Cold Case Studies Cheat Sheet

Cheatography

Introduction to Cold Case Studies

by RainyMoons (RainyMoons) via cheatography.com/153402/cs/44277/

Definition and Scope:	Cold Cases: Unsolved criminal investigations, often homicides or missing persons cases, that remain open but have not been solved after a considerable time, typically due to lack of evidence, leads, or resources.		longer be al have faded, testimony. Technologio were often i technology,	ailability: Witnes ive, or their mer leading to unre cal Limitations: C nvestigated with which may limit at can be analyz
	Importance of Cold Case Studies: These cases are crucial for understanding long-term investigative challe- nges, advances in forensic science, and the impact of unsolved crimes on victims' families and communities.	1	The Process Reopening a Cold Case:	of Cold Case In Criteria for Rea may be reoper evidence emer new witness, t advances that old evidence, o
Historical Backgr- ound:	The concept of cold cases has evolved with advanc- ements in forensic science and the ability of law enforc- ement to revisit old cases with new technology and methodologies.			the investigative Case Review: begin by review files, evidence iews, often with ctives or teams the original inv
Challenges of Cold Case Investiga- tions:	Aging Evidence: Degradation of physical evidence over time can make it difficult to obtain reliable results.	_		

Introduction to Cold Case Studies (cont)

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Older cases th less advanced it the scope of zed.

Investigation

Reopening	Criteria for Reopening: Cases
a Cold	may be reopened if new
Case:	evidence emerges, such as a
	new witness, technological
	advances that can re-examine
	old evidence, or a change in
	the investigative approach.
	Case Review: Investigators
	begin by reviewing all existing
	files, evidence, and interv-
	iews, often with fresh perspe-
	ctives or teams not involved in
	the original investigation.

The Process of Cold Case Investigation (cont)

(cont)	
Invest- igative Techni- ques:	DNA Analysis: Advances in DNA technology, such as familial DNA searching or touch DNA, allow investigators to revisit old evidence and potentially identify suspects.
	Digital Forensics: Recovering and analyzing digital evidence from old devices, records, or communications that were previously inaccessible.
	Geographic Profiling: Using crime scene data to predict the most likely location of the offender's residence or base of operations.
	Victimology: Re-examining the victim's life, relationships, and behavior to uncover new motives or connections that were overlooked initially.
Collab- oration and Multi Agency Task Forces:	Interagency Cooperation: Collab- oration between different law enforcement agencies, forensic experts, and cold case units can provide fresh insights and resources.



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The Process of Cold Case Investigation (cont)

Public and Media Involvement: Engaging the public through media can generate new leads, as people may come forward with information after seeing news reports or documentaries on cold cases.

Advances in Technology	n Forensic Science and
Forensic DNA Techno- logy:	Y-STR Analysis: A type of DNA analysis that targets the Y chromosome, useful in cases where male DNA is mixed with female DNA.
	Mitochondrial DNA (mtDNA): Can be used to identify remains when traditional DNA analysis is not possible, partic- ularly in cases with degraded samples.
	Familial DNA Searching: Identifies potential relatives of the suspect, which can lead to the identification of the perpet- rator.
Advances in Finger- print Analysis:	AFIS (Automated Fingerprint Identification Systems): Allows for the re-analysis of finger- prints using updated databases and enhanced comparison techniques.

Advances in Forensic Science and Technology (cont)

		Latent Print Reanalysis: New methods for detecting and analyzing latent prints that were previously unusable due to technological limitations.
and	jital d Cyber rensics:	Data Recovery: Advanced techniques for recovering deleted or corrupted data from old devices.
		Social Media Analysis: Utilizing social media platforms to track down witnesses or suspects and gather information about their whereabouts or activities during the time of the crime.
Ps	ychologic	al and Sociological Aspects
Cri	minal	Behavioral Analysis: Applying
in (Cold ses:	modern behavioral analysis techniques to old cases can help develop new profiles of potential suspects.
in (Cold ses:	techniques to old cases can help develop new profiles of
in C Ca The Imp on Vic	e bact	techniques to old cases can help develop new profiles of potential suspects. Victim-Offender Relationship Re-evaluating the relationship between the victim and the offender can provide new insights into the motive and

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Psychological and Sociological Aspects (cont)

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	Advocacy and Support Groups: Families often form or join support groups that advocate for the reopening of cold cases and provide mutual support.
Public Interest and Cold Cases:	Media Influence: High-profile cold cases often receive extensive media coverage, which can renew public interest and lead to new information.
	The Role of Documentaries and Podcasts: Shows and podcasts focused on cold cases have become popular, often leading to public tips that aid investigations.
Case Stu	udies of Notable Cold Cases
Case Stu The Golden State Killer:	idies of Notable Cold Cases Background: A series of rapes and murders in California during the 1970s and 1980s that remained unsolved for decades.
The Golden State	Background: A series of rapes and murders in California during the 1970s and 1980s that

