

SMART CRIME SCIENCE AND SHABBY CONTROL TECHNOLOGIES

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ABSTRACT. Modern technology is akin to a double edged dagger, which helps when held right and hurts when tried razors side. Right technology in wrong hands becomes a dexter sinister complexity. Technology helps society to improve health, education, communication and prosperity but all at the expense of a high crime rate. Man is behind all innovatory technologies, which now have started to control the master himself. As being a victim of one's own creation, technologists now have to look for intelligent ways that explain how we can use the same existing technology to control these rampant crimes. Technology has brought about an information revolution in our society at the expense of wreaking terrorism havoc. Security agencies use smart devices but criminals have access to smarter alternatives as well. It's time to choose between personal freedom and collective security. We have to be cautious during public debates as media discourse creates more heat than light. Opportunities, social injustices and starvations create a vacuity for crime. Crime science explores the delinquencies persuading rampant social crimes. We live in a jinxed society taken over by inherited leaders, inherent intellectuals and fake saints (pir) sunk in black/white magic mores. This paper tries to investigate mind set of demoniac people using incantations to evict apparitions and apotropaic to protect from evil eyes. All the mystic, virtual and ritual myths explored were found wealth and women centric. It is difficult to forecast crime but exposing haunting magic and mapping hot spots helps increase awareness and take preventive measures.

Keywords: Write three to five key words related to your study separated by ; for example: 'Railway Interlocking System; Moving Block Control; Safety Properties; Formal Methods; Z-Specification.

1. Introduction. Marcus Aurelius said "poverty is the mother of crime". Starvation triggers crime and greed takes over. Society prepares the crime and the criminal simply commits it. Bad governance, injustice, corruption and selections beyond merit create the vacuum which guzzles light like dark hole. Rampant crime rate is a matter of grave concern everywhere. Crime is a contagious disease which affects society. Crime can better dealt by reducing chances and opportunities. Einstein said "a bullet which is made is also used". A bullet is made only to take life. Parents bring up child in twenty years whom a bullet kills in ten seconds. It is hard to decide the greater criminal among manufacturers, sellers, buyers and users. Idea of crimeless nation is a fantasy but lower opportunities certainly reduce the crime rates. Nature allows crimes to transform global systems from shaky to stable equilibrium. Technical developments help police as well as law breakers. Criminals are intelligent people who invent innovatory ways to break the security walls. They use modern state of art technology to commit crimes which is often not available to law enforcing agencies. What drives criminals to commit a crime is called crime science. Crime science is a study of crime in order to find ways to prevent it. Three features distinguishing crime science from criminology are single-mindedness on crime cutting (rather than studying it), descending on crime (rather than criminals) and using scientific method (rather than social theory) to reduce crimes [1]. Crime science has variously been interpreted as

situational crime prevention rather than actual physical intervention, which may include redesigning products, services and policies to remove opportunities, temptations and provocations and make detection more certain. A common feature between crime science and criminology may be the narrow focus on delivering immediate crime reduction in society. Crime data can provide only the statistical measures of crime rather than any cure to society. As the crime by its nature is secretive, therefore the measurements are likely to be inaccurate [2]. Crime pattern analysis sometimes helps identifying potential future targets and underlying masterminds who can have vested interests in specific type of crimes or terrorist activities. Terrorist attacks on hostile specific apparatus mirror the invisible hand behind the terrorists. When dust of doubt prevails high up the stake holders start social engineering.

Several methods like household surveys, hospital or insurance records, press reports and police or law enforcement agencies compilations can be used to measure the crime rate. Official crime statistics are the latter but some offences are likely to go unreported due to one or the other reason. Crime is committed to increase personal income by using public belief or faith and by defects in existing laws and procedures. We have to keep an eye on politicians, bureaucrats, officers, religious scholars (maulanas) and inherited saints (pirs) looking too ambitious to have specific official positions. In corrupt societies the system becomes plugged to a wrong matrix which designs out good and promotes the crime culture. When people start competing for positions with discretionary powers and crime opportunities then national establishment must take serious measures. A country has always the type of criminals it deserves. Experts believe the crime prevention is much easier than control after its inception. Crime prevention is a prior struggle to reduce or deter crime and criminals. It is applied specifically to efforts made by the governments in order to reduce crime, enforce law and maintain criminal justice. Several factors must come together for a crime to occur; for instance an individual or a group must have the desire or motivation to participate in a banned or prohibited behavior and at least some of the participants must have the skills and tools needed to commit the particular crime or an opportunity must have been acted upon; which can only deepthroat informers explain when interested to do so.

Terrorism is the worst form of callous offence which overlaps both crime and war. There are several definitions of terrorism phenomenon emerged at start of 21st century. Wikipedia defines terrorism as the systematic use of violent terror as a means of coercion. Terrorism is now a well known evil act and yet it has no legally binding criminal law definition in the international community [2-3]. Common terrorism definitions refer to those violent acts which are intended to create fear (terror) and are perpetrated for a religious, political or an ideological goal and deliberately target civilians to create a state of panic and chaos in society. Some definitions now also include acts of unlawful violence and war that give rise to anarchy. The use of similar tactics by criminal organizations for protecting rackets or to enforce a code of silence is usually not labeled as terrorism; though these same actions may be labeled as terrorism when done by any politically motivated group that is not supported by hostile countries [3]. Long hauled liberation movements against slavery or foreign occupation are generally not treated under terrorism. Any scholar trying to define terrorism must consider provoked, unprovoked, local and foreign supported politically motivated campaigns against the democratically elected governments. Car and suicide bomb attacks on civilians, shrines, mosques, churches and law enforcing agencies are acts of terrorism which amount to undeclared civil war against the state with help of invisible foreign forces. If the government decides to launch a counter terrorism campaign against the culprits that is not a violation of human rights as long as the war crimes are not committed by the police or military forces. Drone attacks on citizens of a sovereign state against the will of incumbents are also an act of terrorism by any state. Different countries have their own definitions of terrorism acts which need to be unified at highest level.

Police and security agencies control the crimes. Older security personnel have strong crime recognition experience but they are hardly familiar with modern information technology (IT) based crime control techniques. Officials in developing countries mostly belong to anyone of the national political parties so they usually fail to enforce law equally. When leaders of political parties are high rolling agents of powerful hostile states then the situation leads to a state of anarchy. Countries facing hi-tech crimes usually have no access to modern crime control technologies. If the crime is secretly supported by a hostile state then the desired control devices are declined to the victim states. Security agencies can trace terrorism targets to potential masterminds in their own local contexts. Attack on the hostile countries specific military apparatus

is one of the ways to determine the invisible hands behind terrorism. Energy conscious hostile states can advise the local veiled terrorists to attack the power pylons in sultry summers and gas pipelines in chilly winters further to exacerbate the extremism. We must use pattern classification using support vector machines and recognize the developing story using neural networks and genetic algorithms to identify the crime science in order to control it using modern information technology. To overcome rebellions the state may consider blocking ammunition and monetary supplies in addition to routine checks, surveillance, mobile monitoring and search operations. Bomb explosions are carried out by using remote controlled devices and suicide bombers. Parochial and social networks can trace the potential buyers of materials used in explosive devices [4]. A good command on electromagnetic spectrum can help locate criminal terrorists.

