BECOMING A MOBILE ASSESSOR

MAAO Fall Conference Duluth, MN

DANIEL T. ANDERSON PRESIDENT DATA CLOUD SOLUTIONS, LLC.

AGENDA

- Discussion What is a field optimized mobile solution?
- Desirable Features
- Demonstration
- Client Stats & ROI
- Integrated tools
- Questions?

WHAT IS A FIELD OPTIMIZED MOBILE SOLUTION?

- Going "mobile" or "paperless"?
- Risks and benefits of going mobile
- Qualities of a **field optimized** mobile solution

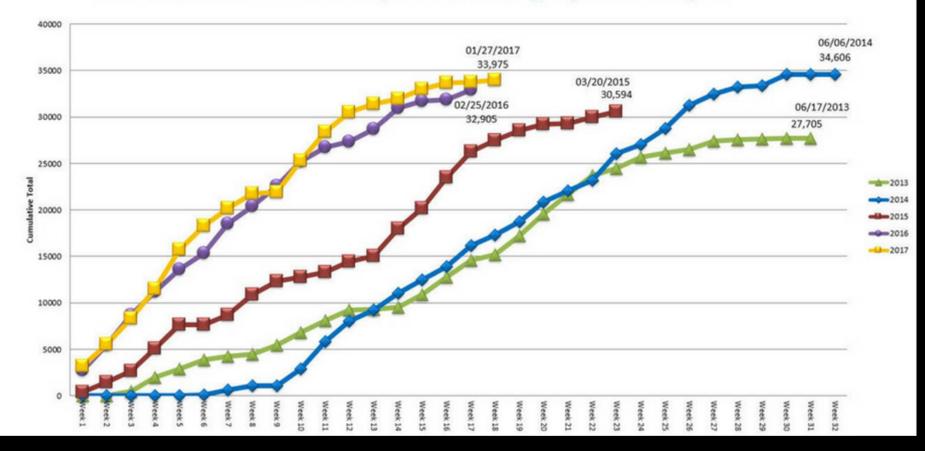
DESIRABLE FEATURES

- Optimized & Dynamic Routing
- Instant Photo Association and Synchronization
- Easy Touch-Screen Sketching
- Real-Time Quality Control
- Monitor Productivity (automated reporting)
- No check-in / check-out
- Integration with Leading 3rd Party Tools
- Easy Management of Work Assignments

DEMONSTRATION

CLIENT STATS & ROI

Residential Fieldwork - Field Checks Completed and Data Changes Input into CAMA System



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Field Checks Completed by Appraisers				Data Entry of Changes Completed and Keyed into PACS								
Timeframe	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	Timeframe	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	Difference
Method	Paper	Paper	iPad	iPad	iPad	Method	Paper	Paper	iPad	iPad	iPad	2017 vs 2016
Through Week 1	951	896	1,287	2,927	3,221	Through Week 1	2	16	428	2,724	3,221	497
Through Week 2	3,727	2,154	3,111	5,544	5,519	Through Week 2	18	16	1,428	5,417	5,519	102
Through Week 3	4,431	3,692	4,915	8,915	8,333	Through Week 3	505	16	2,628	8,695	8,333	-362
Through Week 4	5,496	5,054	6,513	11,636	11,509	Through Week 4	1,954	16	5,061	11,216	11,509	293
Through Week 5	7,449	6,709	8,101	14,718	15,723	Through Week 5	2,895	16	7,642	13,630	15,723	2,093
Through Week 6	9,041	8,634	8,696	15,506	18,312	Through Week 6	3,866	125	7,661	15,319	18,312	2,993
Through Week 7	11,148	10,037	11,201	18,549	20,191	Through Week 7	4,280	613	8,687	18,522	20,191	1,669
Through Week 8	11,148	11,085	12,777	20,756	21,749	Through Week 8	4,445	1,094	10,905	20,371	21,749	1,378
Through Week 9	13,636	12,771	15,005	22,707	21,891	Through Week 9	5,419	1,095	12,329	22,580	21,891	-689
Through Week 10	15,155	14,868	15,335	25,296	25,286	Through Week 10	6,786	2,918	12,765	25,234	25,286	52
Through Week 11	15,155	17,878	15,545	26,764	28,416	Through Week 11	8,104	5,828	13,305	26,695	28,416	1,721
Through Week 12	15,947	17,909	16,774	28,032	30,494	Through Week 12	9,223	8,003	14,423	27,336	30,494	3,158
Through Week 13	16,855	18,952	18,767	29,538	31,403	Through Week 13	9,281	9,223	15,008	28,681	31,403	2,722
Through Week 14	the second s	20,607	20,831	31,743	31,948	Through Week 14	9,521	11,019	17,948	30,984	31,948	964
Through Week 15	18,559	23,092	23,651	31,929	33,006	Through Week 15	10,866	12,460	20,161	31,685	33,006	1,321
Through Week 16	19,573	25,608	26,870	32,905	33,673	Through Week 16	12,739	13,898	23,483	31,833	33,673	1,840
Through Week 17	20,428	27,549	29,249		33,725	Through Week 17	14,571	16,137	26,257	32,905	33,725	820
Through Week 18	23,483	29,489	30,594		33,975	Through Week 18	15,190	17,311	27,484		33,975	
Through Week 19	25,112	30,776				Through Week 19	17,195	18,733	28,573			
Through Week 20	26,204	31,466				Through Week 20	19,568	20,851	29,213			
Through Week 21	27,705	32,156				Through Week 21	21,658	22,082	29,277			
Through Week 22		32,876				Through Week 22	23,680	23,210	29,988			
Through Week 23		33,741				Through Week 23	24,474	26,030	30,594			
Through Week 24		34,606				Through Week 24	25,688	27,047				
Through Week 25						Through Week 25	26,141	28,770				
Through Week 26						Through Week 26	26,531	31,237				
Through Week 27						Through Week 27	27,380	32,474				
Through Week 28						Through Week 28	27,524	33,251				
Through Week 29						Through Week 29	27,631	33,379				
Through Week 30						Through Week 30	27,699	34,584				
Through Week 31						Through Week 31	27,705	34,601				
Through Week 32						Through Week 32		34,606				
				Last Date			6/17/2013	6/6/2014	3/20/2015	2/25/2016	i	

