



Artificial Intelligence Photo Auditing and Quality Control

 \odot

Ø





"Aida", An Artificial Intelligence Data Augmentation Algorithm processing 650,000+ images per month Specifically designed for the Real Estate Industry

Validation of Photo Quality & Privacy Protection

Validation of Condition







Interior & Exterior Identification

Geospatial Validation







Homeowners, Landlords, Tenants, Real Estate Agents



Appraisers

Integration with 3rd party systems











Performance Score Card

- More than 5 million images have been verified by innovative Artificial Intelligence Algorithm.
- A.I. auditing of 650,000 images per month.
- 40% of reports contain inconsistencies.
- Quality improvement on Property Inspections and Valuations from 40% to high 90's.
- A.I.
- SLA improvement to high 90's%
- Turn time improvement by half

Affordable A.I. auditing in seconds allowing 100% of Property Inspection and Valuation Reports to be audited by





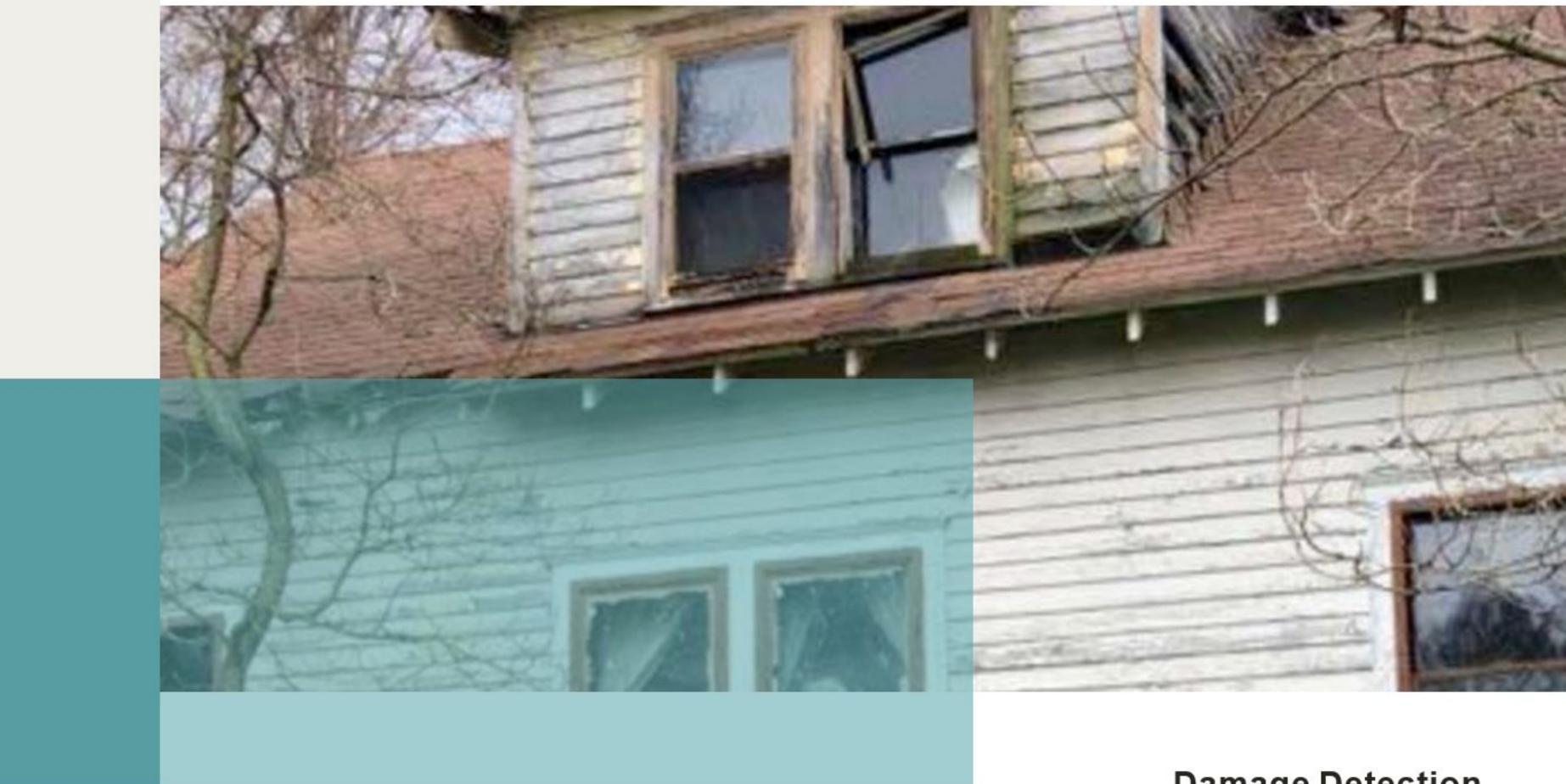
Interior & Exterior Identification



Object Detection



Damage Detection



Damage Detection

Detects damages in the image, type of damage such as holes, discoloration, broken windows etc.

