

Ya'alon: West Bank withdrawal will lead to rocket and mortar fire on Ben-Gurion Airport

Defense minister says Israel should look for a diplomatic process "outside of the box" before withdrawing from West Bank, mentioning new-found strategic interests shared with moderate Arab states.

#1

By [NIV ELIS](#), JPOST.COM STAFF – Sept. 2, 2014 - 16:08



Moshe Yaalon.

(photo credit: Marc Israel Sellem/The Jerusalem Post)

#2 Defense Minister Moshe Ya'alon spoke out Tuesday against a diplomatic process with the Palestinians that would include Israel pulling out of the West Bank, saying that such a withdrawal would lead to rockets and mortar shells being fired at Ben-Gurion Airport.

Speaking at the Calcalist economic conference in Tel Aviv, Ya'alon said that, when considering a diplomatic process, it must be remembered that every instance of the IDF withdrawing from territory led to a takeover by terrorist elements.

He said the example of Hamas's takeover of Gaza following the disengagement was clear, and that terror sprouted in the West Bank as well until Israel restored order at a heavy price.

#3 Ya'alon suggested that Israel look for a diplomatic process "outside of the box" before withdrawing from the West Bank, mentioning new-found strategic interests shared with moderate Arab states.

Discussing the defense budget, Ya'alon said defending the country had become more expensive, with the need to gather intelligence on a number of small organizations, rather than one state.

The defense minister said reducing civilian casualties requires more technology and more precise weaponry which costs money.

Ya'alon said education is important, even crucial, but "at the end, you have to find the right balance of how to slice up the cake."

<http://www.jpost.com/Arab-Israeli-Conflict/Yaalon-West-Bank-withdrawal-will-lead-to-rocket-and-mortar-fire-on-Ben-Gurion-Airport-374219>



1938 Anti-Semitism



1939-1940 Nazi Blitzkrieg



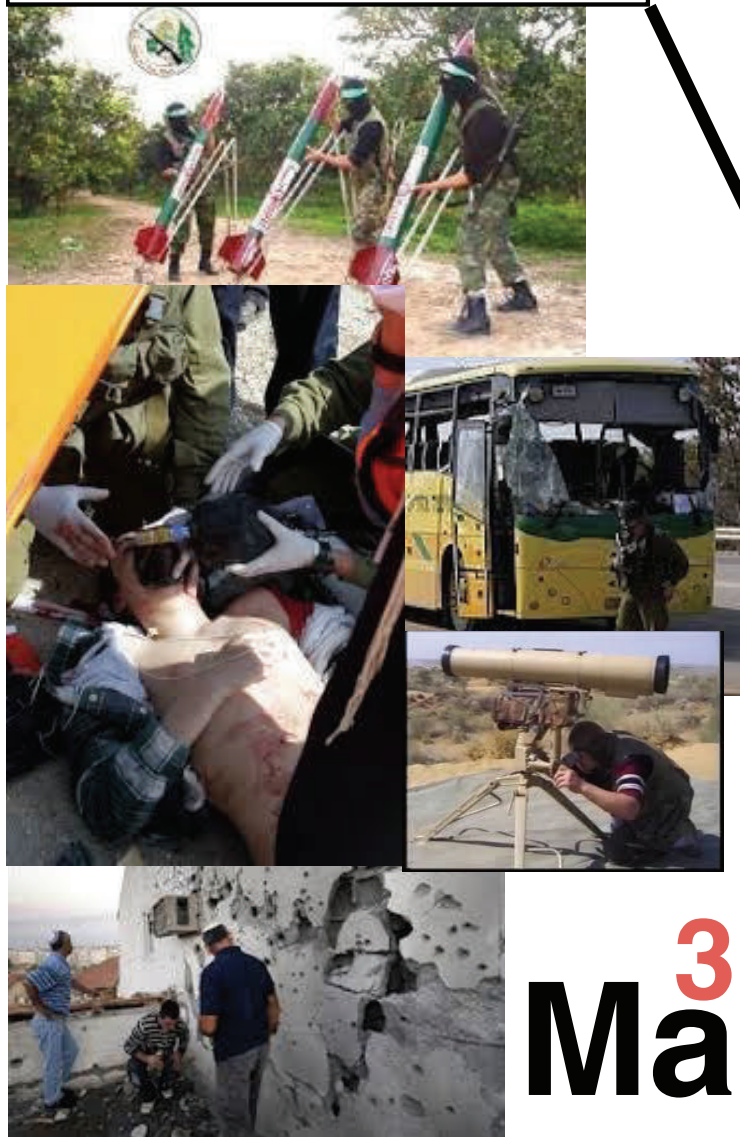
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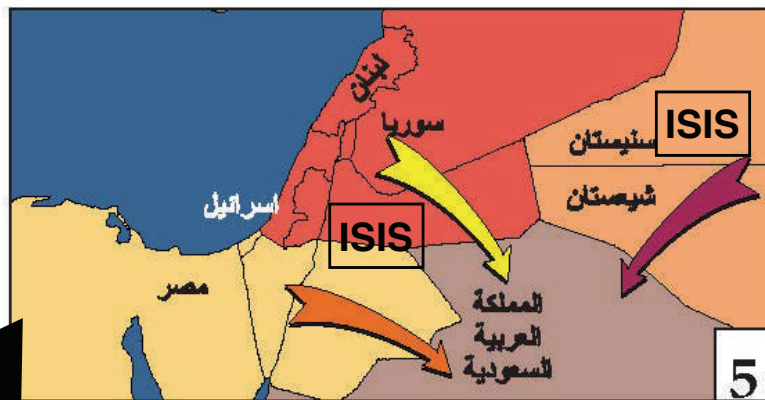
While in 1938 anti-Semitism, it would have been difficult to draw a straight-line prediction to Hitler's 1939-1940 'blitzkrieg' invasions into Poland and France.

2014 Anti-Zionism



1.

2016 Islamist Sweep to the Sunni Oil States



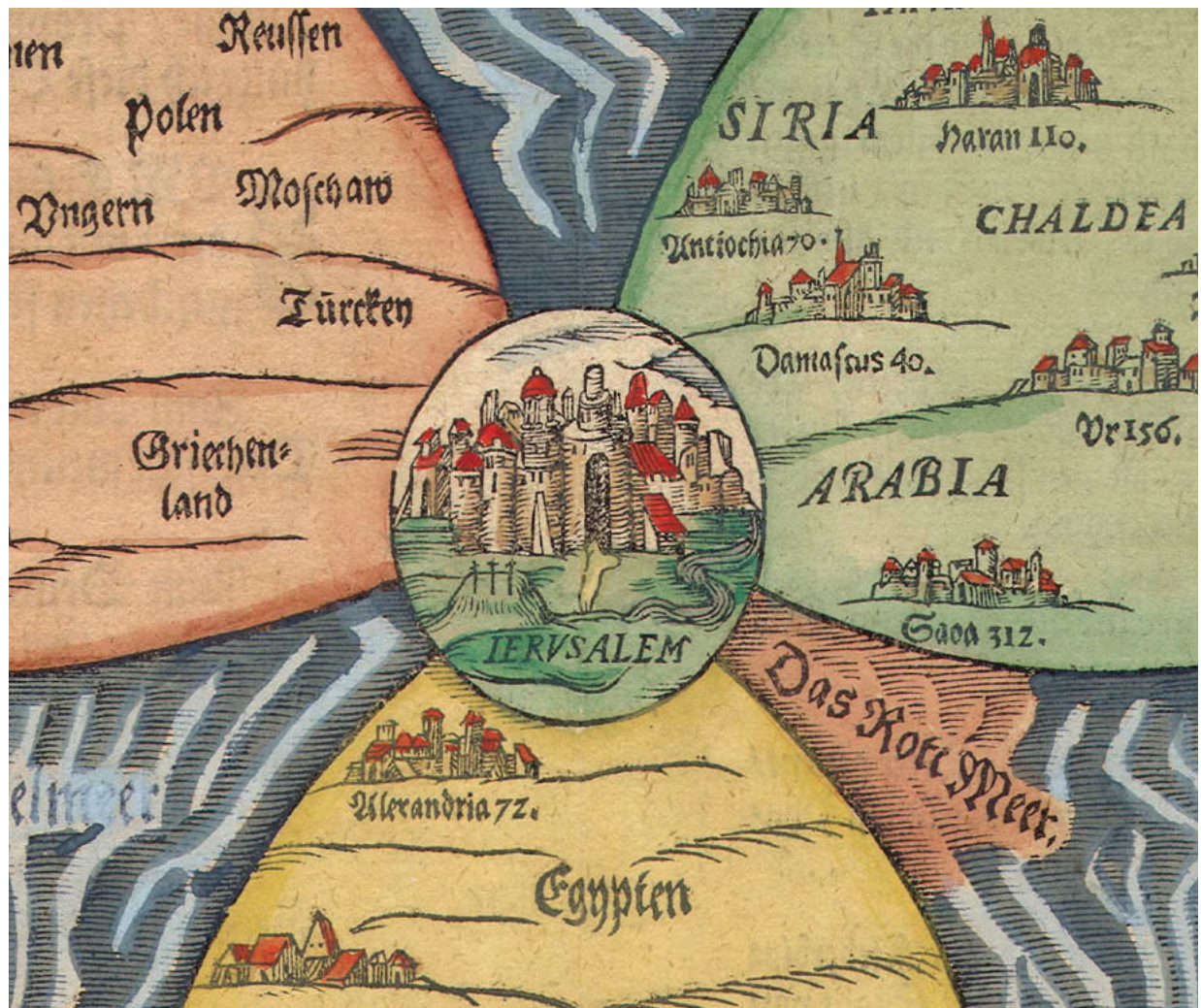
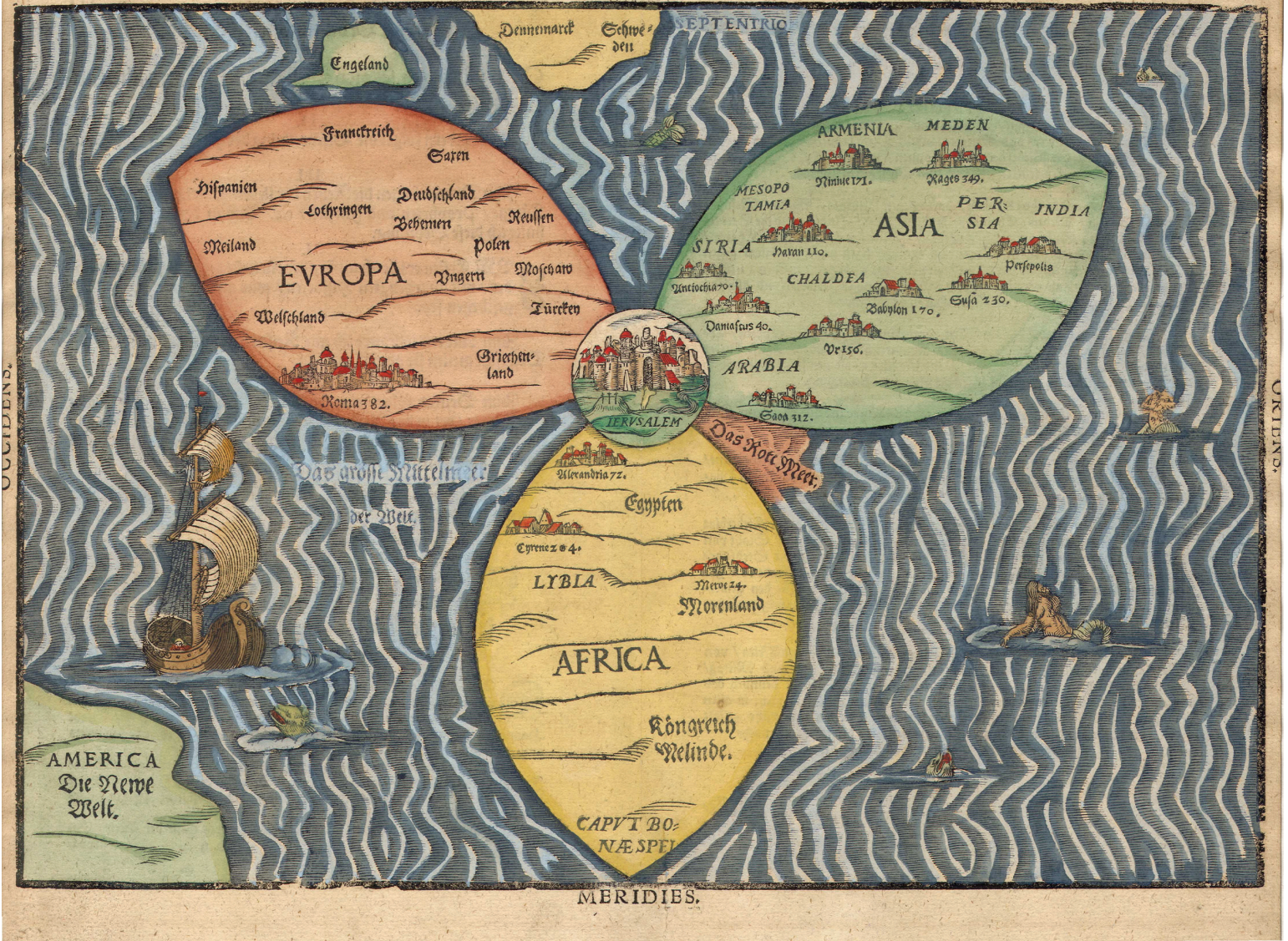
2.

