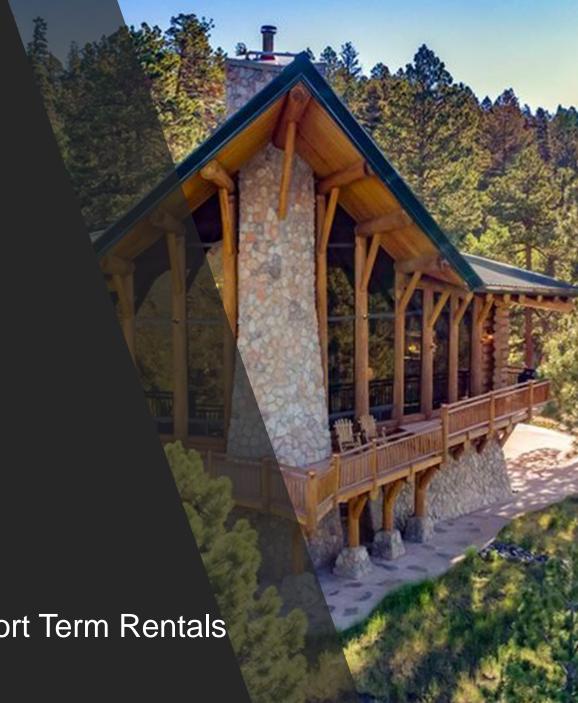
# Webinar

**HARMARI** 





Identify and Monitor Short Term Rentals

## Introduction



LTAS Technologies Inc., was founded in 2011.



First customer was DMV and Law Enforcement



Expanded into fraud detection for Tax, Insurance and retail. Over 150 LEO, Government, Insurance, retail customers in US and Canada.



Currently Manage 35,000 + STR locations

## **Core STR Services**



## Identification and Monitoring STRs

- Establish an inventory of unique identified properties based on the shapefile of any given territory
- De-duplication Harmari uses proprietary matching technology to identify duplicate listings
- Harmari STR executes STR listing data collection 4 times per week, once in each of the four-time intervals: Weekday, Weeknight, Weekend-day, and Weekend-night
- Reports and Dashboards

### How we do it!

#### Establish Nexus with the Jurisdiction

Need Exact Address (AirBnb scatters location 0.3 mi) Need Shapefile from GIS department

#### **Estimated Minimum Taxable Sales**

Must factor in statute limitations (e.g. 3 years + current)

Num-Reviews \* Minimum-Nights \* Avg-Nightly-Rate Calendar Days Booked \* Avg-Nightly-Rate

#### Cross-check existing licensee list

Property Manager or Owner/Operator
Current or Expired license
Un-registered or Under-reporting Taxpayer

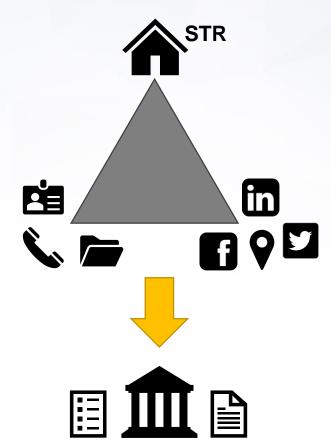
## **Identification Process**



Harmari's identification process utilizes various public records and open source intelligence data

- Social Media
- Professional web pages
- Web Pages
- Property Registration

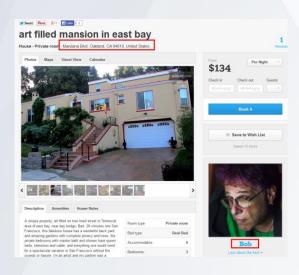
We establish two confirmed data points to verify each STR property.