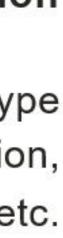


Photo Quality and Privacy

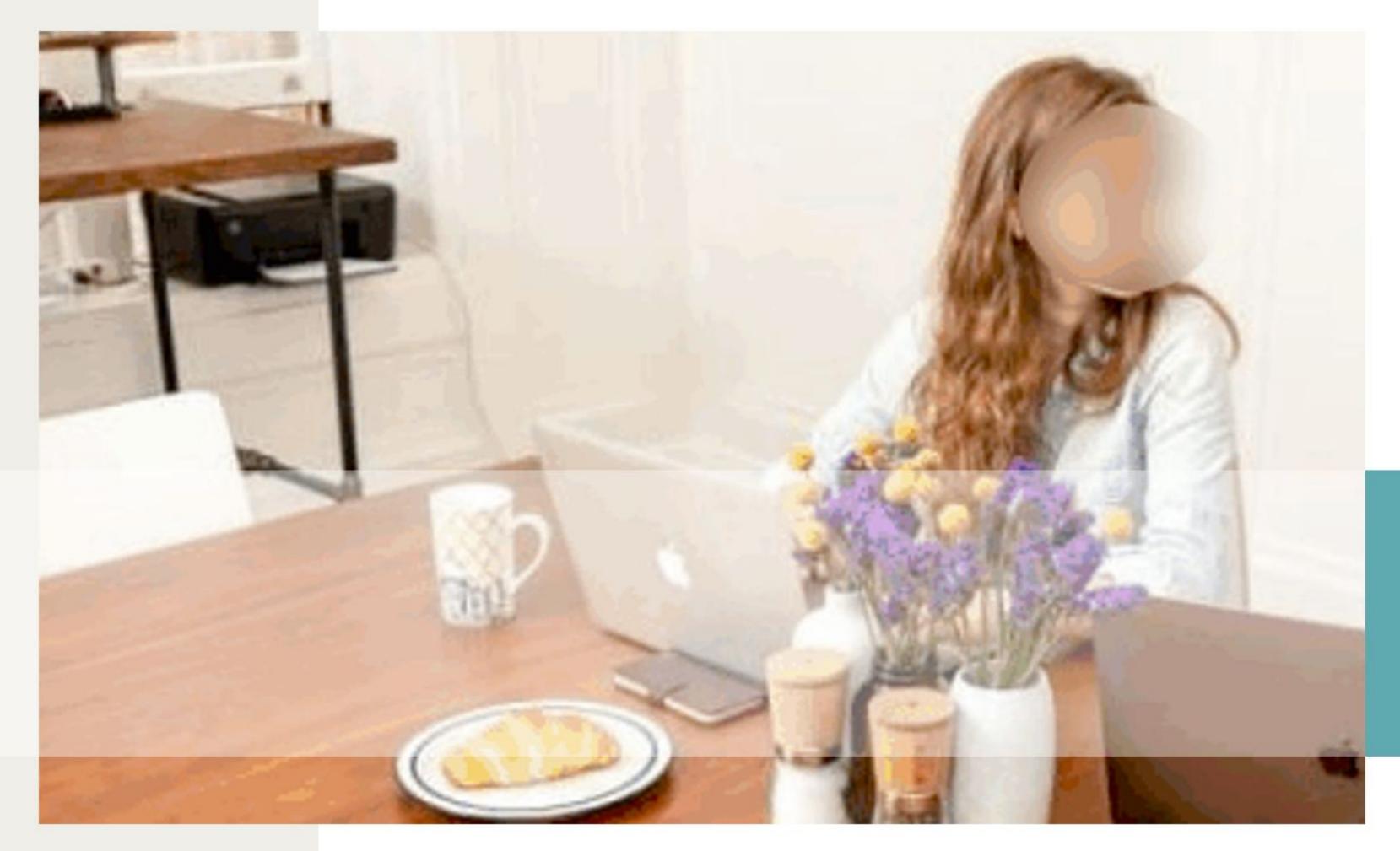


Photo Quality and Privacy

Makes sure photos are not blurry, out-of-frame, too bright/dark, protects privacy, recognizes and blurs faces in photos.



