilitation/reconstruction has been done since 2013.

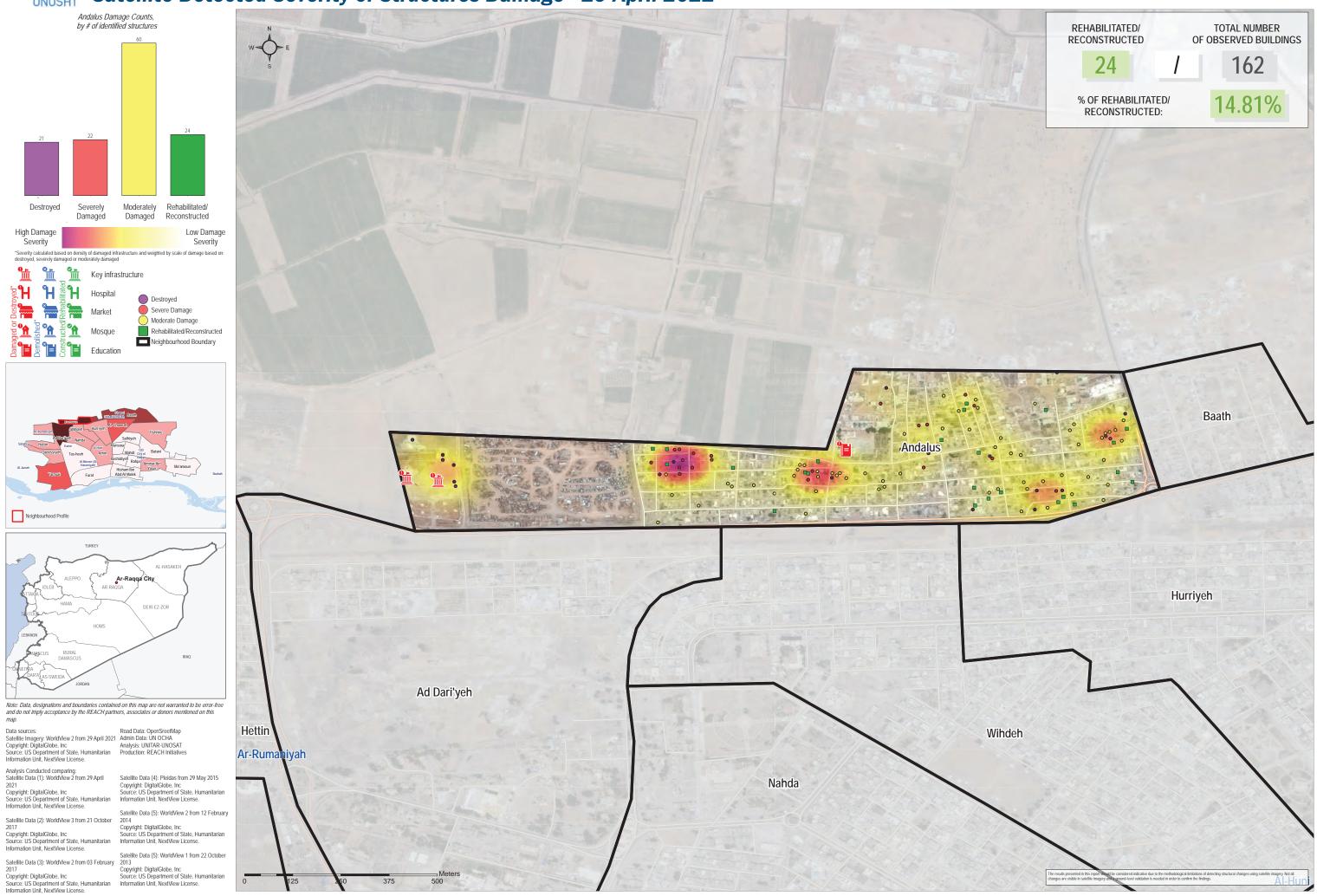
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Satellite-Detected Severity of Structures Damage - 29 April 2021

