

Awase Khirni Syed Ph.D.



From Static Asset to Dynamic Opportunity in a Day

Democratizing Real Estate Redevelopment through Al

The Operating System for Urban Transformation

Edgecase Scenarios – Appendix-B



3

ETHICAL AND REPUTATIONAL RISK FROM ACCELERATING DISPLACEMENT



CORE PLATFORM RISK

Our proposition to "unlock latent value" can directly fuel gentrification by guiding property owners towards high-profit scenarios that displace existing communities for instance converting 10 affordable units into luxury condos.

STAKEHOLDER EXPOSURE

Community backlash, media scrutiny or municipal restrictions could brand our platform as a "displacement engine" creating a significant reputational damage and regulatory risk

INVESTOR CONCERNS

ESG-focused investors and city partnerships increasingly demand equity safeguards. Without proactive measures, we risk losing critical funding and strategic alliances.

Built-in Equity Solutions:

Our platform already includes robust ethical frameworks: Displacement Risk Assessor, Community Impact tools, ESG Scoring, and Affordable Housing integrations provide the foundation for responsible development guidance.

Recommended Action: Elevate equity metrics (displacement risk, affordable units) from optional add-ons to first-class outputs, Configure AI to default towards balance scenarios unless users explicitly optimize for pure profit maximization.



Data Quality & Coverage Gaps Leading to Erroneous AI outputs





PLATFORM FOUNDATION RISK

Our entire platform depends on accurate, up-to-date, and complete data from various municipalities covering zoning maps, parcel boundaries, and construction costs.

Outdated or incorrect data leads to financially invalid proformas and impossible designs, creating serious liability and user trust issues

TRUST EROSION IMPACT

A single bad recommendation like "You can build 6 stories" when the maximum is 3 stories can destroy our platform's credibility entirely.

High Addressability:

Our platform already includes robust data infrastructure incorporating data quality and validation engine, data observability platform, change detection & Alerting, Crowd-sourced validation capabilities.

Recommended Action: Prioritize "Minimum Viable Geospatial Engine" for top 10 metro areas. Implement automated fallback workflows when data is missing and add confidence scores on all outputs to maintain user trust.



Regulatory & Legal Liability

For Al-generated Recommendations





PLATFORM FOUNDATION RISK

Our platform generates legally consequential outputs where it interprets zoning policy guidelines based on which financial proformas, rezoning advice and development scenarios.

STAKEHOLDER EXPOSURE

Recommending demolition of a historically significant (but non-landmarked) building could trigger community backlash, city moratoriums, and lawsuits, even if technically "by-right".

COMPLIANCE EXPOSURE

Our platform parses unstructured legal text which may lead to non-compliant development proposals, exposing the company to liability

High Addressability:

Our platform already anticipates this and correct the process through rigorous audit trails, ESG/Community safeguards and integration of historic preservation database. Finally validation using Human-in-the-loop enforcement.

Recommended Action: Implement a "Compliance Guardrail Layer" that blocks or flags high-risk recommendations before they reach the user requiring human review or additional disclaimers.



Over-Reliance on Municipal Data fees

3

No fallback for Coverage Gaps



PLATFORM FOUNDATION RISK

Our platform assumes consistent, structured, and up-to-date municipal GIS and zoning data but many jurisdictions especially smaller towns provide data as scanned PDFs, outdated shapefiles, or not at all.

STAKEHOLDER EXPOSURE

A property owner in a mid-sized city receives a "by-right" recommendation based on outdated zoning maps only to discover the parcel was rezoned 6 months prior via bulletin not digitized in any feed.

TRUST EROSION IMPACT

Erodes trust, triggers legal exposure, and stalls adoption in long-tail markets that represent significant TAM.

High Addressability:

Our platform incorporates crowd-sourced data validation, data source onboarding wizard features and audit trail with source attribution feature that validates and provide adequate citation for approval by municipal authority.

Recommended Action: Implement a "Confidence-by-Jurisdiction" scoring system that flags low-coverage areas and offers manual override workflows (e.g., upload your zoning letter) or premium human-assisted verification as a monetizable service.



Partner Network Quality Erosion

3





PLATFORM FOUNDATION RISK

Our platform provides seamless connection to partners, but if partners are paid per lead (not per closed project), they may over-promise to win leads, provide low-effort bids and ignore small property owners (low perceived value)

STAKEHOLDER EXPOSURE

A retiree couple receives 3 "vetted" builder quotes for their triplex only to find all are cookie-cutter, overpriced and unresponsive, causing them to abandon the project

TRUST EROSION IMPACT

A bad proposal from a partner may erode trust in the platform.

High Addressability:

Our platform already includes robust partner governance where their reputation score, performance feedback is constantly monitored in a partner performance dashboard/score card. .

Recommended Action: Shift to a success-fee or outcome-based monetization model for partners, and publicly display verified completion rates (e.g., 92% of projects with this builder finish on time) to align incentive with user success.



Unsafe structures, Improper Design

Al Hallucination in Generative Design

3



PLATFORM FOUNDATION RISK

Our platform uses generative AI to propose massing, unit layouts and structural configuration but without hard constraints from real-world engineering. It may suggest cantilevers beyond material limits, egress paths that violate fire codes, and foundation designs incompatible with soil conditions

STAKEHOLDER EXPOSURE

An owner builds a "6-story mass timber" design recommended by the AI only to have it rejected during permitting due to seismic zone restrictions the AI overlooked

TRUST EROSION IMPACT

A bad design from AI may erode trust in the platform.

High Addressability:

Our platform already includes strong engineering guardrails incorporated in the design with fire egress compliance code, foundation type advisor, structural system recommender and finally regulatory compliance checker.

Recommended Action: Introduce a "Buildability Score" that integrates real-time feedback into the platform and blocks export of designs scoring below a safety threshold requiring human review.