A.I. Photo Service

- etc.
 - Missing images and duplicate images.
 - Wrong photo attached
 - Identification of incorrect photo labels.
- Identification of the following:
 - Photos with missing labels: suggest label for the photo
 - Photos that do not match the labels: suggest label for the photo
 - Irreverent/irrelevant photo: Photos that are not related to the inspection of the property.
- Photo Quality and Privacy
 - Identifies images too bright, too dark, blank, blurry, photo view is obstructed etc. \bullet
 - Identifies presence of faces.



Identification and verification of property photos, including: Front View, Neighborhood View, Aerial View, Location Map, Left side view, Right side view, street view, address verification, bedrooms, bathrooms, kitchen, living room,



A.I. Photo Service

- Analysis of the conditions of the property as noted by the inspector in the report vs conditions as indicated by photos. Examples:
 - Photo shows damage but no mention in the report on the damage
 - Photos show damage, but inspector indicates property condition is C1 great condition
 - Inspector indicates No personal property inside property, photos show personal property
 - Walls show damage/holes, inspection did not mention in report
- Analysis of items present in Kitchen
 - Photos show Microwave present, inspector did not check the box
 - Photos show Dishwasher, inspector did not check box
 - Photos show Refrigerator, inspector did not check box
 - Photos show Oven/Range/Stove present, inspector did not check box
- List photos that indicate damage, debris, yard debris, personal items, etc.





A.I. Photo Service

- faces.
- QA Status: \bullet
 - Green: Accepted, no critical issues, no warnings
 - Yellow: No critical issues but at least one warning
 - Red: At least one critical issue



• Auto-Correction of missing labels, wrong labels and removal of duplicate photos and protects privacy by blurring





2	•	Red	WrongCondDmg	One or more photos indicate damage but the condition of the pro
				marked as C2
3		Yellow	IdentifiedDamage	Additional Photos: None (page 6 row 1 first image) indicates Dar
				Inspector has not indicated damage
4	•	Yellow	Vacant	Vacant properties require staff review, automatic Yellow rating
5	•	Yellow	MissingApplCheck	Kitchen photo shows presence of Microwave oven, inspector has
				the item
6	•	Yellow	MissingApplCheck	Kitchen photo shows presence of Refrigerator, inspector has not
				item
7	•	Yellow	MissingApplCheck	Kitchen photo shows presence of Oven, inspector has not check

property is

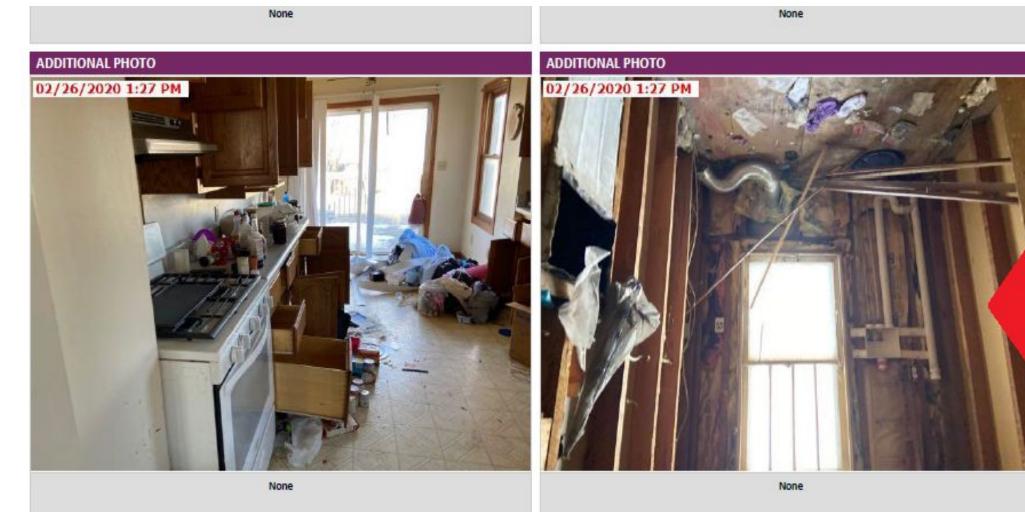
amage.