ANNUAL SAVINGS

YEAR #1

Item	Cost Estimate	Total Cost Savings
Print field cards & building permit details	.097 per page	\$5,936
Personnel cost for print and organize	40 hrs @ 17.50	\$700
Print maps – consumables		\$1,500
Print maps – personnel	80 hours @ \$18.27 per hour	\$1,462
Labor – data entry – clerical staff input	8 people, 30 weeks, \$16.87 per hr	\$161,952
Labor – appraisers – fieldwork processing and photo upload	30 Appraisers @ \$23.57 per hr @ 16 hrs per week for 18 weeks	\$203,645
Labor – appraisers – finishing field effort 6 weeks early	30 Appraisers @ \$23.57 per hr @ 40 hrs per week for 6 weeks	\$169,704
	Cost Savings	\$544,899

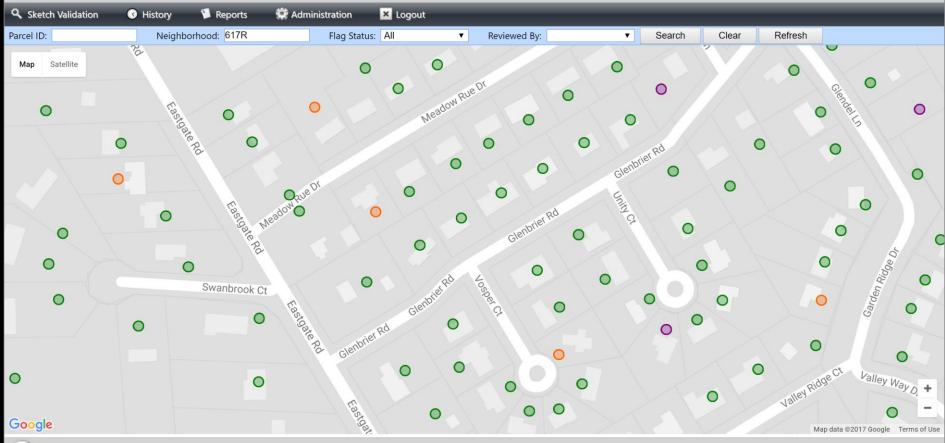
- Approximately \$1.65 per parcel in the 1st 12 months.
- After 2-3 years of use, savings are now over \$4.00 per parcel.
 - Each year, not cumulative.

