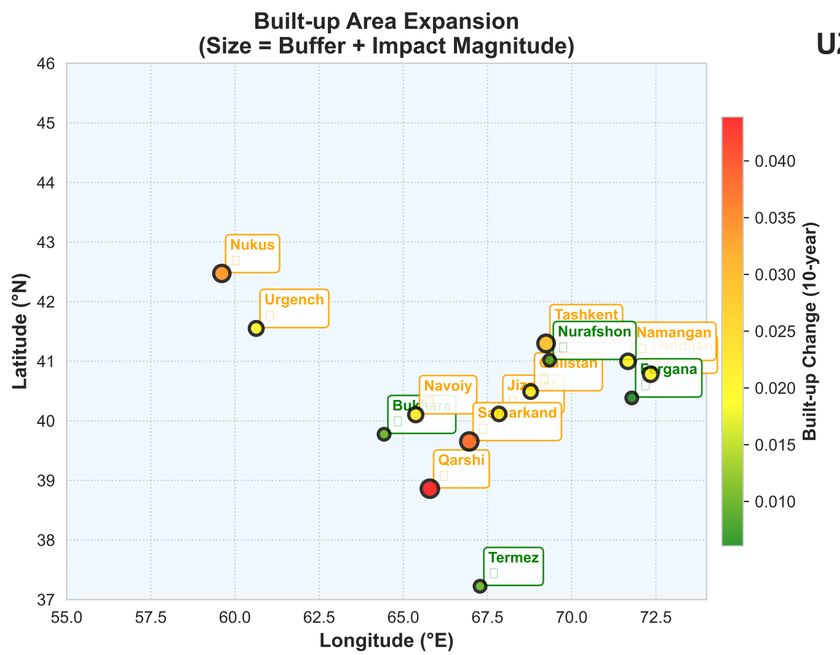
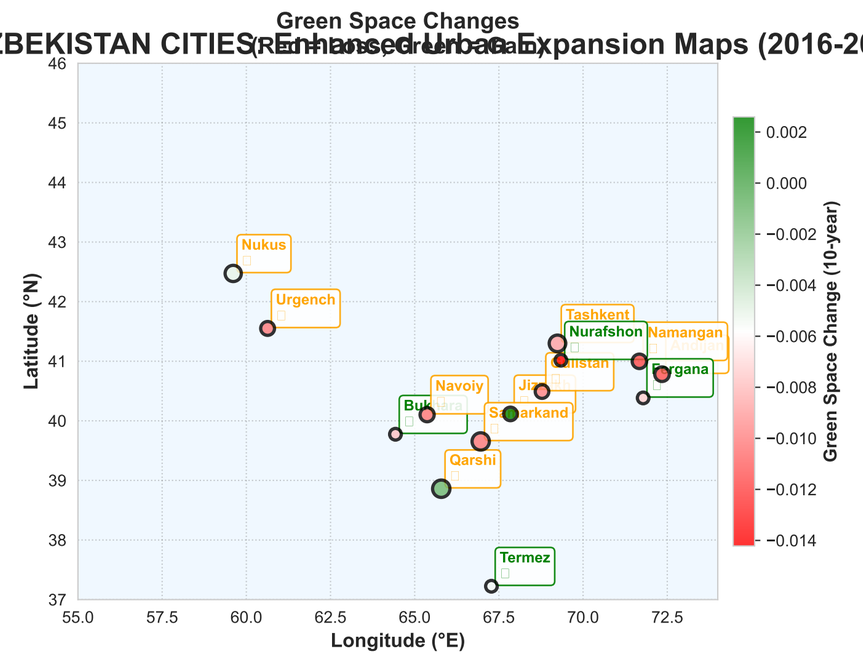
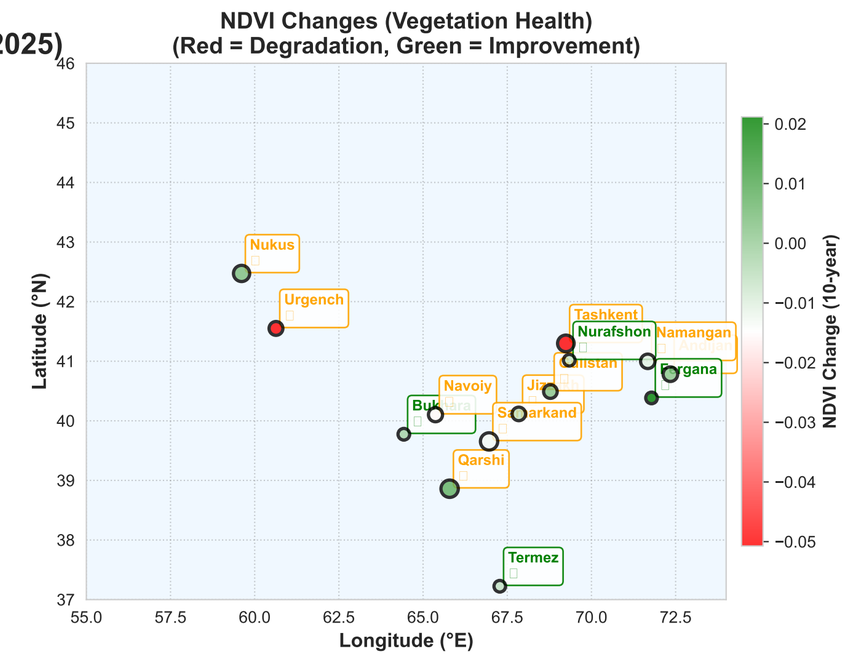
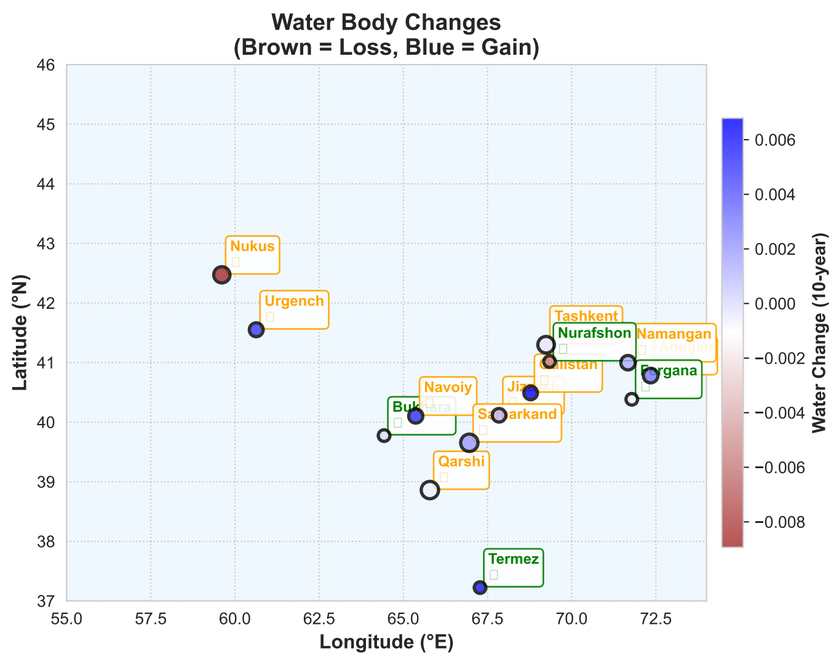
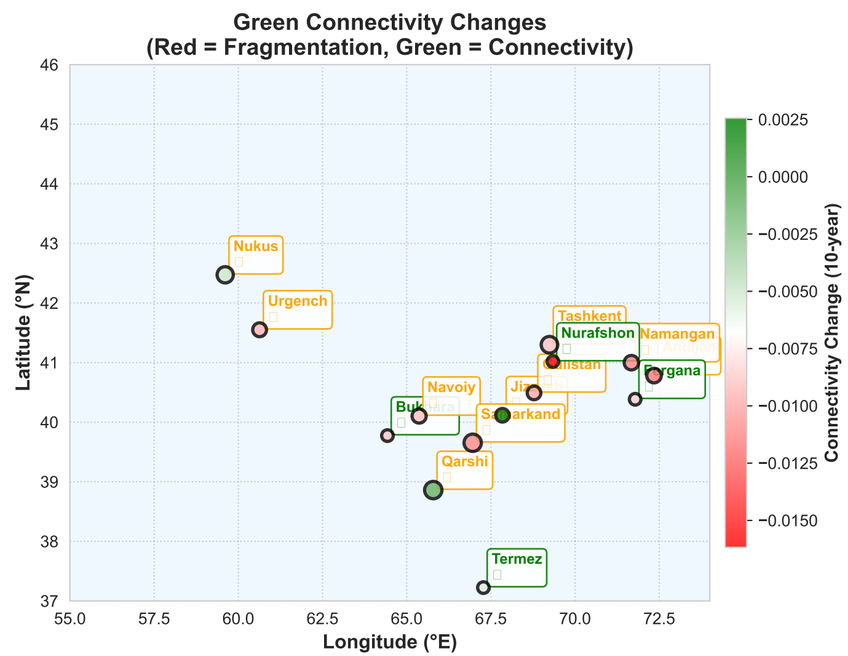
UZBEKISTAN CITIES Enhanced Urban Expansion Maps (2016-2025)