as not checked

ot checked the

ked the item

One or more photos show damage to the property. But inspector indicated property condition as C2 (very minor work needed)



ADDITIONAL PHOTO





11.4 General Condition of Property c2 - very minor work needed to bring property up to good condition - mechanicals intact

One or more photos show damage to the property. But inspector indicated property condition as C2 (very minor work needed)









TTO HON OVER Property compare to neighborhood. At

11.4 General Condition of Property c1 - great condition no work needs to be done to the property - newer construction

One or more photos show damage to the property. But inspector indicated property condition as C1 (Property in Great Condition)





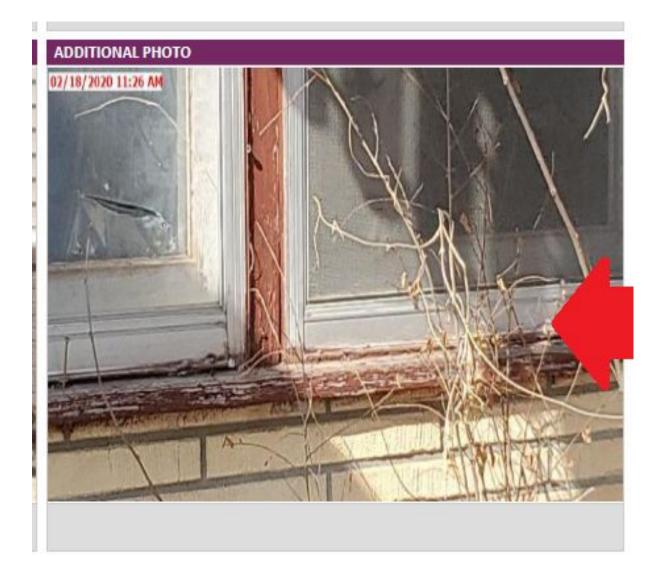


Underlyi



WrongCondDmg

One or more photos indicate damage but the condition of the promarked as C2



Detected presence of possible damage in the following photo and raised red flag

ng Te	ech	no	logy		
operty is					
	1	😑 Re	d WrongImage	Street View (page <mark>4</mark> row 3 first image) image is not identi (identified as street sign)	fiable as Street View

Detected image was not a street view but instead was a street sign



Computershare LLC • 8742 Lucent Blvd, Suite 300 • Highlands Ranch, CO 80129 • www.clsps.us





Duplicates

Standard technology will say the pictures below are not duplicates because the pictures are not pixel to pixel same.

Al technology identifies them as very similar and therefore duplicates.









