Best Practices For The Residential Appraiser Birmingham, Al Chapter

Presenter

R. WAYNE PUGH, MAI, CRE, FRICS

FORM FILLER or ANALYST

Appraisers are <u>ANALYSTS</u>...

The current 50+ year old valuation model and appraisal community has changed very little. (Morphed in to 3 comps and a cloud of dust)

Be truthful, how many of you are extracting your adjustments from the market?

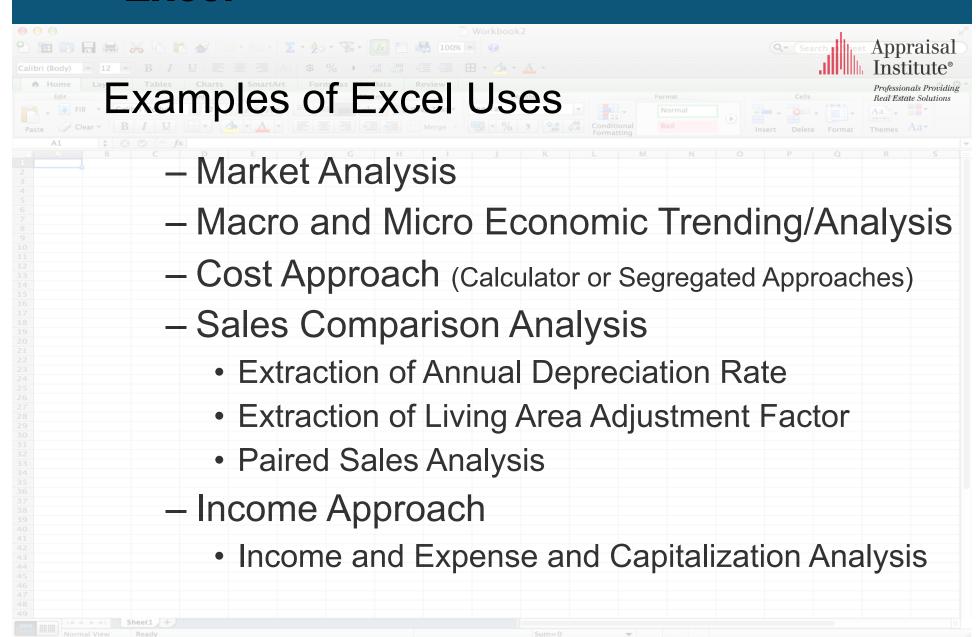
What can be done to improve your analysis?

23%

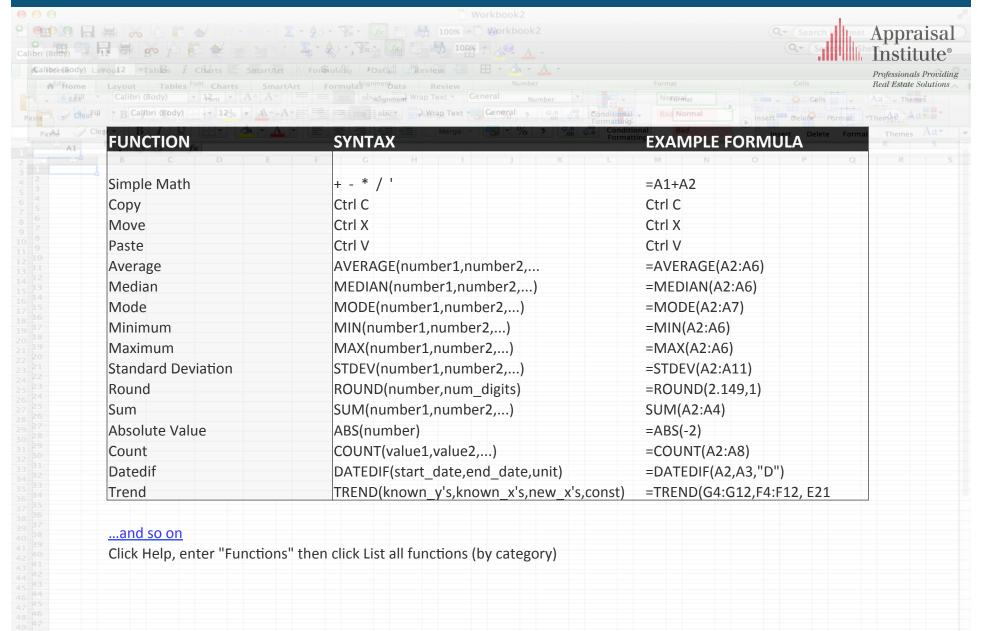
Uses in Analysis and Reporting

- •Microsoft Excel is the most flexible and productive tool available to the real estate appraiser. The application has so many applicable uses, it would be impossible to address them all here. So, I have limited this presentation just a few appraisal tools developed using Excel.
- •With Excel the appraiser can model any process whether it is a simple cost approach or a more detailed direct sales comparison analysis and even apply automated adjustments driven by macro commands. Excel has the flexibility to handle virtually any appraisal problem you can conceive whether it is a simple or complex spreadsheet.

Excel



Simple Excel Functions

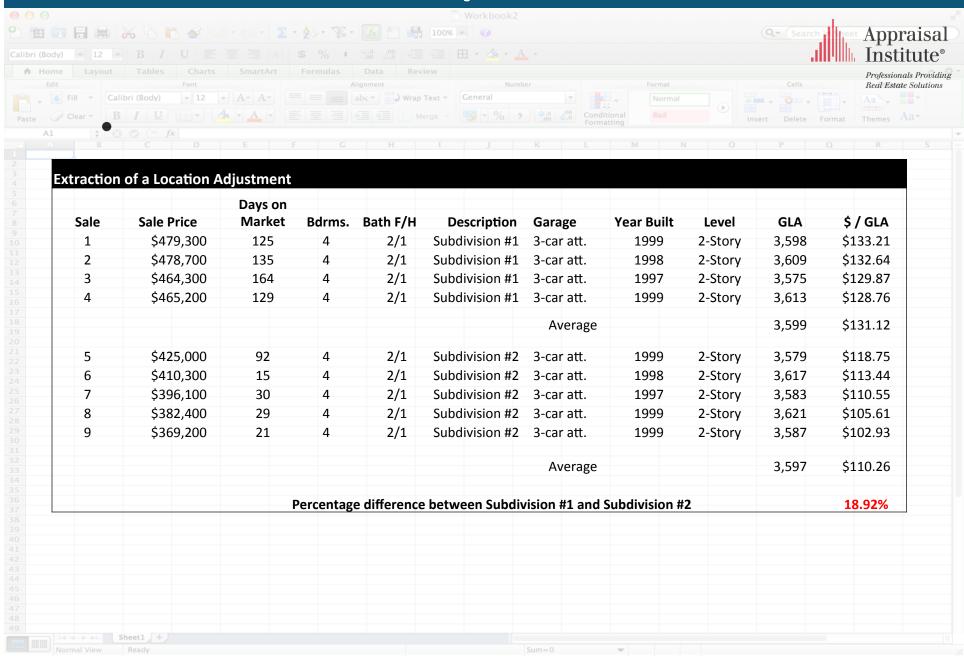


Simple Excel Function Real Estate Solutions Format Cells Excel File Edit View Insert Format Tools Data ● ● ● Alignment Font Border Fill Protection Category: Sample The living area totals 1,200 square feet. General Calibri (Body) Number Currency Type: ♠ Home Tables Charts SmartArt Formulas Accounting "The living area totals" ###,### "square feet." Date Edit Time Calibri (Body) General Percentage 0 Fraction 0.00 Scientific #,##0 Text #,##0.00 (fx 1200 Special #,##0_);(#,##0) Custom #,##0_);[Red](#,##0) **CUSTOM FORMATTED CELLS** 2 Example: The living area total 1,200 square feet Delete 6 Type the number format code, using one of the existing codes as a starting point. 9 10 11 OK Cancel 12

Extraction of Change in Market Conditions

						Q▼ Search in Shee	Appraisa Institute
♠ Home Layo		ita Review				4111111111	Professionals Provid
Edit	Calibri Extraction of the Change in Mark	ent on Conditions	Number	Form		Cells	Real Estate Solution
			% 5 \$.00 \$.00			Insert Delete Format	Themes Aav
A1 ‡	0.0	Sale 1	Sale 2	Sale 3	Sale 4	Sale 5	
	Original Sale Date	3/14/10	2/18/09	6/14/11	1/15/11	3/2/11	
	Resale Date	7/1/12	12/1/12	11/9/12	9/15/12	12/15/12	
	Difference in Months	28	46	17	20	22	
	Difference in Years	2.30	3.79	1.41	1.67	1.79	
	James estate in Teas	2.30	3.73	1.11	1107	1.73	
	Original Sales Price	\$145,000	\$139,000	\$165,000	\$167,000	\$155,000	
	Resale Price	\$175,000	\$180,000	\$185,000	\$190,000	\$175,000	
	Difference in Pricing	\$30,000	\$41,000	\$20,000	\$23,000	\$20,000	
	Recent Improvements	\$2,000	\$0	\$0	\$0	\$0	
	Deferred Maintenance	\$1,000	\$0	\$0	\$1,000	\$2,500	
	Adjusted Difference	\$27,000	\$41,000	\$20,000	\$22,000	\$17,500	
	-	, ,	, ,				
	Percentage Change (Total)	19%	29%	12%	13%	11%	
	Percentage Change (Per Year)	8.09%	7.79%	8.61%	7.90%	6.30%	
	Percentage Change (Per Month)	0.67%	0.64%	0.71%	0.65%	0.52%	
	Percentage Change	Per Month	Per Year				
	Low	0.52%	6.30%				
	High	0.71%	8.61%				
	Median	0.65%	7.90%				
	Mean	0.64%	7.74%				
	Standard Deviation	0.07%	0.86%				

Extraction of Location Adjustment



Extraction of Size Adjustment

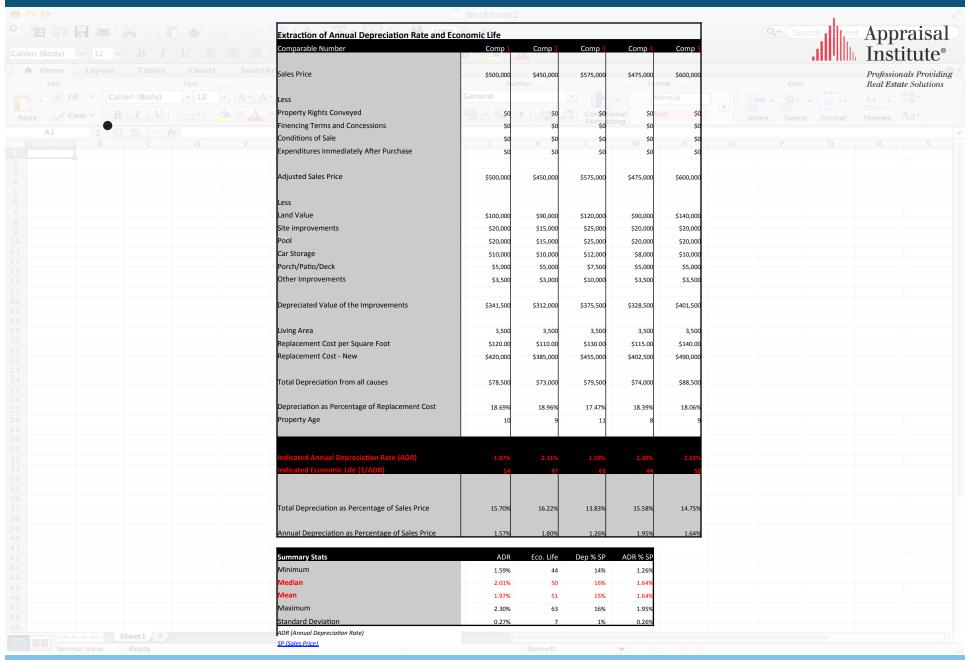


Professionals Providing Real Estate Solutions

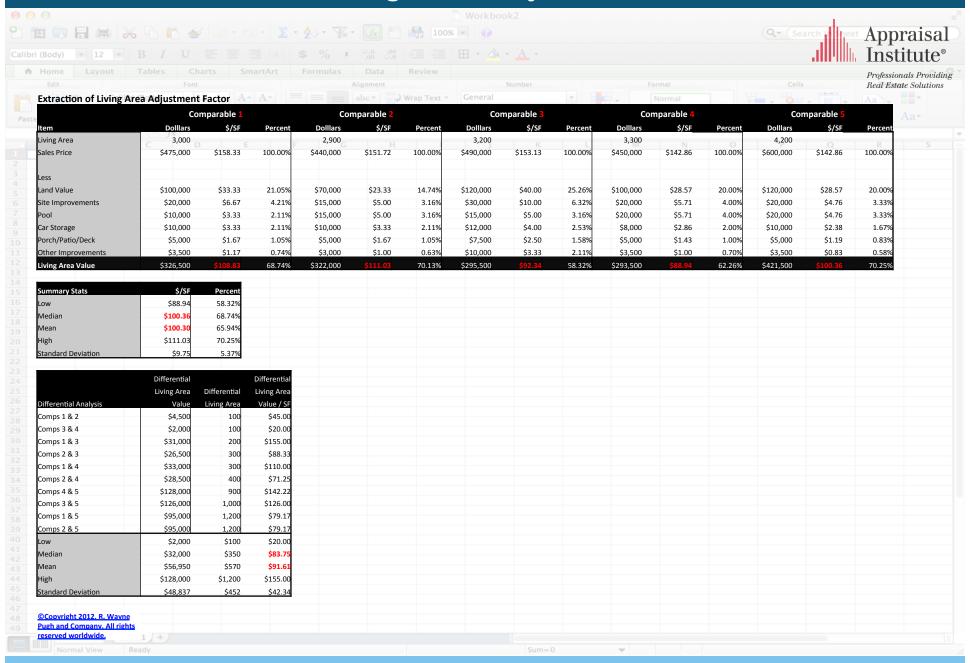
Extracting the Size Adjustment with the TREND Function

Clear y B I	U III - A -		Merge v 🚾 v %	G.0 00 Conditiona	l Bad		
Lot No.	Sale Price	Days on Market	Descripton	Location	Lot Size Sq. Ft.	\$/Sq. Ft.	
19	\$103,494	E 21	Creekside Acres	Line lot	23,773	\$4.35	F
11	\$108,941	29	Creekside Acres	Line lot	25,291	\$4.31	
14	\$114,674	30	Creekside Acres	Line lot	26,905	\$4.26	
35	\$120,710	15	Creekside Acres	Line lot	28,622	\$4.22	
85	\$127,063	92	Creekside Acres	Line lot	30,449	\$4.17	
55	\$133,751	125	Creekside Acres	Line lot	32,393	\$4.13	
45	\$140,790	164	Creekside Acres	Line lot	34,460	\$4.09	
33	\$148,200	135	Creekside Acres	Line lot	36,660	\$4.04	
14	\$156,000	125	Creekside Acres	Line lot	39,000	\$4.00	
			Using the Trend functio	n to estimate t	he value of an adjus	tment for <mark>Size</mark> .	
			Trend Formula (Subject)		=TREND(G2:G10,F2	2-F10,E17)	
			Trend Formula (Compar	able Sale)	=TREND(G2:G10,F2	2-F10,E18)	
			Predicted Values				
			Subject	33,00	0 \$4.12	\$136,113	
			Comparable Sale	35,00	0 \$4.08	142,748	
			Adjustment for Lot Size			(\$6,635)	
			Rounded			<u>(\$6,600)</u>	

Extraction of Annual Depreciation Rate



Extraction of a Living Area Adjustment Factor



Multi-Family Sales Comparison Analysis

SALES COMPARISON ANALYSIS



Professionals Providing Real Estate Solutions

	_	Subject	Comparable 1			mparable 2		Comparable 3	
Address	6	66 Moss Side Lane	5582 Picardy Rd		898 V	Voodchase R	24	457 Perkins Ro	
iale Price			Merge con or	\$200,000	9 9.0	cond	\$175,000	604.53	\$200,000
ale Price/Sq. Ft. GBA			\$90.91		, (,,,,,		natting	\$94.52	
Gross Monthly Rent			\$1,850			\$2,400		\$1,750	
Gorss Rent Multiplier			\$108.11			102.08		113.43	
Price per Unit			\$66,667	3		\$43,750	4	\$66,667	-
Price per Room			\$16,667	12		\$13,462	13	\$16,667	1
Price Beddroom			\$33,333	6		\$35,000	5	\$33,333	
Rent Control									
Data Source(s)			MLS 3383		MLS 3563		MLS 33		
/erification Source(s)			Confirmed		Confirmed		Confirr		
			with Broker		with Broker		with Bi	oker	
Adjustments	Unit Adj.	Description	Description	Adj.	Description		Adj. Descri	otion	Ad
ales or Financing			New Mortgage		New Mortgage		New M	ortgage	
Concessions			No Concessions		No Concessions			icessions	
Date of Sale/Time	2.5%		2 months ago	800	3 months ago		1,10022 mor	nths ago	9,20
ocation		ABC Acrers	ABC Acrers		ABC Acrers		ABC Ac		
easehold/Fee Simple		Fee Simple	Fee Simple		Fee Simple		Fee Sin		
ite (sq. ft.)	\$0.30	45,000	32,000	3,900		41,000	1,200	24,000	6,30
riew		Residential	Residential		Residential		Reside	ntial	
Desing (style)		1-story/Average	1-story/Average		2-story/Average		1-story	/Average	
Quality of Construction		Brick/Frame/Avg	Brick/Frame/Avg		Brick/Frame/Av			rame/Avg	
Actual Age	\$3,000	10	10	0		0	-30,000	18	24,00
Conditon		Average	Average		Average		Averag	e	
Gross Building Area	\$38.00	2900	2200	26,600	_	2600	11,400	2100	30,40
Jnit Breakdown		Total Bdrms. Baths	Total Bdrms. Baths	-,	Total Bdrms. Ba			drms. Baths	,
Unit #1		4 2 1	4 2 1		3 2 2		4 2		
Unit #2		4 2 1	4 2 1		3 1 1		4 2	2 1	
Unit #3		4 2 1	4 2 1		3 1 1		4 2	2 1	
Unit #4		4 2 1			3 1 1				
Basement	\$15.00	1,450	0	21,750		1,500	-750	2,000	-8,25
Baesment Finished	\$10.00	0	0			0	o	0	
unctional Utility		Average	Average		Average		Averag		
leating and Cooling		4 GFA/Cent AC	3 GFA/Cent AC		4 GFA/Cent AC		1 7	Cent AC	
nergy Efficiant Items		Standard	Similar		Similar		Similar		
arking On/Off Site		4-car det	3-car det		None		16,000 3-car d	et	
orch/Patio/Deck		Scr. Porches (4)	Scr. Porches (3)	2,000	Porches (4)		2,000 Scr. Po		4,00
let Adjustment				55,050	` '		950		65,65
djusted Sale Price of Comparable			<u> </u>	144,950			174,050		134,35
et Adj. %				38%			1%		49
dj. Price per Unit (adj. price/#of Comp	. units)			\$48,317			\$43,513		\$44,78
dj. Price per Room (adj. price/#of Com				\$12,079			\$13,388		\$11,19
Adi. Price per Bedroom (adi. price/#of C		-cl		\$24.158			\$34.810		\$22.39



Commercial Adjustments Percentage of Office Area Age Other Areas (Porch or Balcony)

Qualitative Analysis

ADJUSTMENT FOR THE PERCENTAGE OF OFFIC				
	Subject	Comp 1	Comp 2	Comp 3
Total building area	39,400	70,000	42,378	17,000
Percentage of office area	32%	14%	20%	35%
Office area	12,500	9,800	8,476	5,950
Imputed office area to equate to comp		22,050	13,349	5,355
Difference in office area		12,250	4,873	-595
Unit value for the office area (\$/SF)		\$60.00	\$60.00	\$60.00
Indicated Adjustment		\$735,000	\$292,408	-\$35,700
Rounded		\$735,000	\$292,400	-\$35,700
Adjusted Sales Price		\$5,000,000	\$2,300,000	\$975,000
Percentage adjustment		14.70%	12.71%	-3.66%

Analytics for Big Data

S.M.A.R.T.