2. Crime Science. Ultimate goal of crime science is to study that how the local environment affects crime, aggression and disorder [2]. Crime approach continues changing with new developments in technology. CCTV cameras help identify criminals but modern bank robbers take away CCTV footings to delete their electronic signatures. Deployment of CCTV hardware on high up inaccessible points could be solution. Street crimes like purse snatching, child abuse or gunpoint looting and organized offences like bhutta, abductions, bank robberies, gang rapes, electronic intrusions, suicide attacks, intelligent electronic devices or remote controlled bomb explosions, ethnic or sectarian attacks have become a panic for society, headache for governments and a challenge for the security agencies. Crime studies challenge the traditional assumption that society is divided into good and bad people and that bad people are the cause of crime. The notion that crime is proportional to the number of “criminals” provides no more illumination than asserting that farm output is proportional to the number of “farmers”. In farming, the production depends on the weather, the means of production, market prices and a host of other factors. Similarly, crime depends on a lot of factors independent of the number of good and bad people [5]. Cases must be investigated without keeping in mind any prejudice for any ethnic community. Mobile forensic labs may be used to examine any deadly crime scene. IT can help to understand the complex web of criminals who hide away or stand by during criminal investigations [6].

Presence of corrupt and immoral officials in police and security agencies shatters public confidence. Security officials succumb to death fighting criminals and terrorists but one immoral incidence defames the whole community. Citizens know the crime scene but fear reporting the police as black sheeps (ewes) leak informant’s identity to lawbreakers and government provides no shelter to the witness and informers. Repeated murders on evidence and release of killers on account of lack of evidence has promoted crime rate in developing countries. Judges and advocates treat justice as commodity and charge heavy fees to obtain justice. Criminals and terrorists are freed by court on account of lack of evidence. Bureaucracy decides the service structures by giving themselves more privileges compared the professionals responsible for running the technical departments. Inherited leadership, bureaucracy and corrupt system are responsible for most crimes in society. What can be the mindset of an engineer or medic joining police? It is an administrative authority, discretionary power and opportunities to avail corruption opportunities rather than controlling street crimes, which attract professionals to otherwise boring career. It depends on the matrix to which we are plugged to. Society knows police accepts sleet to ignore crime and judges take bribes to punish the victims. Misuse of position and discretionary powers sows the seeds of crime in society. American spy Raymond Davis killed two civilians on road in front of tens of people but he was released and Afia Saddique did not kill anybody but sent to jail for ninety years. People look at the principles governing justice systems in society. Why authorities demand millions of rupees to appoint police officers to specific police stations? High crime rate police stations are sold to officials at high rates. When they join police for doing crime how they can control it? What about the politicians who spend millions of rupees on election to win? Do they come to serve or earn money? They use their position to strengthen their own business instead of having any soft corner for community. Young police officers try to find solutions from internet instead of using available resources to control the ongoing street crimes. Identifying suicide bombers, target killers and deprived killers is like following a black crow flight route at night in a jungle or searching a black cat in dark room at night. Differences between criminology and the crime science have been illustrated in Table 1 [7].

Table 1 Differences between criminology and crime science (After [7])

	Criminology	Crime Science
Mission	Understand criminals Long-term social reform Help the criminal underdog 'Pure' Theory-led Shun policy	Understand crime Immediate crime reduction Reduce harm to victims 'Applied' Problem-led Embrace policy
Theory	Distant causes paramount Opportunity secondary Crime pathological The WHY of crime Criminal dispositions Criminal motivation Anomie, subcultures, conflict theory Sociology, psychiatry, law	Near causes paramount Opportunity central Crime normal The HOW of crime Criminal choice The rewards of crime Routine activities, rational choice Economics, geography, biology, planning, computer science
Research Methods	Cohort studies Criminal careers Regression analysis Self-reported delinquency Randomized control trials Long term studies in depth	Crime patterns Hot spots Crime mapping Victim surveys Crime specific case studies Rapid appraisal techniques
Applications and Audience	Crime and delinquency in general Sentencing/treatment/social prevention Social workers/probation officers Social policymakers Scholarly treatises Careers in academia	Specific crime and disorder problems Detection/deterrence/situational prevention Police, planners and security industry Business and management Policy briefs Careers in prevention/security/police

Criminology is concerned with the understanding and explaining of crime. Criminologist mission may firmly be focused on finding the different ways of controlling crime, but scholarly role becomes defensible when crime is an irritant to the society and regarded as the inevitable result of psychological and social disadvantage. A criminologist may be a crime scientist who can not be a criminologist. Doctors and engineers have no crime control mindset but they pass competition exams just to become powerful bureaucrats. They join services to have better service structure and discretionary powers with embed opportunities. A practicing advocate joined patwari (land clerk) profession just for corruption opportunities. They use means to secure more productive (bribery) posts by money or political references. When incumbents charge sell high earning posts then how one can expect automatic change in crime culture. Every rupee you earn is given to do hundred times higher losses to state. When incumbents come with a corrupt mind set they can never control crime. Most of government machinery is promoting crime rather than controlling it. Governance system is such the eligible technocrats can not come uphold rule of law. A judge who accepts property gifts can not do justice. A police officer recruited by politicians can not proceed against their crimes and similarly a journalist taking plots can not do justice with his profession. Unfortunately the whole fabric is based on corruption, bribery, commission and sleet. We have to invent new leadership which can govern by obeying.

3. Control Technology Technology is a handmaiden of crime control agencies as well as criminal mafias. It is pal of police and crony of convict. Mobile phones used by criminals do leave electronic signatures for police and security agencies. It is easy to locate criminals if incumbents use information technology. Crime reporting using electronic devices is considered a good strategy [8]. Pakistan started accepting IT based proofs as evidence in terrorism cases in 2013. Police should spend time on criminology rather than fascinating crime science. Crime control was always difficult but it has become even more complex profession after diffusion of terrorism in conventional crimes. Burglary and suicide bomb attacks are both crimes but the latter fall the

regime of war against the state. Any intentional attempt to impose a specific constitution against the will of citizens is an act of war which must be dealt accordingly. We do not yet know what would be the public attitude towards crime in the next two decades but rampant criminal trend will seriously affect routine services and critical lifelines [9].

Terrorists kill about 50 to 100 people every week in Pakistan in addition to the daily 10 to 15 fatalities in Karachi. They kill people by car bombings or suicide attacks and follow the injured down to the emergency wards to kill medics and corpse to burial sites to kill the mourners. Militants have 50 to 60 ethnic groups committing terrorism without any central command often controlled by across border foreign agencies. NATO revealed collaboration between secret agencies of neighboring countries to fuel the terrorists. Those who do not accept the constitution and kill Law Ministers are deadly terrorists. Pakistan has been sandwiched between terrorists and hostile neighbors. Terrorism is a communal issue which must be handled collectively. Nations who try to use it as opportunity to take revenge sow the seeds of demolition. Incumbents must fight back on war footing or else it will cultivate a criminal environment for a wide range of social crimes. Information technology provides a variety of discrete devices and systems to forecast, prevent, and control individual and collective crimes. Forensic information data like DNA, shoe marks, images and finger prints are being used by few nations for effective crime control [10].