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□□ ENHANCED CITY ANALYSIS SUMMARY
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□ CITIES ANALYZED: 14
Analysis Period: 2016-2025 (10 years)
Spatial Resolution: 100m enhanced
Sample Size: 1000 avg/city

□ IMPACT CLASSIFICATION:
□ High Impact:     0 cities (0.0%)
□ Moderate Impact: 10 cities (71.4%)
□ Low Impact:      4 cities (28.6%)

□ REGIONAL STATISTICS:
Built Expansion:   +0.0219 ± 0.0112
Green Change:      -0.0080 ± 0.0045
NDVI Change:       -0.0089 ± 0.0200
Water Change:      +0.0011 ± 0.0044
Connectivity:      -0.0082 ± 0.0047

□ EXTREME CITIES:
Highest Expansion: Qarshi (+0.044)
Lowest Expansion:  Fergana (+0.006)
Best Green Gain:   Jizzakh (+0.003)
Worst Green Loss:  Nurafshon (-0.014)

□□ DATA SOURCES:
• Dynamic World V1: Land cover probability
• Landsat 8/9: Vegetation indices
• VIIRS: Nighttime lights activity
• Google Earth Engine: Server-side processing

□ KEY INSIGHTS:
• Urban expansion varies significantly by region
• Green space loss correlates with built-up growth
• Water resources show mixed responses
• Connectivity patterns indicate fragmentation
• Northern cities show different patterns than southern

□ RECOMMENDATIONS:
• Focus mitigation on high-impact cities
• Enhance green corridors in fragmented areas
• Monitor water resources in vulnerable cities
• Implement cool surface strategies in expanding areas
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