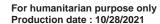


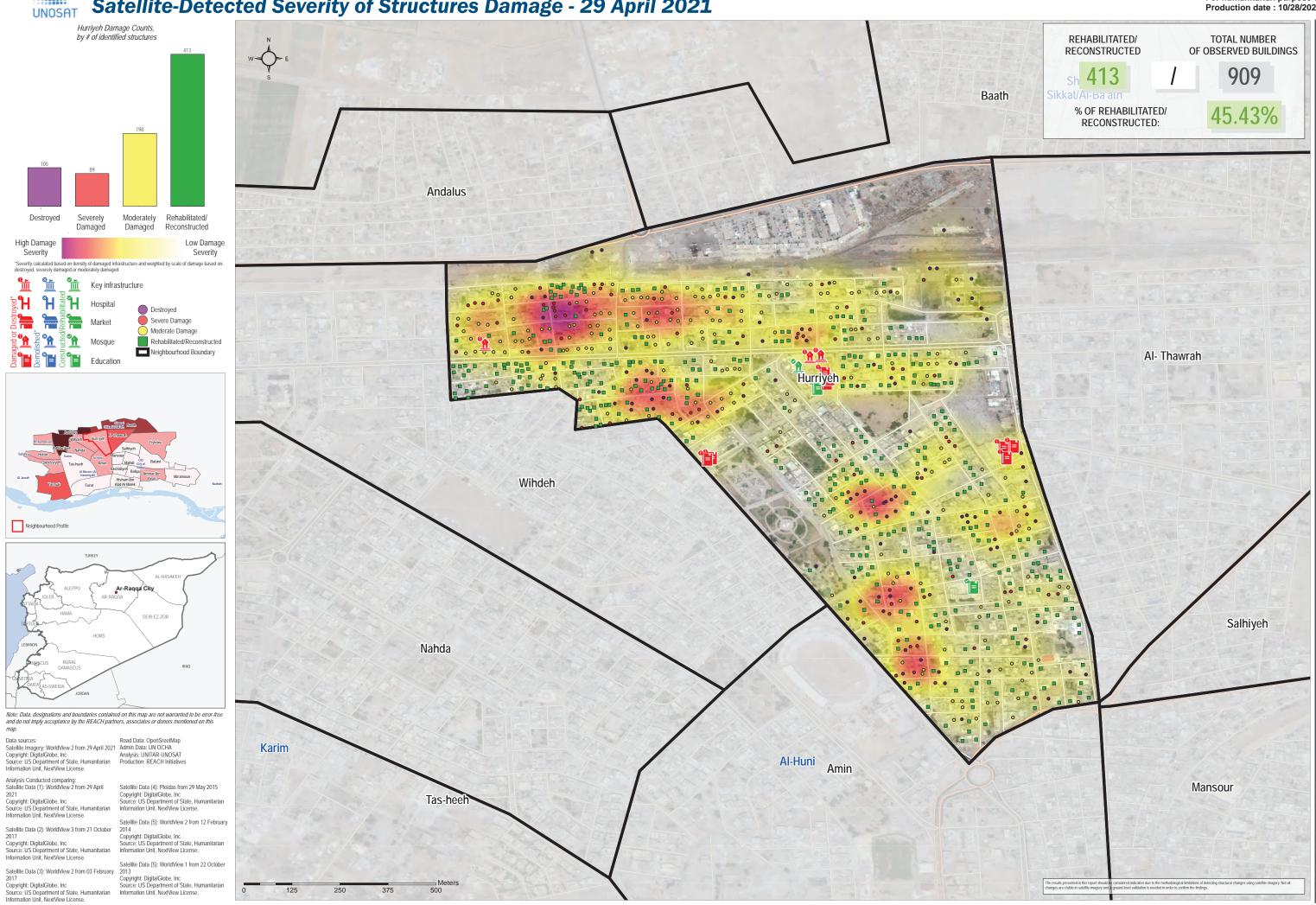


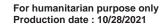


