

Good Enough..?

Deep Thoughts from a Simple Detective



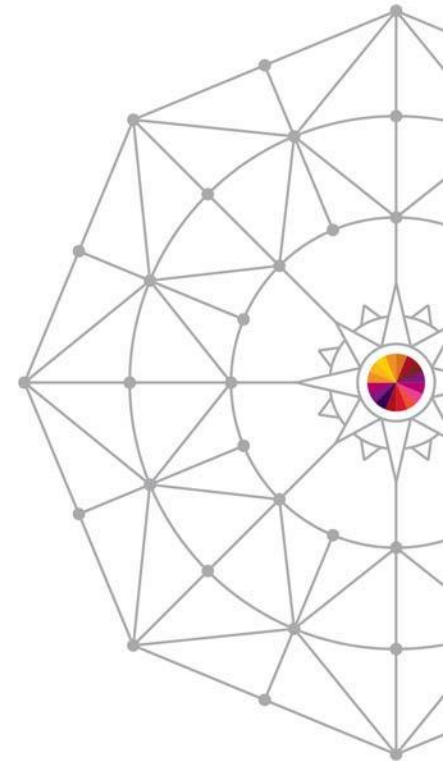
City of Pittsburgh Bureau of Police

Computer Crime Unit Detective

Christopher D. Jordan

christopher.jordan@pittsburghpa.gov

412.323.7138



Introduction:

- The fabric of our society is so interwoven with technology that major crime clearance rates resulting in successful prosecution are finally coming up to tolerable levels according FBI UCRs.
- People will tell their computer more than their wife, their priest, dog, significant other...
- The flip side to that is that technology is making the world a smaller place, bringing the bad guys closer to your valuables including your bottom line.
- Law Enforcement Officials make a living out of other's misery...
- Are we **GOOD** ENOUGH?

Thanks to all of you for doing what you do



- With Zeroes and Ones anything is possible
 - Walk into your bosses office when you return and demand a raise
- Meeting with **Paul G. Kaminski**, former Chairman of the Board at the RAND Corporation
 - Pearl Harbor type of event launched on our digital infrastructure
- Tools we have available
 - Best practices, training, cooperation, preservation letters, SW



Anything's Possible with Zeroes and Ones:

- Nation States and Unethical Hacking
- It's All About the Information – Right?
Keeping it safe
- The faces of the adversaries are changing,
and we have to constantly train new hires
to take up the fight

➤ *Nation States and Unethical Hacking*

- Can we develop encryption that can't be broken? It's a paradox. Eventually someone finds away around it especially in this day of reverse engineering. We have to be right all the time where the bad guys just need to be right once.

➤ *It's All About the Information – Right? Keeping it safe*

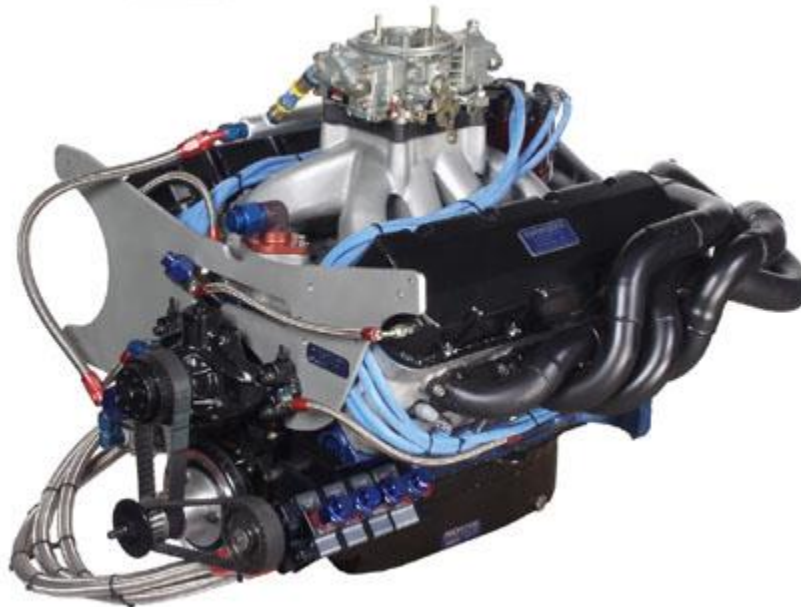
- Good enough for Government work... Walk in to your boss' office and demand a raise. In many cases law enforcement can't protect your company. You're the first line of defense. In most cases LE won't get involved until you find the problem. Log everything!

