



# DRONE TRIAL





## TRIAL OBJECTIVES

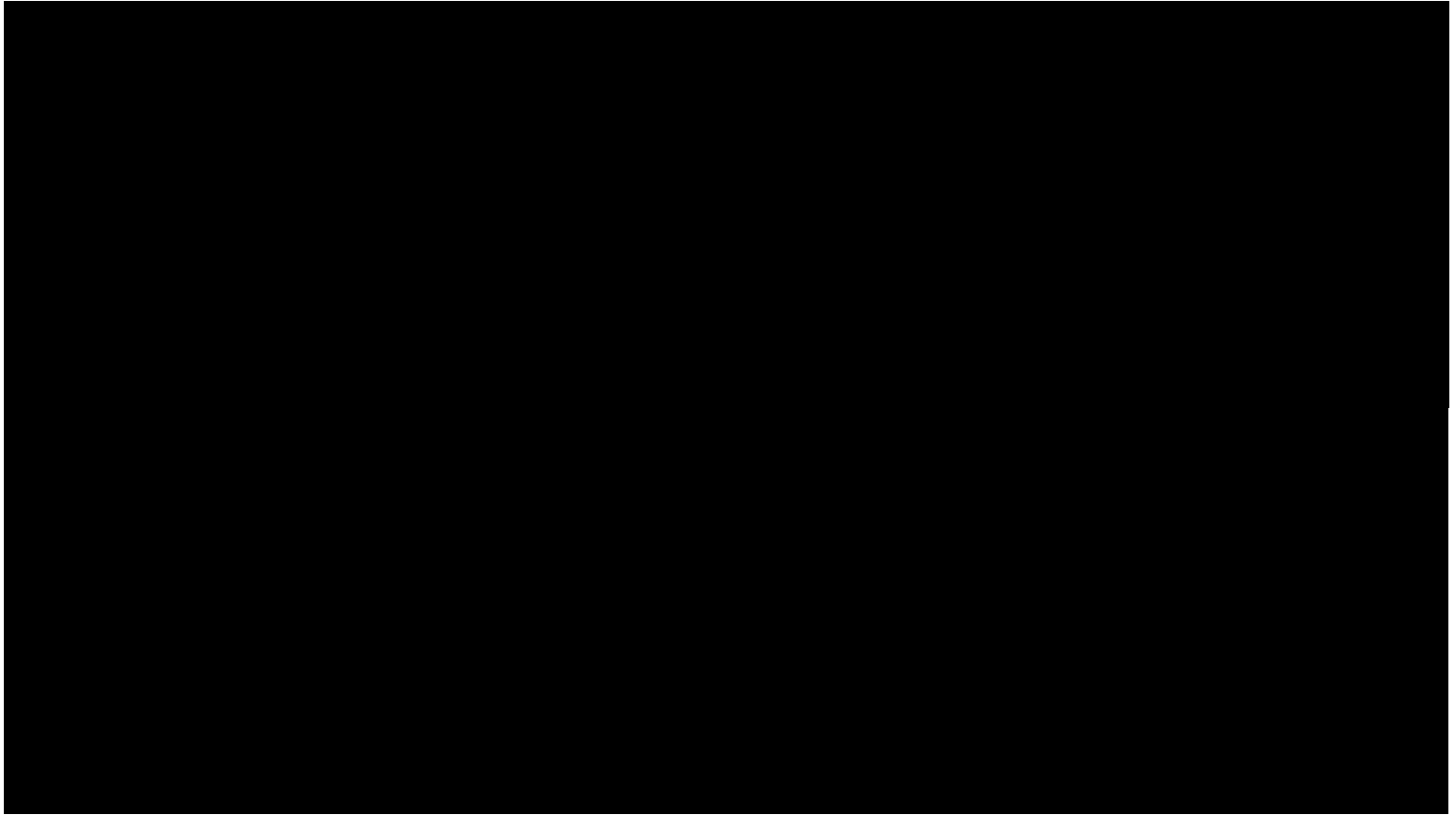


- ✈ **TO IMPROVE TIME EFFICIENCIES**
- ✈ **TO ACHIEVE BEST DATA QUALITY & ACCURACY**
- ✈ **TO REVIEW BEST OPERATIONAL PRACTICE**
- ✈ **TO DETERMINE BEST COLLECTION METHOD OF DATA**
- ✈ **TO MEET COMPLIANCE & CONDUCT**





