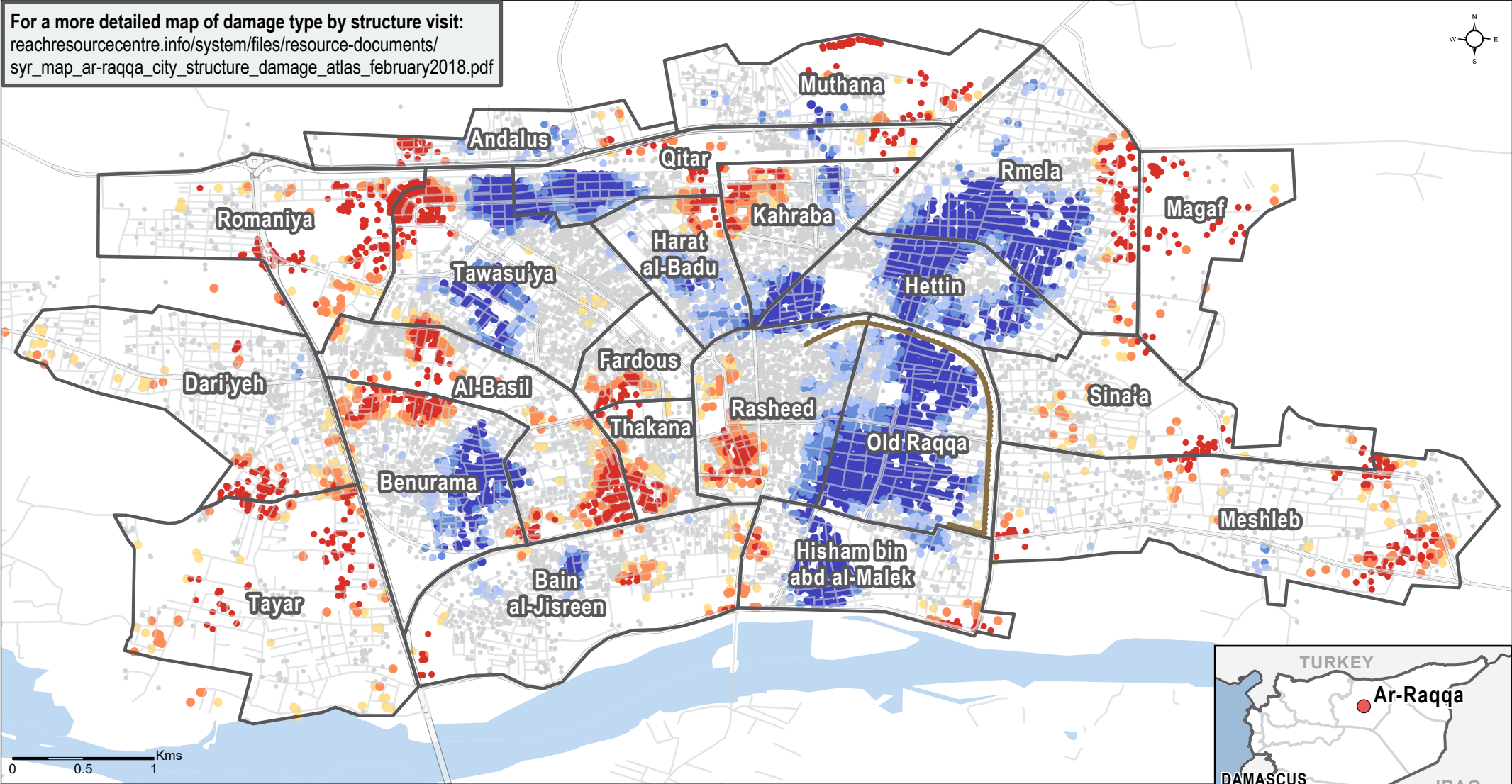


# SYRIA - Ar-Raqqa

## Prevalence of Moderately Damaged Structures for Shelter Rehabilitation

For humanitarian purposes only  
Production date : 28 October 2018

For a more detailed map of damage type by structure visit:  
[reachresourcecentre.info/system/files/resource-documents/syr\\_map\\_ar-raqqa\\_city\\_structure\\_damage\\_atlas\\_february2018.pdf](http://reachresourcecentre.info/system/files/resource-documents/syr_map_ar-raqqa_city_structure_damage_atlas_february2018.pdf)



High prevalence of destroyed and severely damaged structures



Structural damage in an area that shows no strong association to a single damage classification (destroyed or moderately damaged)



High prevalence of moderately damaged structures



Optimized hot spot analysis  
Using a census of damage points created by UNOSAT, REACH Initiative used Optimized Hot Spot Analysis, to identify statistically significant areas of high and low (hot and cold) levels of damage in Raqqa. To be a statistically significant hot spot, a feature will have a high value and be surrounded by other features with high values as well. The local sum for a feature and its neighbors is compared proportionally to the sum of all features; when the local sum is very different from the expected local sum, and when that difference is too large to be the result of random chance, a statistically significant z-score results. The tool used a categorical, numeric variable, ranking damage from 1 (completely destroyed) to 3 (moderate damage).

More information on the tool used is available here: <http://pro.arcgis.com/en/pro-app/tool-reference/spatial-statistics/how-optimized-hot-spot-analysis-works.htm>

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:  
Satellite Imagery used in Analysis: GeoEye-2 from 21 October 2017  
Copyright: DigitalGlobe, Inc  
Source: US Department of State, Humanitarian Information Unit, NextView License

Road Data: OpenStreetMap  
Boundaries: REACH Data Collection Units (DCU)  
Analysis: UNITAR-UNOSAT  
Production: REACH Initiatives