Technology has helped tribes to transform from dark stone-age into a modern society. Information technology should be given a chance as it is the ultimate solution to control complex crimes. Word “possible” is hidden within “impossible”, technology is used to commit crimes but same can be used to control criminals [11]. We must use technology to control the crime but remember the societies are normally run by social theories not by science. Europe defined hard work and frugality as basis of good in 14th century after renaissance of humanity which enlightened the western society. America ended slavery in 19th century which created harmony among ethnic groups, races and states. Islam banned the burial of animate female infants in name of honor which became basis of women rights in dark ages. People who quarrel in name of minor religious differences must keep in mind the true large picture without any law and order. There is hardly any law and order supremacy in terrorism hit cities of Pakistan especially Karachi but life thrives on inertial traditions of society. Once we overcome the wave of terror then we would have to go after pre-crime control mechanisms [12]. Pre-crime studies followed by pre-emptive strikes seem to be ultimate solution i.e. to kill evil in the bud rather than waiting it to knock at door to respond. It is time to move the work of criminal investigators towards crime control [13]. A list of available hard and soft technologies used for crime control and prevention is shown in Table 2 [14].

Table 2 Hard and soft crime control technologies (After [14])

	Hard Technology	Soft Technology
Crime prevention	Close Circuit TV Street lighting (Cameras) Mace, tasers, stun gun Metal detectors, soft x-rays Ignition interlock systems Look, lock and leave	Threat assessment instruments Risk assessment instruments Bullying ID protocol Profile of potent offenders CCTV plus facial recognition IP network cameras
Police	Better police protection Helmets, vests, cars Less than lethal force Computers in cars Biometrics ID/finger prints Mobile data centers Video equipped patrol Bullet proof vests/cars	Crime mapping (hot spots) Crime analysis (COMPSTAT) Criminal history database Information sharing facility Communication monitoring Watch list of potent offenders Gun short location devices Eying social media, mobile

Forecasting crime for policy and planning decisions to deploy limited tactical police resources is traditionally based on econometric and extrapolation methods. Crime forecasting was considered simply not useful until recently. Crime data and technology persuaded scientists and police to focus on places, races and regions of

criminal history. Crime culture creates crime ecology that spreads around like contagious disease. There are places where specific crime is committed in routine. Crime history points out hot spots nationwide. Police started mapping crimes using information technology in 1990s [15]. To prevent crime the police must focus on places where crime takes place. Crime cases are often random and scattered over vast regions. Crime data shows a double shah (doubles money) appeared in Wazirabad and a triple shah (triples money) emerged 300km away in Haripur after ten years. There is hardly any similarity except economic conditions of people. Media creates awareness as well as helps spread crime information. Jailbreaks, suicide and vehicle bombings patterns in Islamic countries follow sequence in Afghanistan, Pakistan, Iraq, Libya and Syria. Large jailbreaks have occurred in Afghanistan, Pakistan, Iraq and Libya now next would be Syria. Almost same style is followed in all terror hit countries so one can reasonably predict the next big terror incidence. Geospatial mapping of crime hot spots and terrorist activities can help optimum deployment of police force to cope with rampant crimes. Spatiotemporal data helps police and security agencies take preemptive measures to stop reoccurrence. TV channels telecast interviews of professional absconded criminals but police can not arrest due to information as well as capacity problems. When criminals possess more advanced weapons and technologies compared to police and security agencies the state fails to maintain its writ on its own territory.

4. White Collar Crimes White collar crimes are committed by executives and officials using their discretionary powers and positions in government and private enterprises [16]. Development in information technology has assisted respectable nobles to safely conduct crime while maintaining their status in society. Politicians and elites borrow money from banks and then sit together to write it off officially. Thousands of bank defaulters got relief under national reconciliation ordinance (NRO) which people considered a white collar crime so the Supreme Court dismissed the ordinance. Government of Pakistan has passed laws to accept electronic signatures as proof and to conduct secret trials using video links to conceal identity of witnesses, judges and prosecutors. Officials in Pakistan allot public property among themselves in the form of residence plots which is worst form of white collar crime among government officials. Bureaucrats and politicians have obtained dual nationalities to escape after financial scandals. Nature of crime varies from place to place worldwide but generally a country has the criminals which it deserves. Crime naught has taken the form of land, drug and buttha (private tax) mafias in large cities of Pakistan. Kidnapping fuels begging and terrorism industries by supplying cheap manpower. A kidnapper confessed he sells a child at price of \$4.5. Some madrassas supply children for suicide attacks. High rolling agents collect money and send to foreign nations. We want to know the truth but do not dare to tell the truth. Public surveys are sometimes necessary to estimate the amount of crime not reported to the police due to fear of honor. Media dares to talk about fake fiddle pirs, but what about the real ones? Member national assembly, an elite politician attending an Urs (pir's birth or death celebration) said "Our links on basis of pirism are rife over political differences". Our parliament is crowded with tax and bank defaulter fake syeds, shahs, pirs, khadums, makhdooms, nawab, sardars, wadairas and chaudharies. They collect sleet using official positions and claim it income out of their agriculture business.

Global economic system is such that some win and others lose. Losers are likely to involve in crimes. Fiscal differences between winners and losers should not be so high that the losers are forced to think of their existence. Our salary structure ranges from Rs10, 000 (\$100) per month to Rs1000, 000 (\$10, 000) per month. Taxes and prices are fixed by elite politicians who do not know ground realities. Bureaucracy helps enforce these inhuman laws having privileged status themselves. The rich rob the poor and the poor rob one another. Landlords and capitalists do not permit agriculture and wealth taxes and try to minimize budget differences by enhancing general sales tax (GST), raising debts and multiplying energy prices. They impose general sales tax on people who already live below the poverty line and use the tax money to buy bullet proof jackets and vehicles for their own safety leaving the tax payers on mercy of mercenaries. White collar criminals are also believed to supply fighting fuels to terrorist agencies. They do not arrest elite power and gas thieves but instead impose line losses surcharges on utility bills of good paying consumers. Minister for Water and Power informed on TV over 90% CNG station owners steal gas and 90 to 95% electricity consumers on certain feeders steal electricity. Politicians, religious scholars, racists and seculars have divided people in infinite political, religious, linguistic, racial and ethnic groups.