Never before have appraisers had the ability to analyze sales in bulk with such flexible function and meaningful results. As an added benefit, S.M.A.R.T will complete the 1004MC form with a minimum of input from the appraiser. The user just downloads the filtered MLS data and drags the file to the S.M.A.R.T icon, and S.M.A.R.T shows you the following dashboard view of your selected

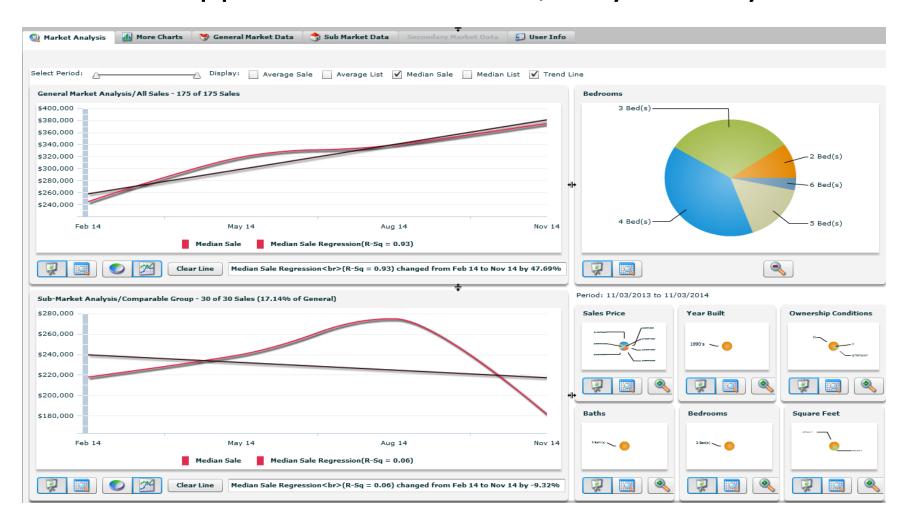
data.



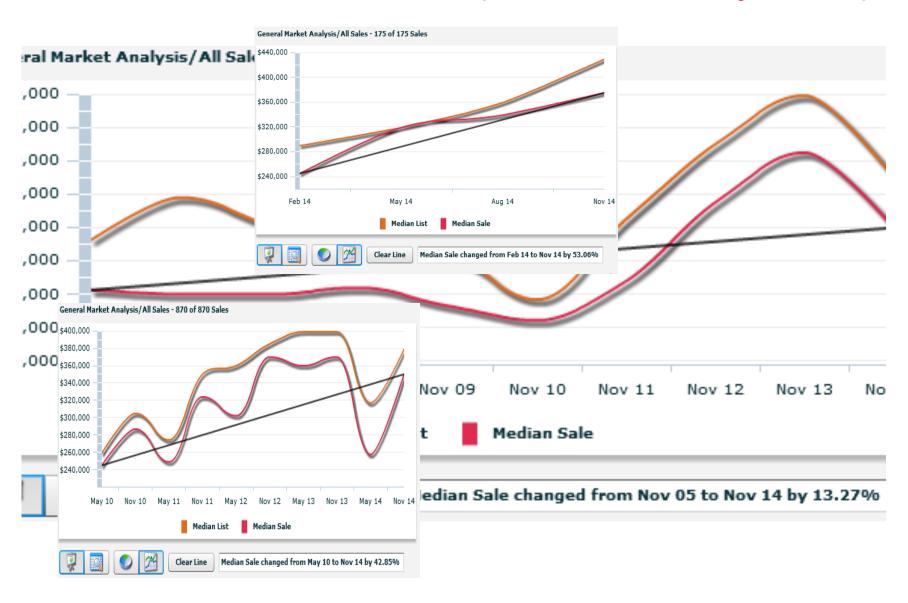
Website: http://www.smarterappraising.com/

The SMART Dashboard

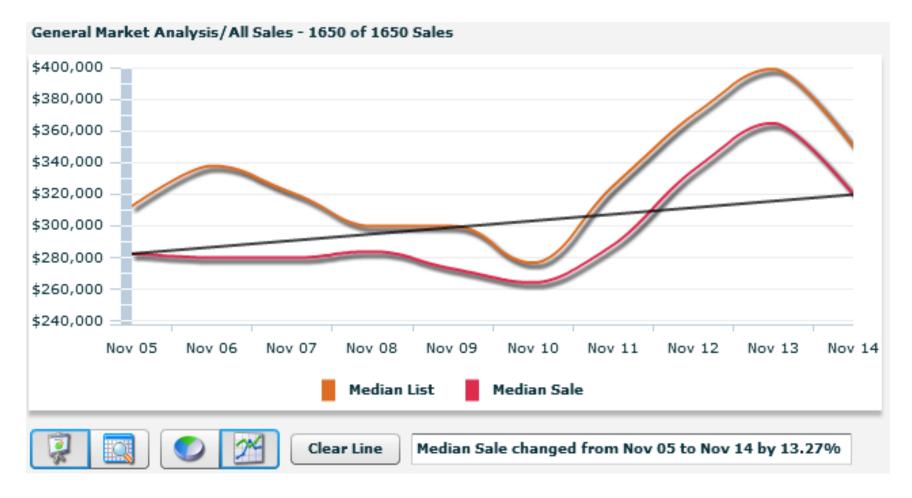
What appears to be obvious, may actually not



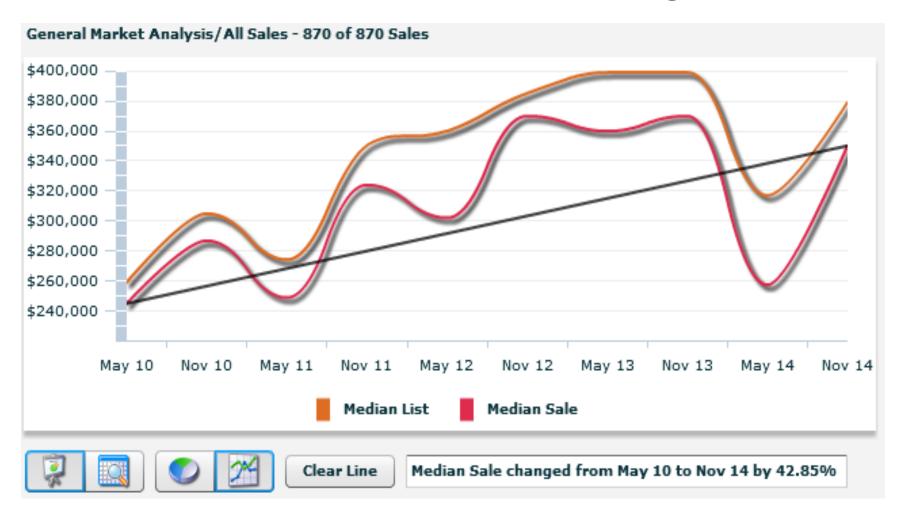
Data Visualization (1, 5, & 10 years)



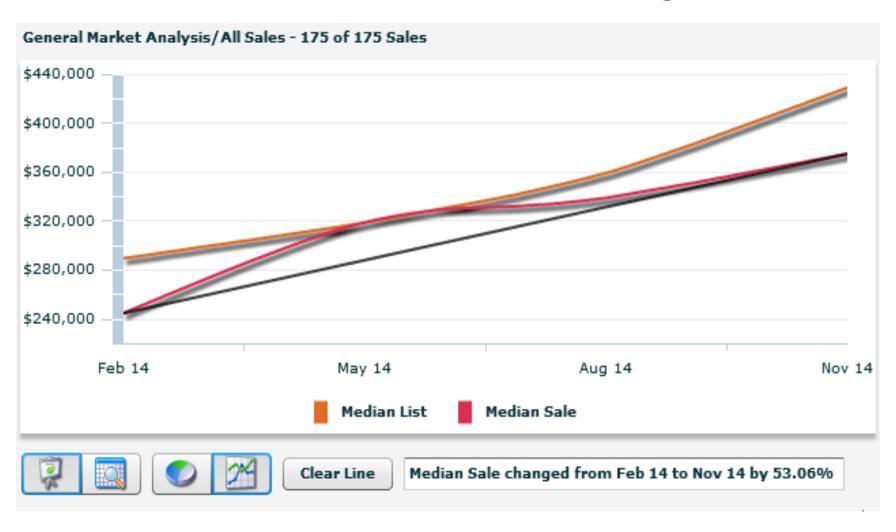
Data Visualization (10 years) 1,650 Sales, Median Price increasing 25.01%



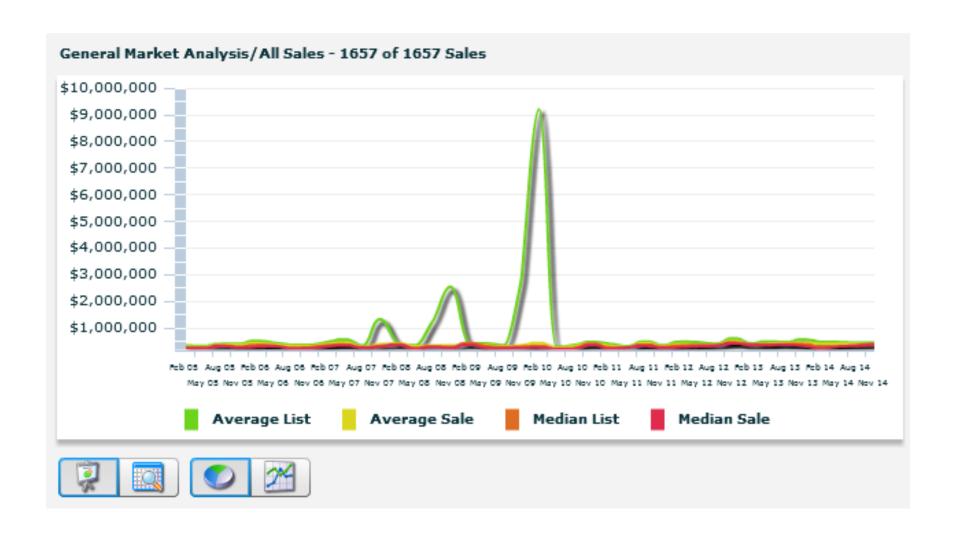
Data Visualization (5 years) 870 Sales, Median Price increasing 42.85%



Data Visualization (1 year) 175 Sales, Median Price increasing 53.06%



Data Visualization, Viewing Outliers



Data Visualization, Removing Outliers



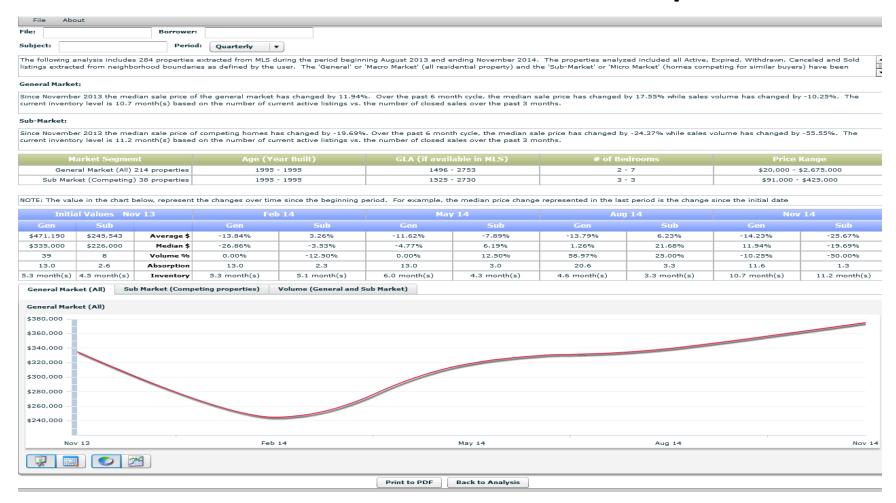
Data Visualization Other Charts and Graphs



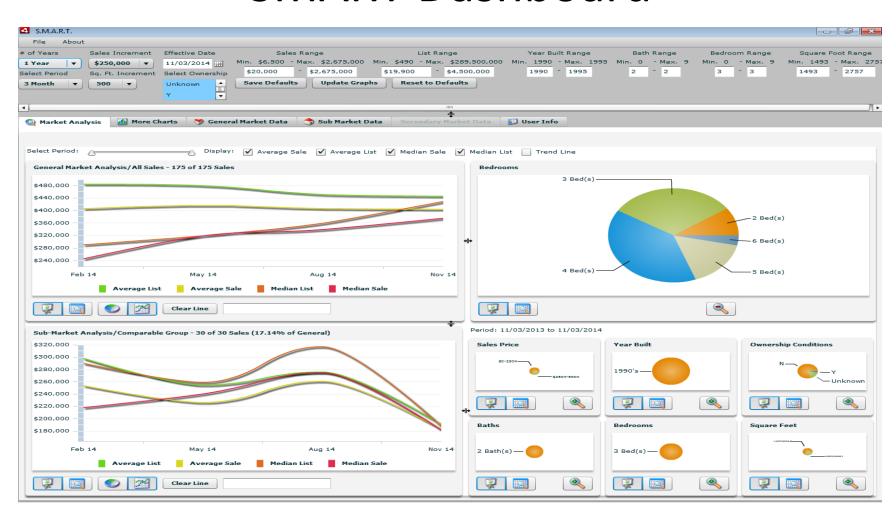
Data Visualization Easily complete the 1004MC form

	11/03/2013 05/02/2014	05/03/2014 08/02/2014	08/03/2014 11/03/2014		
Total # of Comparable Sales (Settled)	16	10	4	Select	
Absorption Rate (Total Sales/Months)	2.6	3.3	1.3	Select	
Total # of Comparable Active Listings	20	15	15	Select	- ▼
Months of Housing Supply (Total Listings/Ab. Rate	7.5	4.5	11.2	Select	T
Median Sale & List Price, DOM, List/Sale Ratio	Prior 7-12 Months	Prior 7-12 Months Prior 4-6 Months Cu		Overall Tre	nd
Median Comparable Sale Price	229,000	275,000	181,500	Select	- ▼
Median Comparable Sale Days On Market	79	39	34	Select	- ▼
Median Comparable List Price	273,050	273,000	310,000	Select	▼
Median Comparable Listings Days On Market	162	85	82	Select	I
Median List-to-Sale Price Ratio	93%	96%	96%	Select	T
Percentage of Sales with Contributions	0%	0%	0%		
Percentage of Contribution to Sale	0.0%	0.0%	0.0%		
Seller - (developer, builder, etc.) paid financial as	sistance prevelant? Select ▼			Select	-
Explain in detail the seller concessions trends for	the past 12 months (e.g., seller con	ntributions increased from 3% t	to 5%, increasing use of buydow	ıns, closing co	sts, con
fees, options, etc.).					
Traditionally sellers have paid up to [XX%] in clos increased seller contributions is driven by competi	-	-			
Are foreclosure sales (REO sales) a factor in the r	market? Select ▼ If yes, ex	plain (including the trends in lis	stings and sales of foreclosed pr	operties).	
[*YES* Over the past year, [XX%] of all sales were compared to a non-REO resale and therefore com		-			
Cite data sources for above information.					

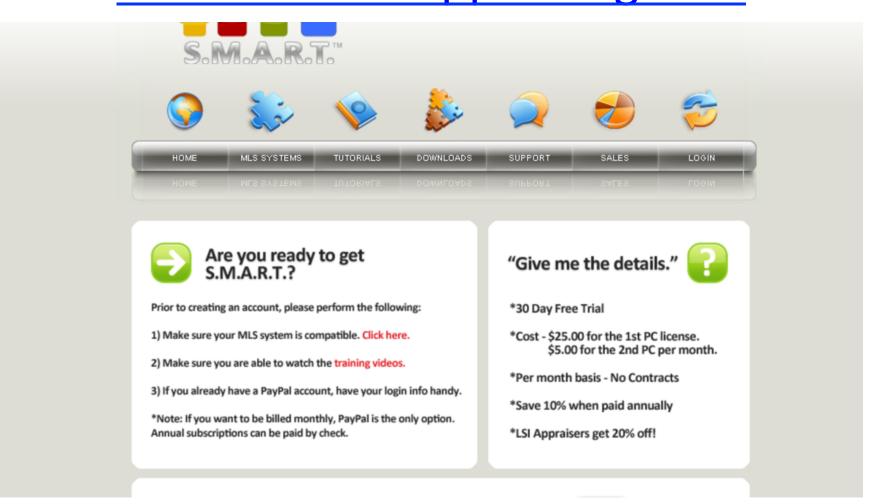
Data Visualization SMART Market Trend Report



Data Visualization SMART Dashboard

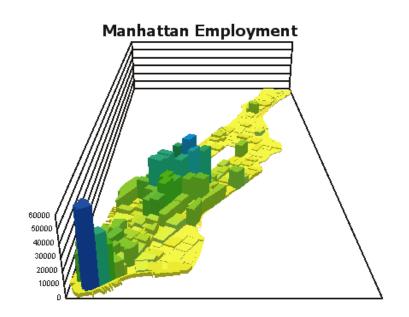


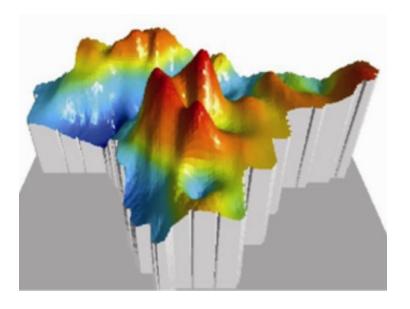
How can I purchase SMART? www.smarterappraising.com



Data Visualization Maptitude GIS

The Appraisal Institute's GIS users group reviewed the majority of GIS applications considering pricing, features and ease of use, and *Caliper Corporation's Maptitude* was their choice for the group. Members of the AI can purchase the \$695 product for \$520 (a 25% discount).





http://www.caliper.com/maptovu.htm

Google Drive Cloud Storage and Google Docs



Google Drive puts users on the road to mobile file sharing and editing

oogle Drive is a cloud-based pplication that provides a suite Jappin action and a state of tools that is compatible with Microsoft Word, Excel and PowerPoint and allows appraisers to create and edit documents using their computer or mobile device.