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Case Stud	es of Notable Cold Cases (cont)		Legal Considerations	The Role of ⁻ Solutions	Fechnology in Cold Case
	Significance: This case highli- ghted the potential of modern DNA technology and genetic databases in solving cold cases.	Statute of Limita- tions:	Challenges: While murder typically has no statute of limitations, other crimes related to cold cases may be time-b- arred, complicating prosec-	Genetic Genealogy:	Technique: Combines DNA analysis with genealogical research to identify suspects through family trees.
The Murder of JonBenét	Background: The 1996 murder of 6-year-old JonBenét Ramsey in her Colorado home remains unsolved, despite extensive		utions. Exceptions and Revisions: Some jurisdictions have revised laws to extend or		Success Stories: Used successfully in multiple high- profile cold cases, including the Golden State Killer.
Ramsey:	investigation. Challenges: The case has been plagued by mismanagement, media sensationalism, and conflicting theories.	Handling	eliminate statutes of limitations for certain crimes, particularly in light of new forensic methods. Preservation Issues: Ensuring	Artificial Intelligence and Machine Learning:	Pattern Recognition: Al tools can analyze vast amounts of data to detect patterns or connections that human investigators might miss.
	Ongoing Investigation: New advances in DNA analysis and continued public interest keep this case active.	of Old Evidence:	that evidence from decades- old cases is properly stored and preserved is crucial, as mishandling can lead to contamination or degradation.		Predictive Policing: Using data to predict where crimes might have occurred or where suspects might be
The Disapp- earance of Etan Patz:	Background: Etan Patz disapp- eared in New York City in 1979, leading to one of the most extensive missing child invest- igations in U.S. history.		Chain of Custody: Maintaining a clear and documented chain of custody is essential to ensure the admissibility of	Database and Inform- ation Sharing:	National and International Databases: Systems like CODIS (Combined DNA Index System) in the U.S.
	Resolution: In 2017, Pedro Hernandez was convicted of Etan's murder, following a cold case investigation that revisited	Rights of the Accused:	evidence in court. Due Process: Reopening cold cases must be done with care to ensure that the rights of		and INTERPOL's DNA database help in matching DNA profiles across different jurisdictions.
	old leads and confessions. Impact: The case led to signif- icant changes in how missing children cases are handled and		suspects are protected, partic- ularly if they are being charged decades after the crime occurred.		Case Management Systems: Modern software allows for better organization, retrieval, and analysis of case inform-
	the creation of National Missing Children's Day.		Double Jeopardy: Legal protections against double jeopardy can complicate cold case prosecutions, particularly if the suspect was previously acquitted.		ation.

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Future D tions	irections in Cold Case Investiga-	Future Directions (cont)	tions in Cold Case Investiga-
Interd-Collaboration with Academia:iscipl-Partnerships with universities andinaryresearch institutions can provideApproafresh insights and innovativeches:methodologies for cold case		reopening o	Families: Ensuring that the of cold cases is handled sensit dering the emotional toll on hilies.
GHES.	investigations.	Conclusion	
	Integration of Social Sciences: Applying sociological and psychological theories to better understand the context of cold cases and potential motives.	Importance of Persis- tence in Justice:	Cold case investigations demonstrate the importance of persistence in the pursuit of justice. Advances in technology and investigative
Public Involv- ement	Citizen Detectives: Online communities and forums where individuals collaborate to analyze		techniques have breathed new life into cases once thought unsolvable.
andand discuss cold cases,Crowdsometimes providing leads to lawsour-enforcement.cing:Cing:	The Human Element:	Beyond the science and technology, cold cases remind us of the human stories at their core—of	
	Crowdsourced Funding: Raising funds for DNA testing or invest- igative resources through crowdf-		victims, families, and communities seeking closur and justice.
Ethical Consid era- tions:	unding platforms. Privacy Concerns: Balancing the use of genetic data and other personal information in investiga- tions with the privacy rights of individuals.	The Evolving Field:	The field of cold case invest igations continues to evolve integrating new tools and methodologies. The lessons learned from past cases inform the strategies for solving future ones.

Impact on Fa	amilies: Ensuring that the	
reopening of cold cases is handled sensit-		
ively, considering the emotional toll on		
victims' fami	lies.	
Conclusion		
Importance	Cold case investigations	
of Persis-	demonstrate the importance	
tence in	of persistence in the pursuit	
Justice:	of justice. Advances in	
	technology and investigative	
	techniques have breathed	
	new life into cases once	
	thought unsolvable.	
The	Beyond the science and	
Human	technology, cold cases	
Element:	remind us of the human	
	stories at their core-of	
	victims, families, and	
	communities seeking closure	
	and justice.	
The	The field of cold case invest-	
Evolving	igations continues to evolve,	
Field:	integrating new tools and	
	methodologies. The lessons	
	learned from past cases	
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