

This initial quantification of conflict generated debris in Aghdam is derived from official building footprint data provided by the Ministry of Economy/State Committee on Property of Azerbaijan along with satellite imagery. This data was combined with an above surface height model, derived from the difference between a Digital Terrain Model (SRTM) and a Digital Surface Model (ALOS World 3D).

For visualization and modeling purposes, results were aggregated into an H3 hexagonal grid where each cell is 1.5 hectares wide.

- Disposal site
- Routes leading from debris to disposal site

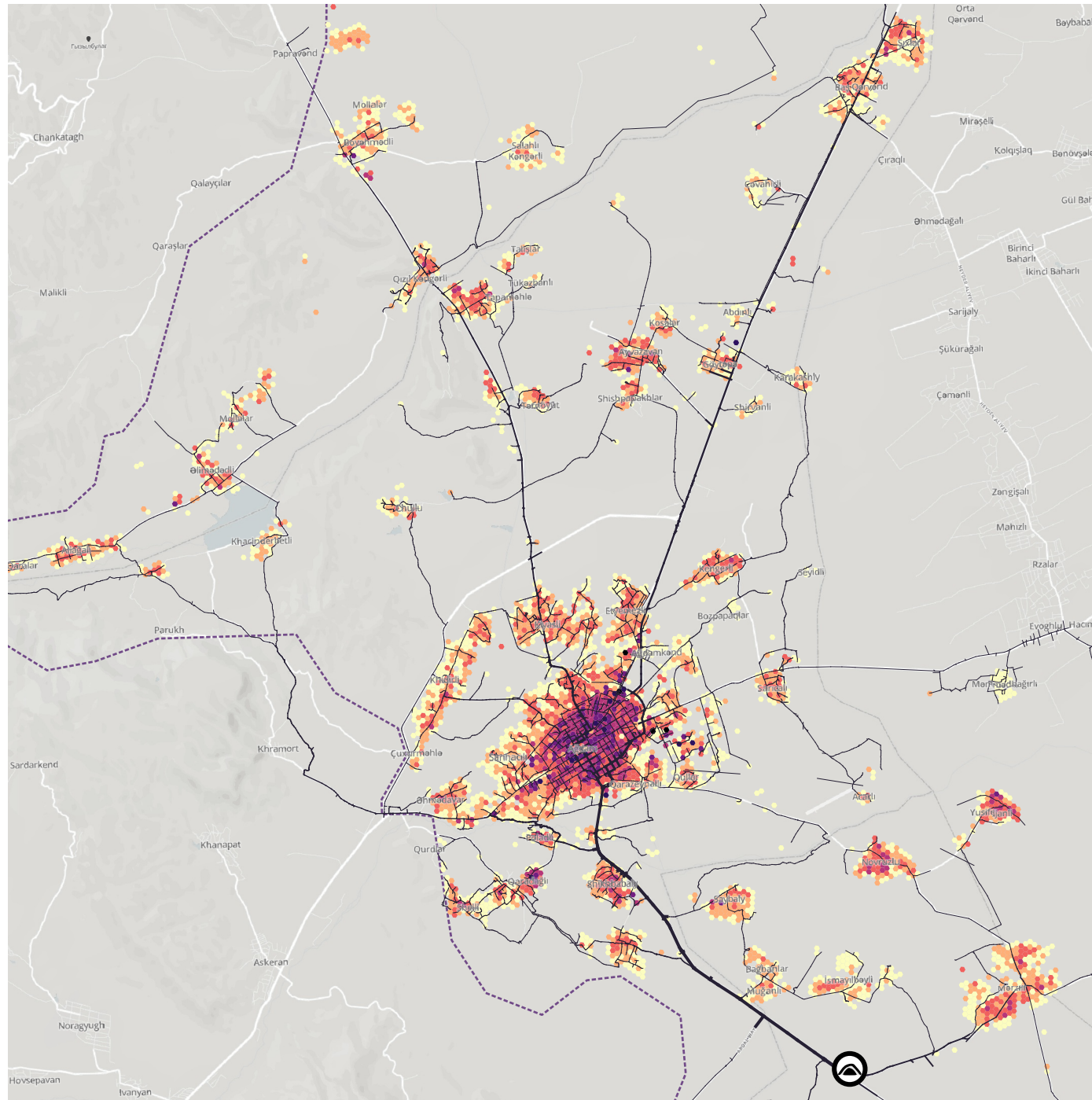
**Estimated debris quantities (tonnes)**