The application is free with the 15GB plan. If additional storage is needed, users can purchase 100GB for \$4.99 per month or 200GB for \$9.99 per month.

Getting Started

Download Google Drive at www.drive google.com: the App for iPhone, iPad or Android devices can be found in the Apple and Google Play app stores. When the installation is completed. Google Drive simply will appear as a drive folder on your computer or mobile device.

Top Features

■ Universal file access

Google Drive lets you store and access files from the Web, your computer or mobile device. Change a file on any one of your devices and it changes the file everywhere.

■ Google Drive apps

Google Drive is compatible with Microsoft ate and edit Word and Excel files and view

Collaborate with others on your team



R. Wayne Pugh, MAI, is a past president of the Appraisal Institute and the current CEO of estate consulting and appraisal Rouge, La. He also heads Software

for Real Estate Professionals Inc., and is a principal member of Real Estate Counseling Group of America. a national organization of analysts and anadominism founded by the late William N. Kinnard. Ph.D. For information on his Appraisal Institute Cool Tools seminars, visit www.appraisalinstitute.org/pugh,



Google Drive folder and files are highlighted in vellow

also will be deleted from Google Drive - as is the case with any file-syncing service.

Easy file conversion

The process of importing and exporting files in Word and Excel formats is relatively simple and the file conversions from Microsoft to Google or vice versa are nearly perfect.

■ OCR technology

One of the coolest features of Google Drive is its ability to "read" photos with its built-in OCR technology. How it works: Say you need a copy of the property owner's document showing a complex legal description - you can simply snap a photo of it and save it as a Google document, Google Drive will save a Office applications and can be used to cre-

PowerPoint files. Your files even are avail- The way that Google Drive differs from Micro- Another issue I had with Google Drive was the able offline if you install the optional Drive soft Office 365 is in its ability to allow multiple Chrome Web app. An important reminder: users to collaborate on an appraisal report file for a single word within a spreadsheet cell. if files are deleted from a local drive, they (and invited users can quickly be deactivated, if needed). Users of Google Docs, Sheets, Slides, Forms and Drawings can simultane-

ously access a file and make edits to that file. Easily retrieve prior file versions

Google Drive stores all versions of your files. so should you need to access a prior version, one can be retrieved from the archive.

■ Project management

Another nifty feature allows users to enhance by uploading calendars, documents, to-do lists. spreadsheets, presentations and the like

Safe and fast cloud storage

Google Drive is an inexpensive and secure way to store your files in the cloud When integrated with your

file explorer, items can be copied to your cloud storage in just a few seconds. For tips on how to make Google Drive even more secure, check out the recommendations at www.google.com/goodtoknow.

A Few Concerns

■ Speed

A fast Internet connection is necessary for responsive access. Also, there can be a noticeable degradation in speed as multiple users simultaneously access the same file.

■ Intuitiveness

The learning curve is a slight drawback; formulas and keystrokes are not identical to those used with Microsoft Word and Excel-

inability to change the format/font attributes

Google Drive is one of the most flexible applications for editing documents on the fly. Change an appraisal document from your computer or from your mobile device - it's one data center for all of your devices. I give it 4 out of 5 stars. A

I want to hear from you, so send me product recommendations. I love being able to share exciting new products submitted by real Cool Tool experts. Email your suggestions to wayne@laappraisal.com

Data Visualization Fujitsu Scanner





Data Visualization Evernote

Scan everything...



Eye-Fi SD Memory Card

Automatically upload your photos from the field. Shoot your photos and Mobile X2 using the personal hotspot provided with a cell phone, the Eye-Fi memory cad will automatically upload your photos to your Dropbox.



Planon Mobile Scanner and Printer

Planon's DocuPen X Series Scanner and PrintStik

Scan a document in the field, save it to your phone or computer, and print it out on your PrintStix, all with wireless connections for selected devices.

Powerful tools for the mobile professional.



Panoramic View Cameras

Up to 180 degree panoramic photos. These cameras provide the appraiser the opportunity of showing the reader of the appraisal report important views of the surrounding property/conditions.



Sony TX 20



Laser Distance Measuring Devices



Mite-R-Gage Available From Apex

The Mite-R-Gage is ideal for easily measuring angled walls. It's essentially a protractor with 10" arms that allows you to measure any angle, including interior angles.



Transcription Devices



Taking Poll Photos

Poll Pixie * Inexpensive Camera Accessories for Taking Pole Photos

Mr. Long Arm *
The inventor of the telescopic pole.

Easily take poll photos
Easily mount the Poll Pixie camera
mounts to a Mr. Long Arm poll,
attach your camera, and take
pictures from a perspective
previously much more difficult to

obtain.



Before

With the Pole Pixie Adapter

New Cool Tools

Appraisal Institute® Professionals Providing Real Estate Solutions

iAnnotate

PDF Reviewer with Editing Tools



New Cool Tools



DropboxCloud Storage

Pricing				
Customers		Dropbox	Dropbox Pro	Dropbox for Business
Contact	Price	Free	\$99 / user / year	\$795 / year for 5 users \$125 / additional user / year
Chat with salesCall sales at	Storage	2 GB	100 GB	As much as needed
855-237-6726	Core Dropbox features			
Start free trial or buy now	Best-in-class sync and file sharing	~	~	~
	256-bit AES and SSL encryption	~	~	~
	Two-step verification & mobile passcodes	~	~	~
	Enhanced security			
	Unlimited file recovery	×	\$3.99 / month	~
	Unlimited version history	×	\$3.99 / month	~
	Prevent sharing outside of the team	×	×	~
	Team management			
	Track logins, devices, and locations	×	×	~
	Centralized team billing	×	×	~
	Easily add and remove members	×	×	~
	SSO and Active Directory	×	×	~
	Support			
	Priority email support	×	~	~
	Phone support	×	×	~
	Dedicated deployment specialists	×	×	~
		Sign up	Buy Pro	Start free trial





Google Drive

Data storage

Google drive

Office compatible applications

Word, Excel, and PowerPoint compatibility

Lucid Charts



Tour

Examples

Pricina

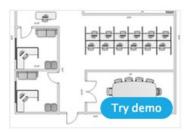
Customers

Blog



Floor plans done right

With Lucidchart, it's quick and easy to design floor plans for your home, office, or special event. Our comprehensive floor plan software helps you visualize any project before you begin, then customize to your liking.







Office floor plans

Are you relocating to a new building? Maybe you're making room for an expanding team. Whatever your needs are, an easy office floorplan generator is now at your fingertips. Drag out office-specific shapes like chairs, desks, cubicles, tables, and much more.

Home floor plans

Whether you're building, designing, or decorating, our home floor plan library is detailed enough for any scenario, With a full range of walls, room shapes, and furniture options, you can diagram the perfect floor plan in minutes. For ease of use, all elements are scaled to size.

Event planning

All events, from simple Sunday brunches to black tie weddings, need a comprehensive floor plan. Customize the canvas size and see the footage of each element! You can also add color to the diagram, import Visio stencils, and change object orientation.

Flowchart

Android mockups

ERD tool

iPad mockup tool

iPhone mockups

Wireframe software

UML diagram

Business process

Site map creator

Data flow diagram

Org chart software

Value stream maps

AWS network diagr...

Network diagram

Rack diagram

Cisco network diag...

Circuit diagrams

Dragon Speech Recognition

Dragon Home 12

\$99.99 \$59.99

Buy Physical

Buy Digital

Stop typing - and start talking.

- Dragon Home Edition is perfect for anyone who wants an easier, faster, and more fun way to interact with your PC.
- Everything you need to get started, including a free high-quality headset microphone (Physical box version only)
- Dragon gets you, with up to 99% accuracy out of the box
- Create documents 3x faster than typing by hand
- NEW! Interactive Tutorial provides simulations to learn and practice good dictation, correction and editing habits so that you can become more proficient with Dragon in record time
- NEW! Free Dragon Remote Mic app lets you use iPhone®, iPod® touch (4th gen), iPad® or your compatible Android device as a remote microphone for greater freedom and flexibility
- NEW! Enhanced Web mail. Use with Gmail™ and Hotmail® — two of the most popular web-based email applications
- Comes with everything you need to get started, including a high-quality headset microphone (Headset microphone included with physical box version only).

Dragon Premium 12

\$199.99 \$119.99

Buy Physical

Buy Digital

The perfect personal assistant.

- Use a Nuance-approved digital voice recorder or compatible iOS device with our free Dragon Recorder app to record thoughts for later transcription to your PC
- NEW! Smart Format Rules allow Dragon to adapt by detecting your format corrections

 abbreviations, numbers, and more — so your dictated text looks the way you want it to every time
- NEW! Natural-sounding text-to-speech reads back editable text for easy proofing or multitasking
- NEW! Enhanced Web mail. Use with Gmail™ and Hotmail® — two of the most popular web-based email applications
- NEW! Wideband Bluetooth support provides higher wireless accuracy
- Comes with everything you need to get started, including a high-quality headset microphone (Headset microphone included with physical box version only).

Dragon Dictate for Mac, v4

\$199.99 \$179.99

Buy Digital

Physical box version available March 18.

Just for Mac users.

- Flexible voice commands let you get things done quickly with just your voice.
- Smart Format Rules automatically adapt to how you want abbreviations, numbers and more to appear, so you don't have to correct it every time.
- Easily create custom word lists and macros for frequently used text.
- Full transcription capabilities to easily transcribe your voice memos into text.
- With up to 99% accuracy, make fewer edits and get more done.
- Speed through your to-do list by talking, not typing.
- Free Dragon Recorder app lets you record thoughts using an iPhone, iPad, or iPod touch (4th gen). Dragon Dictate will transcribe the recorded audio files when you are back at your Mac.
- Wideband Bluetooth support provides higher wireless accuracy.
- Comes with everything you need to get started, including a high-quality headset microphone (Headset microphone included with physical box version only).

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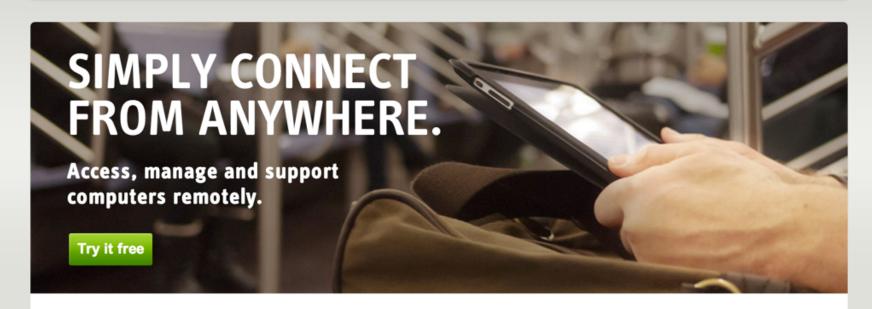
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WordRake Editor

WORDRAKE.

EDIT FOR CLARITY AND BREVITY IN MICROSOFT WORD

HOME SOFTWARE BUY TIPS ABOUT SUPPORT

"By virtue of servicing the 703 Account, JPMC was had required to monitor BLMIS. It was this that led JPMC to uncover a number of red flags indicating that Madoff was engaging in fraud."

— SECURITIES INVESTOR CORP. v. BERNARD L. MADOFF INV. SECS. and JPMORGAN CHASE & CO. February 9, 2011 - Complaint

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How I Went Completely Paperless in Two Days

The Three Most Important Things Lifehacker Taught Me (Also, Pranks)

Turn Your Bike into a Safe-at-Night TRON-Cycle with EL Wire

SofaPlay Streams Media from Your Mac to Your TV via Drag and Drop

Turn Two Gas Cans into a Serious Speaker Set

Shreddies Underwear Filter Out the Unpleasant Smell of Your Farts

Turn Ice Cream into Muffins with Just One Extra Ingredient

StorageStatus Monitors Your Hard Drive's Power Consumption

Get Free Document Shredding (Plus Other Free Goodies) for Tax Day

Carousel Auto-Organizes and Shares Photos with

lifehacker



The Complete Guide to Solid-State Drives







FEMA Flood Maps

- Click here to for FEMA's Web site.
- There is a tutorial that explains how to make FIRMette maps in the bottom right corner of the FEMA Web site.
- How do I create a flood map?
- Enter the property address "Product Search."
 Then choose "Public Flood Map".
- Click the green button to "View" the map.
- Click "Make FIRMette."
- Drag the "red box" over the property and center it.
- Click on the "Image File" or "PDF" button.
- Click on the "Save your FIRMette" button.
- Click "Open" to load the file in your image Editor or click "Save" to save the image file to your drive as a "TIFF" image file.





Solocator



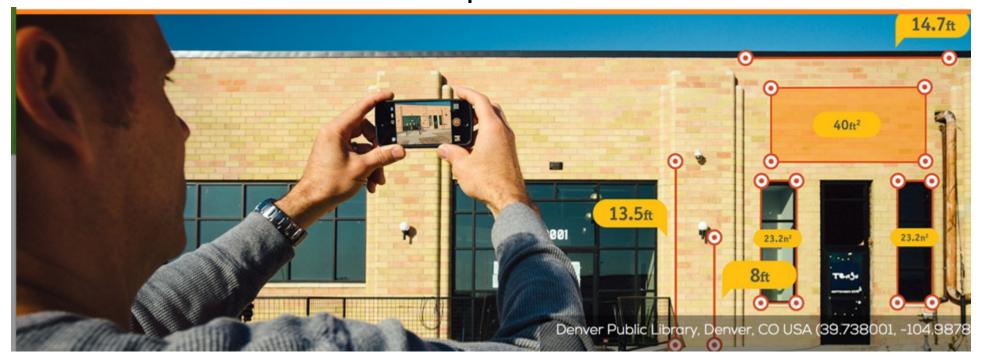
Photos with Direction and Elevation



Spike



First laser accurate Smartphone measurement solution



Spike allows you to measure an object simply with a snap from your Smartphone or Tablet. From that photo you can capture real time measurements including height, width, area, length, and target location.

Minimum Hardware Requirements



os	Windows 7 or 8
CPU	Fast Processor
Monitor	Two 20" monitors
Mouse	Wireless is best
Keyboard	Wireless is best
RAM (Memory)	8 GB or greater
Graphics Board	Support for dual (2) monitors
Hard Drive	One Terabyte or larger, 7200 RPM

Excellent Magazines/Papers To Read

FAST @MPANY



- Wired
- Fast Company
- PC
- PC World
- Forbes
- Mac World
- Mac Life
- Fortune
- Wall Street