- *The faces of adversaries change as we constantly train new hires to take up the fight*
- The pimple faced kid that lived in his mother's basement may now be your boss

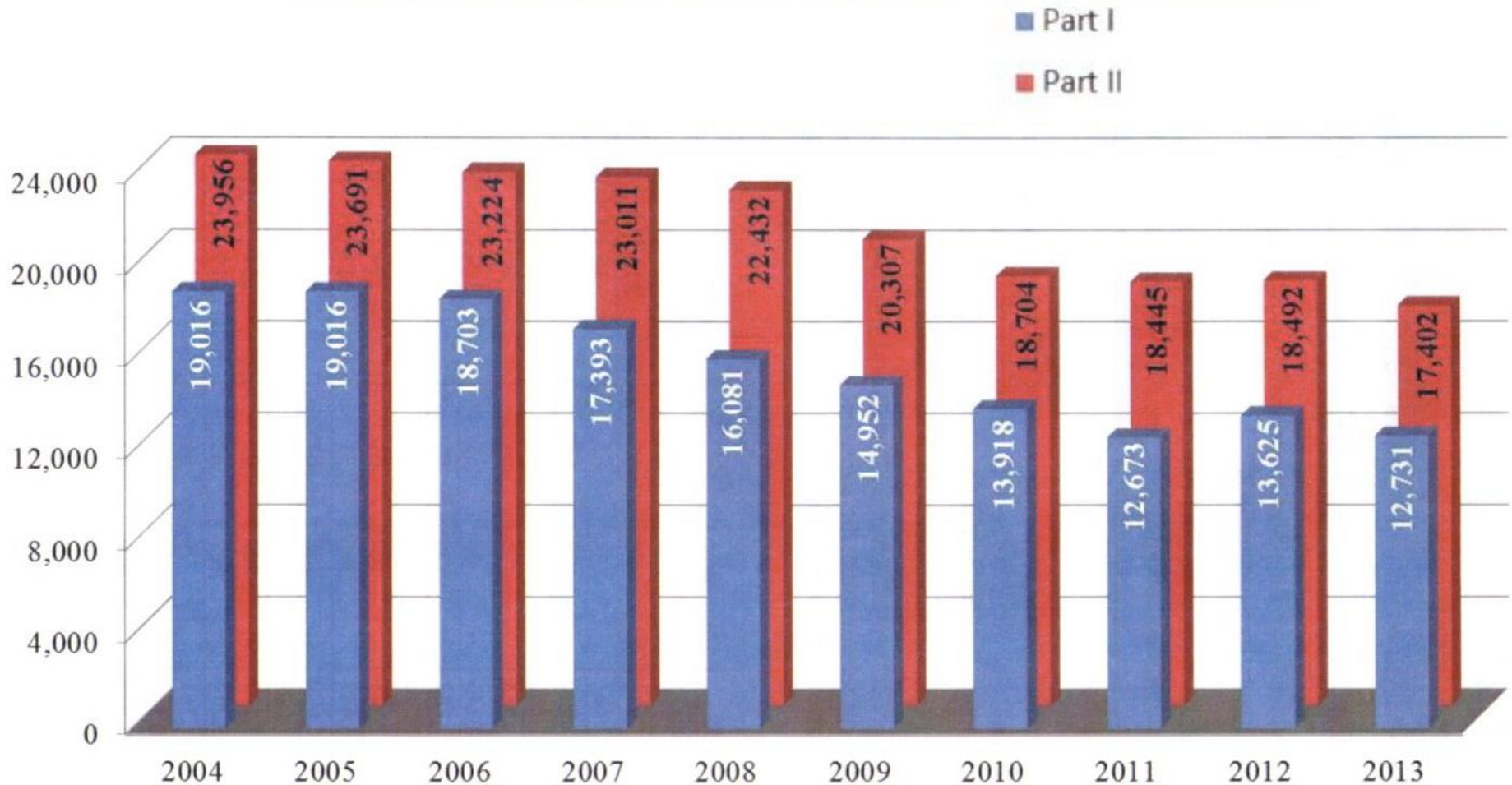
Meeting with Paul G. Kaminski from the Rand Corporation