- < 500
- 500 - 1,000
- 1,000 - 2,000
- 2,000 - 3,000
- 3,000 - 5,000
- 5,000 - 10,000
- > 10,000

Total debris quantity **2,998,755 t**



Datum: WGS 1984  
Coordinate System: Universal Transverse Mercator 38N



**SCENARIO 1 - ALL TO DISPOSAL**  
**Debris Management Outputs**

Time to clear (months)	18
Time to recycle (months)	0
Total time to clear and recycle (months)	18
Total cost to clear (US\$)	4,100,000
Revenue from recycling (US\$)	0
Cost less revenue (US\$)	4,100,000
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Total distance covered (km)	4,325,000
CO2e from trucking (tCO2)	8,000
Cost of haulage (US\$)	4,100,000
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Material recovered for reconstruction (tonnes)	0
Material recovered for reconstruction (%)	0
Cost of processing of debris (US\$)	0
Value of recovered material in market (US\$)	0
Total cost of natural raw materials substituted (US\$)	0
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Material disposed (tonnes)	2,998,755
Material disposed (%)	100
Total space required for disposal (ha)	375
Value of land taken by debris disposal (US\$/year)	43,000

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- Disposal site
- Crushers and recycling depots
- Routes leading from debris to disposal and recycling sites

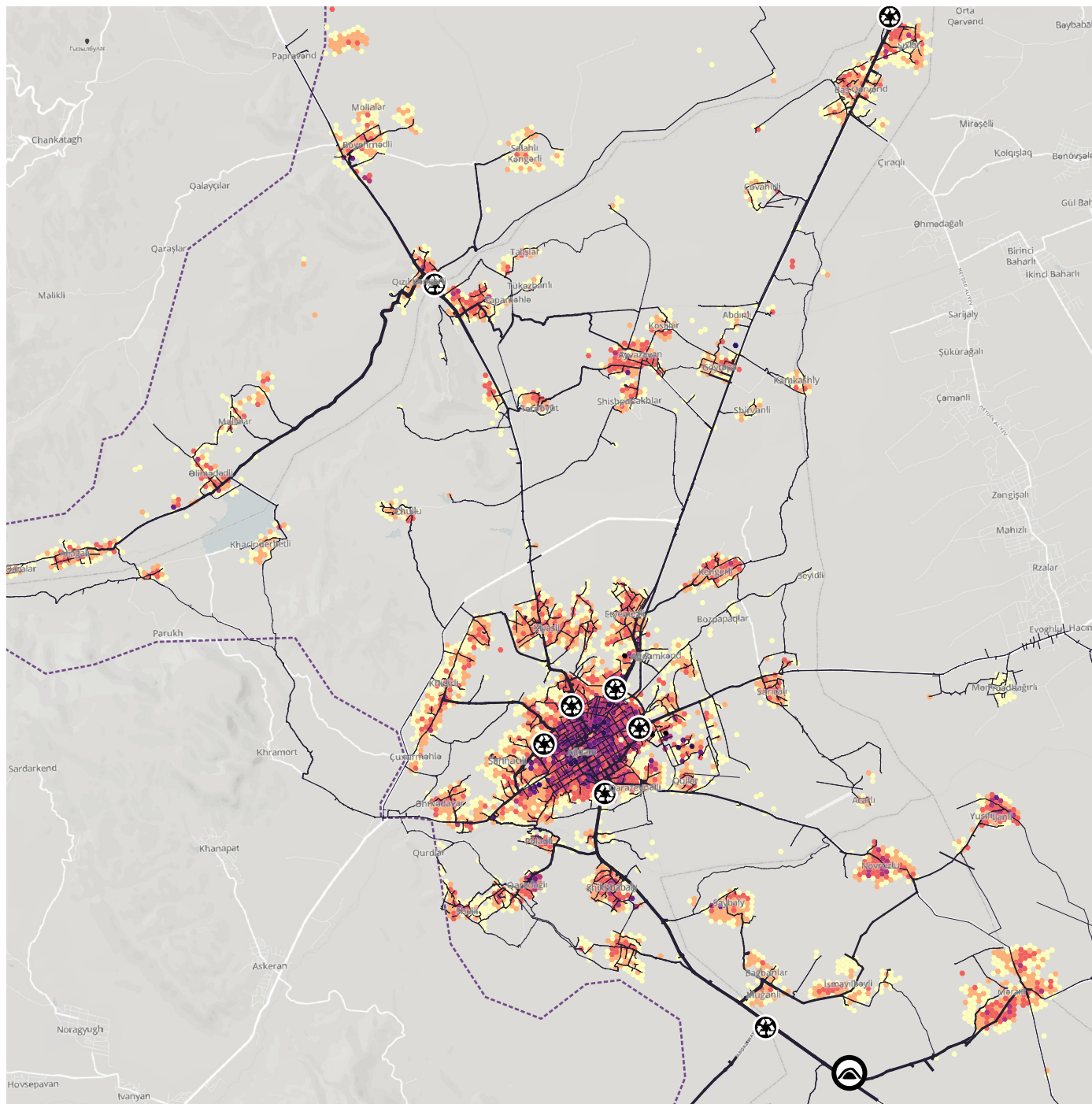
**Estimated debris quantities (tonnes)**