White collar crimes include but not limited to bribe, kickbacks, sleet, cyber pornography, coupons, money doubling tricks, gold making frauds, insider trades, fake degree selling, immigration illusions, commodities

bootlegging, fake products, charity scams, credit card frauds, ID thefts and money laundering. The law enforcing agencies can cope with these culprits by better training, new laws, speedy courts and crime kill priorities [17]. Sustained injustice and continuous corruption by politicians, incumbents and elites have developed hatred among public. Society justifies corruption for survival which is the basis of all social crimes. Religious leaders use “Shariah Law” enforcement as a threat to gain their vested gains rather than practicing Islam. It has been common norm worldwide to use religion for fight not for practice as no religions persuades for white collar crimes. Economic indices like inflation, interest and investment are based on market forces where hoarding, speculation and money laundering is considered a punishable crime. Fasting means stopping eating; what about stopping foods, and continuing drinks. For instance, load shedding is done to control the consumption of energy but people shift their loads to UPS and gas or oil fired generators.

We have to look for information and honesty based design out crime policies [18]. New parking technologies can help law enforcing agencies manage traffic, generate revenues and control crimes. E-payment, automatic license plate recognition (LPR), radio frequency identification (RFID) tags, street lights and close-circuit television (CCTV) help manage traffic as well as control crime [19]. Police can catch the stolen cars to control crime rate and minimize car bomb attacks. Although criminals have developed transparent sprays capable of blinding electronic reading devices, yet smart devices can change reading mode to record car number plate with crime. Islam offers effective solutions to socioeconomic problems which we have unfortunately never tried. Frugality is better than austerity. Create awareness to use lesser energy instead of imposing load shedding. Reduce power generation costs to minimize inflation instead of using oil and gas as income sources. Arrest power and gas thieves to reduce line losses and relieve good users. Reduce reliance on foreign debts as we are paying Rs.1300 billions on payment of debts and interest out of Rs.2400 billion income tax every year.

Experts propose easy access and movement, structural design, surveillance, ownership spirit, physical protection, safe activity, management and maintenance skills to design out crime. Better look, lock and leave keeping in mind the weak doors of bank do not justify bank robberies. Minimizing the crime opportunities by design out crime policies is more effective than controlling the crime [20]. Let us create a social environment which minimizes crime opportunities and adapts us to global peace, mutual respect and love. Peace and food are the ultimate basics which are abundant in nature but we destroy it for our own greed. Extreme secularity is worse than religious fundamentalism. A man who hates good can not be good person. Extreme secularity is the threshold of crime career. Most of convicts in Pakistan preach secularism to seek western support to hide their fiscal crimes. Societies are run by religious theories not by science. We respect our constitution but do not act upon it. Articles 62 and 63 ban politicians of ill repute most of them are there. Officials of political parties are present in police stations to election commission to protect the vicious cycle. We must define good and bad in order to create love and harmony among people. It is far easier to harness believers than atheists. People agree to reduce energy consumption on basis of frugality, if properly inspired, instead of imposing austerity.

5. White Witch Crimes: The roots of these white witch crimes are entrenched in local rites, faiths and traditions. Some people fear demons or devils and others exorcise them. White witch crimes are committed by fake inherited pirs, amuls (practicing exorcism), black or white magic enchanter using incantations and apotropiac. To evict evil spirits the exorcism is performed by Catholic Christians with cross, Essene Jews by extracts of roots, Hindus by wild weeds smoke and Muslims by incantations. Christian, Muslims and Hindus believe in evil spirits. Christians claim to have got rid of it after renaissance of humanity, science and industrial revolutions from 14th to 17th centuries but mysterious fire incidence in Caronia (Italy) in 2004 showed the modern secular Christians returned back to religious exorcists. Biblical references confirm prophet Suleiman (Solomon) deployed demons to build the Bait-ul-Maqdus (mosque), which stands in Israel. Islam recommends reciting Surat Al-Ikhlas, Al-Falaq and Al-Nas when you feel fear of evil spirits. Muslims believe the demons are made of smokeless fire and angles of nur (light). Hindus use mantra and yajna in Vedic and Trantric traditions to cope with evil spirits. Public views on demons and evil spirits vary from culture to culture. Various cultures and civilizations with different beliefs use wide range of words like Aku, Amon, Ben, Tash, Vigo, Zed, Devi, Hex, Nero, Ravan, Oni, Alaster, Ethismus, Satan and iblis for the evil spirits. Pakistani Muslims and Indian Hindus have different religions but both believe in similar evil spirits. Charrail (ghost), blah (ghoul), budruh (zombie), dian (vampire), bhoot (ghost) and jin (giant) are few names

used to express invisible spirits in Pakistan (also northern India). Indian media exposed some 40 women (in last eight months) were declared dian (evil spirit) and forced to walk naked in village as punishment in Jhar Khund State. In another incidence a 23 year old female student was raped by a gang in bus. Indian police registered 359 gap rape cases in 2012. A rich man teased a girl and killed her brother on resistance. In the presence of huge superstitious market some people have descended on pirism and exorcism professions to loot the people.

Media movies, myths, fictions and legends refer this entity to sudden appearance of a nebulous image. Movies and fictions on Dracula, werewolves, zombies, invisible man, xenomorph aliens, mermaids, hydra, godzilla, dragons, Scylla, Capricorn, faries, firebird, sphinx, phoenix and ariel have further confused societies. Publication of books like "The Demon Syndrome" by Nancy Osborn & Ann Haywood, "Possessions & Exorcism" by Sarah Ferber, "Christian Voodoo" by Eric Gibbons, "Demons, Possessions & Exorcism" by Robert Pelton, "Yehuda Fetaya" by Minchat Yahuda and "Frankenstein" by Marry Shelley have played the role of late night horror movies. My point is not to discuss the ways how the religious and inherited scholars evict evil spirits, rather to expose how the superstitions are used by criminals to cheat the innocent society. The culprits use modern science as well as religion to conduct moral and fiscal crimes. People claiming power to control demons for getting information and feedback often use the information provided by client on reception to tell the cause of problem. I often ask pirs claiming power to overwhelm on demons to use them to drive generators to produce electricity to solve power crisis but none to date could demonstrate this supernatural capability. Scientists believe demon possession is a disease [21].

Fake religious morons, inherited pirs and shrine custodians often misuse their social regard for moral and fiscal crimes. Western white collar crime may be called green turban crime in Pakistan, orange apparel crime in India and black magic crime in Africa. Atheists believe in evolution, so they do not fear from demons. Communists believe in "man behind every magic" so they do not fear any supernatural powers. Indus valley civilization believes in ethereal spirits, which is the cause of many social crimes. We live in a jinxed society which believes in white magic, high spiritual powers pirs, and inherited nobles who use sorcery or inherited acumen to solve our social problems. We believe in an invisible hand that does not exist in a physical world, we know today. Fake pir ravish women and blackmail simple men from jinx and curses. Fake highbrow maulanans defame religion by operating hahala centers in London. Marriage of woman with Quran (like nuns) is done to protect land and under age girls are placed in wedlock with old people to settle family disputes which must stop. Deputing children to serve pir or maulanans is injustice with infants. I know many pirs whose children go to good schools but they accept flunkey children to serve them. As adage goes that a country always has the type of criminals it deserves. Punitive deployment of children on pir services as token of devotion must be banned [22]. To inform people, in an ignorant society, is hard slugging. President Zardari slaughtered few black goats (why not white?) before entering President House. He stayed in Karachi for long time as his pir doubted danger from mountains. Prime Minister Benazir got education from west yet believed in black magic and had worn a black band on her arm the day she was murdered in bullet proof vehicle.