2017 Islamist Sweep into Southern Europe



3. Maps

However, in 2014 anti-Zionism, the new anti-Semitism, we can draw a straight and direct line of prediction of a 2016 Islamist sweep southward into the Sunni oil kingdoms of Saudi Arabia, and the Emirates, and a 2017 Islamist sweep westward through Cyprus, and into the core-NATO country Greece. How? With simple Maps!!



“Demilitarized” Palestinian State =



As published in Arutz Sheva 4/30/11
www.israelnationalnews.com/News/News.aspx/143793

Katyushas carry chemical weapons too!

(646) 263-4606 www.MarkLangfan.com mapmun@aol.com

Poll No. 191

Published Date: August 27, 2014

Dr. Kukali: "The PA-President Mahmoud Abbas (Abu Mazen) enjoys the satisfaction of his people in Gaza Strip with his performance".

The key poll results are:

- (61.2%) of the Palestinians oppose the deployment of UN-multi-national forces in Gaza Strip.
- (54.0%) are satisfied with the performance of the PA-president "Abu Mazen".
- (64.7%) rated the stances of the UN Secretary-General Ban Ki-moon as "negative".
- **(88.9%) support the firing of rockets from Gaza at Israel.**
- (58.1%) are content with the ICRC performance, (71.2 %) with that of the UNRWA.
- (75.4%) believe that the deterrence of the Palestinian Resistance has increased.

To download the entire poll, in [English](#), in [Arabic](#)

**New
Fuel
Air
War
Head**



Old Hamas pre-July 2014 Rockets



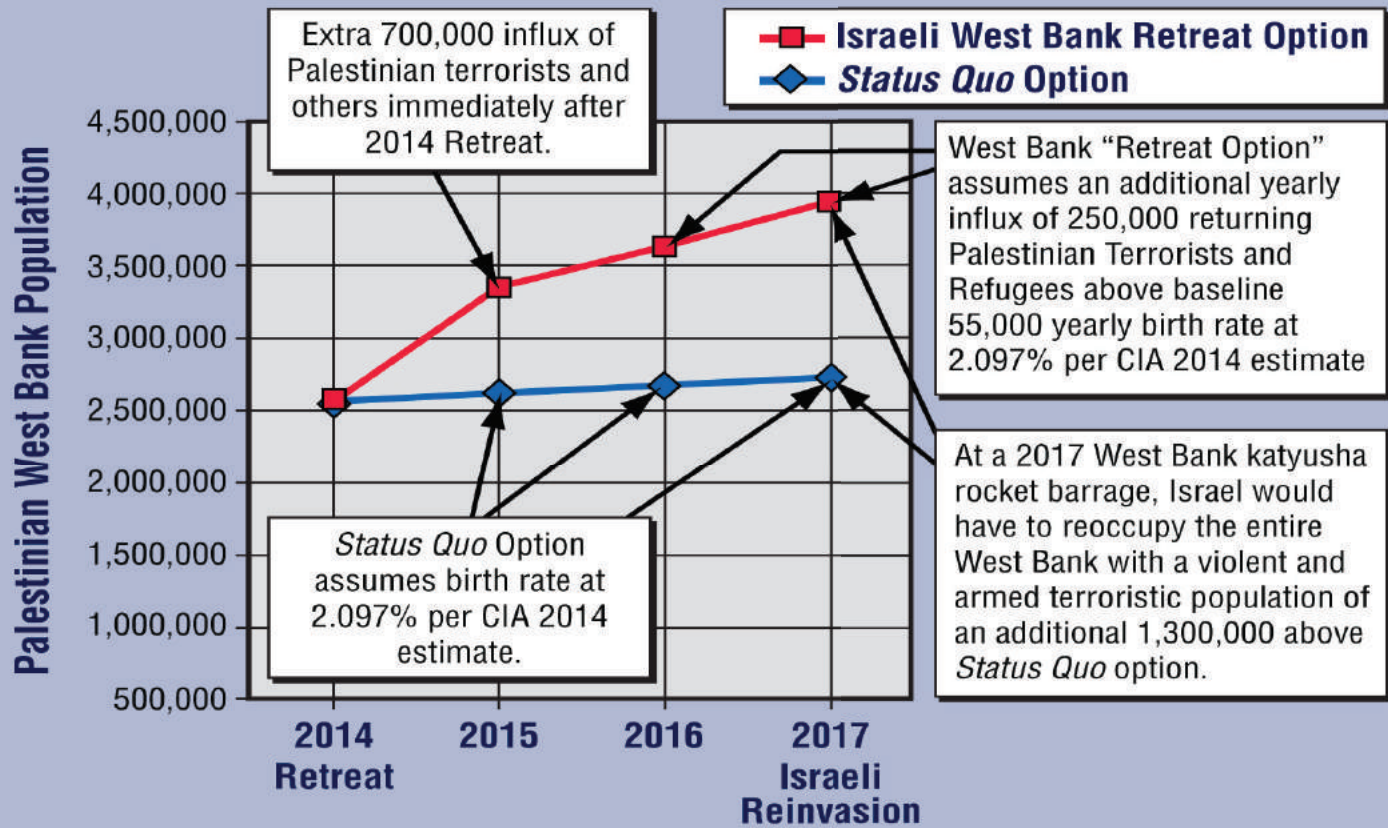
6
feet
tall

NAME	Qassam-1	Qassam-2	Qassam-3	Grad	WS-1E	Fadjr-5	M302
DIAMETER	60 mm	150 mm	170 mm	122 mm	122 mm	333mm	302mm
RANGE	4 km	10 km	12 km	20 km	45 km	75 km	150 km +
WARHEAD	0.5kg	5 kg	15 kg	18 kg	22 kg	90 kg	150 kg+
YEAR	2001	2002	2005	2008	2008	2012	2014
SOURCE	Gaza	Gaza	Gaza	Iran	China [via Iran?]		China + Syria

globalsecurity.org as adapted by Mark Langfan

“Demilitarized” Palestinian State =

Palestinian West Bank Population ‘Explosion’ from an Israeli West Bank Retreat, Compared to the Palestinian Population Under the *Status Quo*.



Grand Opening

www.MarkLangfan.com

The New York Times:
“Interesting” “Worthwhile”



The Katyusha Rocket "Multiple Rocket Launcher" BM-21 pictured below can be easily taken apart and smuggled into a "Demilitarized" Palestinian State. Individual Katyushas can be launched from a pipe with just a car battery. Katyushas can easily carry chemical warheads.

For more information
call: (212) 832-4065

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or visit: www.MarkLangfan.com

Katyushas carry chemical weapons too!

Steinitz: Abbas is offering us 'collective suicide'

“If they can’t do that, what are they offering us? A Palestinian state armed with thousands of rockets and antitank missiles?”

By YAAKOV LAPPIN – Sept. 8, 2014 - 13:35



Yuval Steinitz

“When you look at the whole of the Arab-Muslim Sunni arena... organizations with jihadi agendas are spreading.

Hamas took over half of the Palestinian Authority in Gaza through force, while executing hundreds of Fatah members.

“Hamas took over half of the PA. We can’t disconnect that from the wider context,” Steinitz said.

He questioned how and if a future Palestinian state in the West Bank could stop jihadi organizations, be they al-Qaida, Islamic State, Hamas, or Islamic Jihad, from taking over and toppling it.