## VIDEO SAMPLES







# MEASUREMENT



Project Process View rayCloud Help

Project: Pix4Dmapper Pro - aerial section

Unclassified Assign

Properties

Selection

mtp388 (Manual Tie Point)

$S_2^2[\text{pixel}]$ : 0

Theoretical Error  $S(X, Y, Z)[\text{m}]$ : 0.000, 0.000, 0.000

Maximal Orthogonal Ray Distance  $D(X, Y, Z)[\text{m}]$ : 0.000, 0.000, 0.000

Error to GCP Initial Position[m]: n/a

Computed Position[m]: 1010.903, 1008.401, 100.006

Label	Type	Arbitrary X [m]	Arbitrary Y [m]	Arbitrary Z [m]	Accuracy Horz [m]	Accuracy Vert [m]
0 mtp388	Manual Tie Point	1010.903024	1008.401343	100.006		

Images

Image Size Zoom Level

G0013997.JPG GCP, mtp388 G0013996.JPG GCP, mtp388

G0013976.JPG GCP, mtp388 G0013977.JPG GCP, mtp388

Arbitrary [m] - 1010.03, 1013.39, 99.69 [m]

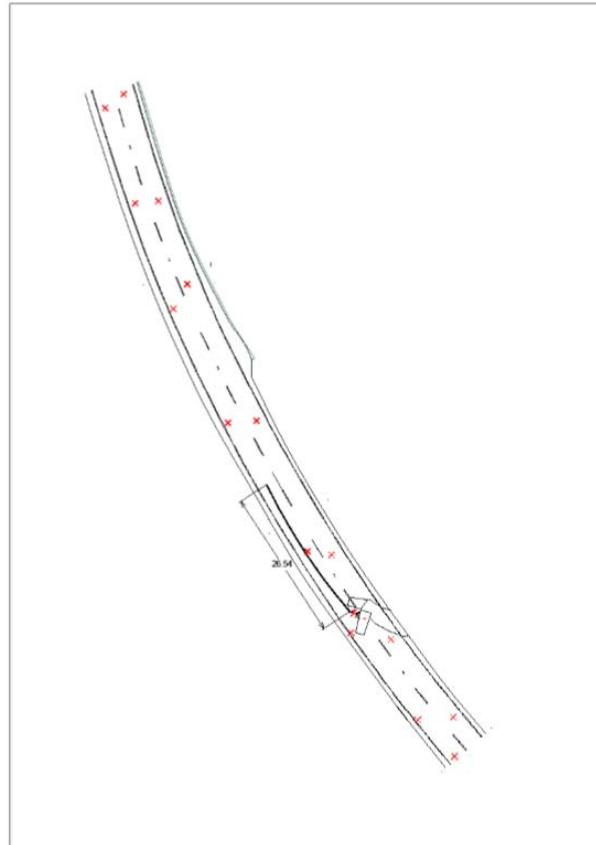
19:14 20/07/2015



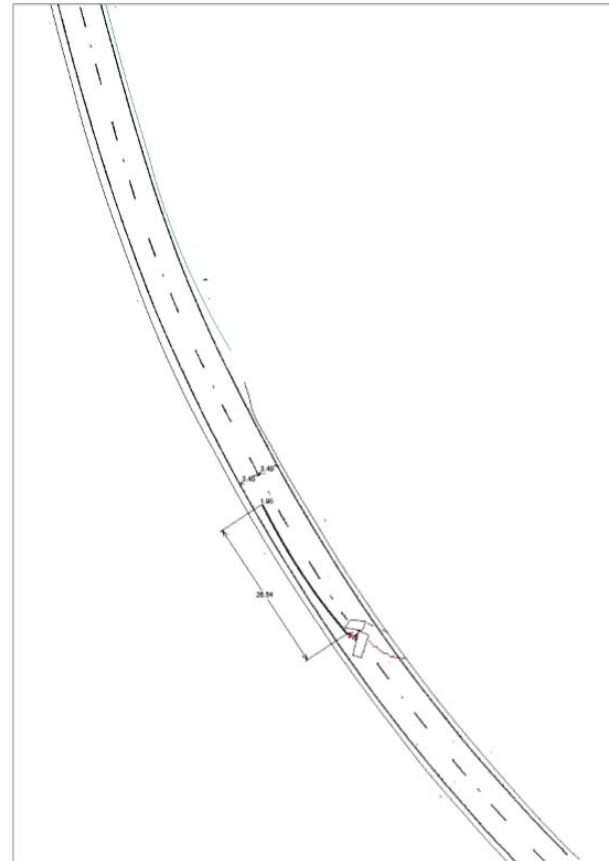


# SCENE: PATARANGI

SOKKIA MAPPED PLAN

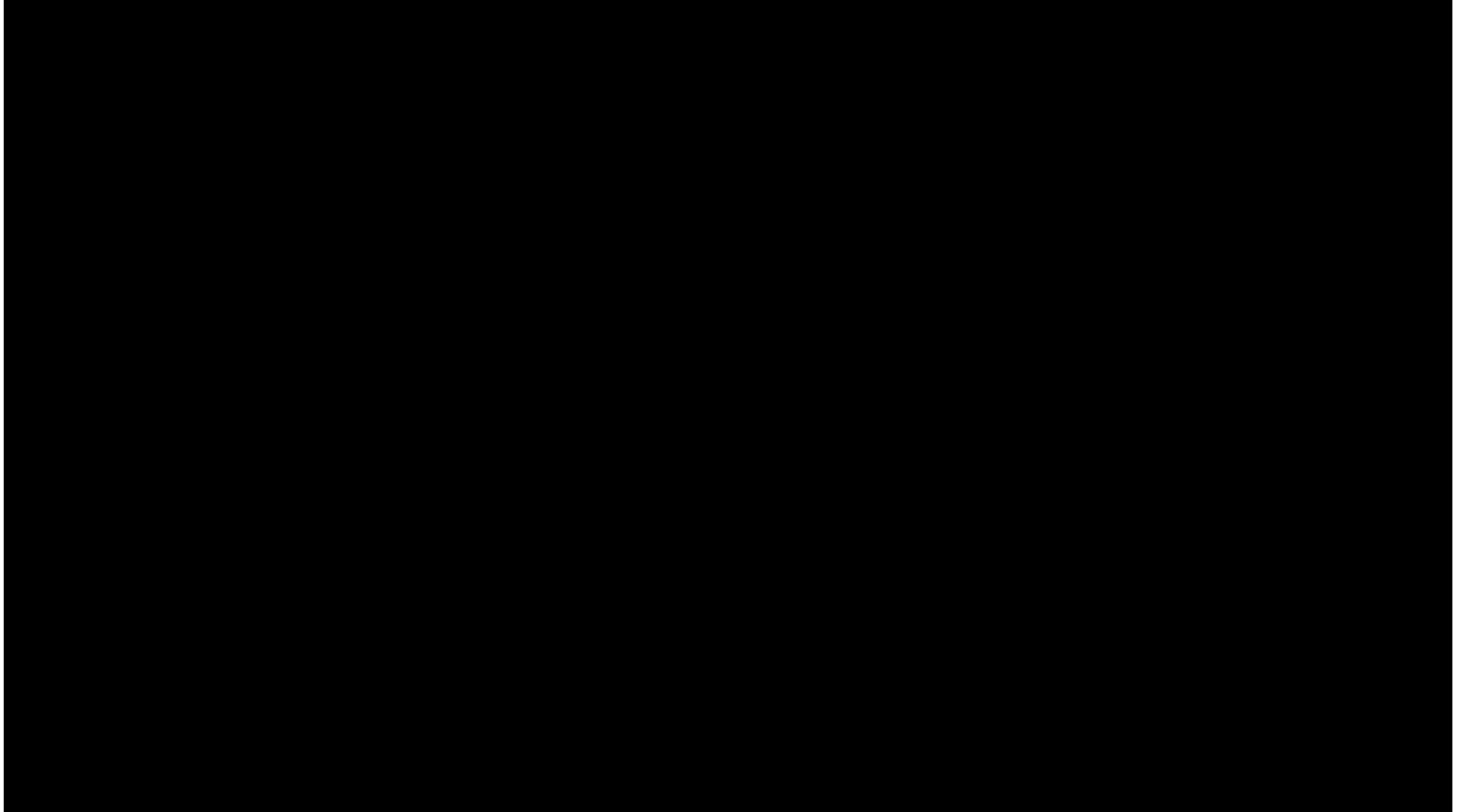


DRONE PIX4D MAPPED PLAN



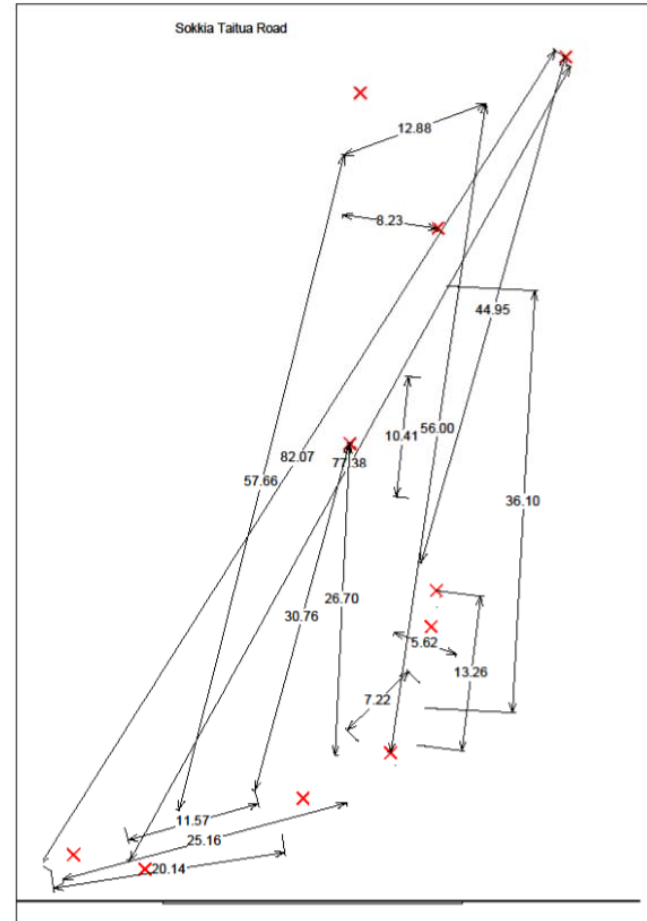