INTEGRATED TOOLS

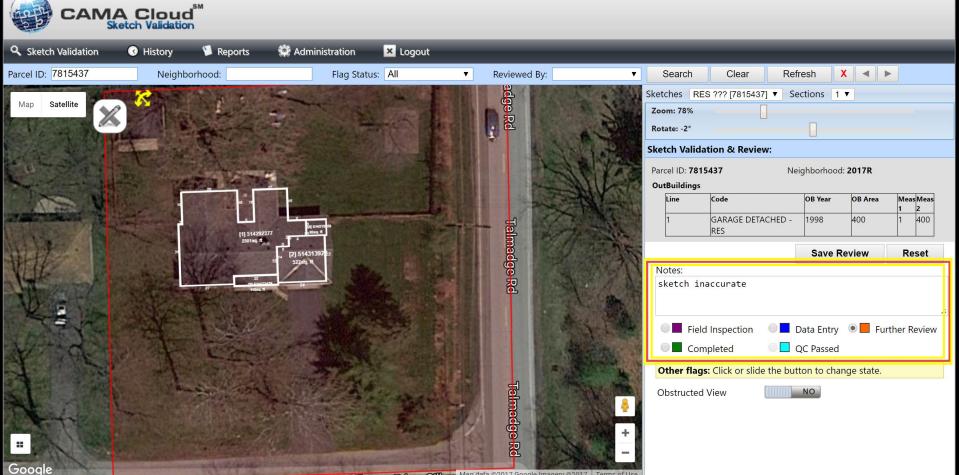
- Sketch Validation
- DeskTop Review
- Comparable Properties
- MRA

SKETCH VALIDATION





SKETCH VALIDATION



Cilbourco Dd Cilbon Map data ©2017 Google Imagery ©2017 | Terms of Use

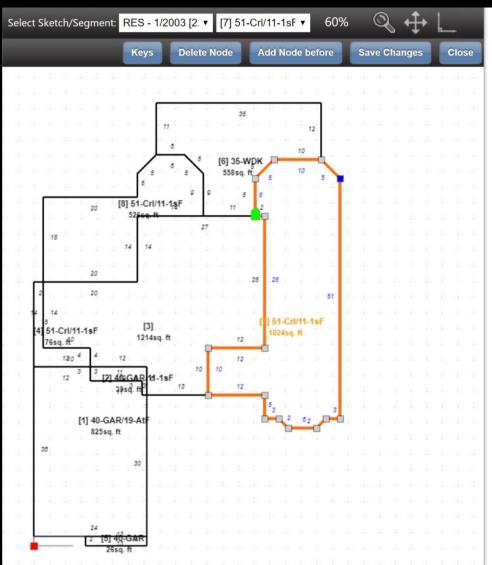


SKETCH VALIDATION

CAMA Cloud Sketch Validation									
Sketch Validation	History	🧐 Reports	🔅 Administration	× Logout					
Sketch Valida	tion Re	ports							
Select Report:		I4 4 1	of 31 🕨 🔰 💠	Find Next	4 ,• (\$)				
Parcels for Further Review	/		FOF	R FURTHER REVI	EW - SKETCH VALIDATION	<u>^</u>			
Report Parameters:		Neighborhood	Parcel Number	Street Address	Reviewer's Note				
David Flams		1013R	8369534	6149 HOLLIDAY DR	Rear addn missing, carport/porch?				
Parcel Flags Field Inspection	•	313R	2315724	3124 BROCK DR	Add on to the house?				
Neighborhood		617R	2008852	1574 PARK RIDGE LN	Sketch Inaccurate				
Select	▼	404R	0460181	1490 FOSTER AVE	large unidentified building.				
User		313R	2315634	3239 BROCK DR	No Sketch				
Select Parcel Number	•	617R	1455594	1638 FALLBROOK RD	Sketch Inaccurate - WDDK turned into sun room				
		617R	1455604	4499 MEADOW CREEK CT	Sketch Inaccurate				
		313R	2315657	3211 BROCK DR	Sketch inaccurate				
Generate Report		313R	2335907	3163 KEEMONT DR	Sketch Incorrect				
		617R	2058434	1666 GLENFIELD LN	Sketch Inaccurate				
		313R	2324474	3014 EDGEBROOK DR	Sketch inaccurate				
		313R	2324484	2966 EDGEBROOK DR	Sketch innaccurate				
		315R	2359874	2031 ROANWOOD DR	no sketch!	•			