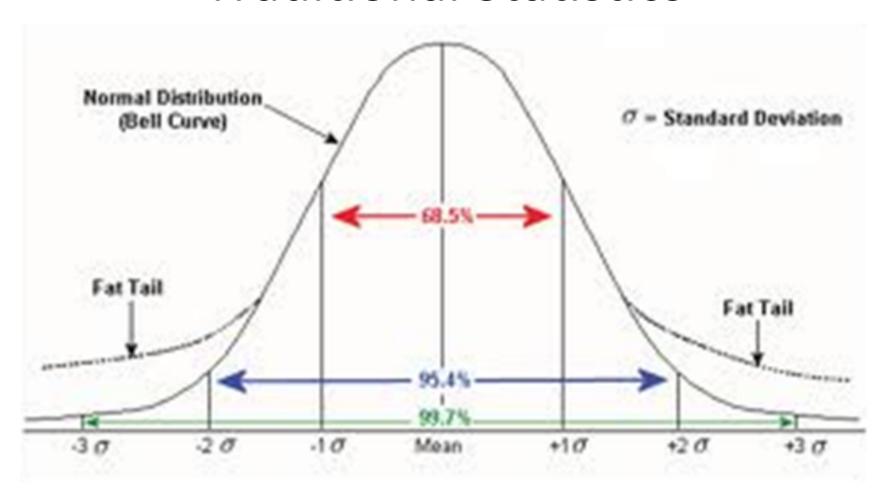








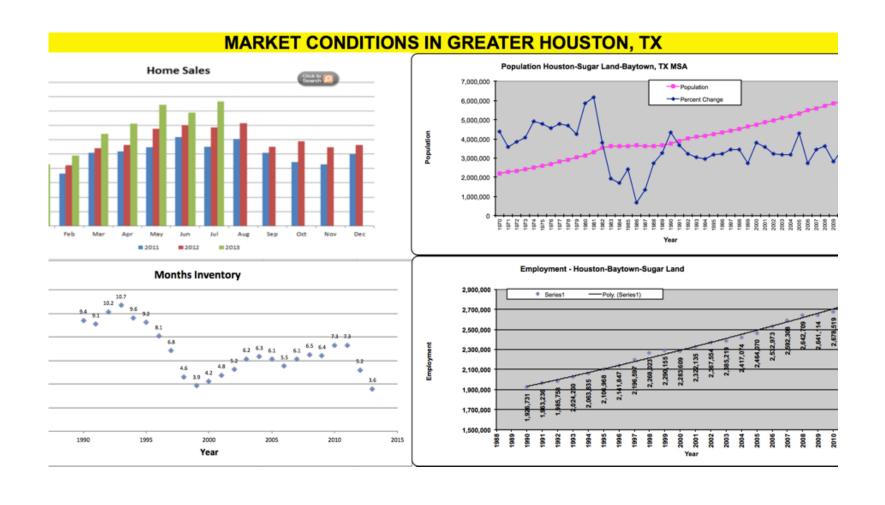
Traditional Statistics



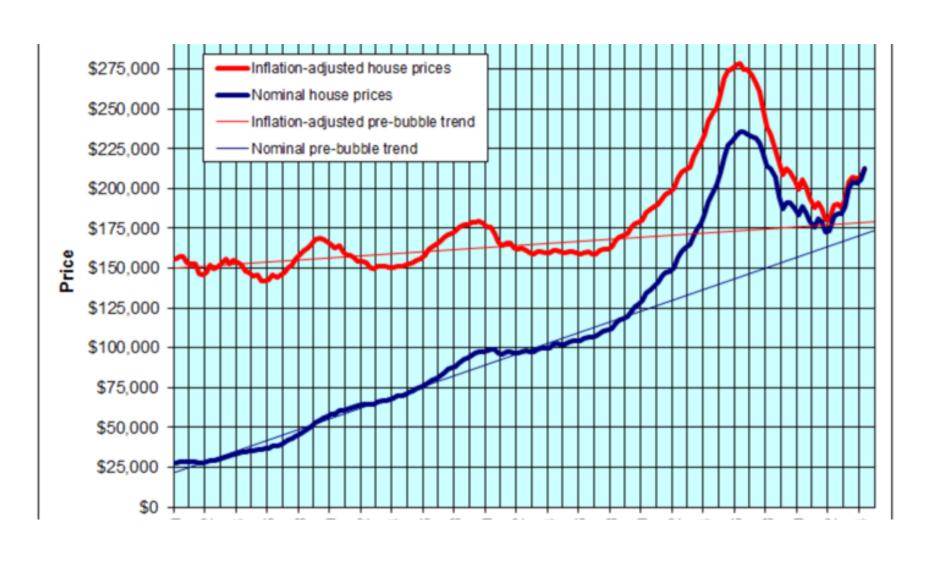
Frank's Regression Model

Α Α	В	C	D	E	F	G	H	1	J	K	L	M	N
SUMMARY OUTPUT													
Regression													
Multiple R	0.911251821												
R Square	0.830379881												
Adjusted R Square	0.828965201												
Standard Error	366578.4192												
Observations	1210												
ANOVA													
	df	SS	MS	F	Significance F								
Regression	10	7.88774E+14	7.88774E+13	586.9736946	0								
Residual	1199	1.61121E+14	1.3438E+11										
Total	1209	9.49895E+14											
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 99.0%	Upper 99.0%					
Intercept	-16837710.24	1579013.479	-10.66343667	0.0000	-19935647.04	-13739773.44	-20911463.95	-12763956.53					
Yr_Impr	8402.426571	809.0505088	10.38554019	0.0000	6815.114383	9989.73876	6315.128041	10489.7251					
Total_Building_Area	278.2266463	11.9408267	23.30045091	0.0000	254.7994071	301.6538854	247.4200777	309.0332149					
Total_Land_Area	29.36970424	1.596301939	18.39858959	0.0000	26.23784844	32.50156003	25.2513474	33.48806107					
Room: Bedroom	-26749.10284	16148.4174	-1.65645352	0.0979	-58431.40139	4933.195708	-68410.98617	14912.78048					
Room: Full Bath	-3059.532521	13821.60626	-0.22135868	0.8249		24057.69174	-38718.39204	32599.327					
Room: Half Bath	36261.40975	17186.33995	2.109897153	0.0351	2542.764757	69980.05474	-8078.247343	80601.06684					
Asphalt Tennis Court - Residential	964.4728698	261556.8962	0.00368743	0.9971	-512195.6387	514124.5845	-673835.5788	675764.5245					
Concrete Tennis Court - Residential	-546911.0844	261369.4106	-2.092483138	0.0366	-1059703.36	-34118.80922	-1221227.435	127405.2663					
Gunite Pool	141.9354282	40.00817253	3.54766087	0.0004	63.44161449	220.4292419	38.71690373	245.1539526					
Pool SPA with Heater	129126.4992	32746.22141	3.943248827	0.0001	64880.23049	193372.7679	44643.34382	213609.6545					
3													
RESIDUAL OUTPUT													
Observation													
Observation	Predicted Total_Market_Value	Residuals											
1	27 12 1021000	-405911.8055											
		-244012.9427											
3	20000011212	-285303.1414											
4	1613525.744	-74946.74387											
5		-526203.5514											
Sheet1	Data Regression Data (2)	Regression 2	+										

Franks Market Analysis



JP's Real Estate Charts



Dynamo Appraiser

Sale Price / Gross Living Area

Regression Equation: y = -0.0502x + 170

Correlation coefficient -0.448Coefficient of determination: 20.11% Estimated standard error: \$8.19

As of 5/16/2013:

Projected Value: \$170.15

Projected Range: \$161.97 to \$178.34

As of 5/16/2014:

Projected Value: \$151.84

Projected Range: \$143.65 to \$160.03

Sale Price / Gross Living Area (Regression Analysis) \$140 Closing Date

List Price / Gross Living Area

Regression Equation: y = 0.0316x + 173

Correlation coefficient 0.441 Coefficient of determination: 19.46% \$12.57 Estimated standard error.

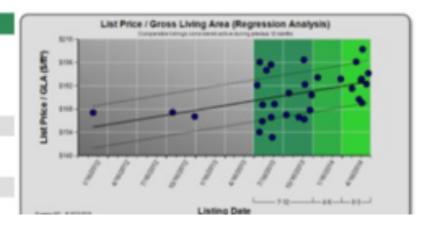
As of 5/16/2013:

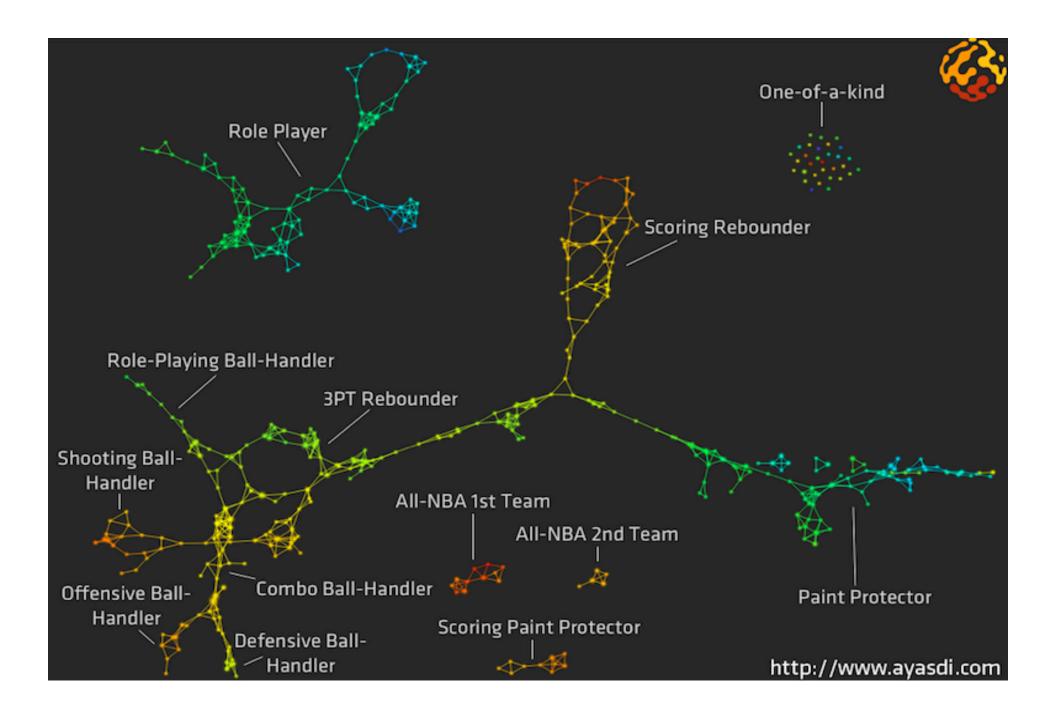
\$173.06 Projected Value:

Projected Range: \$160.49 to \$185.64

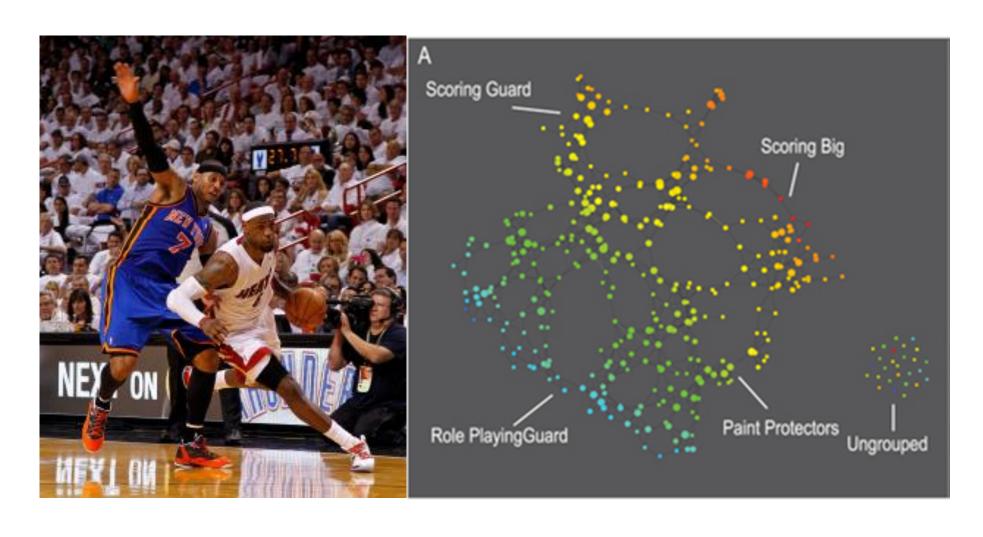
As of 5/16/2014:

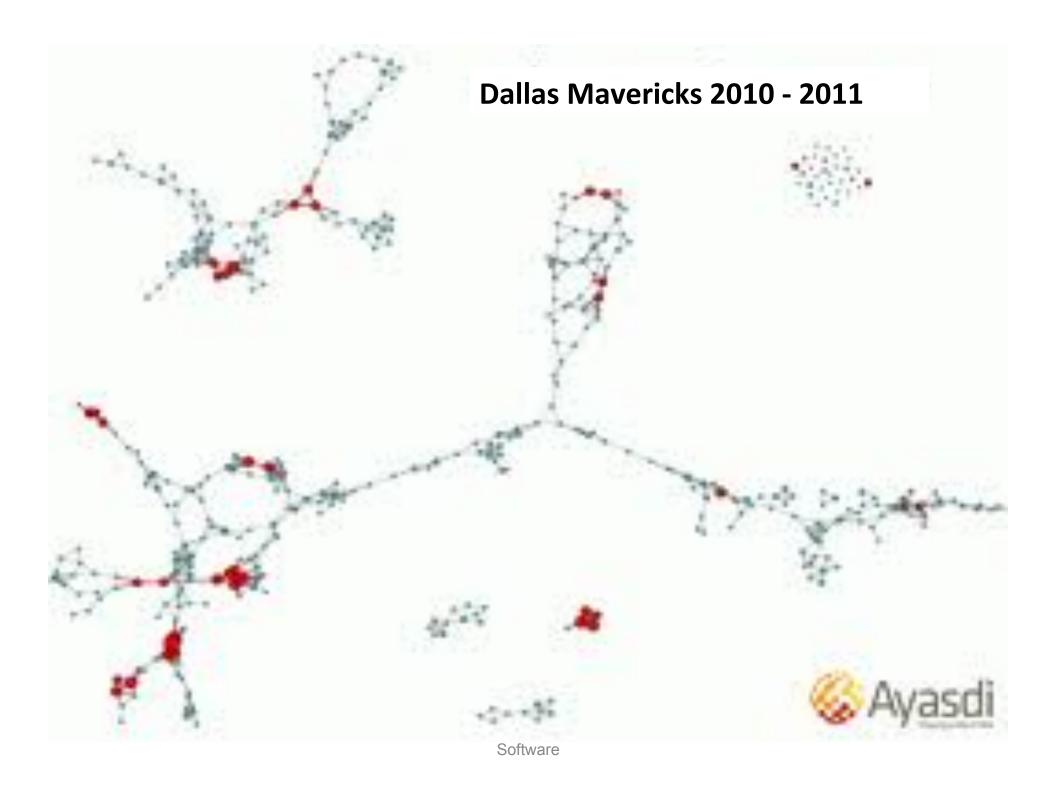
Projected Value: \$184.60



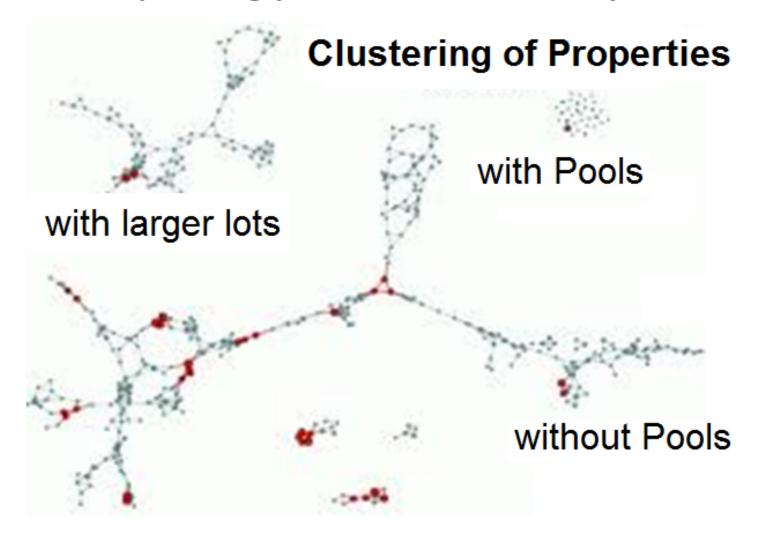


Basketball Topology

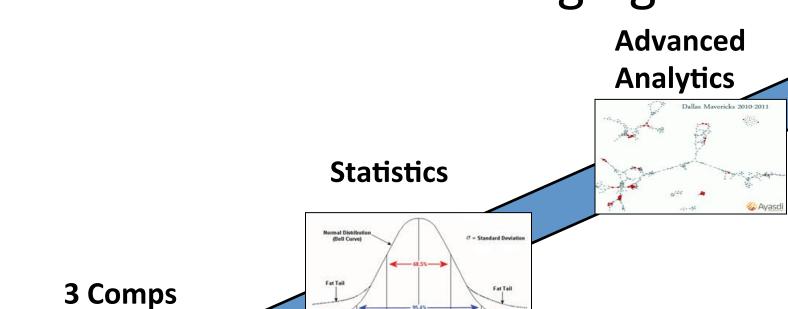




Topology Market Analysis



The World is Changing



The World is Changing Fast





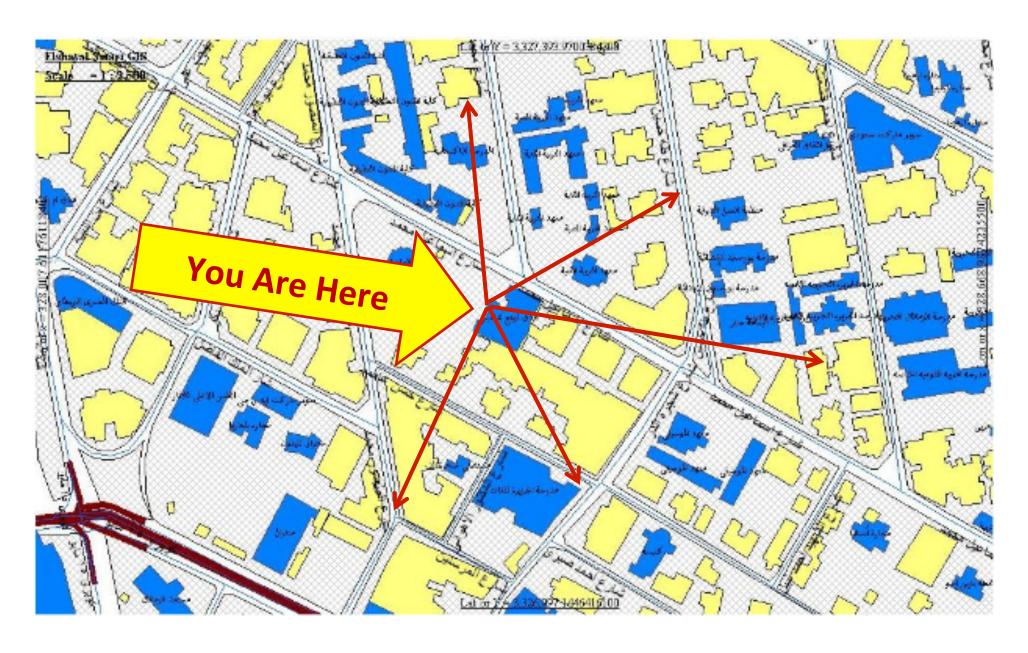




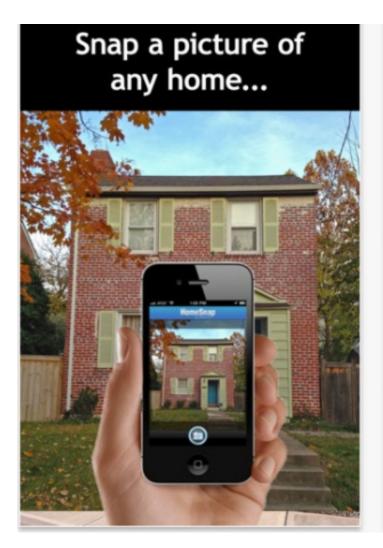
Trends Affecting Appraisers



Location Based Information



Location Based Information







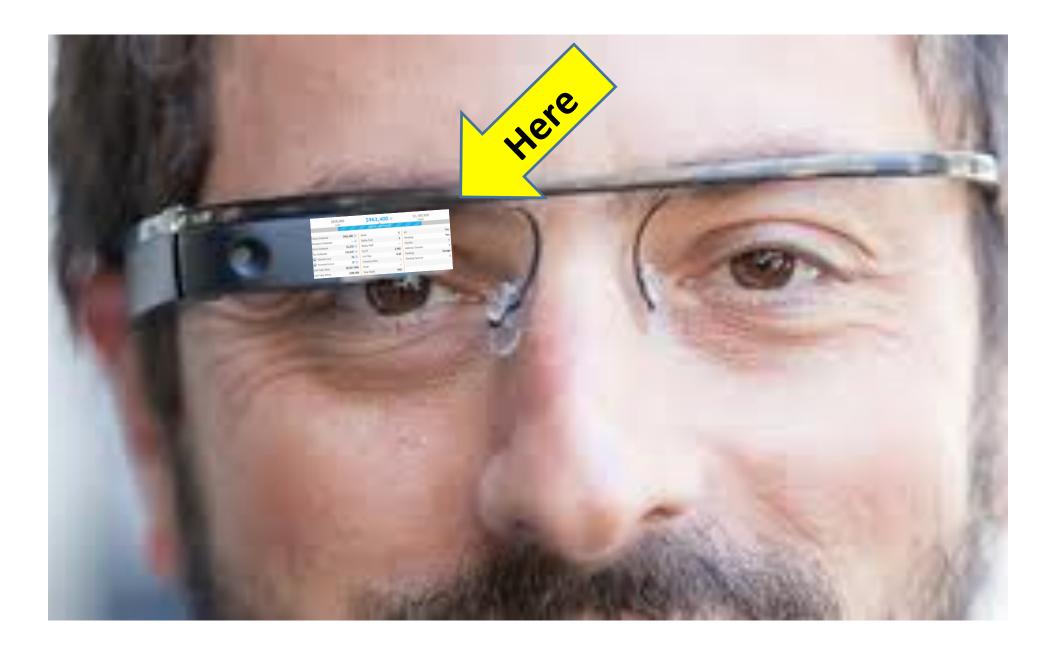
\$889,950 \$1,047,000 2 \$1,204,050 LOW HIGH VALUE ESTIMATE

Value Estimate	\$1,047,000 ?	Beds	5
Payment Estimate	\$4,027/mo 🕶 🕐	Baths Full	
Rent Estimate	\$4,030 💽	Baths Half	
Tax Estimate	\$6,320 💽	Sq Ft	2,965
☆ HomeScore	76 ?	Lot Size	0.40
♠ InvestorScore	35 🕐	Construction	
Last Sale Date	05/07/1996	Style	
Last Sale Price	\$205,000	Year Built	1951

AC	Yes
Heating	Yes
Stories	1
Address Stories	1
Parking	Garage
Parking Spaces	2



Blaise Aguera Demos Augmented-reality Maps



Aerial Imagery - Pictometry













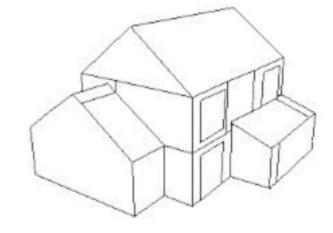
Imagery Becomes Information















Automatically Calculate GLA

The Drones Are Coming

Drone usage for Property Inspection will increase



Sources of Data are Growing



Property Data Growth Accelerating

Consolidation of Property Data



Public Records



Permit History



Sales & Listing History



Flood Zones



Economic, etc...