“This has already happened to the PA in Gaza. Yesterday, we heard Abu Mazen [Mahmoud Abbas] talk against them [Hamas],” Steinitz said. “Who can seriously guarantee that what happened in Gaza to half of the PA can’t repeat itself in Judea and Samaria, in Kalkilya, Tulkarm, Nablus, and Jenin? What wondrous security arrangements can prevent this?” **“If this repeats itself in Judea and Samaria, this becomes an existential threat. From there, thousands of shortrange rockets... put Tel Aviv, Gush Dan and Jerusalem in range. From Gaza, mortar fire creates a very severe threat on Nahal Oz and Nirim.**

“But these shells, with ranges of up to 7 km., fired from Judea and Samaria, get to Jerusalem. Petah Tikva and large parts of Route 6 connecting northern Israel to its south. What constitutes a severe threat in Gaza, becomes an existential threat from Judea and Samaria.”

Steinitz said Abbas is offering Israel a diplomatic process without security or peace.

“One can’t ignore the dynamic of recent years in the whole of the Middle East. Abu Mazen isn’t the terrorist firing the rockets, that’s true. He condemns Hamas’s terrorism as counter-productive.

“But he not only continues to incite against Israel’s right to exist. He can’t be cleared from responsibility of what is happening in Gaza. Before the disengagement from Gaza, nine years ago, he said Palestinians would take responsibility for Gaza and that there would be no rockets or hostilities.

“Since then, 16,000 rockets have been fired at us, not including mortars. Palestinians have to prove that they can demilitarize Gaza.

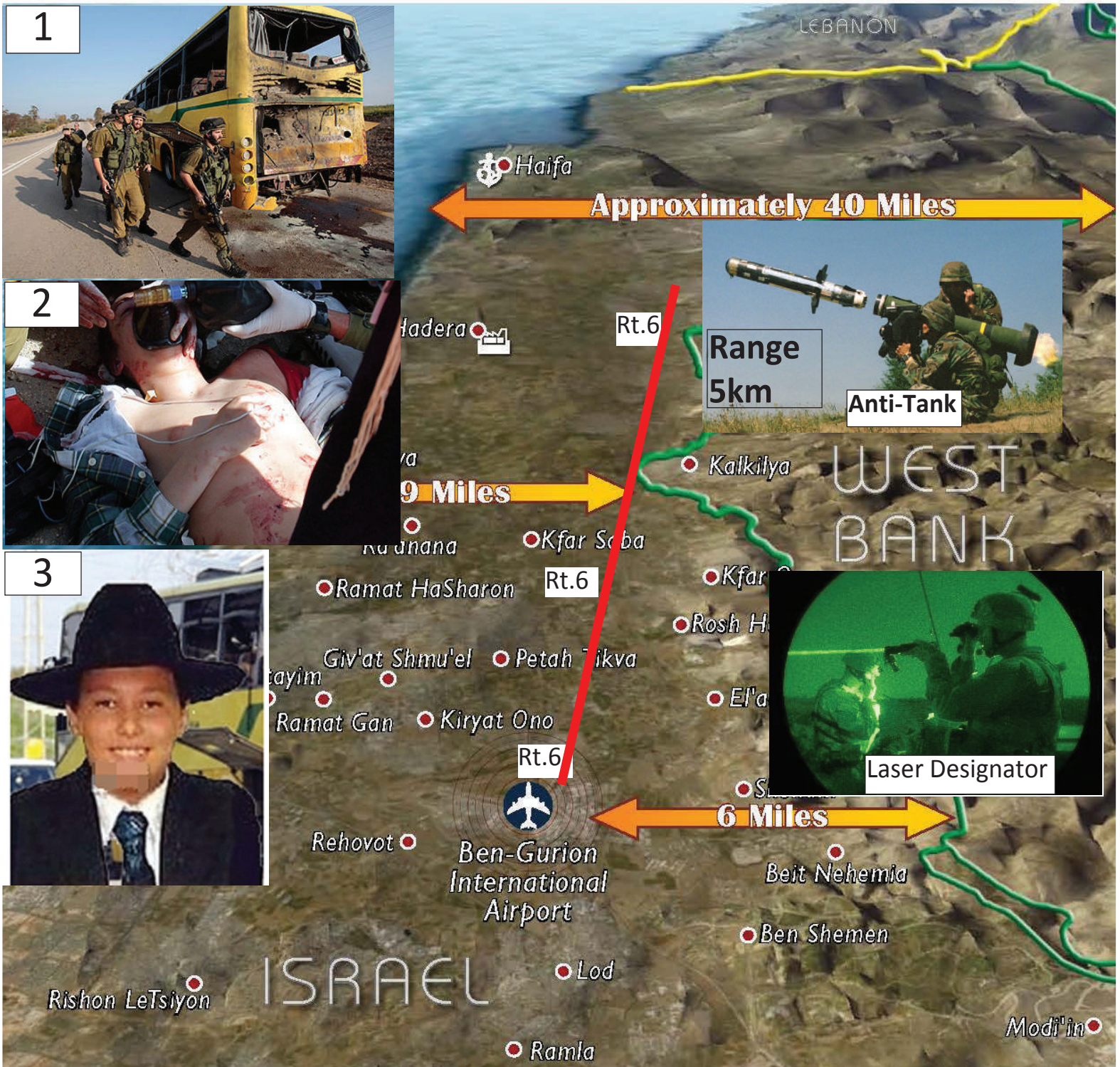
“If they can’t do that, what are they offering us? A Palestinian state armed with thousands of rockets and antitank missiles?” Steinitz is heading an Israeli delegation, including officials from the

Mossad, the Israel Atomic Energy Commission and Defense and Foreign Ministries to Washington, to for two-day talks regarding Iran’s nuclear program. The delegation departed for the US on Monday evening.

<http://www.jpost.com/Arab-Israeli-Conflict/Steinitz-Abbas-is-offering-us-collective-suicide-374753>

Route 6 will be "Road Kill"

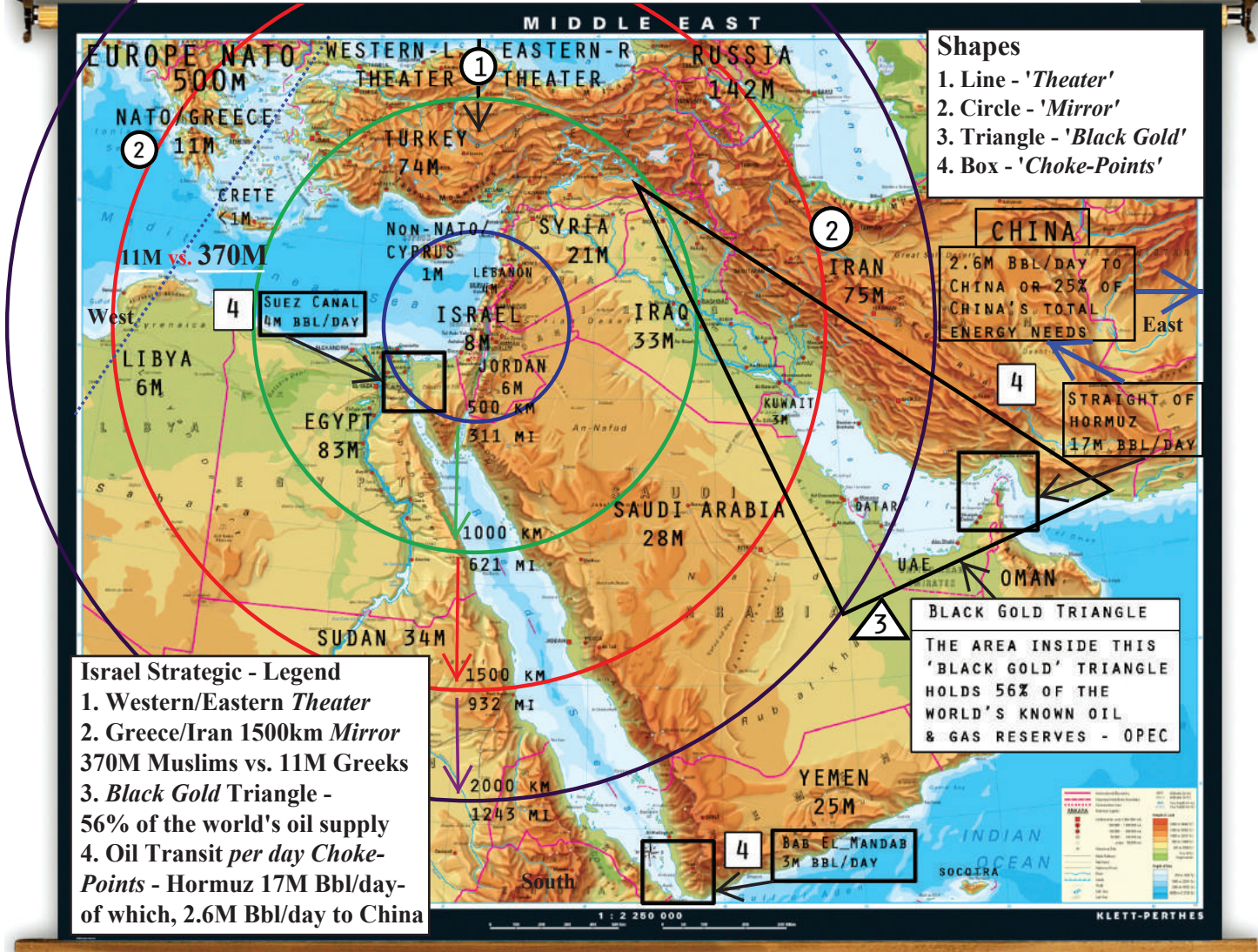
Israel's Geographic and Topographic Vulnerabilities Opposite a Prospective Palestinian State