Information explosion and liberty of expression has led the humble public in a state of awe with eyes wide open. Civil society is astonished on inconsistent globalization and terrorism policies. Law makers leave flaws for their own use and people do not dare to change them. How can incumbents act the roll model when they come with mindset of churning out money? When leaders commit fiscal and moral crimes, how can they punish others for the same? Rich loot the poor and poor loot one another. Pirs use faith in supernatural beings to loot the illiterate society. There is a long way ahead to educate people and modify their beliefs. Old time jado (black magic), tona (necromancy) and tawiz (spells) business are crime hatcheries in Pakistan and India. People believe the angels are at their work and devils play. Hell is empty and devils are here. We know the faith has obscure hold on people lives and some criminals use their status to do crimes. They frighten their followers saying the vampires subsist on life so they suck living human blood. Fake white witch exorcists ask innocent people to bring bones out of graves to learn art of controlling ghosts. Once they learn the art they recruit new learners. Muslim scholars teach the jins are sentient beings with free will like us who can coexist with humans. Hindu concepts of reincarnation and transmigration of souls is often used to frighten people to pay money and distribute foods on Thursdays to feed hungry and thirsty souls lurking around you whom you can not see but they see you but can not speak. Exorcists use manpower and technology to harness victims mentally.

Youngsters are declared to have been possessed by evil spirits whom amuls (exorcists) treat by wild weeds smoke and private secret tactics behind the wall. Catholics also used to drive out demons and witches to show the power of church. Scientists believe the demon possession is a physical or mental illness like hysteria, mania, psychosis, epilepsy, schizophrenia or dissociative identity disorder. Many young women go to pirs for prayer to induce breeding capability, evict black magic impacts and write tawiz (holy words) to harness others. When women share their personal problems with pirs in isolation they use wide range of tricks to rob and impress them with their supernatural powers. Most of young women keep silent hardly a few percent dare to speak. A fake pir raped 300 women in his pirism crime career and finally fell prey to police as shown arrested in Fig.1.



Figure 1. The fake pir who cheated 300 women in his career (Express News, TV)

Several women loose their virginity whilst learning religious lessons and serving iniquitous pirs. ARY and Dawn channels often show cacodemon programs on how people remove parts out of graves to use it to teach or learn black magic. Society compels women to go to pir to get blessing to bear male children. Several women are murdered by husbands or burnt alive by mother in law for bearing daughters. The malediction, voodoo and hoodoo are basis of social crimes deeply rooted in our rites and rituals. Science education seems to be the ultimate solution to control superstition as fear springs out of ignorance. If we continue telling infants Caucasus pretty faire and somber demon tales then they will continue falling victim to witchery crimes. Concepts of curses and evil eyes are rooted deep into local culture. We listen to giants stories in childhood which help our brains create imaginary monsters. In response to question of drawing picture of demon 35% students focused on teeth, 30% on hairs, 15% on eyes, 12% on wings and 8% on horns. We have never seen any demon yet fear going to graveyard at night where criminals often get together. They themselves spread rumors of pucky (demoniac) place to use it for various social crimes at night. Voodoo and hoodoo business are social crimes but how the incumbents can stop them when themselves believe them. We see well aware people using amulets to reflect, quench or diffract the evil eye. Business managers use precious metals and concentric circles to reflect or absorb the evil eye as apotropaic. Demoniac men and women go to pirs for incantations to avert misfortunes or evict apparition. Western scholars used to investigate occult arts but after renaissance of humanism in 14th and 15th centuries they discontinued. Scientists do not believe in evil spirits yet they use old Roman and Greek divine name like Helios, Apollo, and Sol are used as prefixes in science. Return of Ra (also Re) is often touted as ultimate result of energy crisis.

William Blake said “prisons are built with stones of law, brothels with the bricks of religions”. The fox preys farthest from its home but fake pirs and amuls start their imp business in densely populated cities at their home. Faith and fashion based crimes are normal in east as well as west. A superstar Madonna confessed in her 80s that she was mistreated when young in New York at gun point [23]. There is huge crime in homes and streets but people fear to report as society hates victims not criminals. Young girls and women are psychologically harnessed during chillas (period) in graveyards at night, which further recruit others to serve

the wicked pir. Media has shown the evidence that fake pirs make videos of young women to black mail them. Media has reported rape of two sisters by officials when they approached police. Situation becomes worse when police starts harassing girls in their custody. Pirs ask ignorant young people to supply bones of dead teenagers and owl blood to learn voodoo to undo spirits possessions, treat sub-fertility, overcome hoodoo or soften the heart of spouse. New entrants can not dig old graves at night to get the human bone so they pay money to pir's agents to do it on their behalf which is the ultimate goal behind this magic business. Pirs, we know today, have no supernatural powers, whole hoodwink is simply money centric. Pir and amuls use dark dresses, hairy and harpy outlook to harass and hound flunkys. They often use some type of magic to show miraculous power which observers do not dare to concentrate under faith pressure. A scene of black or white magic practicing fake pir is shown in Fig.2.



Figure. 2 A scene of black magic practice (Source: Internet)

Public surveys are often more reliable for assessing the social crime trends in Islamic countries. Criminal mafias are strong so the public fears telling their crimes due to lack of official protection. Public surveys rarely encompass all crime, rarely procure statistics useful for local crime prevention, often ignore offences against children in Mosques, Madrassas and trucks and do not question the offenders brought before the criminal justice system. Public believes some of ill reputed Madrassas supply suicide bombers to terrorists just to earn money. Human bloodshed may be business for someone and holly task for others. All the three major political parties in Karachi are involved in land, drug and buttha crimes but none will speak for fear of targeted killing. In the presence of inherited political, abnormal and religious positions in society, it is impossible to overcome embedded cultural crimes. Society wants to ban the weird positions but parliament and senates are crowded by such inherited pirs. They have a false flag democratic fabric to justify their institutionalized corruption. They use discretionary powers and social positions to deprive public from their genuine rights. Saints like Sakhi Sarwar, Data Gunj Bux Hajvery, Shah Latif Bhatai and Bulle Shah were pious scholars who spread Islam in India. They had good moral behavior and character which attracted people to Islam. Everybody respects the saints for their scholarly contributions and piety.