- < 500
- 500 - 1,000
- 1,000 - 2,000
- 2,000 - 3,000
- 3,000 - 5,000
- 5,000 - 10,000
- > 10,000

Total debris quantity **2,998,755 t**



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**SCENARIO 2  
50% DECENTRALIZED RECYCLING  
Debris Management Outputs**

Time to clear (months)	13
Time to recycle (months)	16
Total time do clear and recycle (months)	16
Total cost to clear (US\$)	5,600,000
Revenue from recycling (US\$)	2,600,000
Cost less revenue (US\$)	3,000,000
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Total distance covered (km)	2,730,000
CO2e from trucking (tCO2)	2,100
Cost of haulage (US\$)	2,600,000
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Material recovered for reconstruction (tonnes)	1,499,377
Material recovered for reconstruction (%)	50
Cost of processing of debris (US\$)	3,000,000
Value of recovered material in market (US\$)	2,600,000
Total cost of natural raw materials substituted (US\$)	4,334,000
<hr/>	
Material disposed (tonnes)	1,900,000
Material disposed (%)	50
Total space required for disposal (ha)	24
Value of land taken by debris disposal (US\$/year)	28,000

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- Centralized recycling facility
- Disposal site
- Routes leading from debris to disposal/recycling site

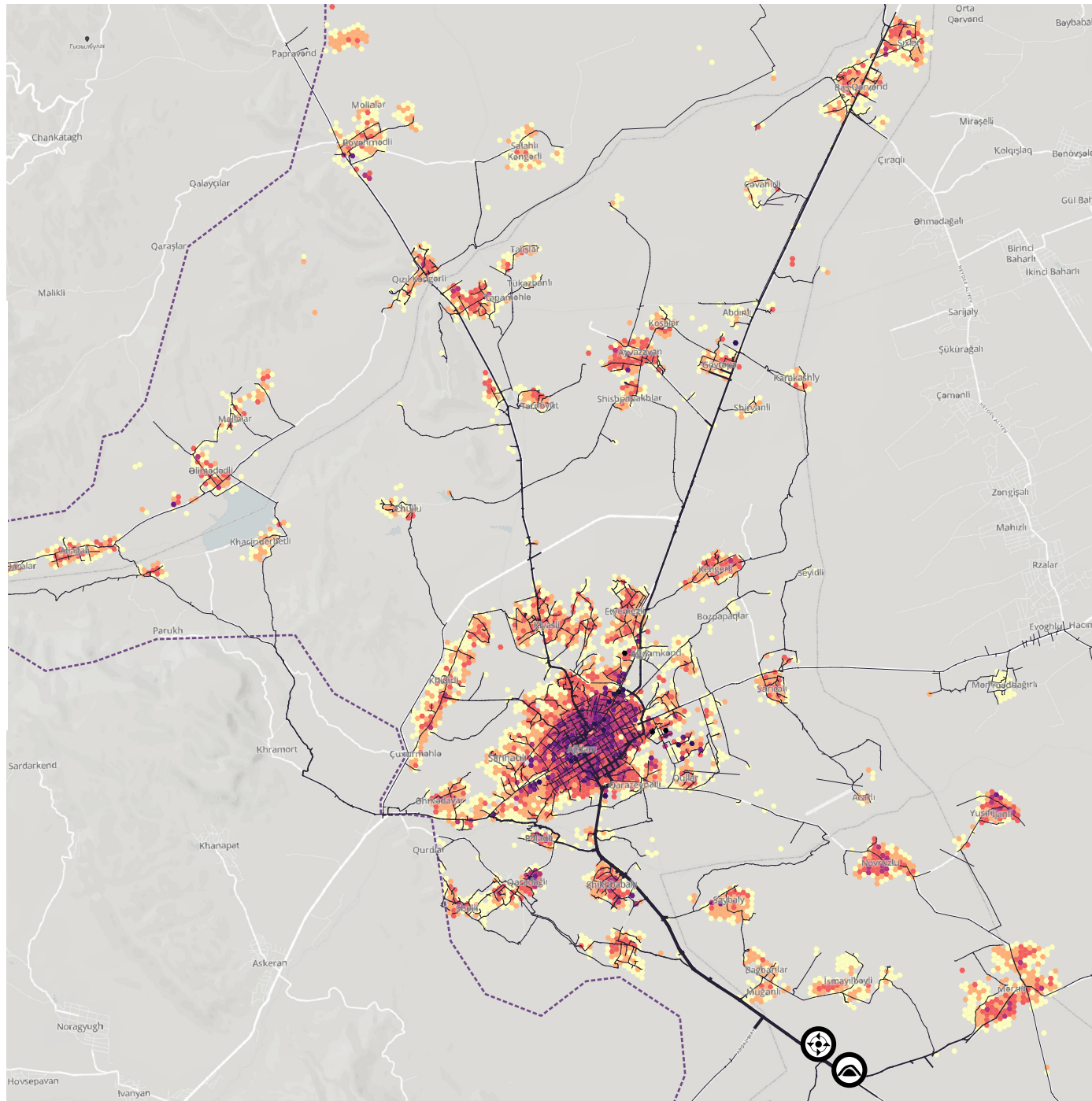
**Estimated debris quantities (tonnes)**