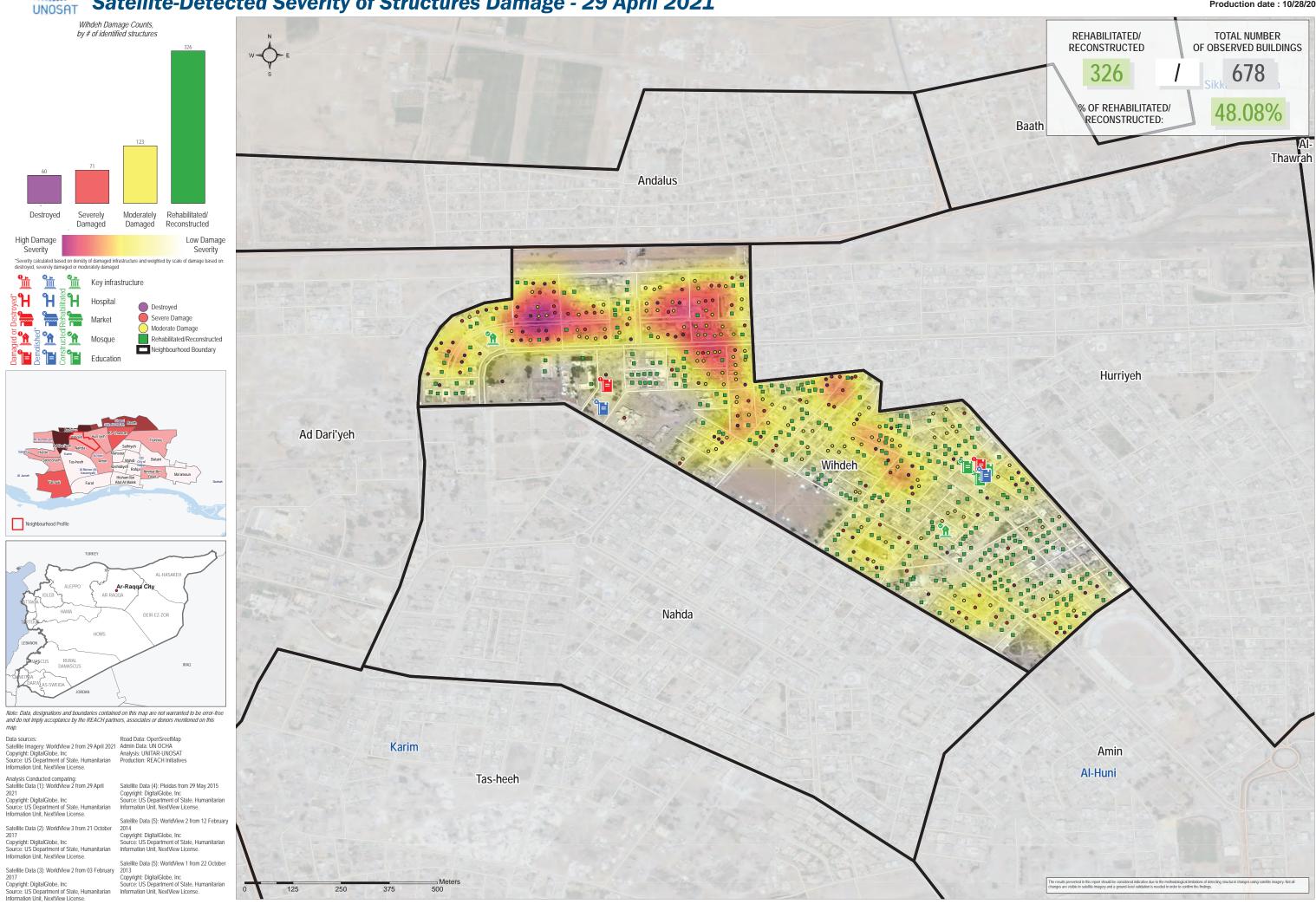
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