Easily Accessible



SPATIAL ANALYSIS OF THE IMPACT OF VACANT, ABANDONED AND FORECLOSED PROPERTIES

Submitted to
Office of Community Affairs
Federal Reserve Bank of Cleveland

November 2008

Brian A. Mikelbank

Research conducted as Visiting Scholar, Community Affairs Federal Reserve Bank of Cleveland

Associate Professor of Urban Studies
Director, Center for Planning Research and Practice
The Housing Research & Policy Initiative
Maxine Goodman Levin College of Urban Affairs
Cleveland State University

Accurate Appraisals in a Rural Market: Some Problems and Solutions

in a rural market, appraisals are often problematic—properties are extremely diverse and there are few sates. Because an appraiser is obligated to accurately reflect the market and to convey this understanding to the underwriter, specialized appraisal techniques are required to maintain accuracy in rural markets. Basing a rural appraisal on a formal used for standard suburban markets can compromise accuracy.

EVALUATING SUBDIVISION CHARACTERISTICS ON SINGLE FAMILY HOUSING VALUE USING HIERARCHICAL LINEAR MODELLING

Contact Author:
Woo-Jin Shin, Ph.D.
Korea Real Estate Research Institute
4F, 275 Yangjae-dong, Seocho-gu,
Seoul, 137-130, Korea

USING MULTIPLE CRITERIA DECISION ANALYSIS (MCDA) TO ASSIST IN ESTIMATING RESIDENTIAL HOUSING VALUES

Fernando A. F. Ferreira

School of Management and Technology, Polytechnic Institute of Santarém Complexo Andaluz, Apartado 295, 2001-904 Santarém, PORTUGAL and

Fogelman College of Business and Economics, University of Memphis Memphis, TN 38152-3120, USA

fernando.ferreira@esg.ipsantarem.pt or fernando.ferreira@memphis.edu

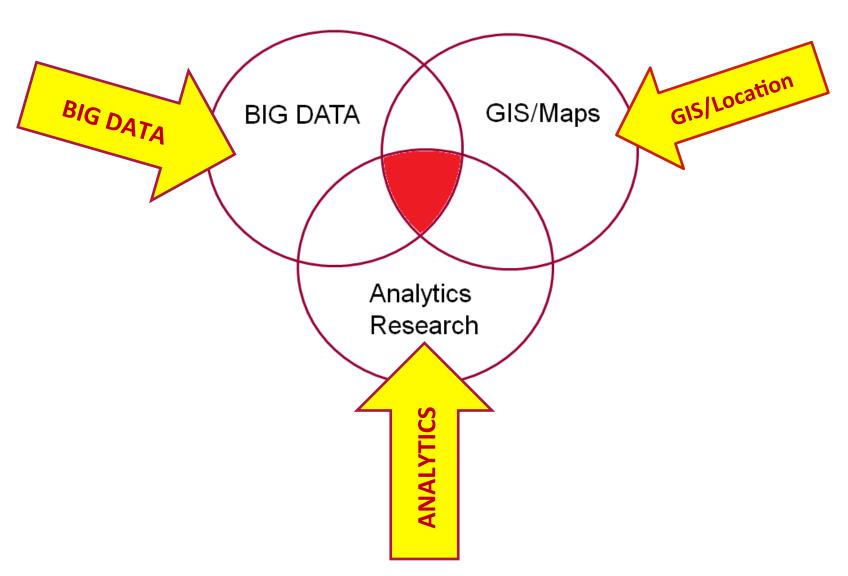
Ronald W. Spahr*

Department of Finance, Insurance and Real Estate

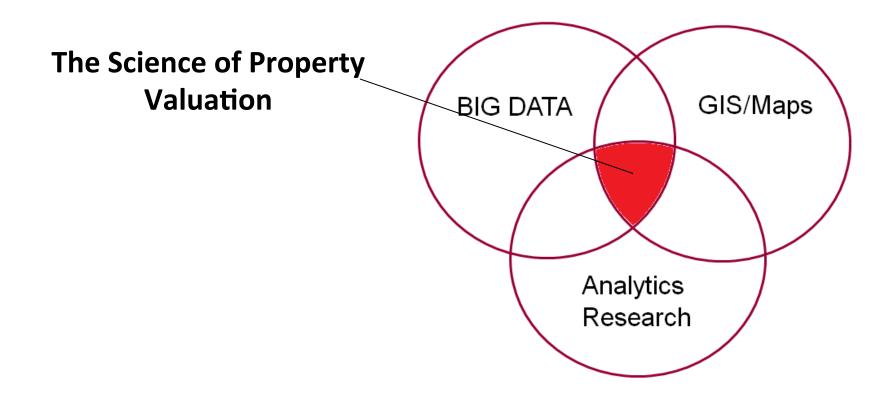
Fogelman College of Business and Economics, University of Memphis

Memphis, TN 38152-3120, USA

Convergence of Trends



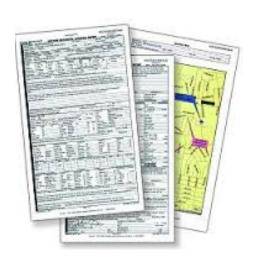
Convergence of Trends





Today...

Appraisers have *powerful* Form Fillers And a lot of manual work!







Appraising is an "Art"



Appraising is an "Art"



You would never expect a computer to value the Mona Lisa

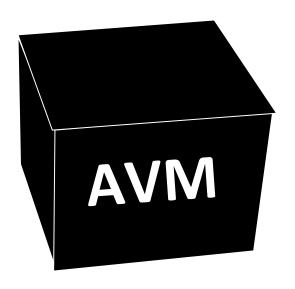
Appraising is an "Art"



We also don't expect computers to accurately value our home

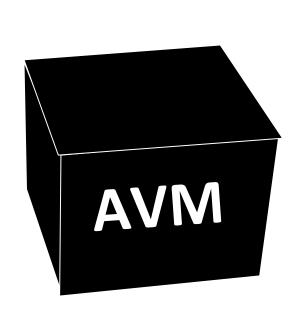
But Ever Since 1981...

These Black Box property valuation systems have been getting better and better every year.



But Ever Since 1981...

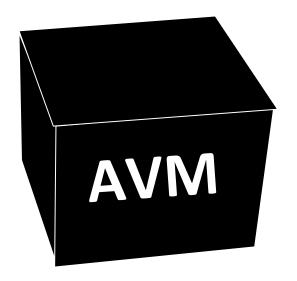
Their usage continues to grow





But Ever Since 1981...

"Each month, we provide more than <u>one billion</u> **AVM values** to lenders, brokers, government agencies, marketing firms, consumers and insurance companies".



Today Valuation is BIG Business

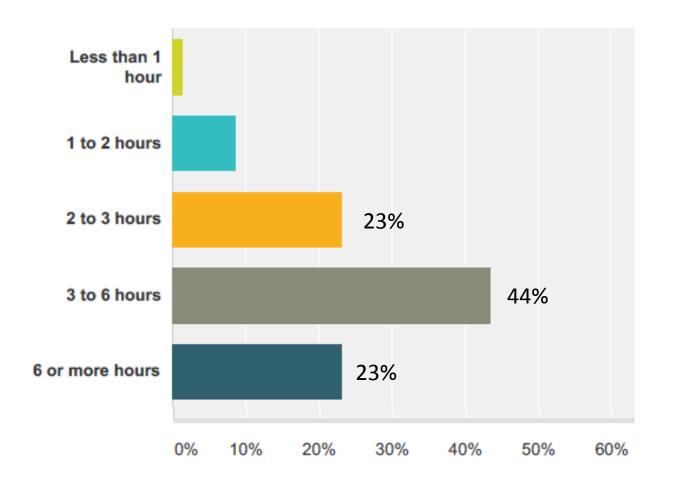
Property Valuation has become a Science

- Team of more than 50 PhDs, economists, and modelers
- Combined with nation's largest property and ownership database covering 98 percent of the U.S. population

Appraisers are at a Disadvantage



Time to Complete an Appraisal





to 5 hours on a report not including field work with research and analysis taking up most of the time

Appraisal Quality

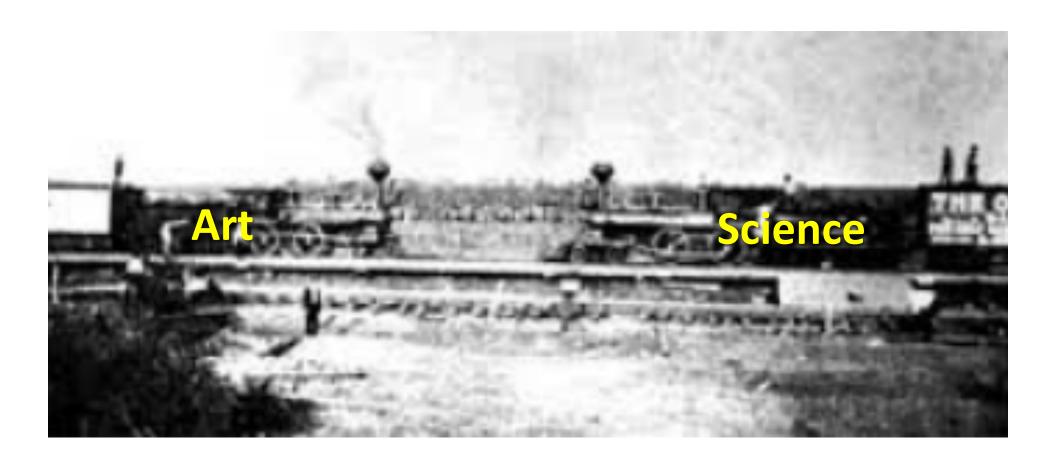
Office of the Comptroller of the Currency

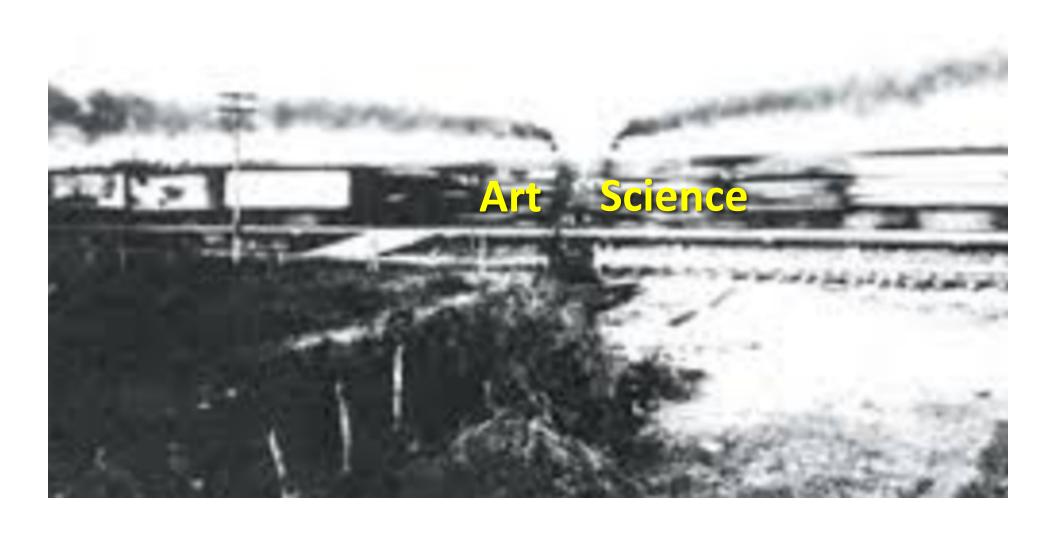
- 17.6 % of appraisals contained contradictory information
- 35% of repurchased loans are due to faulty appraisals

Appraisal Compliance

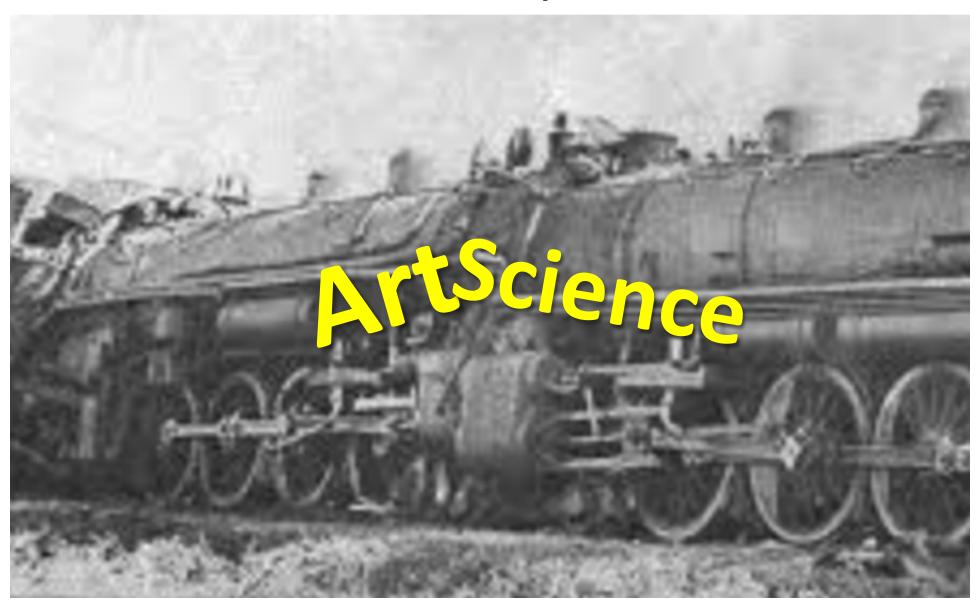
- USPAP
- UCDP,UAD
- CFPB
- Dodd Frank
- Interagency Guidelines
- Federal & State Independence Laws













Collateral Underwriter takes appraisal review to the next level

Why Collateral Underwriter

The following slides are from Fannie Mae's **Lender Letter LL-2015-02**. This is copyrighted information owned by Fannie Mae.

CU is a proprietary model-driven tool developed by Fannie Mae that provides an automated appraisal risk assessment to support proactive management of appraisal quality. As previously announced, Fannie Mae is making CU available to Fannie Maeapproved lenders in 2015 to provide transparency and to help lenders more effectively and efficiently identify potential issues with appraisals.

Collateral Underwriter Facts

- The use of CU is voluntary and at no cost to the lender.
- CU is a Fannie Mae (only) risk management tool.
- CU does not make a credit decision and the lender may not use CU to make a credit decision.
- CU does not accept or reject appraisal reports or characterize an appraisal as "good" or "bad." The CU risk score and messages pertain to risk and identify potential defects in the appraisal report. The lender is not obligated to "clear" or "override" the CU messages. The messages are meant to be used as red flag messages that lenders should use to assist with their appraisal analysis and inform their decisions based on a complete analysis and understanding of the appraisal report.
- CU does not provide an estimate of value to the lender.
- CU provides a numerical risk score from 1.0 to 5.0, with 1 indicating the lowest risk and 5 indicating the highest risk. Risk flags and messages identify risk factors and specific aspects of the appraisal that may require further attention.

Adjustments to Comparable Sales

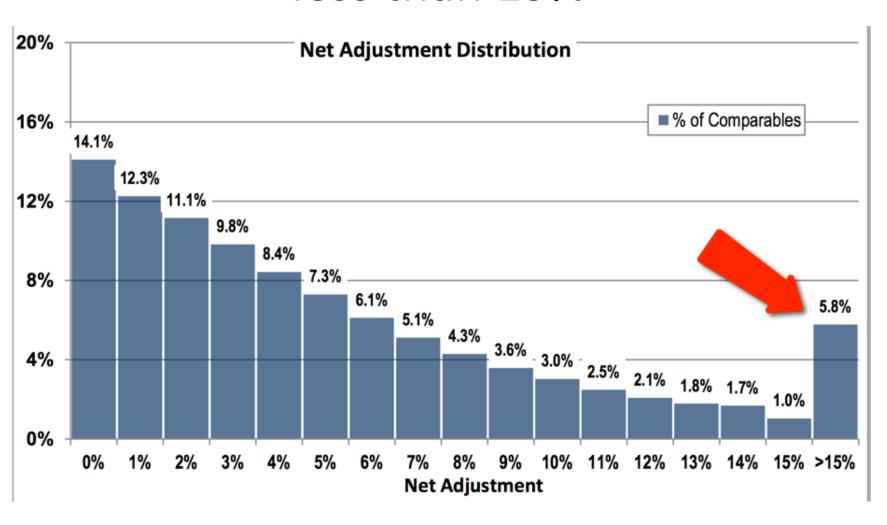
In the December, 2014 Selling Guide update, Fannie Mae removed a long-standing guideline that when adjustments to the comparable sales exceeded 15% net and 25% gross, the appraiser was required to provide an explanation as to why the comparable was chosen for use in the appraisal report. This requirement for commentary was based on the premise that the best comparable would require the fewest adjustments.

To support the decision-making process to remove this guideline, Fannie Mae analyzed 700,000 appraisals submitted to Fannie Mae in Q1 2014, including analysis of more than 2.5 million comparable sales. The charts below reflect the results of the analysis.

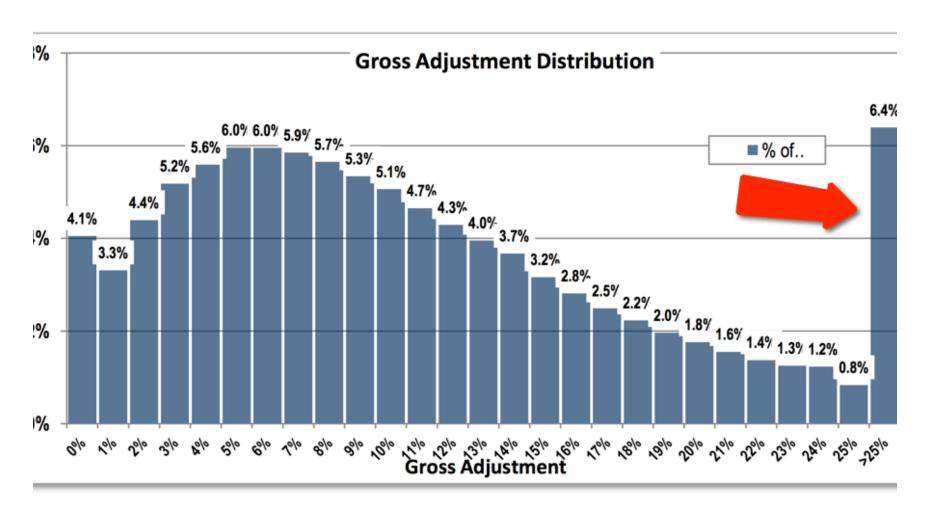
Adjustments to Comparable Sales

- Fannie Mae no longer requires specific comments from an appraiser if a comparable sale is older than 6 months; however, a comment is still required when a comparable sale is older than 12 months.
- Older comparable sales (including sales older than 12 months) that are the best indicator of value for the subject property can be used if appropriate. For example, if the subject property is located in a rural area that has minimal sales activity, the appraiser may not be able to locate 3 truly comparable sales that sold in the past 12 months. In this case, the appraiser may use older comparable sales as long as he or she explains why they are being used.