## **Property Records**



Google Street View
Geotagging latitude / longitude
Bing Maps for rural properties
Social Media (same face)





## De-Duplication

# STR can be cross-listed on multiple-sites

Can use features to detect duplication

Exact / Similar pictures

Exact / Similar titles, room size, operator

name

In practice, duplication rate is

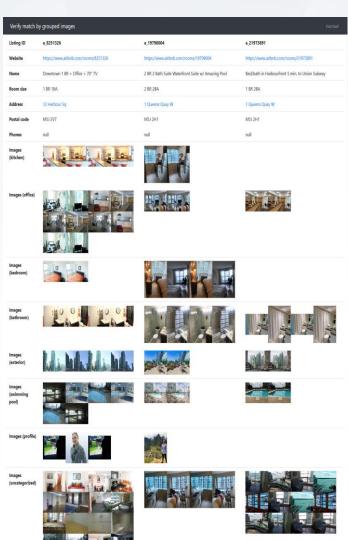
5-10% across platforms (Airbnb,

HomeAway, etc)

10-20% across platform + home-made

website (e.g. Airbnb +

bobsbeachhouse.com)



## Case History



#### Accurate Case History Evidence

STR IDENTIFICATION v 4367246ha

January 9, 2019

STATUS: 8 (Owner/Address Match)

UNLICENSED LICENSE: PERMIT:

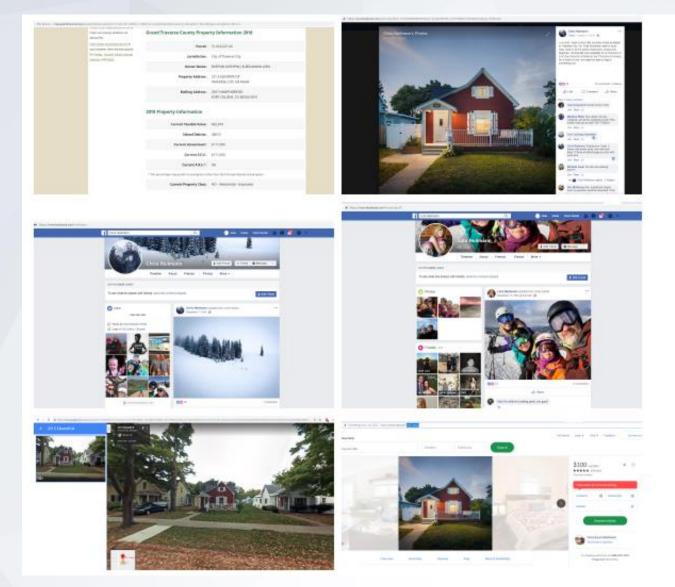
LISTING STATUS: ACTIVE on 2019-01-07 15:27:00 COMPLIANCE:

Property	Old Town Cottage in Traverse City	Listing Image
Street	221 E Eleventh St	
City	Traverse City	
State/Province	мі	
Postal Code	49684	<b>CATHOLIS</b>
Link	https://www.vrbo.com/4367246ha	
Duplicates		