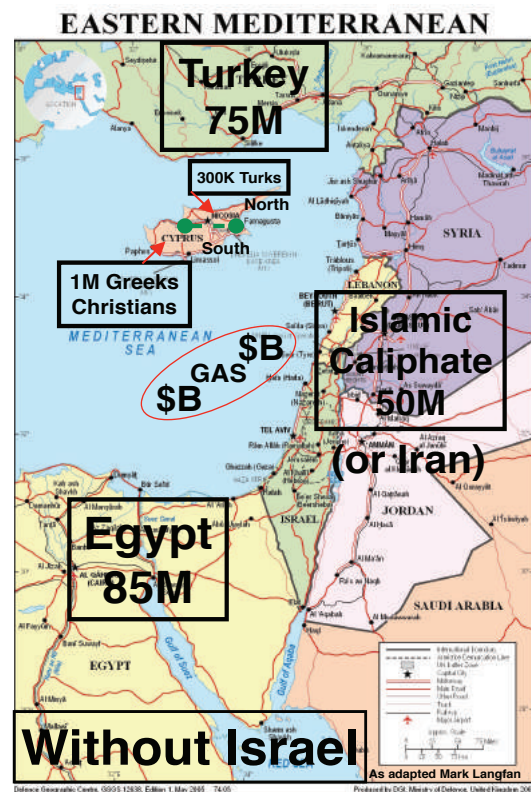
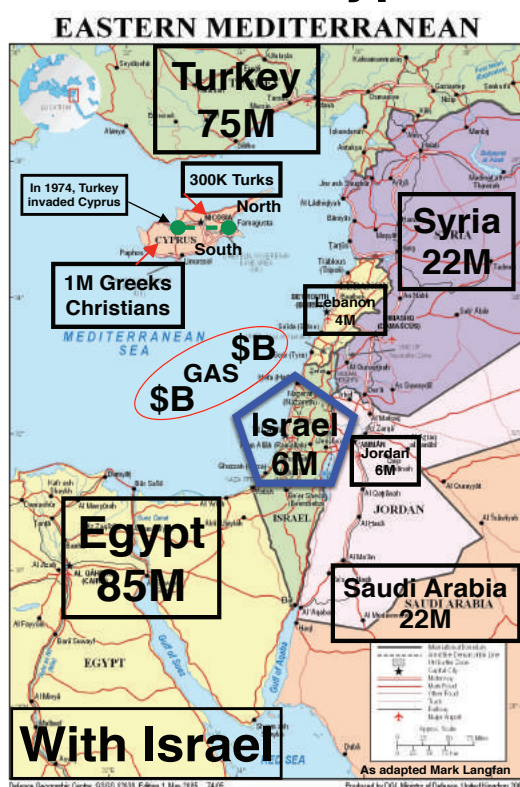
1. Daniel Viflic's School Bus is Hit By Gazan Anti-Tank Missile on April 8, 2011
2. Daniel Viflic Receives Emergency Medical Attention
3. Daniel Viflic Died on April 18, 2011

Looking north up the Tel Aviv/Netanya Coastal plain
 "The Narrow Neck of Israel"
 70% of Jewish Population and
 80% of the Industrial Base

1. Israel Strategic Value- 370 Million Muslims v. 11 Million Greeks



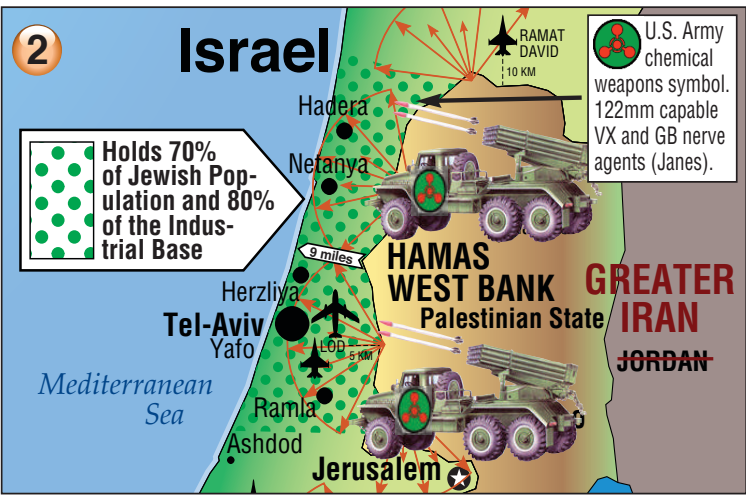
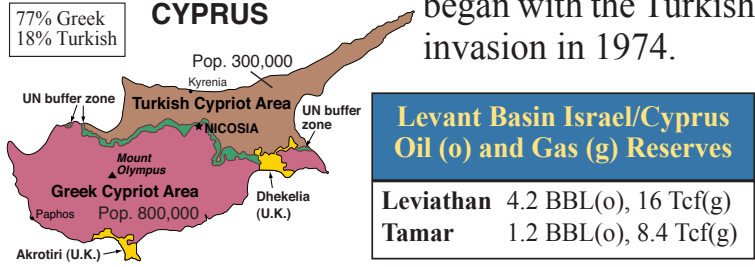
**Israel is Cyprus' First, and Last Line of Defense.
Without Israel, ...
1M Christian Cypriots would face 210 Muslims.**



Israel IS NATO's South-Eastern Flank defending Cyprus, Rhodes, Crete, and even Greece, against Turkey and an Iranian-occupied Israel.



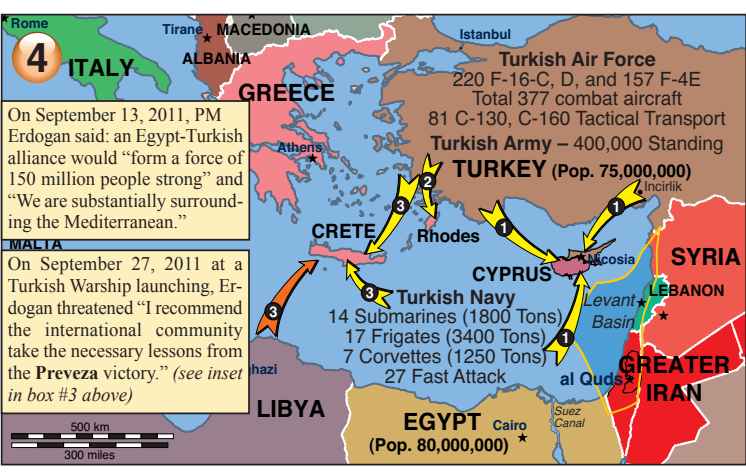
1. Now, Israel's battle-ready Order of Battle gives NATO a dependable, cost-effective, NATO-friendly shaped Battle Space to protect Greek Cyprus from a Turkish/Muslim Attack and devastation which began with the Turkish invasion in 1974.



2. Iran will first topple Jordan soon after a West Bank State is created. Hamas will overthrow Fatah in the West Bank, as they already have overthrown Fatah in Gaza. A West Bank Hamas Palestinian State will have tens of thousands of smuggled Katyusha Rockets (including VX (persistent) and GB (Sarin) nerve agents (Janes)) ranging over Tel Aviv and 70% of Israel's Jewish population. On Iranian orders, Hamas will fire barrages of rockets into Tel Aviv and Jerusalem, provoking an Israeli attempt to mobilize to reinvade the West Bank which will trigger massive Arab/Iranian long-range missile strikes.

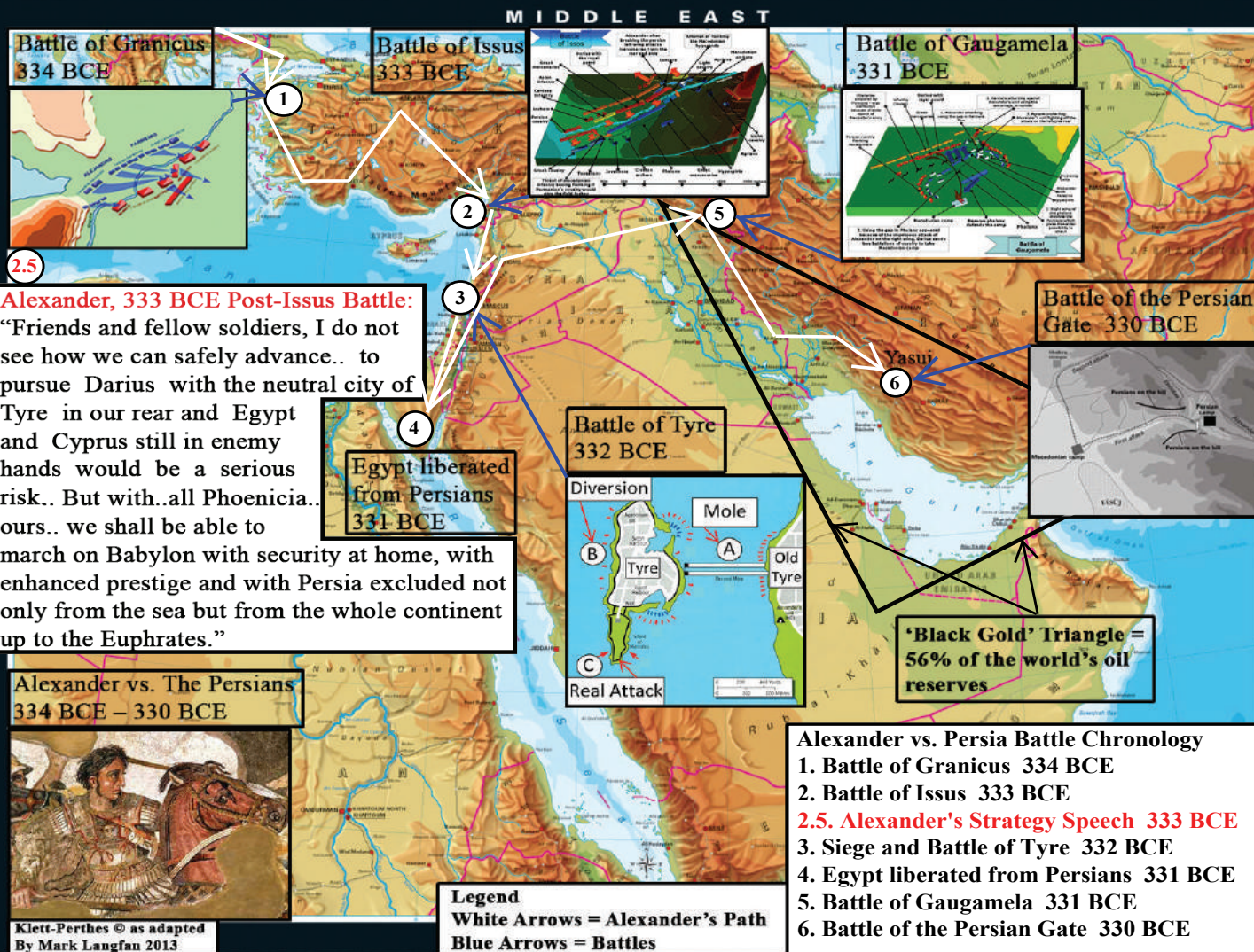


3. Such a simultaneous Muslim Scud/Katyusha attack from 5 different directions will annihilate Israel. Israel is NATO's, and the West's first, *and only line of defense*, against the Westward advance of the Iranian Caliphate or a Turkish resurrection of its Ottoman Empire. Turkey is trying to steal billions of dollars of Greek Cypriot and Israeli Eastern Mediterranean gas resources to fund billions of further Islamic Mediterranean military build-up.