Descendents of Sufi saints today do not reflect their forefather's character. To be an inherited pir has become a respectable profession today which is often basis of social crimes. Saint's descendents and intruders (self declared) have opted pirism as a commercial profession to accept donations from poor ignorant people for incanting to solve their social problems. This community has occupied top positions in politics, media, business and civil services. It has taken the form of a superior creed depriving others from their due rights. You can note Syed, Shah, Pir, Makhdoom, Sahab Zada and Pir Zada type names in politics, bureaucracy and media. These races have come from Arab, Iran and Caucasus literal states over 500 to 1000 years ago. These races can not mix up with aboriginal pakhtoons, Baluchis, Sindhis and Punjabis. They are converting democracy into a modern tribe system. They supported British armies in past and collaborate with foreign agencies today. They use electronic and print media coherently to impose their point of view without listening others. Public rights are often deprived by sardars, chaudaries, nawabs, wadaira, syed, shah and pirs. They are hardly 5 to 10% of population dominating others. It is my humble wish for their accelerated diffusion in society with desire to not use creed and race reflecting names to create disperse in society of diverse races. We

can use “being Pakistani” as a national slogan, unity, faith and discipline as national emblem, Islam as national religion and Urdu as national language. We speak local languages, read in Urdu and write in English. We listen in English translate into Urdu and ponder in local language. Better we stick to one language like Arabs, Germans, Japanese, Chinese, British, French and Americans.

6. Lifelines Security Challenge: Life and lifelines security challenges are constantly increasing worldwide. Life thrives on modern power, energy, water and social lifelines. Shut down of energy in extreme cold or hot weather amounts to act of war. Hostile armies attack enemy lifelines for subjugation. Pakistan is terror and power crisis hit country. Tribal people were given free electricity supply by WAPDA but it was discontinued during war on terror for power and gas crisis. Militants attack high voltage power transmission line pylons and grid stations in hot summer. Foreign agencies persuade local high rolling agents to oppose dams and pipelines. Hostile agencies supply explosive to cohorts to attack power and gas lifelines. Masked terrorists attacked 500kV grid station in Peshawar damaging transformer, switch gears and control room. Terrorists attack power lines in hot summer and gas pipelines in chilly winter to wreak havoc in power crisis hit nation. Militants attacks power transmission and distribution system in most of KPK, FATA and PATA regions but frequency of attacks is too high in Bannu, Safi, Peshawar, Swat, Mahmand, Matta and Bajour as shown in Fig.3.

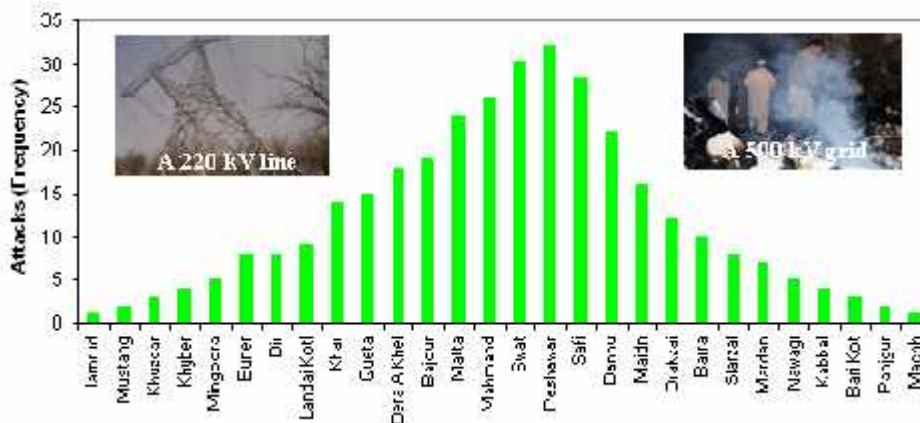


Figure 3. Geospatial hot spots spectrum of power lines attacks

Attacks on power lines are carried out by militants but some civilian leaders like Haji Adil persuade civilians to not pay electricity bills. ANP leadership uses ethnic issues to misguide their followers on national dam policies. Baluch militants often attack on gas pipeline networks between Mustang, Pir Kho, Sui, Dera Bugti, Queta, Naseerabad and Mashmore districts as shown in Fig.4

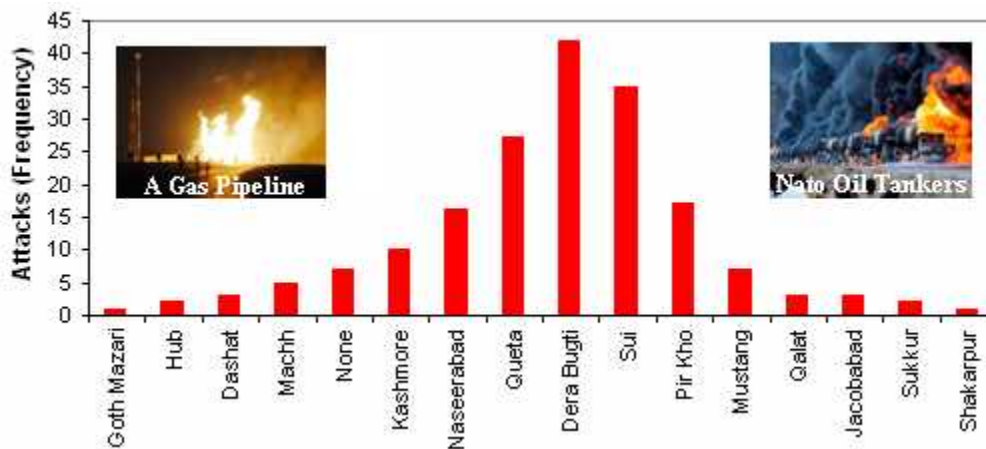


Figure 4. Geospatial spectrum of gas pipelines attacks in one decade

Baluchistan region is too hot in summer and too cold in winter. FATA is also hot in summer and chilly in winter. FATA is a lawless region between Afghanistan and Pakistan spread over vast area along borderline inside Pakistan. It is true example of a house with broken windows which is sanctuary for militants and terrorists. Militants carry out terrorist attacks in Pakistan. Pakistan Institute of Peace Studies has been publishing reports on their terrorist activities in its annual security reports.

Veiled militants attack NATO oil and goods supplies from Karachi to Afghanistan take revenge of drone attacks. Electronic and print media reported on use of these tankers for distribution of explosives and ammunition to certain terrorist groups hidden in Pakistan. There are over 60 militant groups in Baluchistan, FATA and KPK. Attacks on NATO tankers increased from 2010 to 2011 and then gradually declined by start of 2013. Most of oil tanker and NATO supplies attacks were noted in remote locations in KPK, FATA and Baluchistan. No attack was reported in some period in 2012 for discontinuation of NATO supplies as shown in Fig.5.