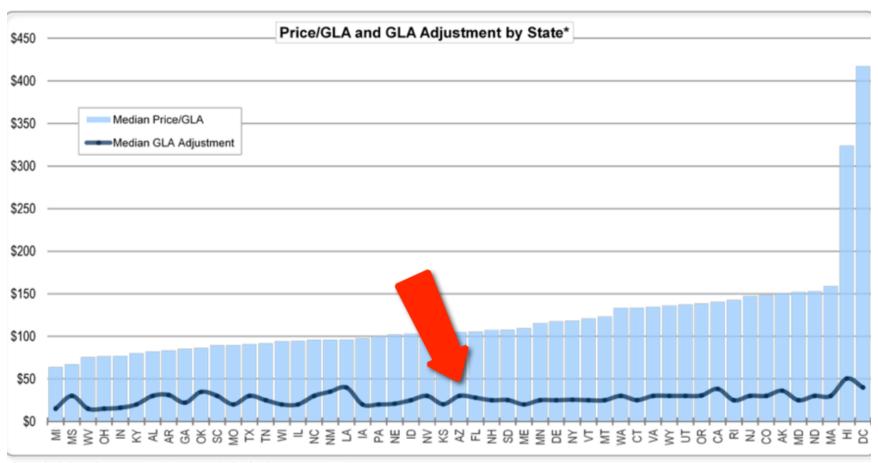
94.2% comps had net adjustments less than 15%



93.6% comps had gross adjustments less than 25%

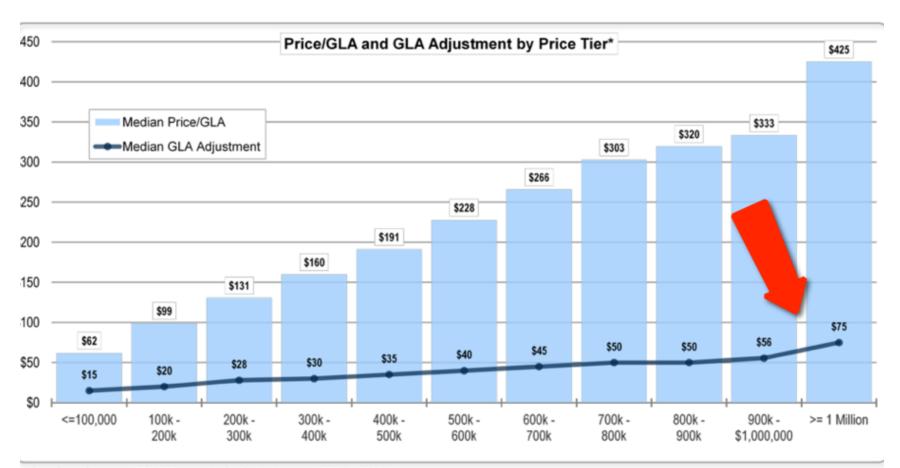


Analysis shows little variation in the median GLA adjustment despite significant variation in price



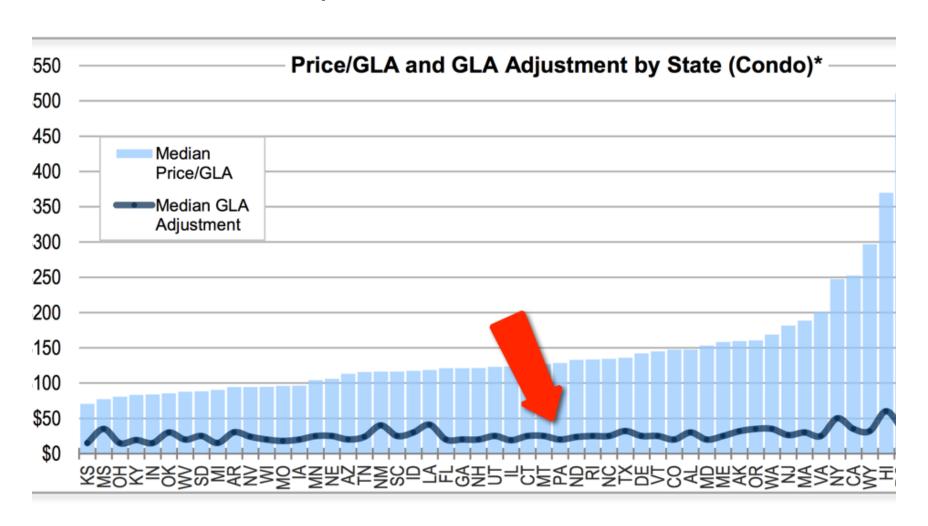
^{*} Analysis based on over 700,000 appraisal submissions to UCDP in 2014 Q1

GLA adjustments remain much the same

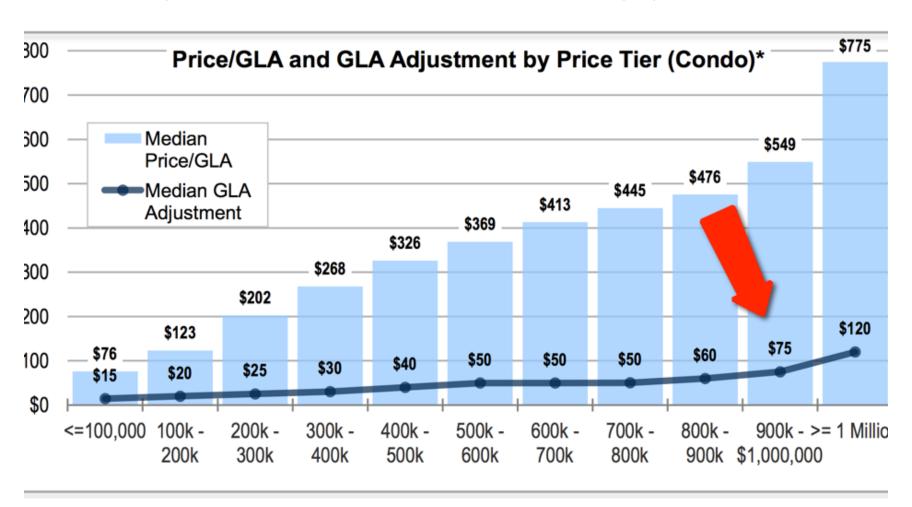


nalysis based on over 700,000 appraisal submissions to UCDP in 2014 Q1

Appraiser behavior appears to be the same when the analysis is limited to condominiums



This trend is even more pronounced in an analysis of condominiums by price tier.



Appraisal Quality Monitoring

Fannie Mae's AQM process identifies appraisers whose appraisal reports exhibit a pattern of minor inconsistencies, inaccuracies, or data anomalies. The intent and expectation of communicating these issues to appraisers is for training and educational purposes, and to provide them with an opportunity to improve their work. Future appraisal reports from those appraisers are then monitored to assess improvement.

The AQM process can also identify appraisers whose appraisal reports exhibit more egregious issues. In those cases, Fannie Mae will contact the appraiser and the lender that delivered the loan(s), informing them that either 100% of the loans submitted with appraisals from the identified appraiser will be reviewed in the post- purchase file review process, or that Fannie Mae will no longer accept loans with appraisals completed by the specific appraiser.

Your World Changed on the 26th

In addition to Property Eligibility and Policy Compliance, CU analyzes key appraisal components including data integrity, comp selection, adjustments, and reconciliation.

COLLATERAL UNDERWRITER RISK SCORE [1.0 – 5.0] (1000 Series)

APPRAISAL QUALTITY FLAG [Y/Null] (1000 Series) OVERVALUATION FLAG [Y/Null] (1000 Series)

ELIGIBILITY/COMPLIANCE FLAG
[Y/Null] (1000 Series)

DATA INTEGRITY MESSAGES (400 Series) COMP SELECTION MESSAGES (700 Series) FATAL UAD EDITS (Existing) PROPRIETARY MESSAGES (Existing) MODEL FAILURE MESSAGES (900 Series)

ADJUSTMENT MESSAGES (600 Series) MESSAGES (500 Series) CU DATA QUALITY MESSAGES (800 Series)

Scores and risk flags may facilitate more efficient allocation of resources by the lender. Detailed messaging directs reviewers/underwriters to specific aspects of the appraisal that may require further attention.

Your World Changed on January 26th



Overview:

- Background, purpose and objectives for creating Collateral Underwriter
- Appraisal review process as conducted by lenders using Collateral Underwriter
- Explain and illustrate steps and procedures for minimizing negative responses and feedback from Collateral Underwriter
- Explain and illustrate methods and techniques for documenting and submitting non-conforming property appraisals to Collateral Underwriter

 AMCs are responsible for approximately 90% of appraisals required by big banks and lenders, and many appraisers and industry observers feel that the business has become a commodity rather than a professional service.

Collateral Underwriter Timeline

- October 20, 2014: Collateral Underwriter unveiled
- December 13, 2014: All but 35 Fannie Mae Findings retired
- January 26, 2015: First Available to Lenders
- April 18, 2015: CU 2.1 will be released
 - FNM0438 & FNM0439 retired (Bedroom / Bathroom count different from another appraisal of same subject.
- April 18, 2015: DU 9.2 will be released
 - CU Integration with Desktop Underwriter (DU) and EarlyCheck

Appraisal Data Evolution

- Data Standardization: The Uniform Appraisal Dataset (UAD) standardized critical data points on the appraisal. (2011)
- Electronic Data Capture: UCDP has collected over 12 million appraisals and nearly 20 million transactions to date.
- Data Quality Feedback: Fannie Mae Messages in UCDP provide basic property eligibility, data reasonableness, and compliance checks. (2012)
- Fannie Mae Use: CU informs Fannie Mae's postacquisition quality control process and Appraiser Quality Monitoring (2015)

- Collateral Underwriter does NOT provide loan approvals or loan denials
- Collateral Underwriter should NOT be used as the basis for a credit (lending) decision
- NO representation & warranty relief for using Collateral Underwriter
- Use of Collateral Underwriter is NOT required, but is strongly encouraged (and it is free to seller/servicers)
- Except for the 21 Hard Stops, CU risk scores do not impact UCDP submission

- Collateral Underwriter is not designed to produce a range or a specific valuation for the property, but to determine the risk profile of an appraisal.
- CU is able to account for data in a rapidly rising or falling market. An appraisal that was submitted yesterday is a data point for today's appraisal analysis.
- CU is built on and has access to an unparalleled appraisal/transaction database that significantly improves the information and analysis it produces.

Well-informed human judgment should take precedence over automated results

 "First and foremost, we don't want to value conformity with this tool above all else, and there could be unintended consequences of appraisers having access to this information and simply choosing to agree with this automated output. We value the independent local market expert."

Zach Dawson, director of collateral strategy at Fannie Mae

- Collateral Underwriter (CU™) is a proprietary appraisal risk assessment application developed by Fannie Mae to support proactive management of appraisal quality.
- CU will provide additional transparency and certainty by giving <u>lenders</u> access to the same appraisal analytics used in Fannie Mae's quality control process.
- CU performs an automated risk assessment of appraisals submitted to the Uniform Collateral Data Portal® (UCDP®) and returns messages to the submitting lender.

- CU performs an automated risk assessment of appraisals submitted to the Uniform Collateral Data Portal® (UCDP®) and returns:
 - a risk score
 - flags
 - messages
- to the <u>submitting lender</u>.

- The purpose of Collateral Underwriter is to identify appraisals with:
 - heightened risk of property <u>eligibility</u> or policy <u>compliance</u> violations
 - overvaluation
 - appraisal quality issues

 CU leverages an extensive database of property records, market data, and proprietary analytical models to analyze key components of the appraisal including data integrity, comparable selection, adjustments, and reconciliation.

- 14 million Appraisals
- 20 million transaction records
- 20,000 appraisals per day

 CU leverages an extensive database of property records, market data and proprietary analytical models to analyze key appraisal components including:

- Data integrity
- Comp selection
- Adjustments
- Reconciliation

 Results of CU's automated appraisal analysis include the following:

- A comprehensive Risk Score on a scale of 1.0 (lowest risk)
 to 5.0 (highest risk)
- Risk Flags to identify factors contributing to high risk scores
- Detailed messaging to highlight specific aspects of the appraisal that may warrant further attention

Lenders may experience improved efficiency:

- Segmenting appraisals by risk profile facilitates more efficient resource allocation and workflow management.
- At a transaction level, CU content may also prevent unnecessary correction requests to the appraiser.

Fannie Mae will make Collateral Underwriter available at no charge to lenders

Public records are generally reliable, but

- Varies municipality by municipality
- Limited in scope
- Time lags

MLS coverage at Fannie is about 50% to 60% nationwide

 Three ways for lenders to access Collateral Underwriter messages:

- UCDP web-based interface
 - Contains additional information and tools
- The Submission Summary Report
- Direct integration

 Correspondents will have access to the webbased application later in 2015.

 Other UCDP users that are not Fannie Mae sellers or correspondents – including appraisal management companies (AMCs) that have UCDP access as Lender Agents – can view the CU risk score, flags, and messages in UCDP but do not have access to the web-based application.

• Collateral Underwriter's web interface includes:

- Comparable sales data
- Configurable comp searches
- Local market trend data
- Mapping
- Aerial and street view imagery
- Public records
- Building permit data

CU Risk Score Flags

- Property eligibility or policy compliance
 - Fatal UAD, did not have three comps
 - Critical Proprietary Messages, Positive concessions adj.
- Overvaluation
 - AVM result critically does not agree with appraiser's value
- Appraisal quality
 - Data Integrity
 - Comparable Selection
 - Adjustments
 - Reconciliation

The 21 Hard Stops:

- Relate to the most critical eligibility violations
- Hard stops require lender action
- New reason codes available for manual overrides or upload of a corrected appraisal to obtain a "Successful" submission status in UCDP

Hard Stops:

- FNM0083 The sales contract was not analyzed.
- FNM0084 There was no comment on market conditions, even though one or more negative housing trends were indicated (declining, over supply, over 6 months).
- FNM0085 Less than three settled sales were used as comparables.
- FNM0086 Research of prior sale was not performed. (1004)
- FNM0087 Research of prior sale was not performed. (1073)

Hard Stops:

- FNM0092 State certificate is not provided on transaction amount over \$1 million.
- FNM0093 Appraiser license state does not match subject property state.
- FNM0094 Supervisor license state does not match subject property state.
- FNM0096 Illegal zoning compliance has been indicated in appraisal. Review description to verify if the property may be eligible per the Selling Guide.
- FNM0097 Illegal zoning compliance has been indicated in appraisal. Review description to verify if the property may be eligible per the Selling Guide.

Hard Stops:

- FNM0098 Present use is indicated as not highest and best use. (1004)
- FNM0099 Present use is indicated as not highest and best use. (1073)
- FNM0101 The subject property may be a hotel/motel or condo hotel.
- FNM0102 The subject property is in a condominium project that may be ineligible for delivery to Fannie Mae.
- FNM0174 The project name suggests that the property may be a condo hotel. Verify the subject is located in a project that meets Fannie Mae's Selling Guide requirements.

Hard Stops:

- FNM0176 The appraisal indicates that the subject property has legal nonconforming zoning and cannot be rebuilt to the current density. This data indicates that the property is ineligible for delivery to Fannie Mae.
- FNM0179 The appraisal indicates the subject property has a C6 condition rating. If the loan is not a DU Refi Plus or Refi Plus loan, the property is not eligible for delivery to Fannie Mae.

Hard Stops:

- FNM0193 Based on the overall quality of this appraiser's work,
 Fannie Mae has decided to review 100% of the appraisals
 prepared by this appraiser for any loans delivered to Fannie Mae.
- FNM0194 Based on the overall quality of this supervisory appraiser's work, Fannie Mae has decided to review 100% of the appraisals prepared by this appraiser for any loans delivered to Fannie Mae.
- FNM0195 Fannie Mae will not accept appraisals from this appraiser.
- FNM0196 Fannie Mae will not accept appraisals from this supervisory appraiser.

Appraiser Quality Monitoring (AQM)

- AQM's intent is training and education
- When issues are minor, an informational letter is sent
 - Not sent to lender(s), AMCs, state board or any other party
- When issues are egregious, appraiser goes on 100% review list, or becomes ineligible
- Fannie Mae performs a significant level of human due diligence.

Appraiser Quality Monitoring (AQM)

- There is no direct connection between CU risk scores and AQM
- High CU risk scores do not automatically trigger AQM reviews
- CU is one of several tools used by Fannie Mae in the AQM process

- Critical Proprietary Messages:
- FNM0088 Concession adjustment for comparable property #[_] is greater than zero.
 Fannie Mae policy does not permit positive sales or financing concession adjustments
- FNM0090 Final estimated value is outside the bounds of the approaches to value used in the appraisal
- FNM0095 Seller is not indicated as owner of public record

Overvaluation Risk Flag

- Fannie Mae proprietary statistical modeling, but is NOT a pure automated valuation model (AVM)
- No estimate of value or range of values is provided to the lender/user
- This is simply an alert that there is a potential for overvaluation in the appraisal

Message Categories:

- Data Integrity
- Comparable Selection
- Adjustments
- Reconciliation

The message types:

- Proprietary
- Data Integrity
- Reconciliation
- Adjustments
- Data Quality
- Data Error
- Summary

 Data Integrity – The appraiser has reported materially different (GLA, sale price, etc.) than:

- Him or her self in one or more appraisal reports
- Several peers reported by other appraisers
- One peer by any another appraiser
- One peer in another appraisal of the same subject

 Data Integrity – The appraiser has reported materially different (GLA, sale price, etc.) than:

- Public records (when available)
 - Tax assessor records
 - Building permit data
- MLS Data (when available)
 - Redfin, Trulia, Realtor.com, etc.
 - Often includes photos

Comparable Selection

- CU will generate up to 20 alternative sales
- The purpose of the sales is to give context to the reader of the report
- Fannie Mae's expectation is NOT that the alternative sales be addressed nor that only the top-ranked sales be used.
- Lenders may examine alternative sales to see if their use may result in a different conclusion

 Adjustments – The appraiser's adjustments are materially different from peer and model adjustments

- Prevalence of peers may not always be right
 - Supported adjustments are the key
- Fannie Mae Model Adjustments
 - Appraisers (and lenders) will never know what the model adjustments are – only that ours are different.
 - Model data may not be as compete as our local data supported adjustments are the key

Reconciliation

- Quality and quantity of data for each approach used
- Strength and weakness of each approach used
- Reconciliation requires explanation and support
- Using <u>market</u> analysis to facilitate reconciliation

- Condo Project Eligibility
- Insurance declarations
- Budgets
- Reserves
- Covenants, conditions & restrictions
- Owner-occupancy level
- Percent commercial use
- Liens & Lawsuits

Major project types:

- Existing condo project
- New condo project
- Two-to-four-unit condo project
- Co-op project
- Planned unit development (PUD)

Rural Properties:

Lender Letter LL-2014-02

Rural Properties

- When reviewing an appraisal on a property located in a rural or relatively undeveloped area, the <u>lender should</u> focus on:
- the characteristics of the property,
- zoning,
- and the present land use to determine whether the property should be considered residential in nature.