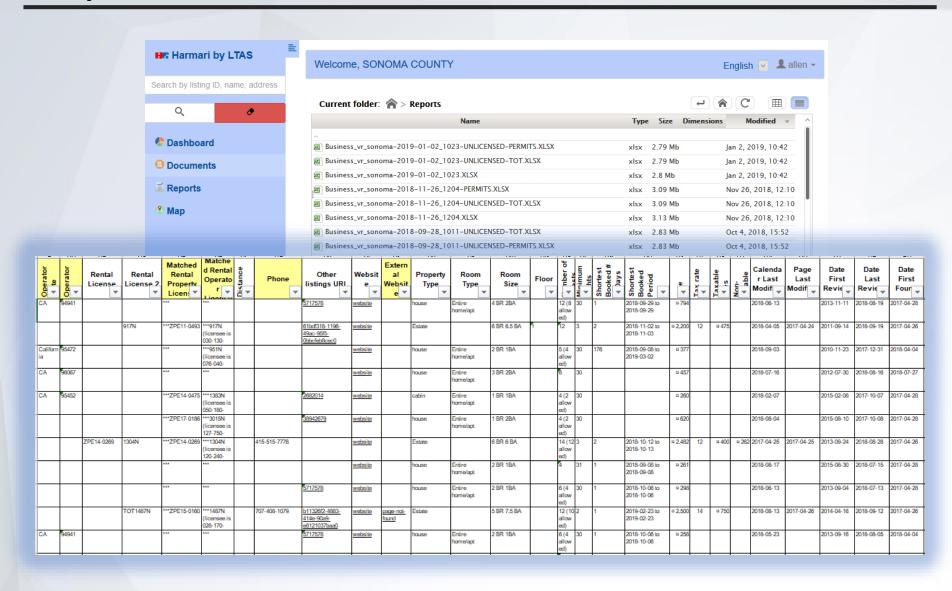
# **Supporting Evidence**

Operator	Lora Reilmann		Profile Image
Company Name			
Listing Host	Chris & Lora Reilmann		
Data Source #1			
Data Source #2	https://www.facebook.com/lora.kropp.58 https://www.facebook.com/creilmann		
Street	2507 Hampshire Rd		
Unit			Member Since
City	Fort Collins		
State/Province	со	Postal Code	80526
Data Sources	County Records Facebook Google Maps Listing		

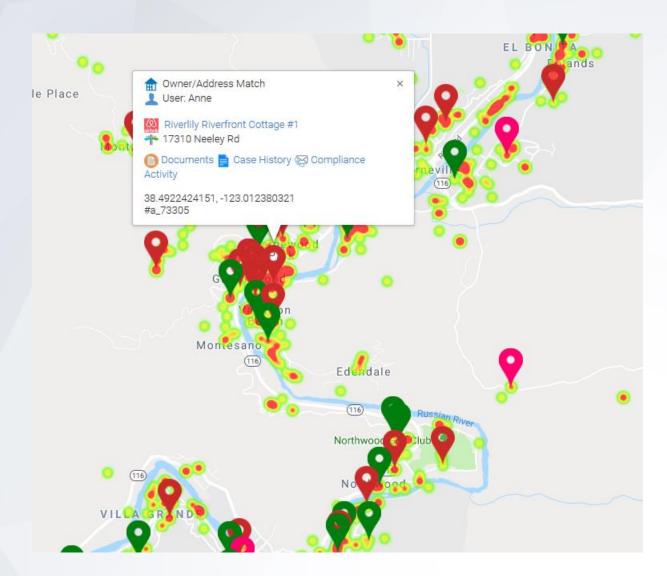
# **Supporting Evidence**



## Reports



## Mapper



# Thank you!



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#### **PRICE QUOTE for Colorado Springs, CO**

Below are costs of each component over a 3-year term (Year 2 and 3 are option years).

Costs *** All Listings ***	Initial Report/Year 1	Year 2	Year 3
Listing Detection (Airbnb, VRBO/HomeAway + Affiliates, FlipKey/TripAdvisor + Affiliates, Booking, Craigslist), Archived Listing Information, Web Portal, Dashboard Report	\$30,000	\$24,000	\$24,000
Monitoring Fee (performed weekly)	Incl.	Incl.	Incl.
Total	\$30,000	\$24,000	\$24,000

**Advanced Archiving** 

Auvanceu	Alemany	
Item	Description	Cost
Level 1	Detect websites for listings that are up/down from the previous month. Websites checked on a weekly basis staggered over day/night and over weekday/weekend. Report includes 4 columns for each time-stamp of previous 4 checks to see if listing was up/down	Included with agreement
Level 2	All features of Archiving Level 1, with additional archive folder of the date/time of check, and containing the captured listings (HTML, Images) and rendered as a PDF for each listing found each time a check is run.	\$9,000 per year
Level 3	All the features of Archiving Level 2 with additional change tracker XLS for differences between the current and previous version of the listing (tracked changes). Note there is no guarantee that the changes are attributed to the Host, and it may incorrectly flag website "layout changes" as a false positive despite nothing changing in the listing. It still requires human scrutiny and detective work to confirm which changes were due to the host.	\$13,500 per year