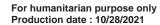
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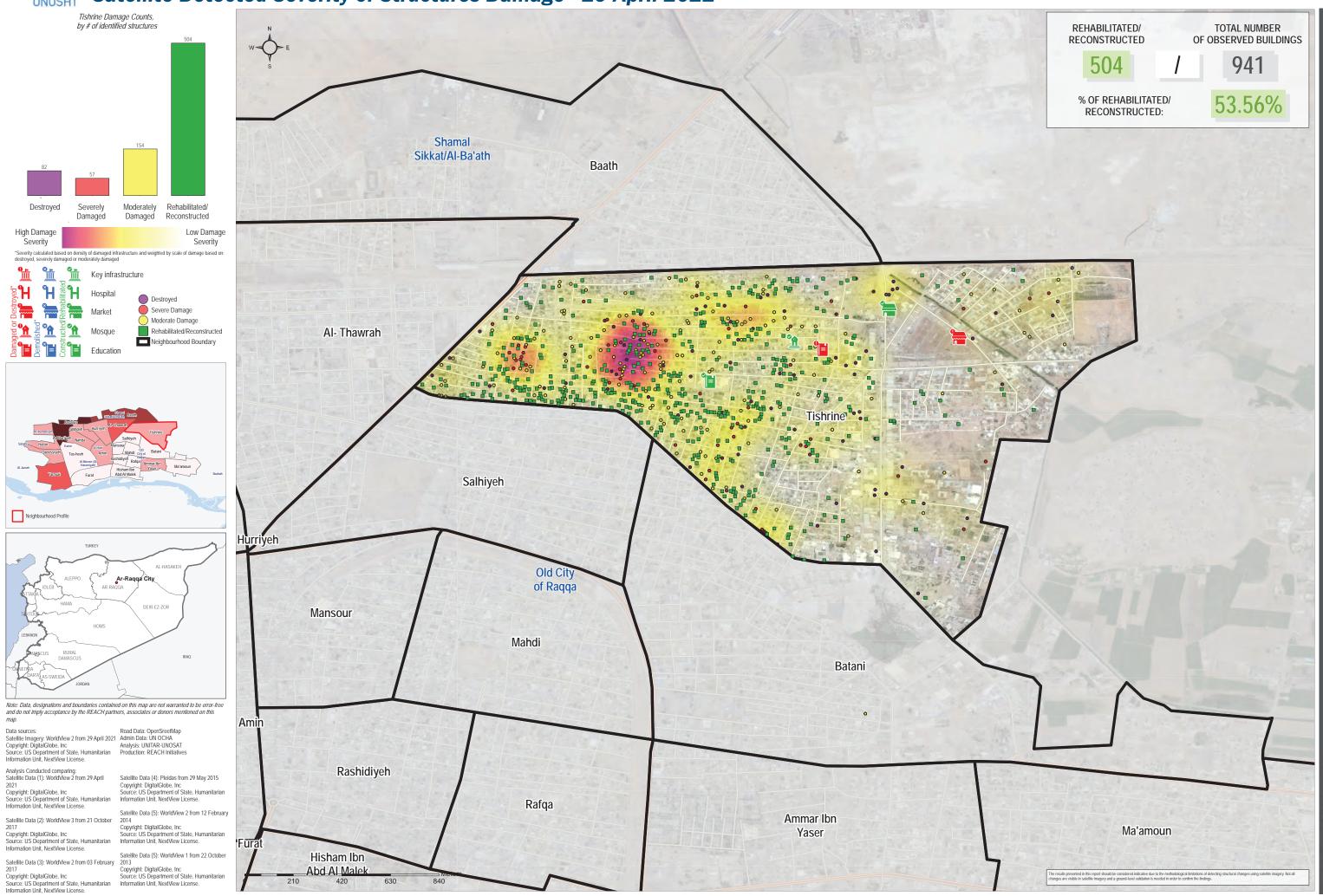