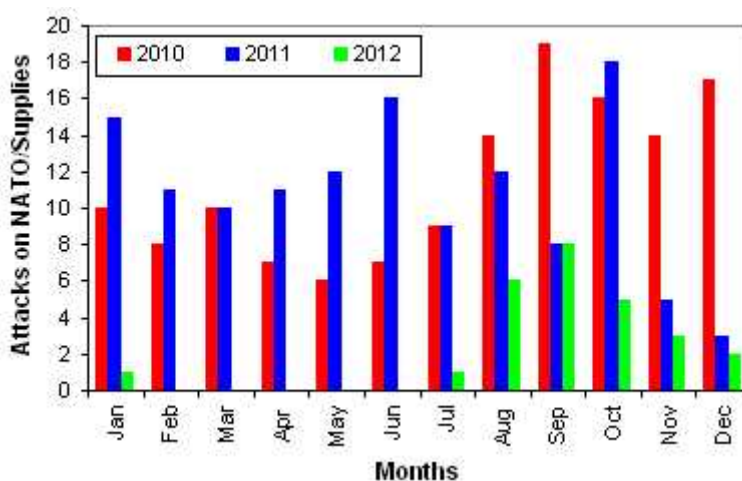


Figure 5. Attacks on NATO oil/goods supplies [26-28]

No bloodshed was seen in FATA during ten years Russian occupation on Afghanistan. Federally administered tribal areas (FATA) of Pakistan have become a haunted house during war on terror. Multiple races militants have been locked there by green on blue politics. Old time Jihadi, Afghan Northern alliance spies, hostile nations agents use Taliban flag for their own missions. Veiled Tajek, Uzbek, Afghan, Arabs and multiple origins militants can not go anywhere as the area is surrounded by military forces. Local people are sandwiched between veiled mercenary killers on ground and drone attacks out of blue sky. Terrorists destroyed hundreds of schools in FATA to shutdown their learning lifelines. Terrorists obtain explosives and money from hostile agencies to carry out terrorist attacks on military bases, shrines and religious places in Pakistan. Attacks on schools started in Northern Afghanistan by end of Taliban regime in Afghanistan and continued smashing education institutes in Afghanistan, FATA, KPK and Baluchistan to invoke darkness in already less developed areas on hypothesis the crime springs out of ignorance. Government started rebuilding schools and colleges in affected regions then some contractors were also reported to build and smash to get new contracts to build the same schools and colleges. Human desire to earn out of the worst continues inspiring on crime. It is interesting to note the desire for education is relatively more in FATA, KPK, G&B and Kashmir compared to settled and developed areas in Pakistan. Government of Pakistan is very serious in educating the tribal people but terrorists have damaged thousands of the schools as shown in Fig.6.

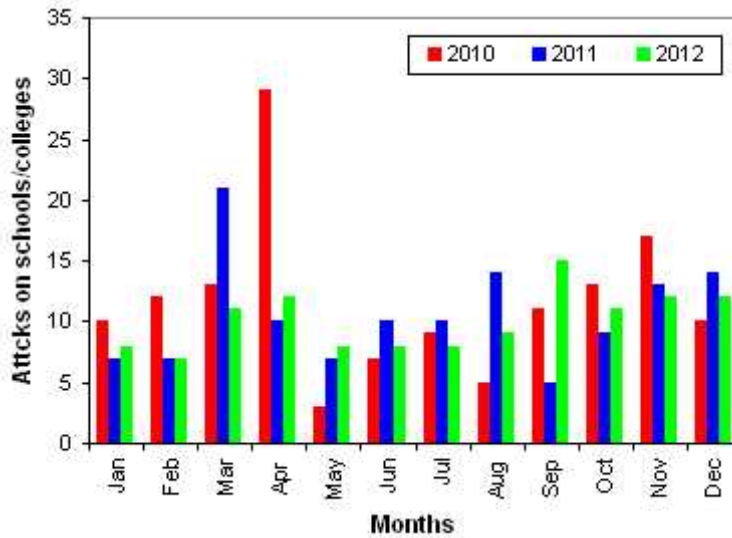


Figure 6. Terrorist attacks on education institutions KPK and FATA [26-28]

Terrorists attack energy infrastructures, military installations, public places, shrines and worship places whatever comes their way to weaken the state. They enter in holy places to kill people by firing followed by suicide attacks. Drone attacks from sky in FATA and suicide attacks from ground throughout Pakistan wrought the havoc but security forces continued combating the evil. Militant attacks on shrines and worship places are shown in Fig.7.

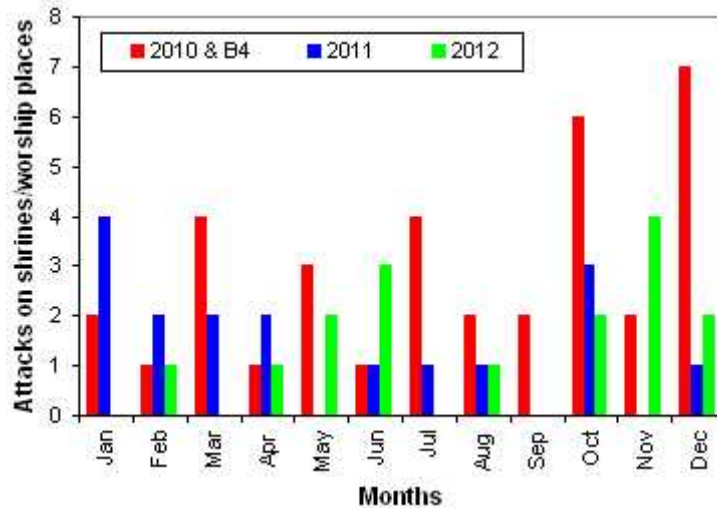


Figure7. Terrorist attacks on shrines and worship places in Pakistan [26-28]

Most of attacks occurred on Muslim shrines and holy places and rarely a few on Christian churches and Hindu temples. Pakistan manages energy demand by power and gas load shedding. Power supply disruption remains for 10 to 15 hours and gas disconnection for days. PEPCO faces 4000 to 5000 MW power deficits in hot summer and SNGPL 1 to 1.5 BCF gas shortages in chilly winter. Good bill paying consumers protest load shedding and power thieves silently steal. Direct connections are root cause of unaccounted power pilferages and line losses which are reported to vary from 30 to 50% in HESCO, PESCO and QESCO. Water and Power Minister informed on TV the line losses on some 11kV distribution feeders in PESCO rise to over 90%. PEPCO plans to install smart meters to which public opposes. A smart meter simply tells the power use pattern but can not help in case of direct connections. What a smart meter can do to stop illegal extensions in premises which do not use any type of meter? Influential industrialists, retired bureaucrats and politicians steal electricity and gas which inspires common people as shown in Fig.8.



Figure 8. A power theft crime scene in Karachi.

Globalization and internationalization through collaboration, terrorism and pestering through social engineering are two opposite policies evolved same time. World aware communities know population explosion, climate change and energy crisis are the basis of whole evil. Terrorism and extremism are serious issues but war on terror is a green on blue politics. Water remain polluted until dead dog is in well. It is hard to eliminate crime without removing the embed reasons. As citizens of global village why we need visa to go from place to other places? Why some work and others do not? Why some are masters and others white slaves? Why a few are too rich and others too poor? Differences are essential but too much differences causes problems. Height difference causes river flows, pressure difference causes wind flows and potential difference causes electric flows. Too much level difference brings floods, too much pressure difference causes twisters and tornadoes, and electric shorts lead to explosions. Minor social and monetary differences help do daily business but too much difference brings bloody revolutions. Social engineers use color revolutions to reshuffle systems and regime change. World community is approaching the threshold of oil breakpoint, which may start anywhere any time. South Asian nations face long blackouts, flash floods and terrorism causing security problems [29]. Essential problem is not just that we are tapping the wrong type of the energy sources (though we are), or that we use the inefficient technologies (though we are), but that we are overpowered, and we are overpowering nature. If you can think, that you can do or not, then whatever you say you can do. Middle East is home of fossil fuels but it position is like a beautiful young woman without weapon. Western industries are energy black holes on earth. We have to get out of white and black holes politics.