Selling Guide: Part B, Subpart 4, Chapter 1 (B4-1.3-03)

Rural Properties

- Fannie Mae does not purchase or securitize mortgages secured by agricultural-type properties, undeveloped land, or land-development-type properties
- The <u>lender</u> must review the appraisal report for properties that have sites larger than those typical for residential properties in the neighborhood
- Selling Guide: Part B, Subpart 4, Chapter 1 (B4-1.3-03)

Rural Properties

- Special attention must be given to the appraiser's
 - description of the neighborhood,
 - zoning,
 - highest and best use determination,
 - the degree of comparability between the subject property and the comparable sales.

• Selling Guide: Part B, Subpart 4, Chapter 1 (B4-1.3-03)

Rural Properties

- Comparable sales that have closed within the last 12 months should be used in the appraisal;
- However, the best and most appropriate comparable sales may not always be the most recent sales.
- older comparable sales that are the best indicator of value for the subject property can be used if appropriate.

• Selling Guide: Part B, Subpart 4, Chapter 1 (B4-1.3-08)

Rural Properties

The appraiser may use older comparable sales as long as he or she explains why they are being used.

Selling Guide: Part B, Subpart 4, Chapter 1 (B4-1.3-08)

Rural Properties

- Comparable sales located a considerable distance from the subject property can be used if they represent the best indicator of value for the subject property.
- In such cases, the appraiser must use his or her knowledge of the area and apply good judgment in selecting comparable sales that are the best indicators of value.
- The appraisal must include an explanation of why the particular comparables were selected.
- Selling Guide: Part B, Subpart 4, Chapter 1 (B4-1.3-08)

Rural Properties

The appraisal must include an <u>explanation</u> of why the particular comparables were selected.

Selling Guide: Part B, Subpart 4, Chapter 1 (B4-1.3-08)

Rural Properties

- Be Proactive: anticipate the questions and answer them before they are asked
 - 1. Is the primary property use residential?
 - 2. Is the total site size similar in size to typical residential properties in that market?
 - 3. Is the site similar to typical residential properties in that market in terms of:
 - a) Access
 - b) Shape
 - c) Topography
 - d) Utilities

Rural Properties

- Be Proactive: anticipate the questions and answer them before they are asked
 - 4. Is there significant farming or ranching activity on the subject property or in the subject's area?
 - 5. Is the property in a resort of vacation area?
 - a) If yes, is the subject property suitable for year-round use?

Lender Letter LL-2015-02 February 4, 2015

Analyzing Market Conditions

Data types:

- 1. Number of competing listings
- 2. Number of total listings
- 3. Number of new listings in the trailing month
- 4. Number of pending sales
- 5. Number of new pending sales in the trailing month
- 6. Number of expired listings
- 7. Number of sold listings
- 8. Mean, median, low and high price

Analyzing Market Conditions

Analyses to conduct:

- 1. Absorption rate (how many listings sell each month?)
- 2. Active listing supply (expressed in months)
- 3. Listing-to-sales ratio
- 4. Listing-to-pending ratio
- 5. Typical days on market
- 6. Average sale price as a percentage of list price

- Absorption Rate
 - Long term absorption
- An absorption rate is the average number of sales expressed as a monthly rate for a period of time leading up to the present. The calculation is simply the total number of sales in the trailing period divided by the number of months in that period. For example, 177 sales in the previous six months shows an absorption rate of 29.5 properties per month.

- Absorption Rate
 - Long term absorption
- Calculating an absorption rate for different periods of time can provide insight into whether or not property sales are picking up, staying the same or slowing down. In this case, if instead of six months, we looked at a 12 month rate and found that there had been 310 sales in the last 12 months yielding an absorption rate of 25.9 properties per month, we would see that the pace of sales increased in the most recent six-month period compared with the prior six-month period.

Listing Supply

This figure is the total listings divided by the absorption rate, i.e. 330 total listings divided by 29.50 yields an 11.19 month listing supply. This measurement determines how long, if the rate of absorption for the trailing period continues on a straight line, the existing inventory would last, based on the assumption (which is never true) that no new inventory would be introduced.

Listing-to-sale ratio

- This looks at the total number of current listings against the number of sales for the trailing month.
- For example, 330 total listings divided by 19 new sales reported in the trailing 30 days produces a listing-to-sales ratio of 17.37 to 1.
- Note that when the number of new sales in the trailing month is lower than the absorption rate for the trailing six months – it is a possible indicator downward trend in sales activity

Listing-to-pending ratio

 This looks at the total number of current listings against the number of new pending sales reported (new contracts written). Generally, if this number is lower than the listingto-sale ratio, market activity is increasing.

- Typical Days on Market (DOM)
- My MLS system does not export combined days on market, only DOM for the current listing. Developing a reliable statistic for average days on the market can be frustrated by several factors:
 - The inability to export a total days on market figure.
 - Re-listing of a property in ways that deliberately mask the prior listing
 - Prior listings at "unmarketable" prices was the property really for sale?

- Average sale price as a percentage of list price
- Movement of the average sale price as a percentage of list price can be a leading indicator of market change
- Sellers market: sale prices at or sometimes above list prices
- Buyers market: sale prices move away from list prices

Some other ways of looking at the same data:

- New Pending Sales/Contracts Written = 32
- New Listings = 101
- The % of New Listing Absorption: (32/101)*100 = 31.7%
- Since only 31.7% of the new listings are offset by new pending sales, the buyer has the advantage. A one-for-one or 100% ratio would reflect a balanced market.

Some other ways of looking at the same data:

- New Pending Sales/Contracts Written = 32
- Total for Sale = 330
- The % Absorption: (32/330)*100 = 9.7%
- Only 9.7% of the available homes are being absorbed into sales. This reflects low demand; confirms that the market is in favor of buyers.

Some other ways of looking at the same data:

- As the percentage of New Listing Absorption gets closer to a value of 100%, we have a pretty balanced market. If it becomes greater than 100% more contracts are written than new properties are coming on the market. For instance a value of 120% means 20% more contracts are written than new listings and total listings should be declining.
- The ratio of Sales to new Listings is very low at 9.7%.
 Whenever the ratio of Sales to New Listings goes under 50%, inventory buildup will occur.

Neighborhood Statistics

Date produced: Sunday, April 27, 2008 Criteria used: Zip Code 98023

Price range used: All Prices Time period: 6 Months

of Listings: 330 of which 101 were added in the last month

of Expired: 147

of Pending: 45 of which 32 were added in the last month # of Sold: 177 of which 19 were added in the last month

Absorption Rate: 29.50 a Month Active Listing Supply: 11.19 Months

Listing/Sales Ratio: 17.37
Listing/Pending Ratio: 10.31
Typical Days on Market: 90 Days**
Avg Sale Price % of List: 101.6293%
Sales Price Mean: \$335,608***

Price Standard Deviation: \$114,225 66% Sold between \$221,383 and \$449,833 95% Sold between \$107,158 and \$564,058 Avg Sale Price per Sq Ft: \$170.88

	Median	Mean	Low	High
Sale Price	\$309,950	\$335,608	\$104,500	\$869,950
Pending List Pr	\$314,495	\$369,422	\$139,900	\$1,725,000
Active List Price	\$372,450	\$449,757	\$180,000	\$2,495,000
Sold Age	29	29	1	116
Sq Ft (Sold)	1883	1964	780	4040

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What is Regression?

Regression finds the line that best fits the observations. It finds the line that results in the lowest sum of squared errors.

Types of Regression:

Simple Linear Regression

 examines the linear relationship between two continuous variables: one response (y) and one predictor (x)

Multiple Linear Regression

 Multiple linear regression examines the linear relationships between one continuous response and two or more predictors.

Why Squared?

The sum of the negative errors (for points below the line) will exactly offset the sum of the positive errors (for points above the line). Summing just the errors wouldn't be useful because the sum is always zero.

Instead, regression uses the sum of the squares of the errors. An Ordinary Least Squares (OLS) regression finds the line that results in the lowest sum of squared errors.

Think of the price of a home as a dependent variable.

Several factors contribute to the price of a home:

- square footage
- number of bedrooms
- number of bathrooms
- age
- garage
- fireplaces
- location

In a Multiple Regression Analysis of home prices, we take data from actual homes that have sold recently.

We include the selling price, and values for the independent variables (square footage, number of bedrooms, etc.).

The multiple regression analysis finds the coefficients for each independent variable so that they make the line that has the lowest sum of squared errors.

One of the measures of how well the model explains the data is the R-squared value.

Differences between observations that are not explained by the model remain in the error term.

The R² value tells you what percent of those differences is explained by the model. An R² of .68 means that 68% of the variance in the observed values of the dependent variable is explained by the model, and 32% of those differences remains unexplained by the model.

Some of the error is random, and no model will explain it. A particular buyer might value a certain feature of a house (a basement rec room, a loft, etc.) more than other people because it reminds her of her grandmother's house where she played as a child.

This can't be observed or measured, and these types of effects will vary randomly and unpredictably.

Each independent variable has another number attached to it in the regression results... its "p-value" or significance level.

The p-value is a percentage. It tells you how likely it is that the coefficient for that independent variable emerged by chance and does not describe a real relationship.

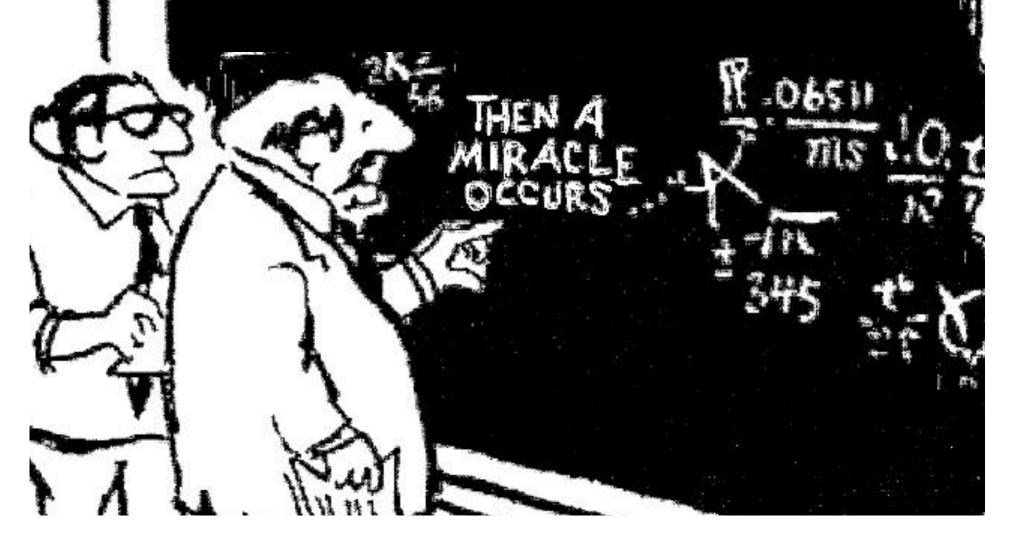
A p-value of .05 means that there is a 5% chance that the relationship emerged randomly and a 95% chance that the relationship is real.

It is generally accepted practice to consider variables with a p-value of less than .1 as significant, though the only basis for this cutoff is convention

Some reminders for using regression:

- 1. Use a large sample size more data is better
- 2. R-squared is really relevant to adjustment coefficients
- 3. Don't try to include every variable

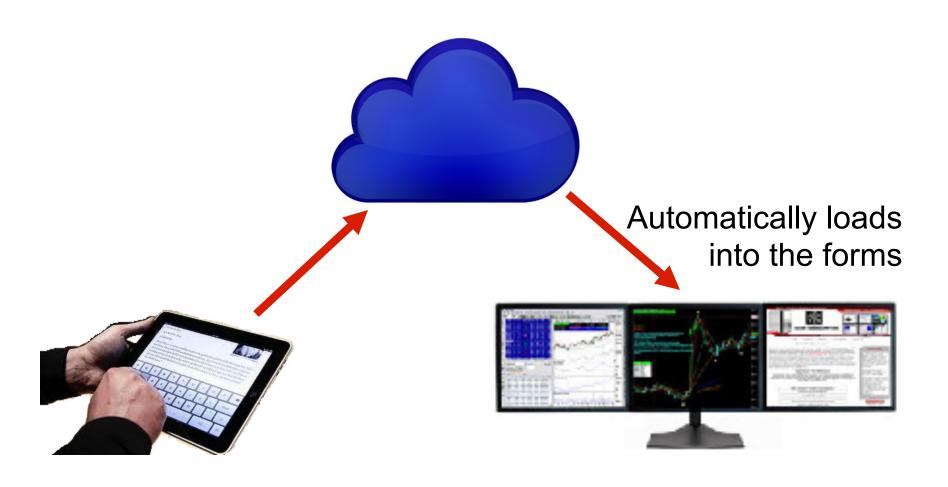
HOW DO WE COMPETE?



Is Mobile Computing the Answer?



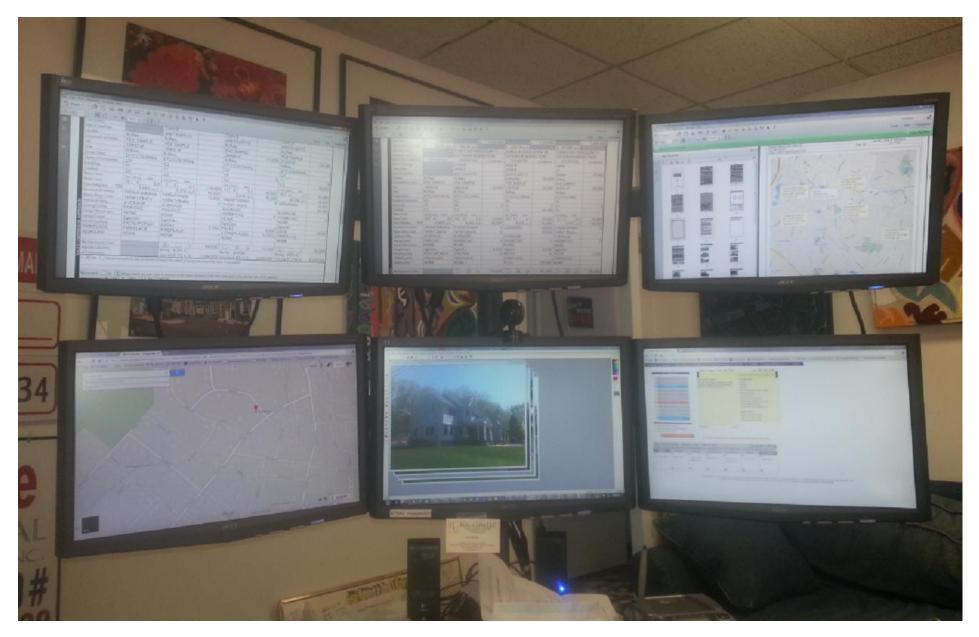
More Efficient Inspections



Fill Out the URAR on a Tablet

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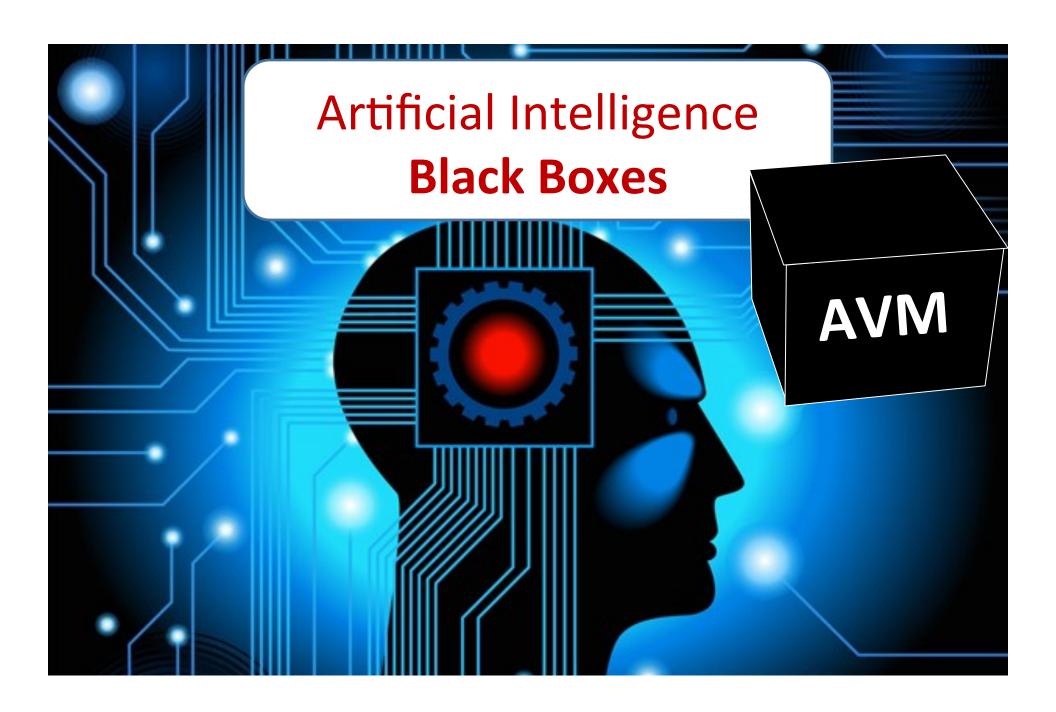
See More, Do More - Quicker



Partner with an AVM?

AVMs: Hop on board or get left behind?