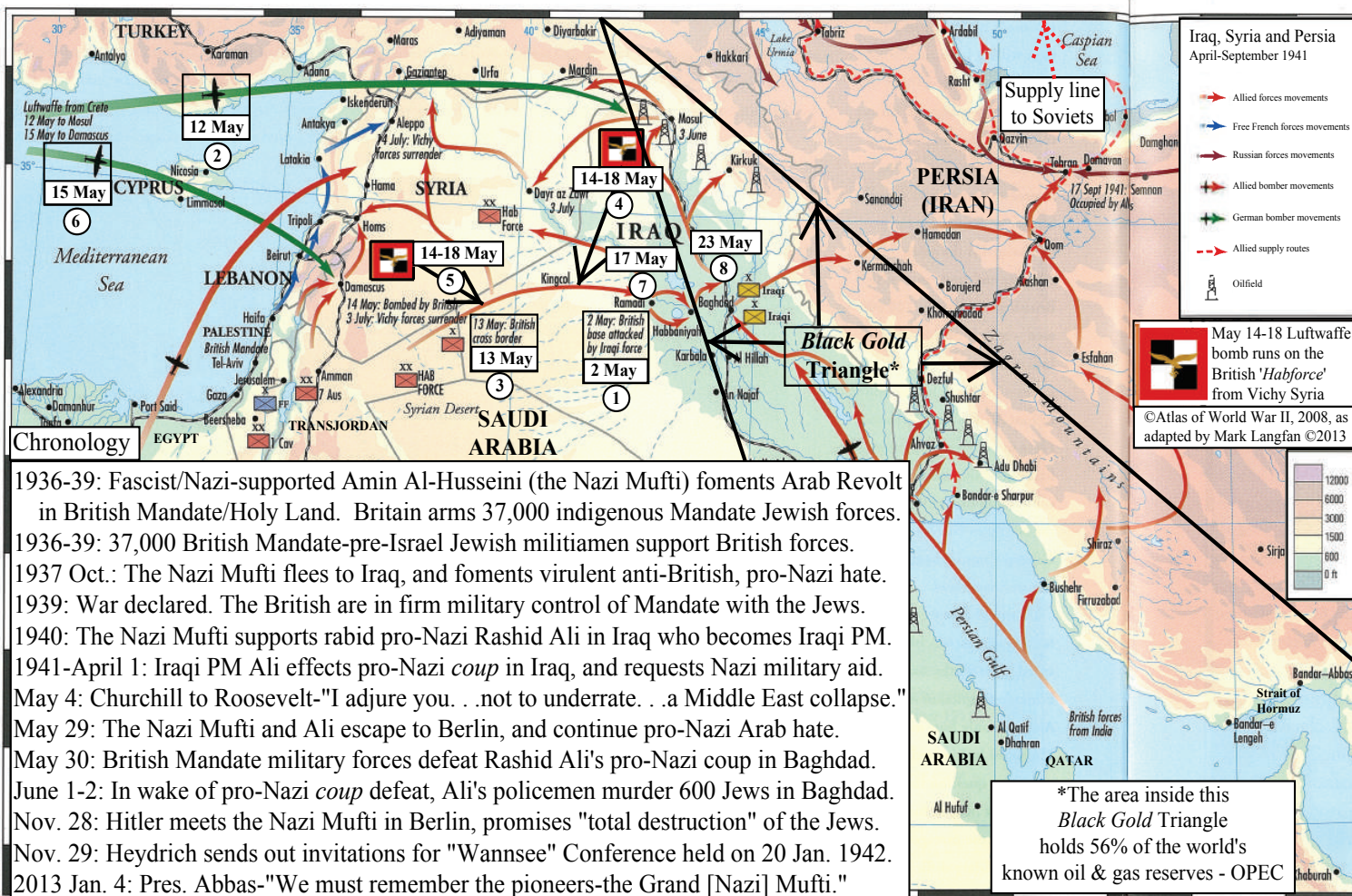


4. Without Israel's Order of Battle protecting Cyprus' Southeastern Flank and Battle Space, with Turkish frigates and subs infesting the Southern Cyprus waters and cutting off any military reinforcements and with Haifa as Iran's New Eastern Mediterranean Naval Base, Cyprus, Crete, Rhodes and even Greece will be lost to Turkey and the Iranian Shiite Caliphate. Iranian now-existing Shahib medium-range missiles (1000 miles) will range and cover southern Europe from their new bases in Yafo, Greater Iran. Greece will become indefensible. Iran and/or Turkey will be on Europe's doorstep.



2. Alexander the Great needed the Levant FOB* to defeat the Persians, 331 BCE



3. Churchill Needed Britain's Jewish FOB* to defeat Hitler's Arabs, May 1941



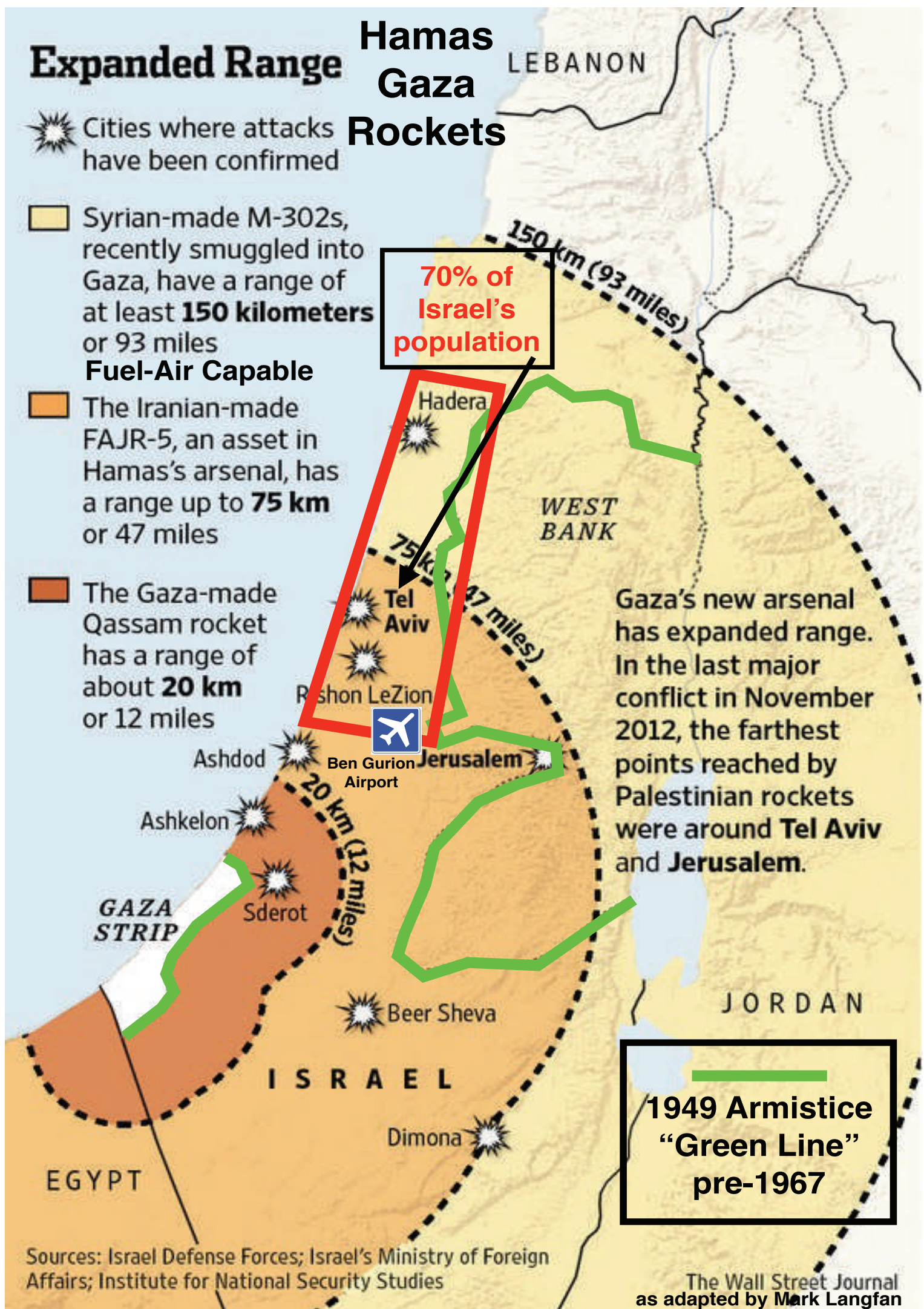
Expanded Range Hamas Gaza Rockets

-  Cities where attacks have been confirmed
-  Syrian-made M-302s, recently smuggled into Gaza, have a range of at least **150 kilometers** or 93 miles
-  The Iranian-made FAJR-5, an asset in Hamas's arsenal, has a range up to **75 km** or 47 miles
-  The Gaza-made Qassam rocket has a range of about **20 km** or 12 miles

70% of Israel's population

Gaza's new arsenal has expanded range. In the last major conflict in November 2012, the farthest points reached by Palestinian rockets were around **Tel Aviv** and **Jerusalem**.

1949 Armistice "Green Line" pre-1967



Sources: Israel Defense Forces; Israel's Ministry of Foreign Affairs; Institute for National Security Studies

The Wall Street Journal as adapted by Mark Langfan

WS-1B/M302/Khaibar-1 Rocket

M302mm-Khaibar-1 Rocket-4 Types of Warhead

1. Blast fragmentation,
 2. Incendiary blast fragmentation,
 3. Fuel air explosive; and
 4. Anti-personnel & armor piercing dual purpose.
- The ZDB-2 blasting warhead is loaded with steel balls and prefabricated fragments. The SZB-1 submunition warhead is designed to destroy large area targets such as armor formation and infantry troops.