World community does not know who invented 9/11 plot, yet the global terror wave has spring out of it. Terrorism and globalization are two opposite phenomena evolved almost same time. Foreign forces and masked mercenaries kill hundreds of innocent people in Pakistan, Iraq, Libya and Syria every day by similar suicide and car bombing attacks. They attack people and then follow injured to hospitals and dead to burial sites to kill the paramedics and mourners. American drone attacks on terrorists in FATA kill innocent civilians. They can not leave the place as there is I and U difference between soil and soul. Population of FATA region is over 10 million. Terrorists may be ambushed somewhere in caves and mountains, but there live ordinary people in thatched roof houses. American drones patrol the region in routine to search and kill terrorists. One can imagine the emotions of people who see drones and wait for lighting to strike. Amnesty International, Human Rights Groups and University of Law in New York have called unprovoked drone attacks are worst form of terrorism. Whenever incumbents try to start peace process drones fire missiles on militants to stop negotiations. They fuel terrorism by supplying explosives and weapons to militants. Americans have murdered 2500 to 2600 innocent people and injured even more civilians by 402 drone attacks in FATA from 2004 to 2013 as shown in Fig.9 [24-25]

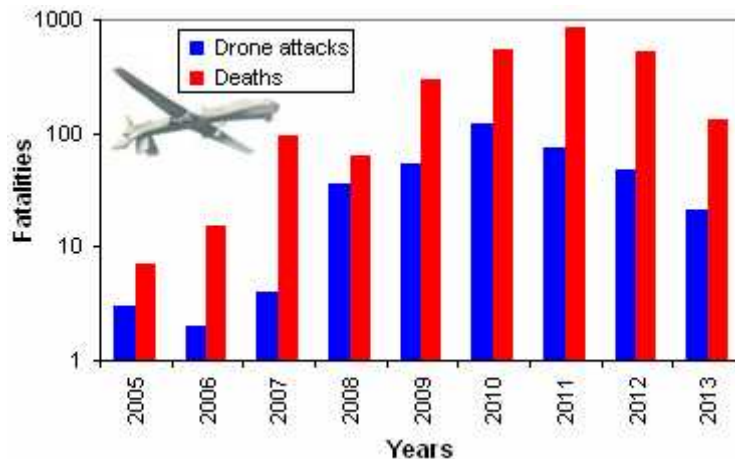


Figure 9. Drone attack incidences in FATA from 2004 to 2013.

Drone attacks act as bolt out of blue sky. Drone attacks from sky and bomb explosion on ground stop children going to field for play and school for learning. Tribal children fear from the blue sky as drone attacks can not be conducted in cloudy weathers. They are forced to stay inside as drones kill children playing outside. Imagine three 5, 7 and 8 year old blue eyed school girls who were injured by drone attacks whilst playing at green farm nearby their home. Incidence disabled girls for life and killed their 68 years old grand mother who used to tell them sweet stories. Drone attacks instill fear in hearts of children and create hatred against western society. Drone attacks kill hardly 2% terrorists and take life of 98% civilians. Tribal militants support attacks on incumbents for keeping silent on drone strikes. US drone operatives also confessed attacking child half a world away for no reason. It is left to readers to decide who threw innocent Pakistani Wazir children, women and men into blue funk chilling them to bone marrow? If there is a hope, dear readers, you are it. No doubt the drone attacks have incapacitated terrorists causing widespread collateral damages in terms of life and property losses.

We must stop oil and water mixing politics. A believer and atheist can not mix but coexist. When oil and water do not mix we must not use blood to break the diffusion barrier. It has become a norm to threaten owners to sell commodities at lower prices and make global laws to support friendly nations. A nation can bomb other but can not use power to win their hearts. Great Britain in 19th, Soviet Union in 20th and America in 21st century tried to occupy Afghanistan but all of them failed. A common man on street knows the energy resources are the raisin d'être behind the terror war. Global leadership preaches human rights but after all prattles come down on dirty goo. Unilateral policies on Kashmir and Palestine resolutions have created doubts in Muslim minds. Indian and Israeli occupation on their lands and waters are the root cause of extremism in Islamic countries. India and Pakistan can sit together to solve their mutual conflicts but remote controlled veritable hands on both sides do not let the leaders decide. Military supremacy has philosophically linked blood with oil and water. We are not the only living creature on earth there are animals and plants too. What are differences between plants, animals and humans? Plants do not think, animals think for their own survival but humans for others too. Life thrives on life. Energy is life but our lives must not thrive on fellow human lives. There are several common goods for coexistence. A holistic approach can certainly solve the problem. Light is good and dark is evil, light has to be lit but dark prevails at its own. Global terrorism has sprung out of 9/11 incidence. As result of so called war against terrorism, Pakistan suffered 50,000 lives and \$100 billion property losses in addition to defame in international community. Hostile nations have left no stone unturned to use the opportunity to further worsen the already worse image. Suicide and car bombing incidences have promoted crime in society and war on terror has cast evil gun culture in Islamic countries. Globalization of gun culture has increased crime rate world wide [30]. Youngsters carrying weapons kill on trivial matters which otherwise may not lead to murder if they have no access to weapons.

7. Conclusions: Crime and terrorism are often linked through deprivations rooted deep in ethnic and political systems. Rightists argue if the bank door is weak that does not mean robbers be excused but leftists plead social equality on basic needs. Information technology will provide solution to crime culture tomorrow if not

today. Fake pirs use religious beliefs to instill fear of demons and evils. A poor man said blood pressure, sugar and apparitions are diseases of rich people. Human brain creates demon figures and then fears itself by imaging their physical nebulae. Forces behind crime and terrorism are often more powerful and smarter than security agencies in developing countries. Attacks on military installations and cricket players lead to neighboring hostile countries which try to sustain the crime culture to achieve their vested interests in affected country. If security agencies fail to recognize veiled local and foreign criminals then those barren remote hilly regions becomes labs for social engineers. Any declared lawless region like FATA may become a house with broken windows. Crime hatcheries produce convicts not noble laureates. Hostile countries do green on blue politics in name of human rights and monetary aids further to worsen the worst scenario. Those who accept enemy weapons against state must be crushed by force. If politicians and bureaucrats will continue violating their own constitution then criminals will also do the same as nation has criminals which it deserves. Global elimination of crime out of society needs infrastructural, social and moral changes. A social change can be brought only by inspiration not perspiration. Societies are run by social theories not by science. We can use science to promote truth but it hard to do in presence education and health business. We can not expect illiterates to know at own intuitively without enabling him/her to read, experience and assess to decide.

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