Too Bright

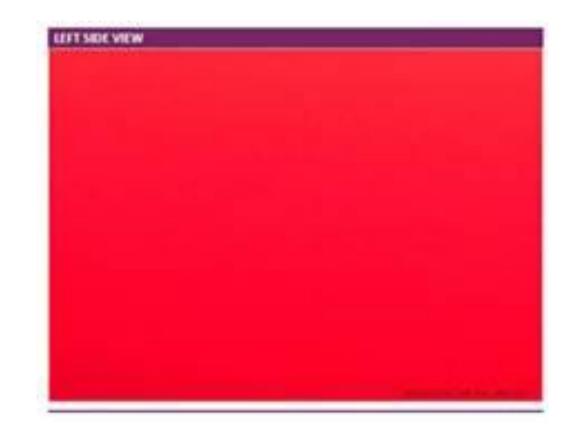
Too Dark

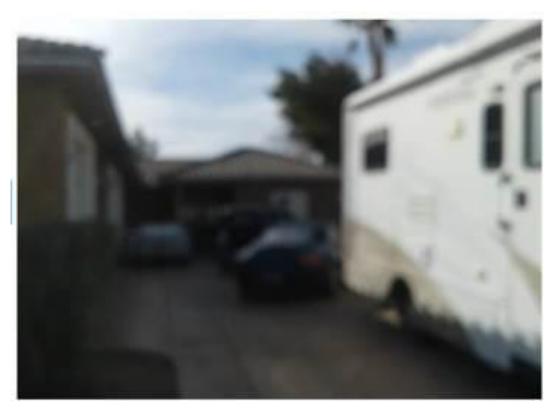




Blank Image









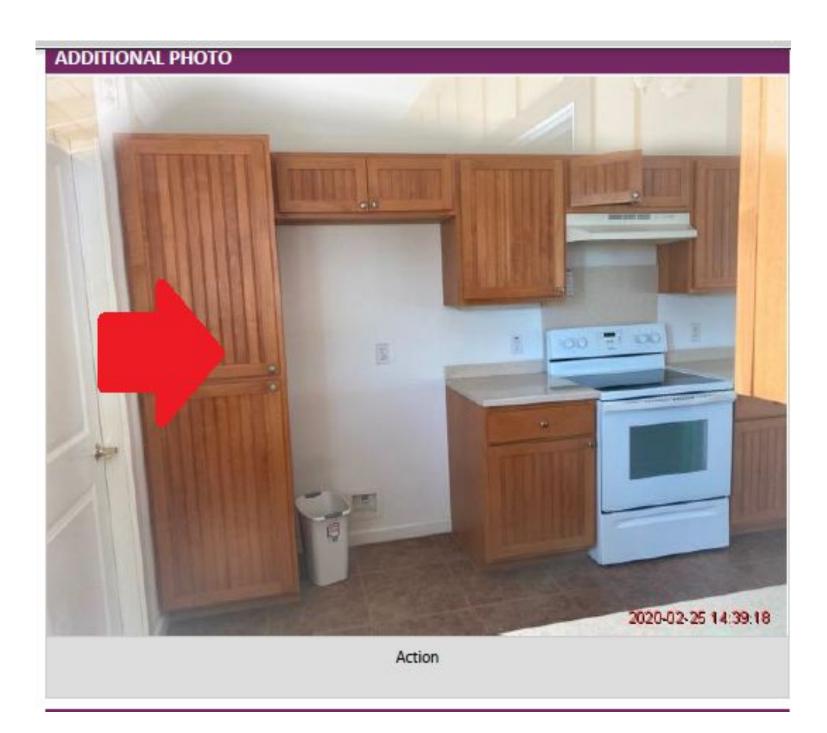




Kitchen photo shows presence of Oven, inspector has not checked the item

Detected that the photos indicate presence of Oven in the kitchen. Inspector has not checked the checkbox to indicate Oven is present.

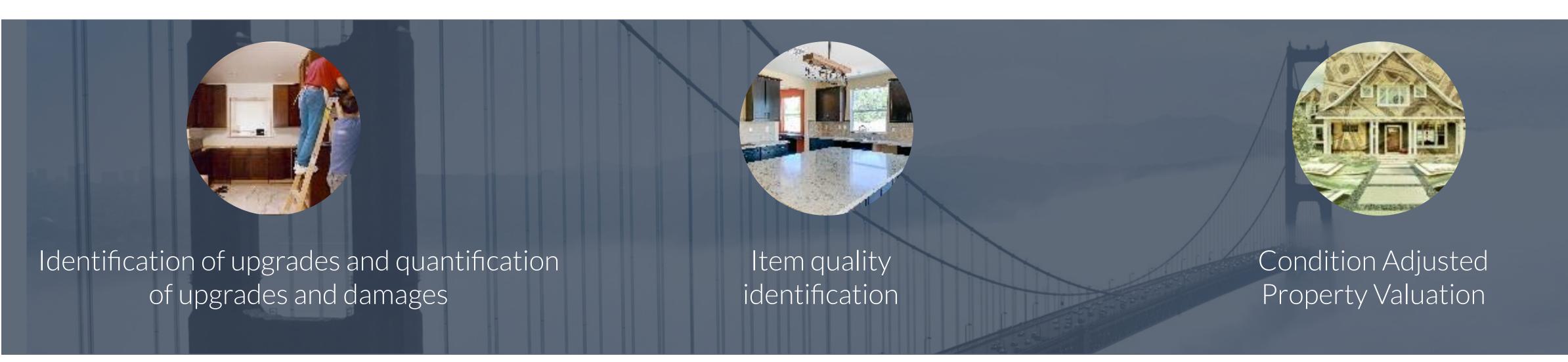








Next Generation of Convolutional Neural Networks



- Compare changes in the condition of a property
- Identify improvements or deterioration of the property
- Quantify the extent of the damage

- Type of material such as Kitchen countertop
- Condition of Flooring, etc.
- Age and Condition of Appliances
- Rate the Condition of a property
- Establish a Condition Adjusted Value









We would like to understand what your organizational goals are and how we can work to help you achieve them.

Phone: (866) 843-4488

Email: sales@clearvalueconsulting.com