<u>Warhead</u>		<u>Diameter</u>
150kg		302mm
330lbs		1ft
Fuel-Air Capable		<u>Height</u>
<u>Range</u>		6.3m
100-160km		20ft
66-100mi		
<u>Weight</u>		
750kg		
1,653lbs		

WWW.MarkLangfan.com

Fuel Air Bomb: "Poor Man's Nuclear Bomb" - Gas cloud fire-burst causes vacuum instantly rupturing human lungs causing suffocation, and death within minutes. Aka: The "Auschwitz" Bomb

1 First, M302mm 175 kg/385 lb "Khaybar" Warhead Enters Atmosphere

Second, 100 ft above ground, first charge creates aerosol fuel-cloud 100 yards in diameter, 8ft thick, fuse probe extends

Finally, the Second charge ignites dispersed fuel-cloud, producing powerful shockwave

2

Air (Oxygen) rushes to feed the fire-burst explosion, creating a vacuum under the cloud rupturing peoples' lungs

3

Powerful shockwave follows explosion equal to approximately 2,000 pounds of TNT

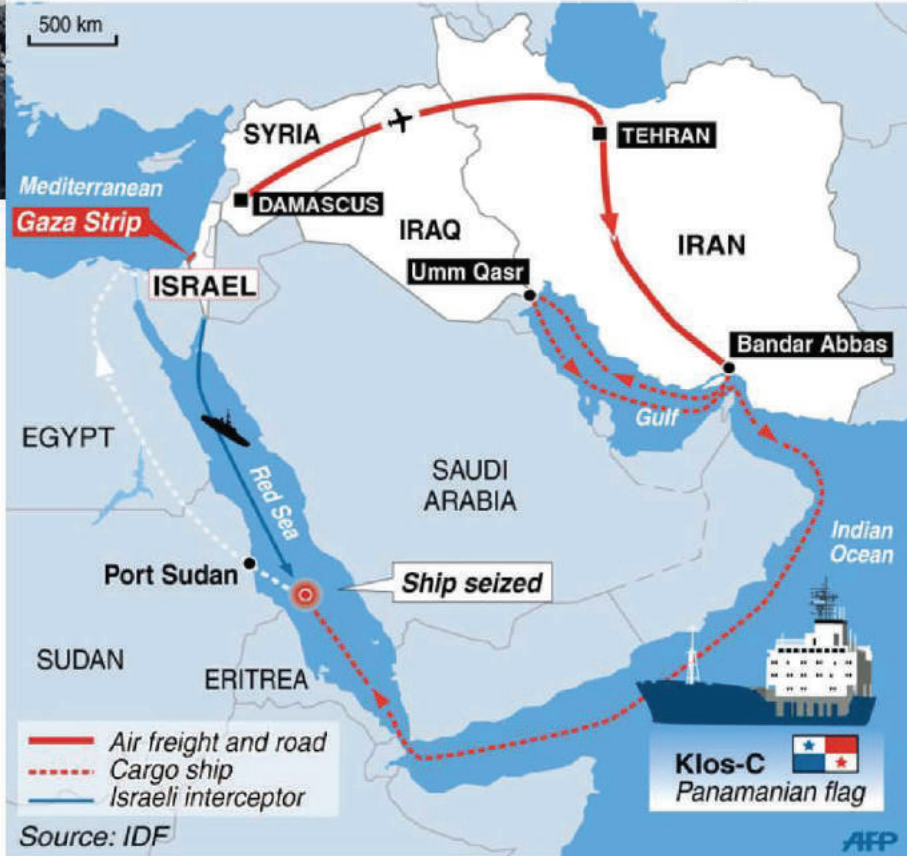
BREAKING NEWS

THE IDF INTERCEPTED AN IRANIAN SHIPMENT OF ROCKETS SENT TO TERRORIST ORGANIZATIONS IN GAZA

ISRAELI DEFENSE FORCES



Israel seizes 'Iran missile shipment'



IRAN TRIED TO SMUGGLE: March 5, 2014

40

M-302

SURFACE TO SURFACE ROCKET MANUFACTURED IN SYRIA. RANGE: 90-200 KM

180

MORTAR SHELLS

122 MM

400,000

ASSAULT RIFLE ROUNDS

7.62 MILLIMETERS

40 M302



INTO THE GAZA STRIP.

IF THESE MUNITIONS HAD REACHED GAZA TERRORISTS, THEY WOULD HAVE PUT MILLIONS OF ISRAELIS IN DANGER.

Other 302s did reach Gaza, and put 4 million Israelis in danger.

**122mm-Katyusha
State-Deniable-Weapon**



JANES: Other types of of warhead can be installed . . . including **chemical (VX or GB nerve agent see under Equivalent projectiles).**



**M302-Khaibar Rocket
State-Undeniable-Weapon**



Ball-bearings loaded into Palestinian Katyusha warheads



Israeli school crossing hit by ball-bearing Katyusha rocket warheads



Israeli Road guard rails hit by ball-bearing katyusha rocket warheads



Israeli Jewish boy crippled and maimed by Palestinian ball-bearing Katyusha rocket warheads.

#8

Jane's Intelligence and Insight
You Can Trust

ML **GB** = **Sarin**, High Volatility
Note: VX = Low Volatility

**122 mm BM-21 Grad-series rockets
(Russian Federation), Artillery rockets**

On the base model 122 mm 9M22, **the warhead** is the M-21-0F, containing 6.4kg of TGAF explosive detonated by a 9A210 or an MPB Point-Detonating (PD) fuze, which is inertially armed only after travelling some 150 to 400 m from the launch point. **Other types of warhead can be installed in place of the HE frag, including chemical (VX or GB nerve agent see under Equivalent projectiles).**

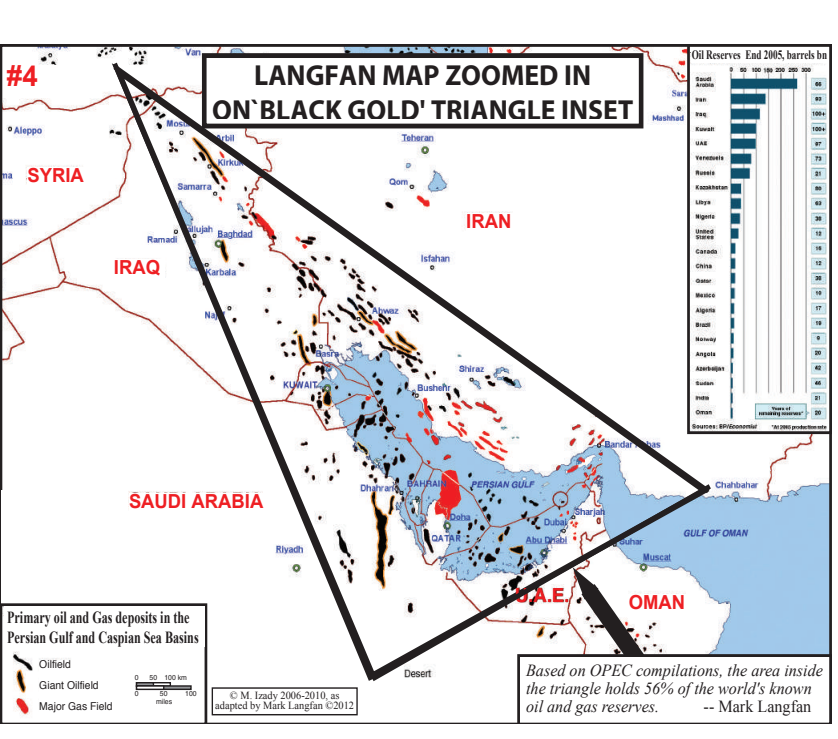
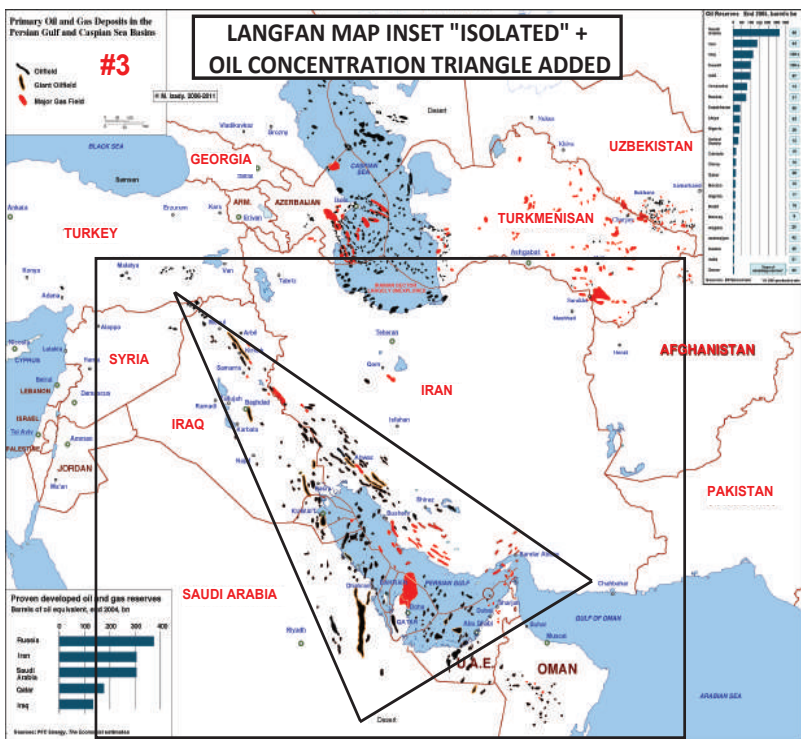
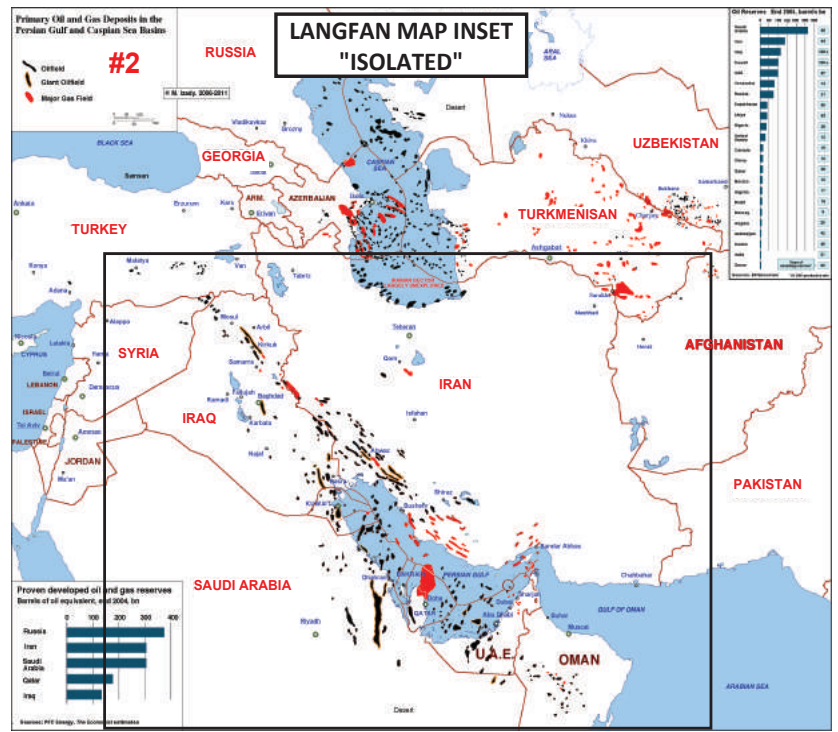
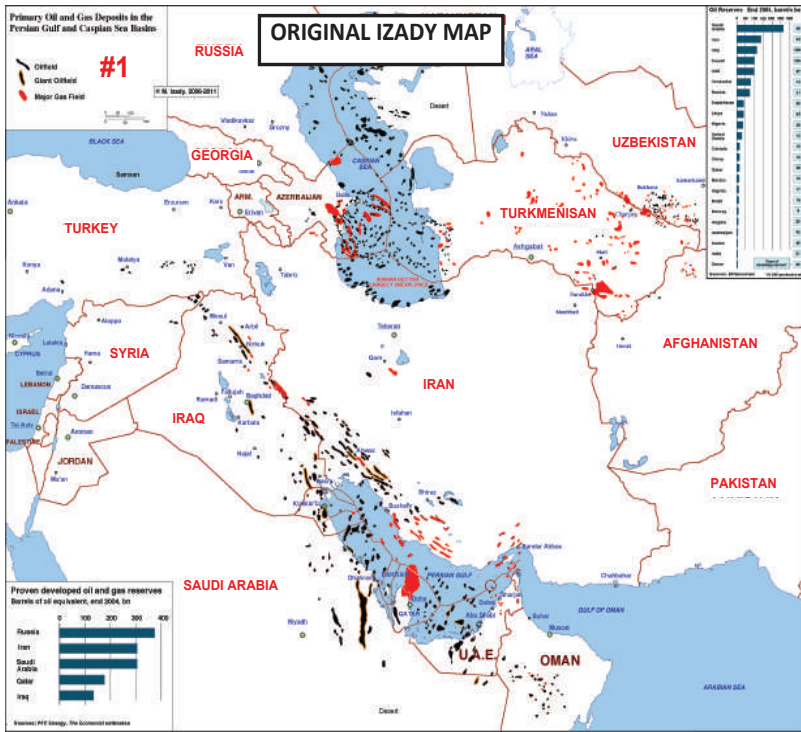
- High Volatility = Evaporates quickly
- Low Volatility = Persistent, area-denial use
- Katyushas are chemical-warhead capable