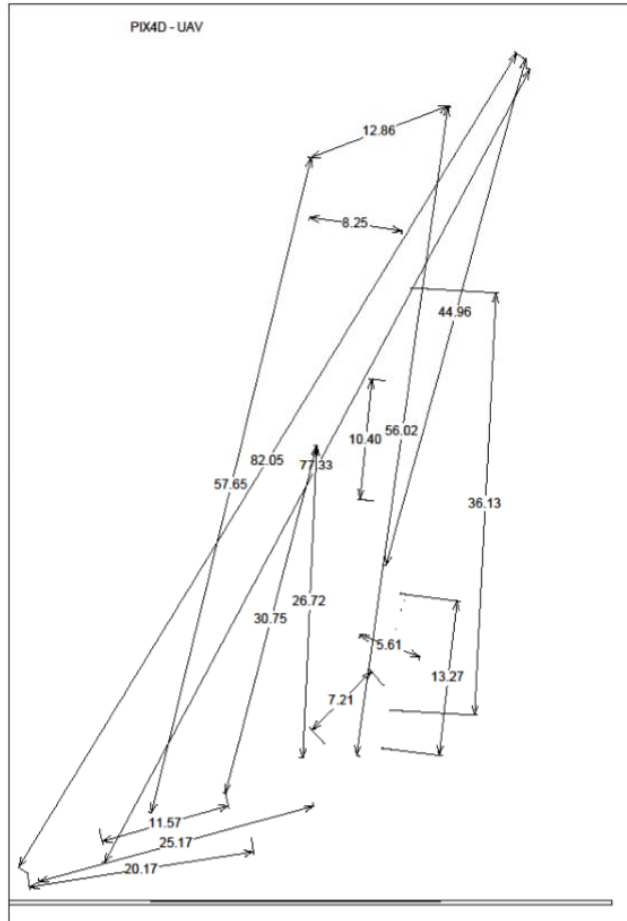


# SCENE: KOROMATU





# DATA ACCURACY







# WAIKATO ROAD TOLL

## Waikato Police District Road Toll 2011 - 2015

<u>Deaths</u>				
Year	Waikato	National	% of Nat. Toll	
2011	52	284	18.3	
2012	45	308	14.6	
2013	22	254	8.7	
2014	35	294	11.9	
2015	42	321	13.1	
Total	196	1461	13.4	
<u>Crashes</u>				
Year	Fatal	Injury	Total	State Highway
2011	44	47	91	44
2012	41	37	78	44
2013	22	50	72	35
2014	34	54	88	39
2015	39	53	92	36
Total	180	241	421	198





**QUESTIONS?**