Artificial Intelligence



Artificial vs Augmented Intelligence

VS



Computer



Computer







Computer directed



+

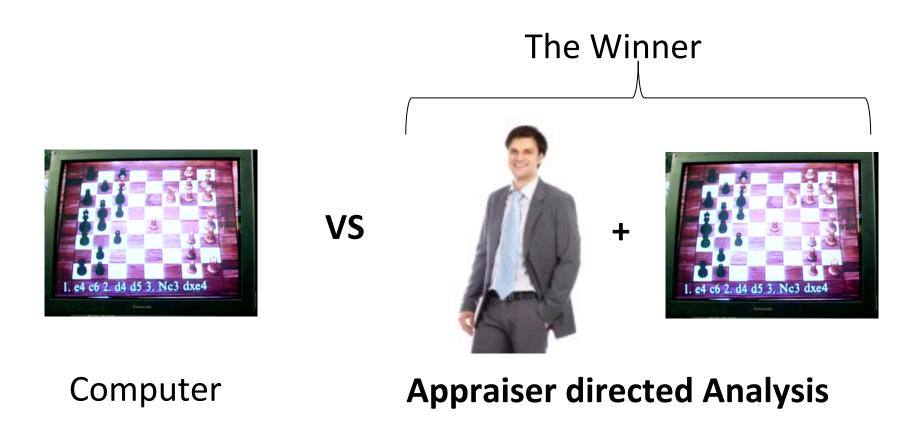


Human directed

Artificial vs Augmented Intelligence



Computer-Aided Appraising

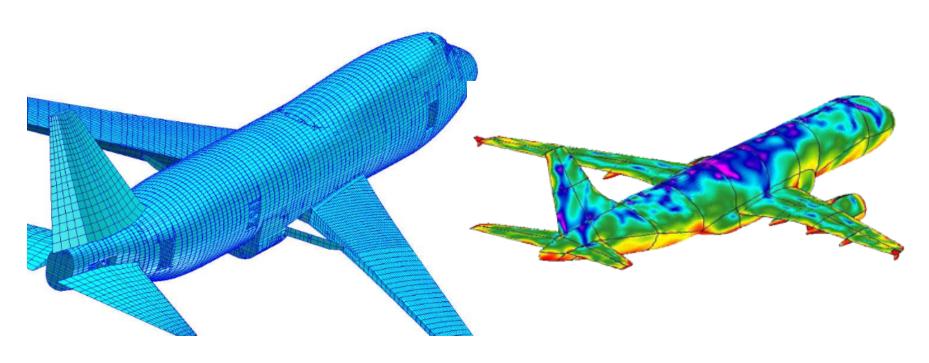


The answer is...



Computer-Aided Engineering

Helped engineers solve problems that were previously unsolvable



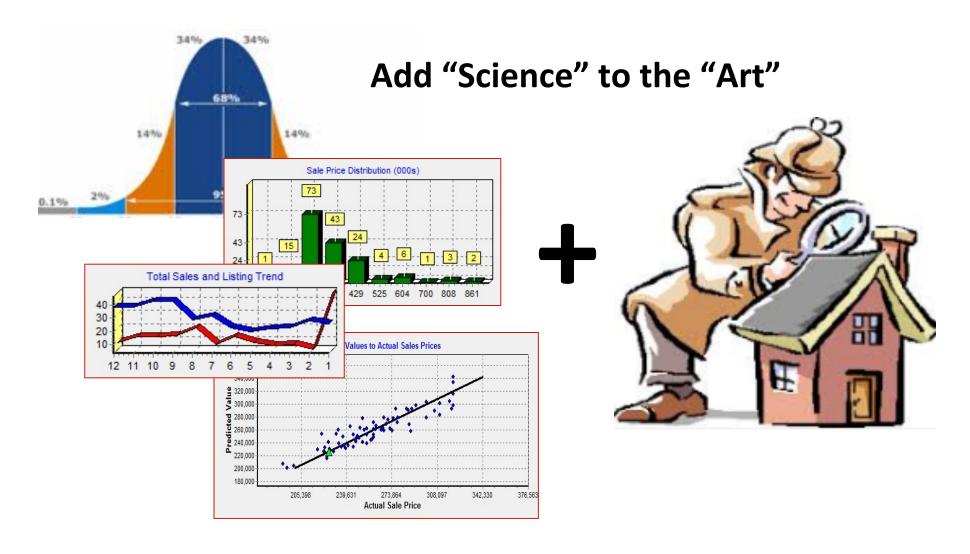
Computer-Aided Design

Helped architects design structures that were previously not buildable

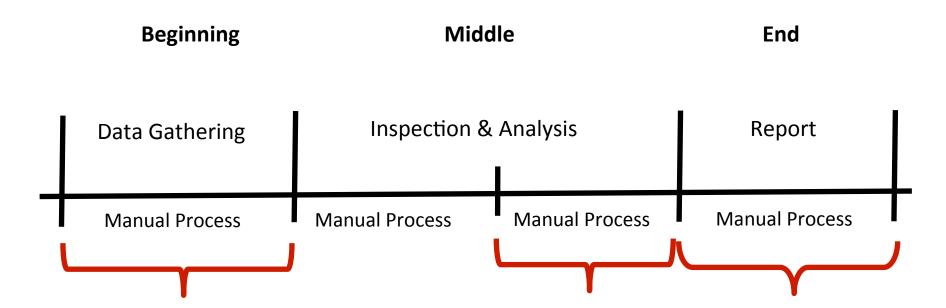




Computer-Aided Appraising



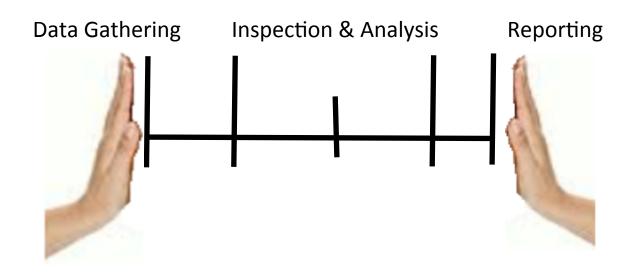
Typical Appraisal Process



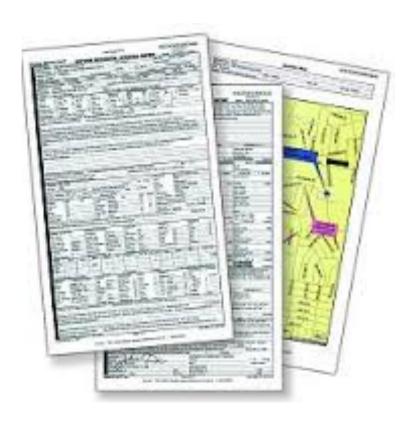
4- 6 Hours + Inspection = 1 Day

Computer-Aided Appraising

Shortens the Entire Valuation Process

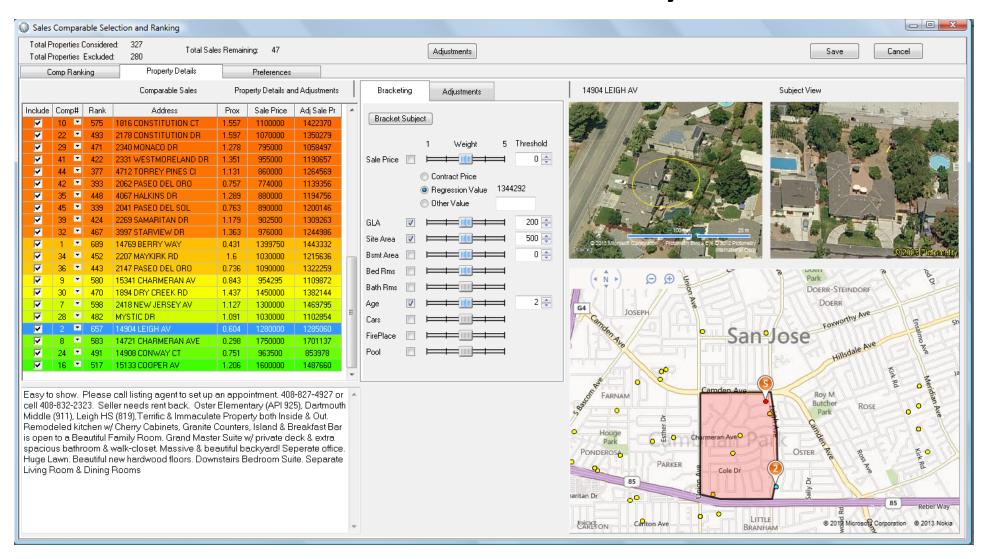


Instead of Form Filling...

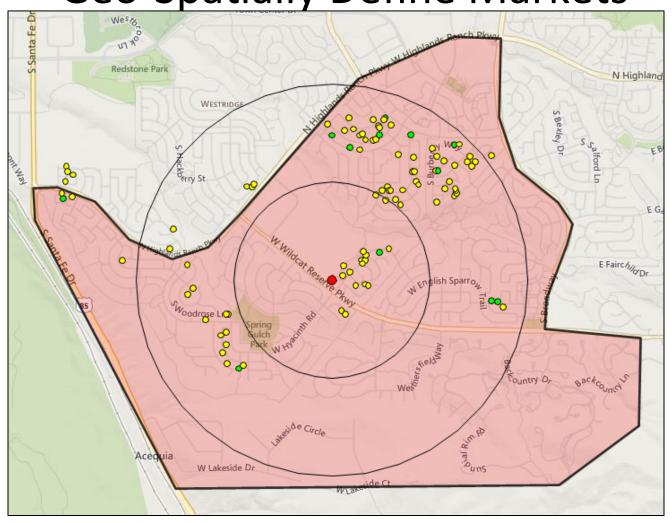




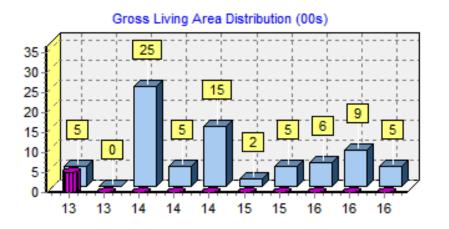
Focus on the Analysis

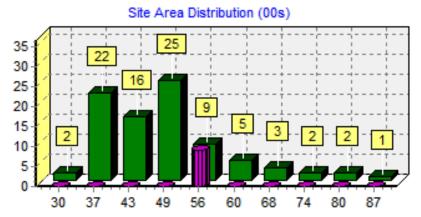


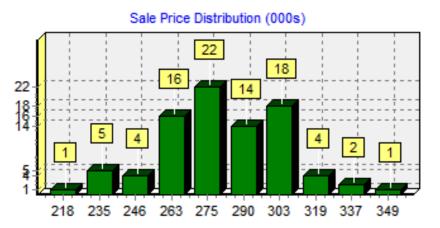
Geo-Spatially Define Markets

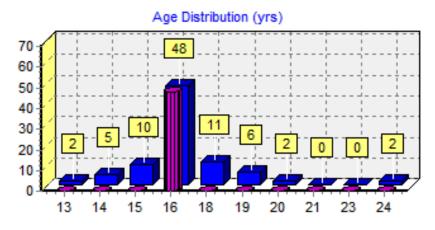


Easily Calculate Market Features

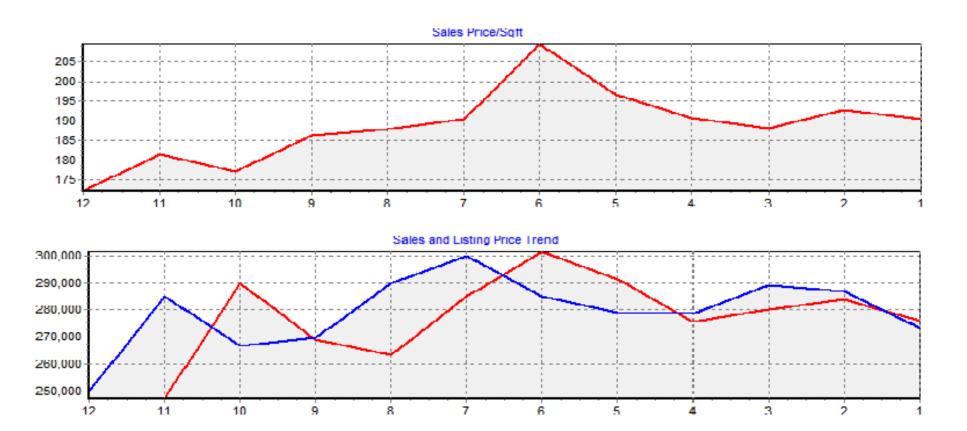




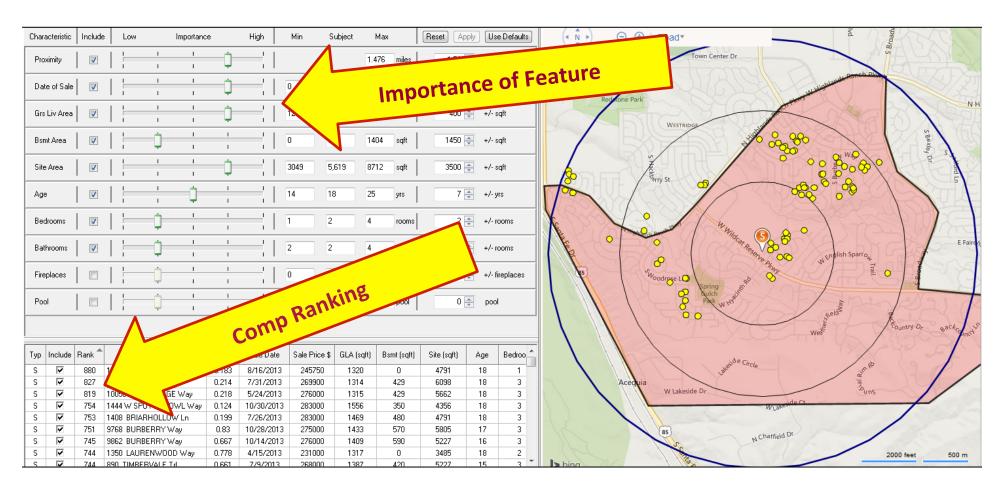




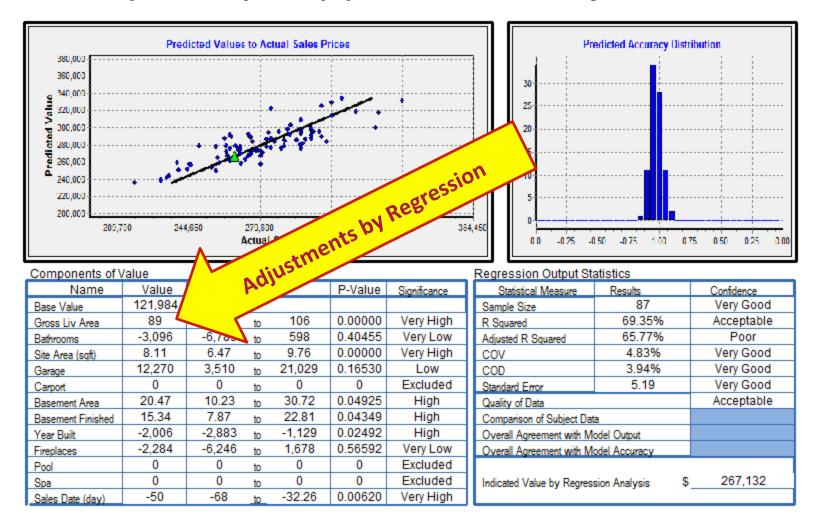
Quickly Calculate Market Trends



Analytically Support Comp Selection



Analytically Support Your Adjustments



Get Rid of This



Reduces This

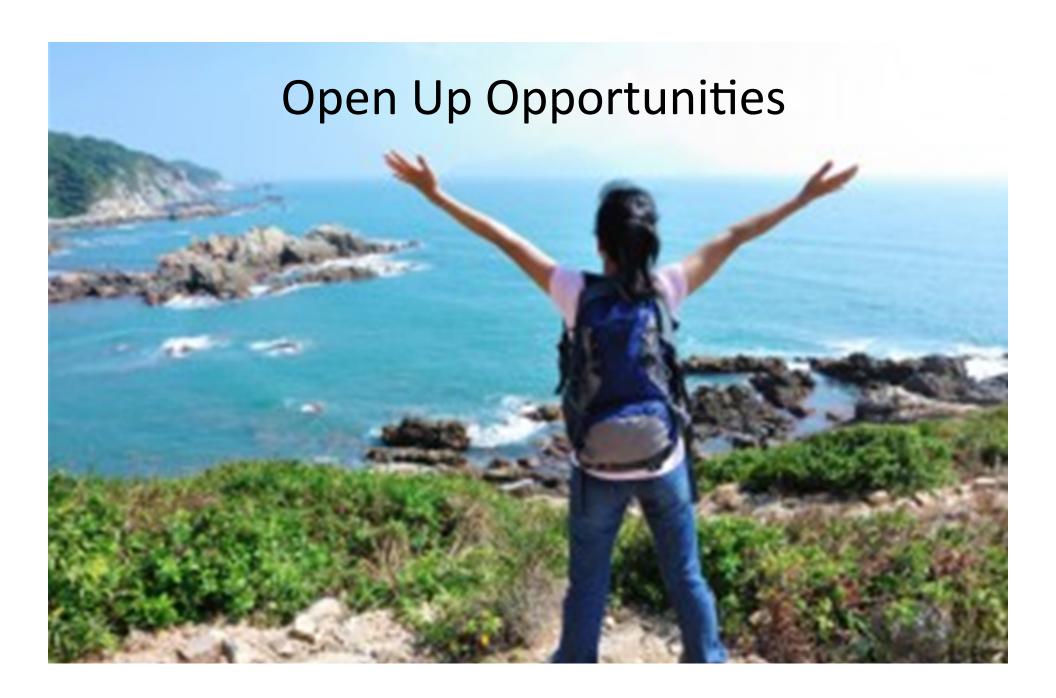


Build Stronger Appraisals Faster



Level the Playing Field





Attract New Appraisers





A PICTURE IS WORTH A THOUSAND WORDS Or maybe a thousand words are not enough?



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Cool Tools Blog



Credits

Thanks to the following for their help with this presentation. All Patents, Trademarks, and Copyrights are used with their permission.

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THE END

THE END

Imagine, Innovate and Change your world

Lender Letter LL-2015-02

- CU is a Fannie Mae-only risk management tool
- CU does not accept or reject appraisal reports or characterize an appraisal as "good" or "bad."
- The lender is not obligated to "clear" or "override" the CU messages.
- CU does not provide an estimate of value to the lender.

Lender Letter LL-2015-02

- CU's selection of comparable sales is based on physical similarity, time and distance
- CU takes location into account using Census Block Group levels, which are subsets of Census Tracts
- Fannie Mae is not suggesting that appraisers use Census Block Groups to define comparable search areas, but appraisers remain responsible for indicating when comparables are from outside of the subject neighborhood

Lender Letter LL-2015-02

 Although the lender may use output from Collateral Underwriter to inform its dialogue with appraisal management companies and appraisers regarding appraisals they supplied, the CU license terms prohibit providing these entities with copies or displays of Fannie Mae reports that contain CU findings, including without limitation the CU Print Report, the UCDP Submission Summary Report, or any other CU report

Lender Letter LL-2015-02

- Fannie Mae does not instruct or suggest to lenders that they ask the appraiser to address all or any of the 20 comparables that are provided by CU for most appraisals
- It is also not Fannie Mae's expectation that appraisals should contain only CU's top-ranked comparable sales.
- Before asking the appraiser to consider any alternative sales, it is imperative that the lender analyze the relevance of the sale and determine if the use of such sale would result in any material change to the appraisal report.