- Pearl Harbor type of event launched on our digital infrastructure
- Because technology is so intricately woven into the fabric of our society, typical crimes are becoming more difficult to get away with
- Why sling drugs on the corner when you can commit your theft from miles away.

- *Pearl Harbor type of event launched on our digital infrastructure*
- Looking for a mechanic's mentality to be more proactive in the defense



Citywide Crime (10 years) - Parts I and II



*City of Pittsburgh Department of Public Safety Bureau of Police Annual Report 2013

Part I Crimes: Part I Crimes are 8 main offenses used to gauge the state of crime in the United States. They are:

Crimes Against People

Homicide
Forcible Rape
Robbery
Aggravated Assault

Crimes Against Property

Burglary
Larceny-Theft
Motor Vehicle Theft
Arson

PITTSBURGH Part I Offenses Known to Law Enforcement					Pittsburgh 2013 Clearance Rates	National 2012 Clearance Rates <i>(latest available)</i>
CITYWIDE	2012	2013	Change	Change %		
Homicide	40	46	6	15.0%	63%	62.5%
Rape	51	90	39	76.5%	62%	40.1%
Robbery	1,148	967	-181	-15.8%	42%	28.1%
Aggravated Assault	1,186	1,259	73	6.2%	58%	55.8%
Violent Crime	2,425	2,362	-63	-2.6%		
Burglary	2586	2,176	-410	-15.9%	23%	12.7%
Theft	7,737	7,297	-440	-5.7%	19%	22.0%
MV Theft	628	676	48	7.6%	34%	11.9%
Arson	249	220	-29	-11.6%	30%	not available
Property Crime	11,200	10,369	-831	-7.4%		
Total Part I Crime	13,625	12,731	-894	-6.6%		

➤ *Tools we have available*

- Best practices, training, cooperation, preservation letters, SW
- Demographics here in Pittsburgh
- Unit stats

- *Best practices, training, cooperation, preservation letters, SW*
- The best defense we have is sitting here in this room and organizations cooperating / Sharing the information that keeps you info safe / video surveillance / Vigilance / Well equipped/trained IT Team

➤ *Demographics here in Pittsburgh*

- Population of 305K with a metro area of 2.7M roughly according to Wikipedia
20th largest city in the US

➤ *Unit stats*

- Citywide calls for service - 230,497
- Processed reports - 84,316
- Total arrests - 18,541

763 details in our CCU log book last year

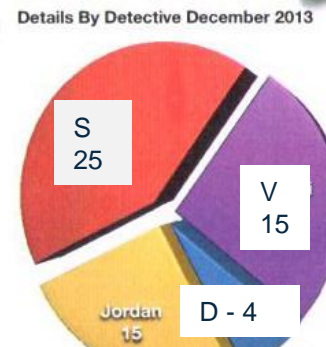


City of Pittsburgh Computer Crime Unit

Monthly Report December 2013

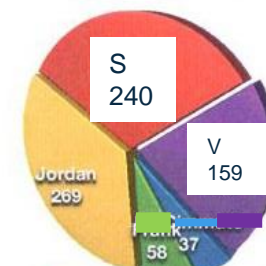


Detective	Detail	Monthly By Detective December 2013					
		Cell Phone	Computers	Total Evidence	MVR	Video Collection	Video Processing
Det D	4	0	0	0	4	0	0
Det F	0	0	0	0	0	0	0
Det Jordan	15	8	0	8	1	6	2
Det S	25	19	0	19	1	4	9
Det V	15	3	0	3	4	3	5
Totals	59	30	0	30	10	13	16