Black Gold Triangle Presentation

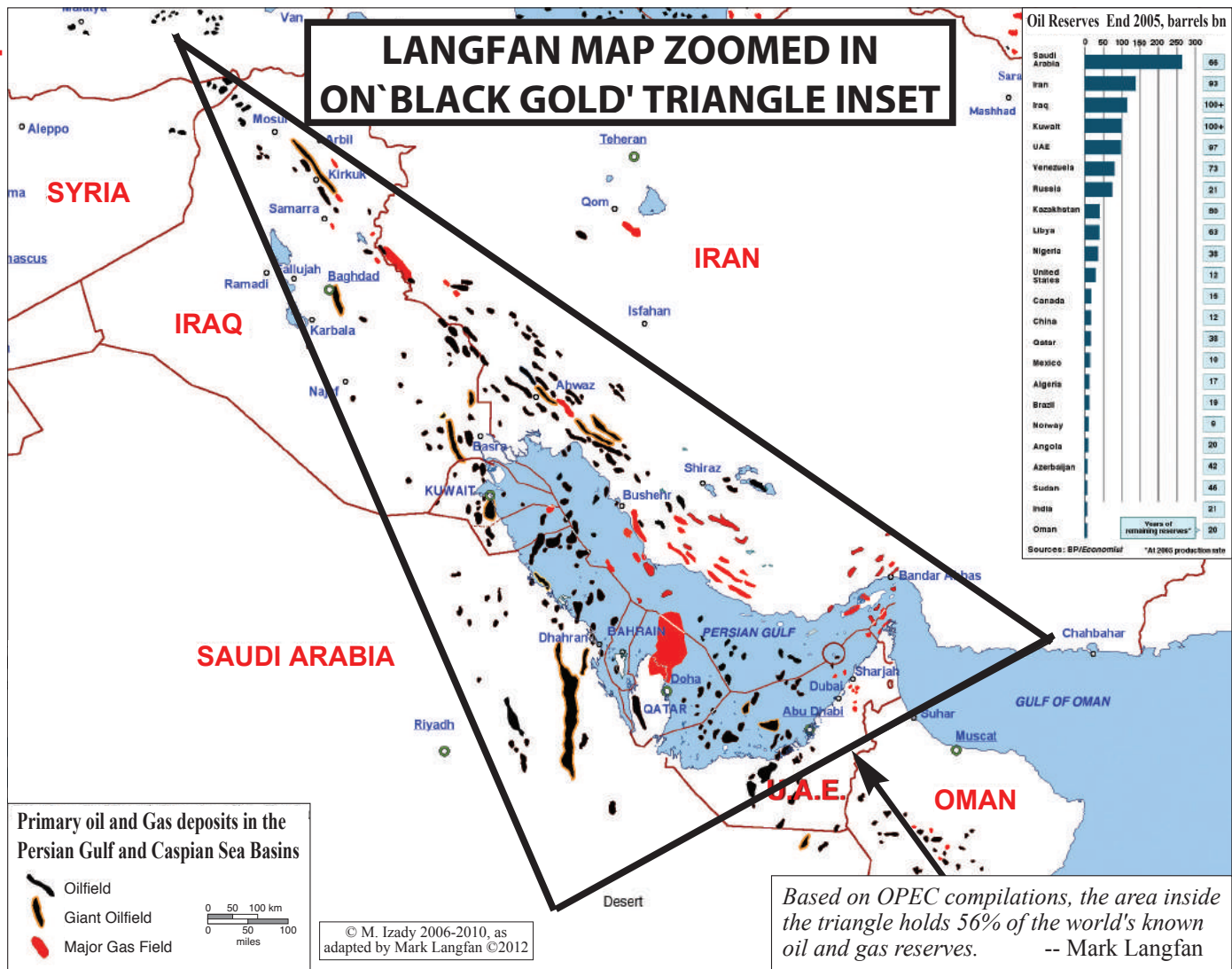
Mark Langfan, mapmun@aol.com, (646) 263-4606

www.marklangfan.com/blackgoldtrianglepresentation.pptx

www.marklangfan.com/blackgoldtrianglepresentation.html



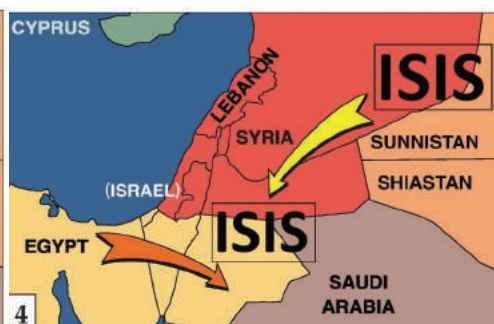
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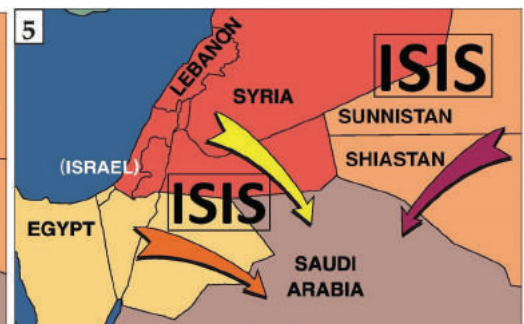
ISRAEL'S STRATEGIC VALUE POST 9/11 TERROR WAR SCENARIO



3. ISRAEL: the First Domino
 Without the natural mountain defenses of the Golan and West Bank mountains, and with Israel's ability to mobilize degraded, Israel would be easily destroyed and occupied by Syria and Egypt. Even a heavily militarized Palestinian State will be unable to militarily contain either the Syrians or the Egyptians. Hezbollah, the Syrians and the Egyptians will all vie for the occupation of the coveted Jerusalem.



4. JORDAN: the Second Domino
 Without Israel as its strategic protector, Jordan would be easily encroached by the militarily powerful ISIS (or Islamic State), Hezbollah, Syrians, Egyptians and Shiastan/Iran. Both the Islamic State (ISIS) and Syria currently see Jordan as Southern Syria and will fulfil its vision of Manifest Destiny.



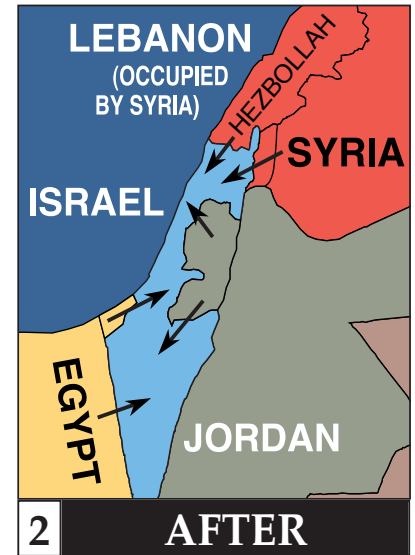
5. SAUDI ARABIA: the Third Domino
 With the militarily powerful, but oil-poor Islamic State (ISIS), Egyptians, and Syrians, and Shiastan/Iran on Saudi Arabia's northern border, Saudi Arabia will cease to exist. Without the Suez Canal under friendly occupational control, the Western powers will be unable to resupply or defend Saudi Arabia.