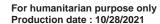


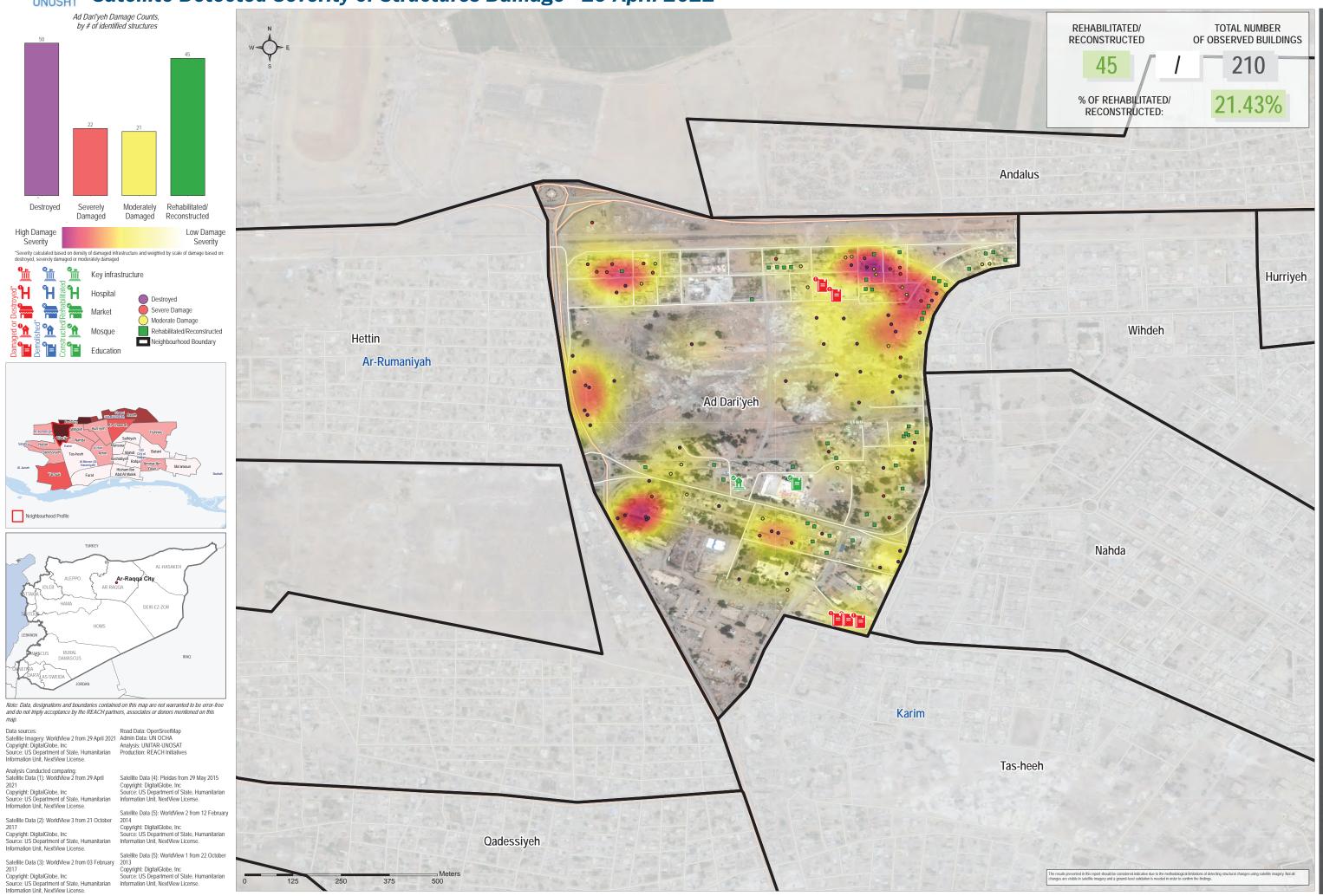




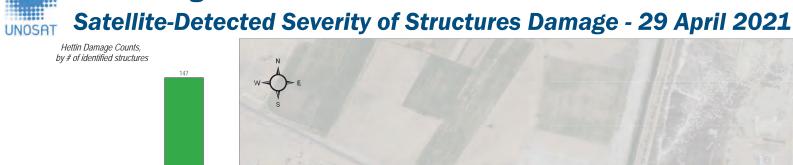


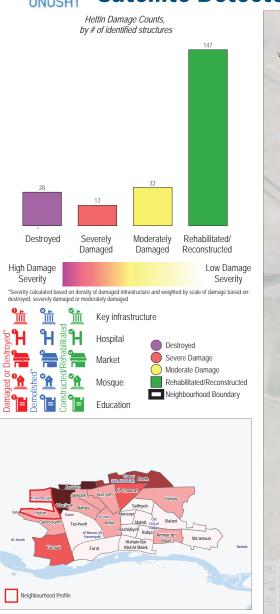


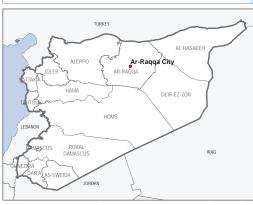




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2017

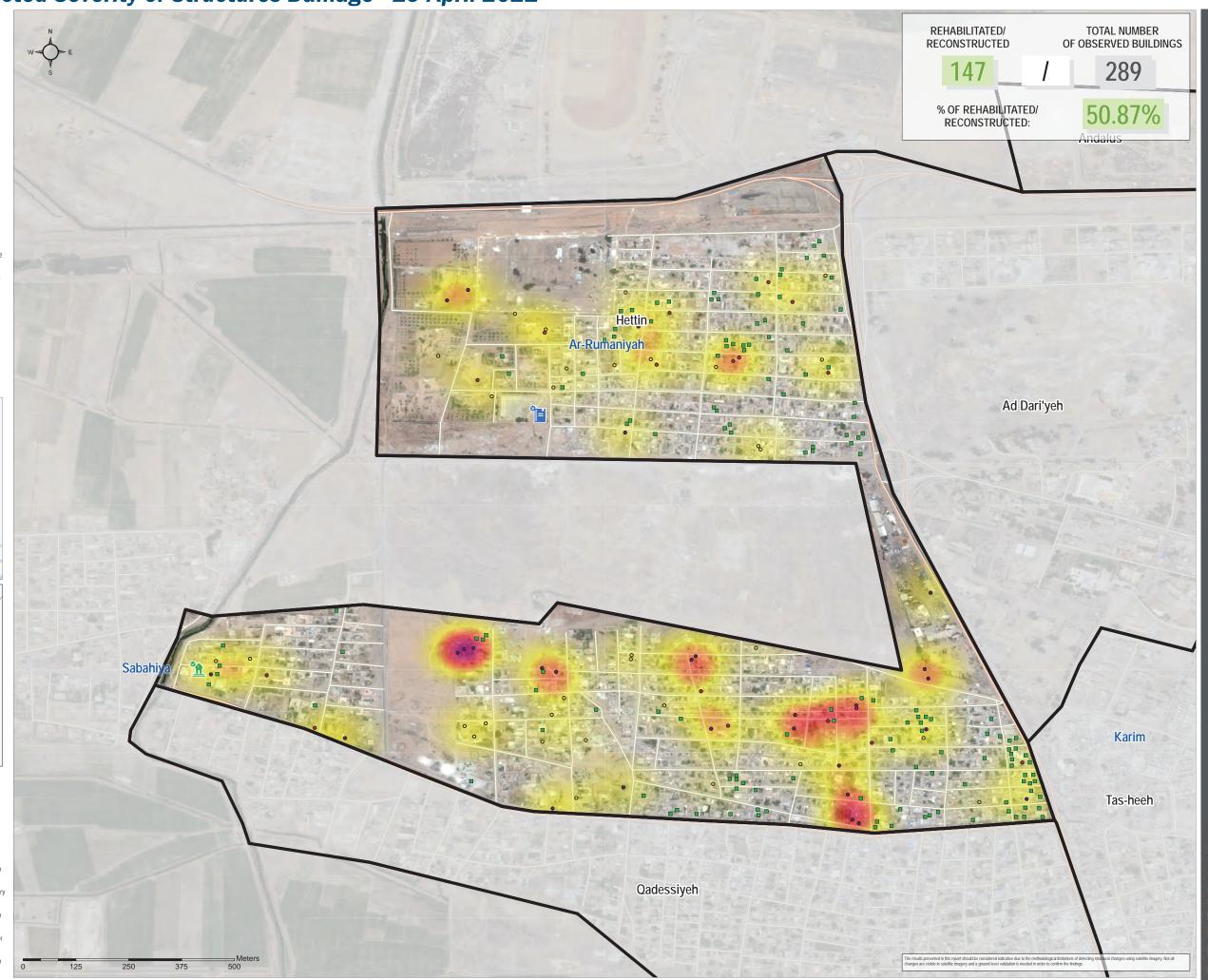
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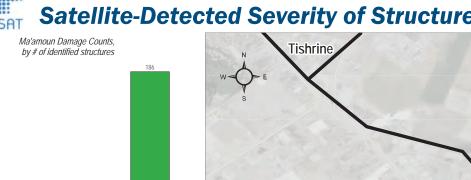
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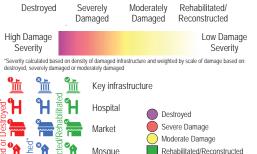


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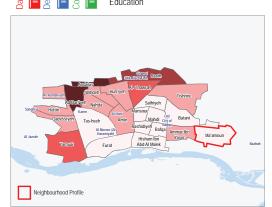
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Neighbourhood Boundary