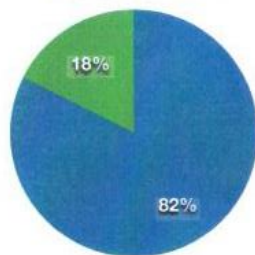


Detective	Detail	Monthly By Detective 2013 YTD					
		Cell Phone	Computer	Total Evidence	MVR	Video Collection	Video Processing
Det D	37	1	0	1	30	1	5
Det F	58	30	4	34	6	8	24
Det Jordan	269	89	14	103	53	66	65
Det S	240	83	33	116	14	50	82
Det V	159	84	10	94	22	29	56
Totals	763	287	61	348	125	154	232

Details By Detective 2013 YTD

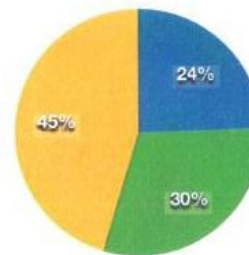


Evidence Case load



Cell Phone Computer

Video Case load



MVR Video Collection Video Processing

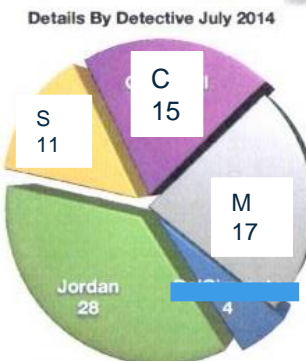


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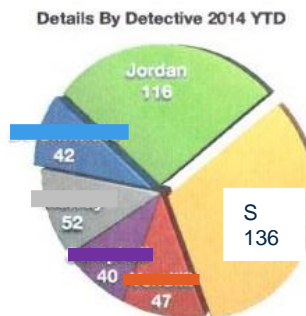
Monthly Report July 2014



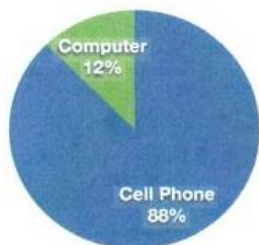
Monthly By Detective July 2014							
Detective	Detail	Cell Phone	Computers	Total Evidence	MVR	Video Collection	Video Processing
Det D	4	0	0	0	31	0	0
Det Jordan	28	9	0	9	3	4	11
Det S	11	1	0	1	0	6	2
Det V	0	0	0	0	0	0	0
Det C	15	11	4	15	1	2	3
Det M	17	7	1	8	1	1	4
Totals	75	28	5	33	36	13	20



Monthly By Detective 2014 YTD							
Detective	Detail	Cell Phone	Computer	Total Evidence	MVR	Video Collection	Video Processing
Det D	42	0	0	0	80	1	1
Det Jordan	116	34	0	34	16	26	30
Det S	136	33	2	35	35	38	38
Det V	47	15	7	22	6	12	11
Det C	40	47	13	60	1	3	4
Det M	52	33	1	34	7	8	8
Totals	433	162	23	185	145	88	92

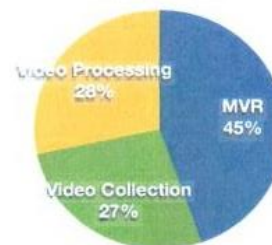


Evidence Case load



Cell Phone Computer

Video Case load



MVR Video Collection Video Processing

- The “True Detectives” weren’t good enough until the end
- Robert Redford’s character in “Sneakers” didn’t get it until the end
- Those are just movies and the job is never ever really done





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