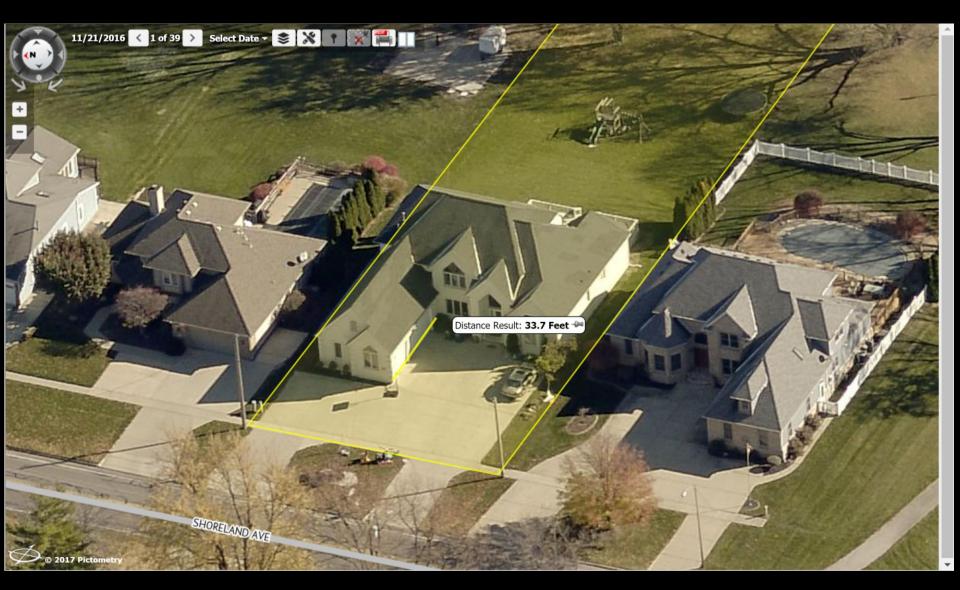




Select All

Parcel Photos - showing 1 of 1





Save Changes	Close		Set As Not Reviewed	Reject	Previous Parcel	< 17 of 71304 >	Next Parcel		
		1111 NAVARRE AVEProperty ID0100407NOT SET	ROVE Soft Re	ject	Selected Estimate	: Not Selected	¥		
Dashboard P	arcel Data	Digital PRC Sketch G	IS Map View Audit Trai	Parcel Ph	notos				
Dwelling							6		
Parcel Identification	n	Showing record		Delete		AUXRO	WUID : 17437		
Owner		Main SH : *	6 - TWO STORY		Click on the appropriate value to select the app one. You may also select/enter a new value if re				
Sales		Max SH : Attic :	6 - TWO STORY			5: BELOW AVERAG			
Land		Construction (ExtWall) :	1 - NONE 3 - METAL/VINYL		Date C	nanged by New Va			
Dwelling		Condition (CDU) : *	3: AVERAGE		▼ 5/24/2017 E	Sugg <u>3: AVE</u>	<u>KAGE</u>		
ОВҮ		Style :	17 - OTHER - Standard C		· □				
Entry		Year Built : *	1907						
Value Summary		% Complete :	100						
Commercial Buildir	ngs	Grade :	16 - D+		▼ !				
Legal Information		Remodeled (Year) :							
Permits		Degree Remodeled :			T				
Temporary Notes		Remodel :	0 - MISSING		▼				
		Total Rooms :	5						
		Bedrooms :	2						
		Full Bath :	1						
		Light Daths	0						

Save Changes	Close		Set As Not Re	viewed	Reject	Previous Pa	arcel	< 1 of 1 >	Next Parcel
		2314 SHOR Property ID 2288831 NOT SET		ROVE	L	esk Review Stati ast QC Reveiwed Reject			V
Dashboard Pa	arcel Data	Digital PRC	Sketch GI	S Map Viev	v Audit T	Trail			
Residence									
Property Situs & Legal	Information		Showing record	1 of 1	► ► X	Delete			AUXROWUID : 674
Owner Information		CLASS : *		Residentia	I	▼			
Site Details & Value Su	mmary	STRAT : *		Improvem	ent	•			
Influences		Occupancy : *	* 1 Stor			•			
Land Subs		Grade : *	Grade : *		95 🔻				
Conservation Use (CUV	/)	Heated Area :		1,440					
Permits		Year Built : *		1970	1970				
Sale Information		Effective Yr Blt :		1965			\checkmark		
Residence		Condition : *		Good		•	\checkmark		
Accessories		Foundation : *		Concrete	Block	▼			
Commercial Improvem	ents	Ext Walls : *		Frame		•			
Comments & Appraiser Log		Roofing : *		Composition Shng 🔻					
Assessment Reason		Roof Shape : *		Gabel/hip					
Appeals		Floor Construction	1: *	Wood Jois Carpet / V		•			

QUESTIONS?