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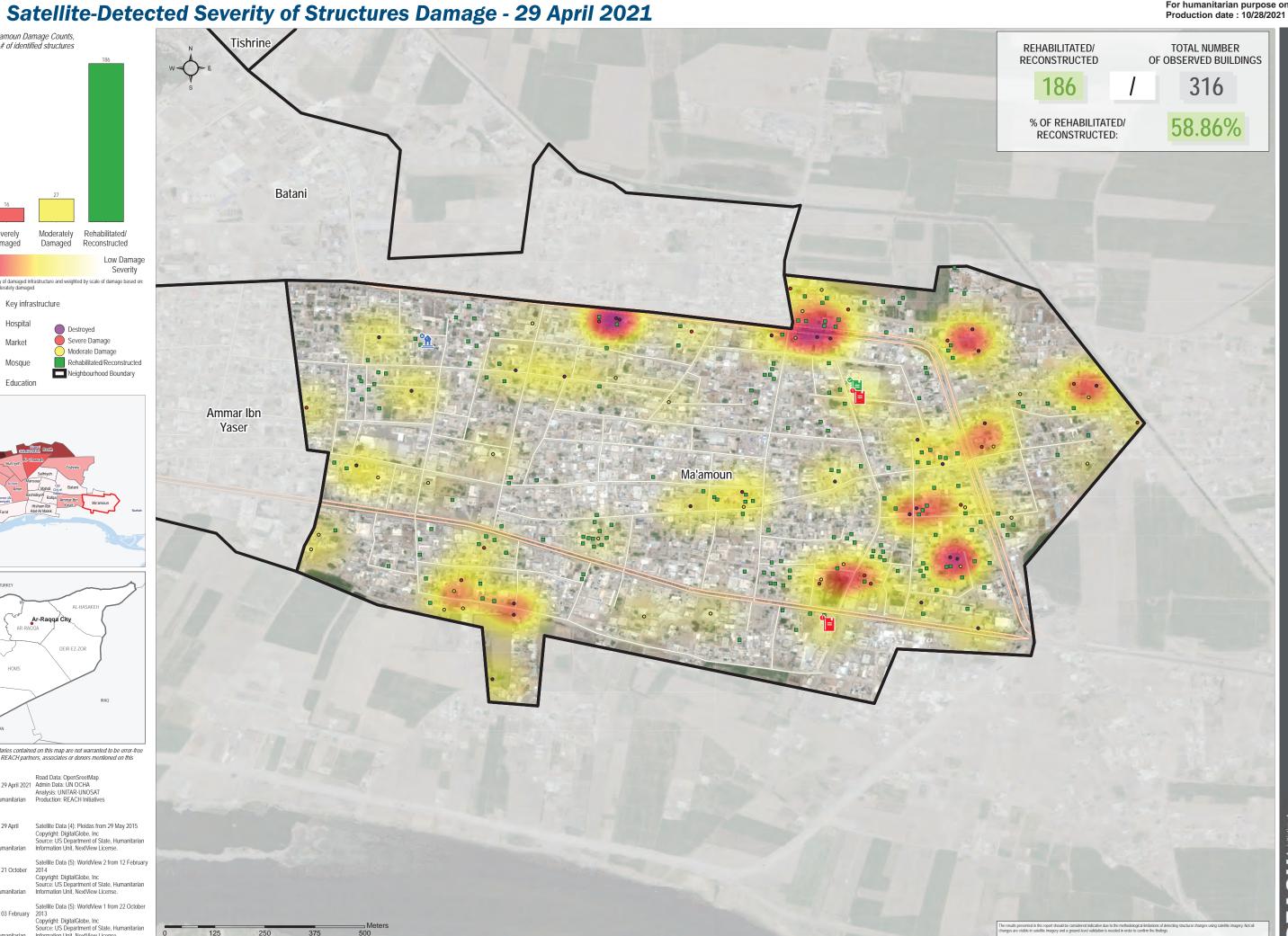
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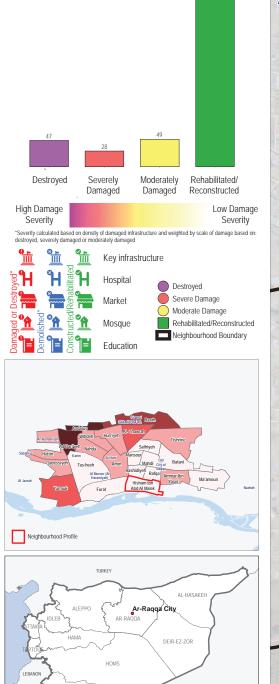
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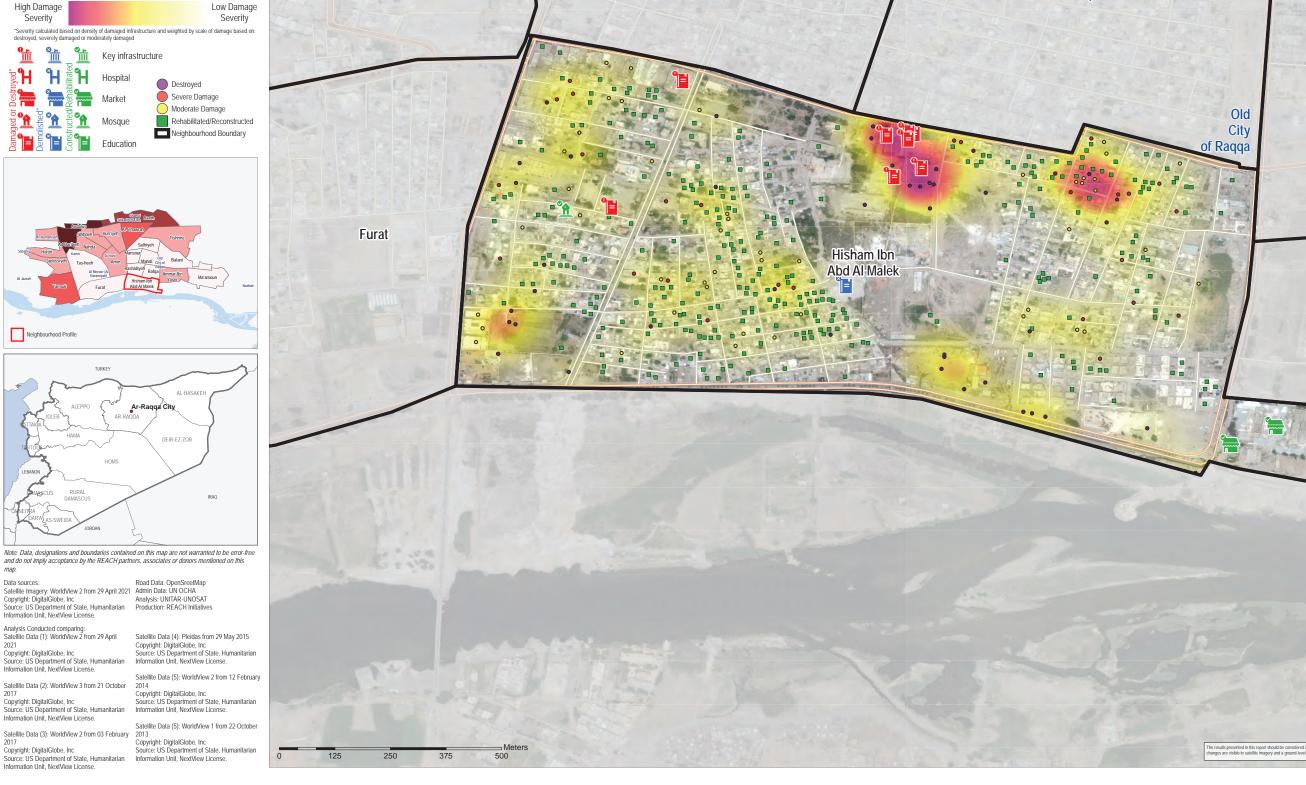
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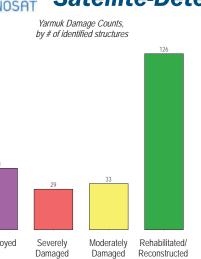
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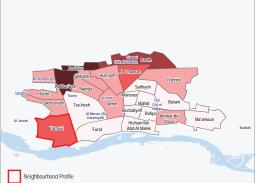
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High Damage







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