- < 500
- 500 - 1,000
- 1,000 - 2,000
- 2,000 - 3,000
- 3,000 - 5,000
- 5,000 - 10,000
- > 10,000

Total debris quantity **2,998,755 t**



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**SCENARIO 3  
50% CENTRALIZED RECYCLING  
Debris Management Outputs**

Time to clear (months)	17
Time to recycle (months)	41
Total time to clear and recycle (months)	41
Total cost to clear (US\$)	6,400,000
Revenue from recycling (US\$)	2,600,000
Cost less revenue (US\$)	3,800,000
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Total distance covered (km)	4,325,000
CO2e from trucking (tCO2)	8,000
Cost of haulage (US\$)	3,500,000
<hr/>	
Material recovered for reconstruction (tonnes)	1,499,377
Material recovered for reconstruction (%)	50
Cost of processing of debris (US\$)	2,998,755
Value of recovered material in market (US\$)	2,600,000
Total cost of natural raw materials substituted (US\$)	4,334,000
<hr/>	
Material disposed (tonnes)	1,900,000
Material disposed (%)	50
Total space required for disposal (ha)	24
Value of land taken by debris disposal (US\$/year)	28,000

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- Centralized recycling facility
- Disposal site
- Routes leading from debris to disposal/recycling site

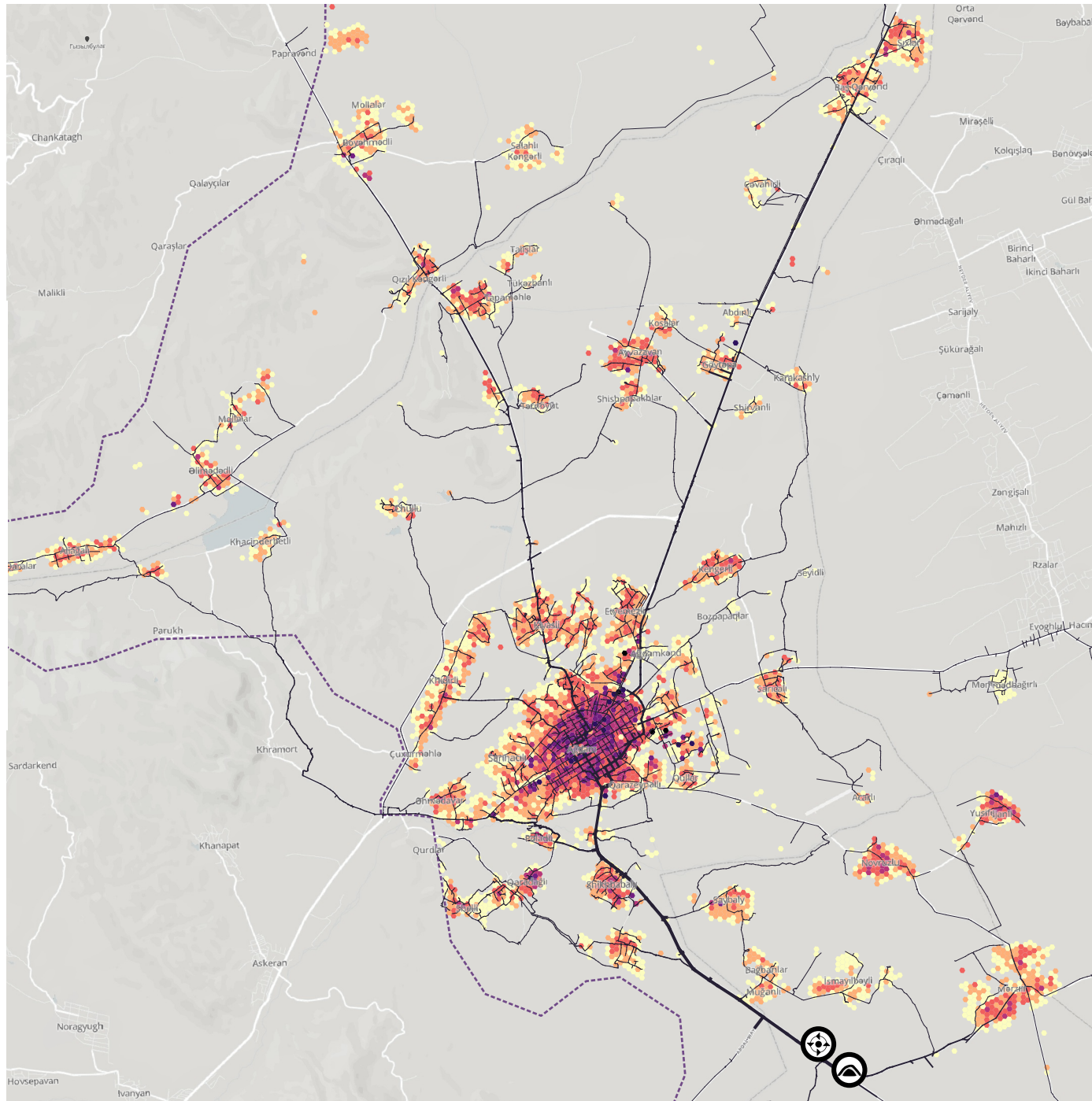
**Estimated debris quantities (tonnes)**

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- 2,000 - 3,000
- 3,000 - 5,000
- 5,000 - 10,000
- > 10,000

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**SCENARIO 4  
75% CENTRALIZED RECYCLING  
Debris Management Outputs**

Time to clear (months)	17
Time to recycle (months)	62
Total time to clear and recycle (months)	62
Total cost to clear (US\$)	7,600,000
Revenue from recycling (US\$)	3,900,000
Cost less revenue (US\$)	3,700,000
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Total distance covered (km)	4,325,000
CO2e from trucking (tCO2)	8,000
Cost of haulage (US\$)	3,100,000
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Material recovered for reconstruction (tonnes)	2,250,000
Material recovered for reconstruction (%)	75
Cost of processing of debris (US\$)	4,500,000
Value of recovered material in market (US\$)	3,900,000
Total cost of natural raw materials substituted (US\$)	6,500,000
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Material disposed (tonnes)	1,400,000
Material disposed (%)	25
Total space required for disposal (ha)	18
Value of land taken by debris disposal (US\$/year)	20,000

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- Disposal site
- industrial park
- Routes leading from debris to disposal/recycling site

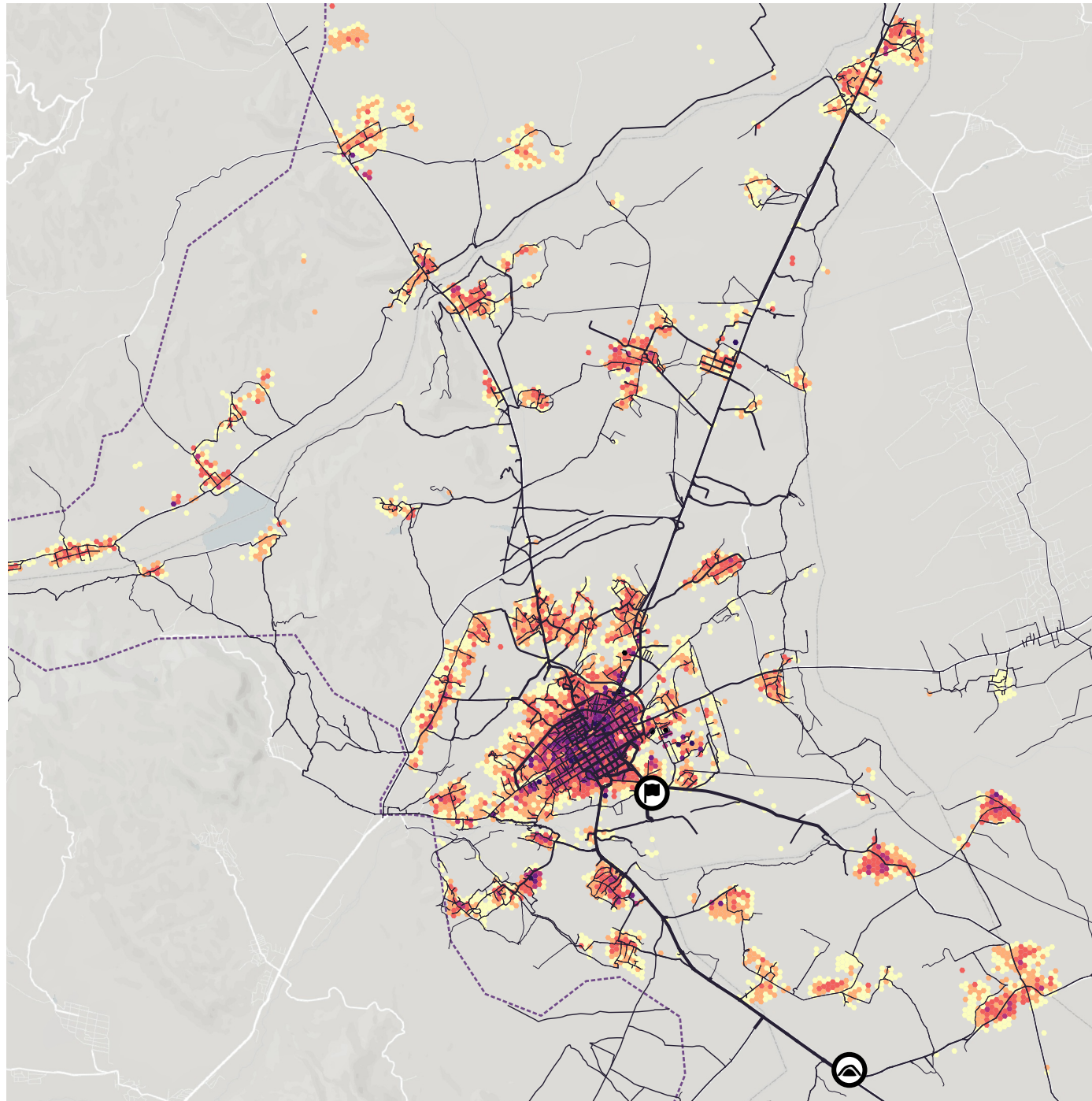
**Estimated debris quantities (tonnes)**

- < 500
- 500 - 1,000
- 1,000 - 2,000
- 2,000 - 3,000
- 3,000 - 5,000
- 5,000 - 10,000
- > 10,000

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**SCENARIO 5  
75% INDUSTRIAL PARK RECYCLING  
Debris Management Outputs**

Time to clear (months)	14
Time to recycle (months)	62
Total time to clear and recycle (months)	62
Total cost to clear (US\$)	6,900,000
Revenue from recycling (US\$)	3,900,000
Cost less revenue (US\$)	3,000,000
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Total distance covered (km)	3,067,000
CO2e from trucking (tCO2)	5,600
Cost of haulage (US\$)	2,500,000
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Material recovered for reconstruction (tonnes)	2,250,000
Material recovered for reconstruction (%)	75
Cost of processing of debris (US\$)	4,500,000
Value of recovered material in market (US\$)	3,900,000
Total cost of natural raw materials substituted (US\$)	6,500,000
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Material disposed (tonnes)	1,400,000
Material disposed (%)	25
Total space required for disposal (ha)	18
Value of land taken by debris disposal (US\$/year)	20,000