ISRAEL'S STRATEGIC VALUE

POST 9/11 TERROR WAR SCENARIO

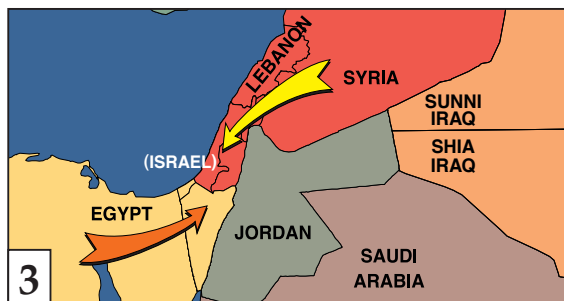


A demilitarized Palestinian West Bank / Gaza State will turn Israel from a U.S. Strategic Asset and Bulwark to Middle East Terror that is able to defend itself, into a defenseless U.S. liability, inviting attack - unable even to defend itself, let alone project American military power.



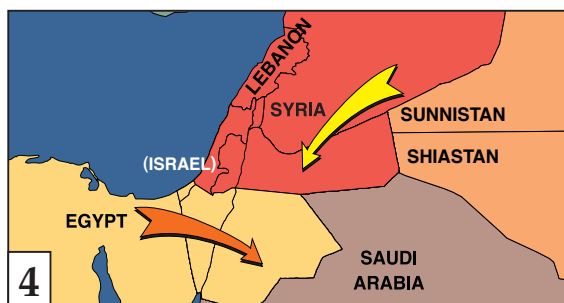
1. ISRAEL as a self-defensible U.S. strategic asset: With the Golan Heights (a), the West Bank mountain range (b) and the Gaza Strip (c) under Israeli military control, Israel is immune from a short- to medium-term existential threat.

2. ISRAEL as an indefensible U.S. strategic liability, inviting attack: Without the Golan Heights, the West Bank mountain range and the Gaza Strip under Israeli control, but instead under hostile Arab control, Israel will be strategically vulnerable and exposed to a short-term existential threat. Such a conflict will be fueled by continued Arab terrorism against Israel.



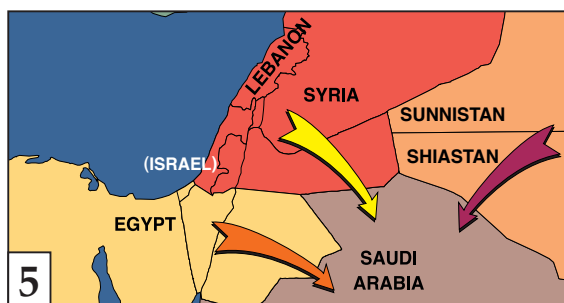
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Even a small, relatively crude nuclear device detonated above the Korean peninsula would generate an EMP with field strength well above 10 kV/m, ensuring wholesale destruction of unprotected electronic systems.⁵³ The first-order effect on coalition forces would be a command, control, and communications (C3) blackout. The EMP would permanently destroy most computers and displays at the joint task force headquarters and combined air operations center and would wipe clean critical magnetically stored data. Radio, satellite, and cell phone communications would be permanently shut down, as well as wire line telephone systems relying on microprocessor control.⁵⁴

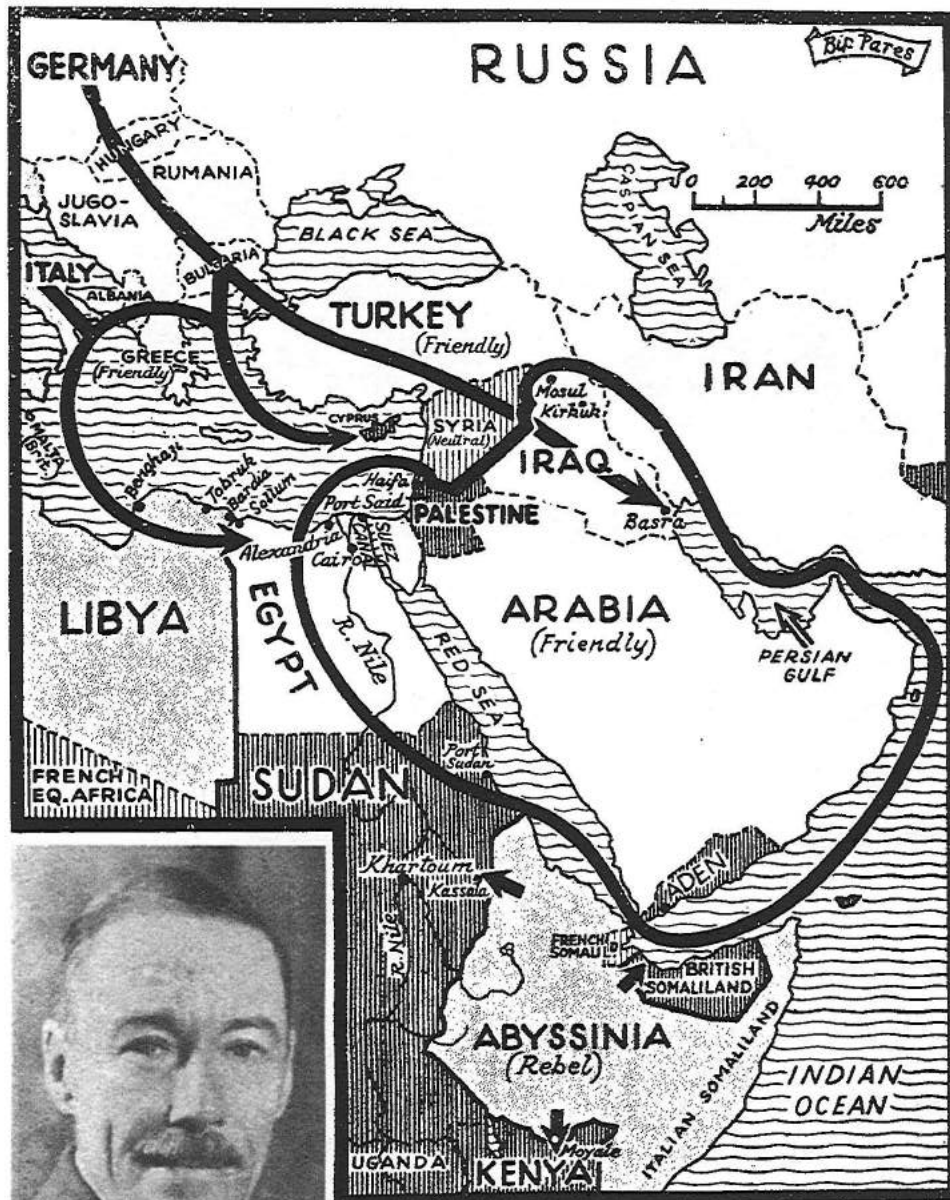
(From (November 2005 Report, *Electromagnetic Pulse Threats in 2010*, By Major Colin Miller www.au.af.mil/au/awc/awcgate/cstlbugs_chl2.pdf)

FIZZLEKRIEG™: HOW IRAN WOULD EMP ATTACK SAUDI ARABIA

- 1** Iran detonates an EMP nuclear bomb above Eastern Saudi Arabia in space above USCENTCOM HQ in Qatar.
- 2** The blast would knock electrons from atoms, causing a powerful electromagnetic pulse reaching the Earth in a billionth of a second.
- 3** The intense electrical currents would overload power supplies and blind US satellites, and 'fry' the circuits of all the computers of US weapon and communication systems, but leave human beings relatively unharmed.
- 4** With the US military installations and systems blacked-out, Iran blitzkriegs Saudi Arabia in a conventional surprise attack capturing and hostageing 30,000 living US POWs.

Adapted by
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Vast Indeed are the Two Dictators' Designs



How vast are the ambitions of the Axis schemes will be clear from this map, in which the top set of arrows indicate planned drives, while the "cello" encloses the area that Britain must surely hold. Left, Lt. Gen. Sir Philip Neame, V.C., who took over the command of the British Forces in Palestine and Transjordan early in August, 1940. Photo, "Daily Mirror"

But between the dream and its accomplishment lies—what? First the Navy of Britain and the British Commonwealth, which is far superior to the navies of Germany and Italy combined. Moreover, it is the Navy which, since the Dutch wars of the seventeenth century, has never lost a battle. For two hundred years and more Britain's warships have controlled the Mediterranean—not to mention the Seven Seas; and still today, despite all Mussolini's boasts about "Mare Nostrum," the British flag braves the breeze within sight of Italy's heavily-defended shores.

On land the forces which may be ranged to meet the legions of the Dictators are far smaller than those which would have taken the field prior to France's collapse. But Britain's army in the Near East, outnumbered though it may be by the Italians, is far superior in fighting spirit. The Anzacs are in Egypt—and the men who smashed the Kaiser's finest regiments on the Western Front 25 years ago are little likely to fear the worst that the Italians can do. They have British regulars at their side, men trained to war through the arduous years of peace: Indian troops, too, warriors of races which for centuries made war their pastime, their very life. Before Mussolini's soldiers can reach the banks of the Canal they must cross some five or six hundred miles, much of it desert, entirely waterless; and they must march along one narrow road within sight of the sea, within range the whole way of the guns of Britain's ships.

Then there are Britain's allies and the possible allies of tomorrow. There is Turkey, which never forgets that the Italian programme of expansion includes the whole of her Mediterranean coasts; there is Greece, which is also fearful of Mussolini's designs; there are Iraq and Iran, neither likely to sacrifice their independence without a blow; there are Egypt and the Sudan, and ranged on the southern frontier of Italian East Africa are the planes and battalions which South Africa has sent to the war. Then, finally, there is Russia—that vast enigma which hovers on Hitler's flank.

had to envisage a war on two fronts, and having envisaged it they shrank from it in alarm. Now, however, that Tunis, like Metropolitan France, is out of the war, Mussolini's 250,000 men in Libya are set free from that hampering fear of an attack in the rear and may now perhaps march on Egypt—that prize which has fascinated the gaze of conquerors through all the ages—and from the Nile to the Canal is but a step.

This seized, Britain's communications between the Mediterranean and India, the Cape and Australia, would be cut in their most vital spot and from Suez the Italian legions might expect to continue their career of conquest through Palestine and on to Iraq and even Iran. Here, too, France may be said to have played into Mussolini's hands, for until recently a great French army stood to arms in Syria ready and eager to help Britain in the defence of the Near East.

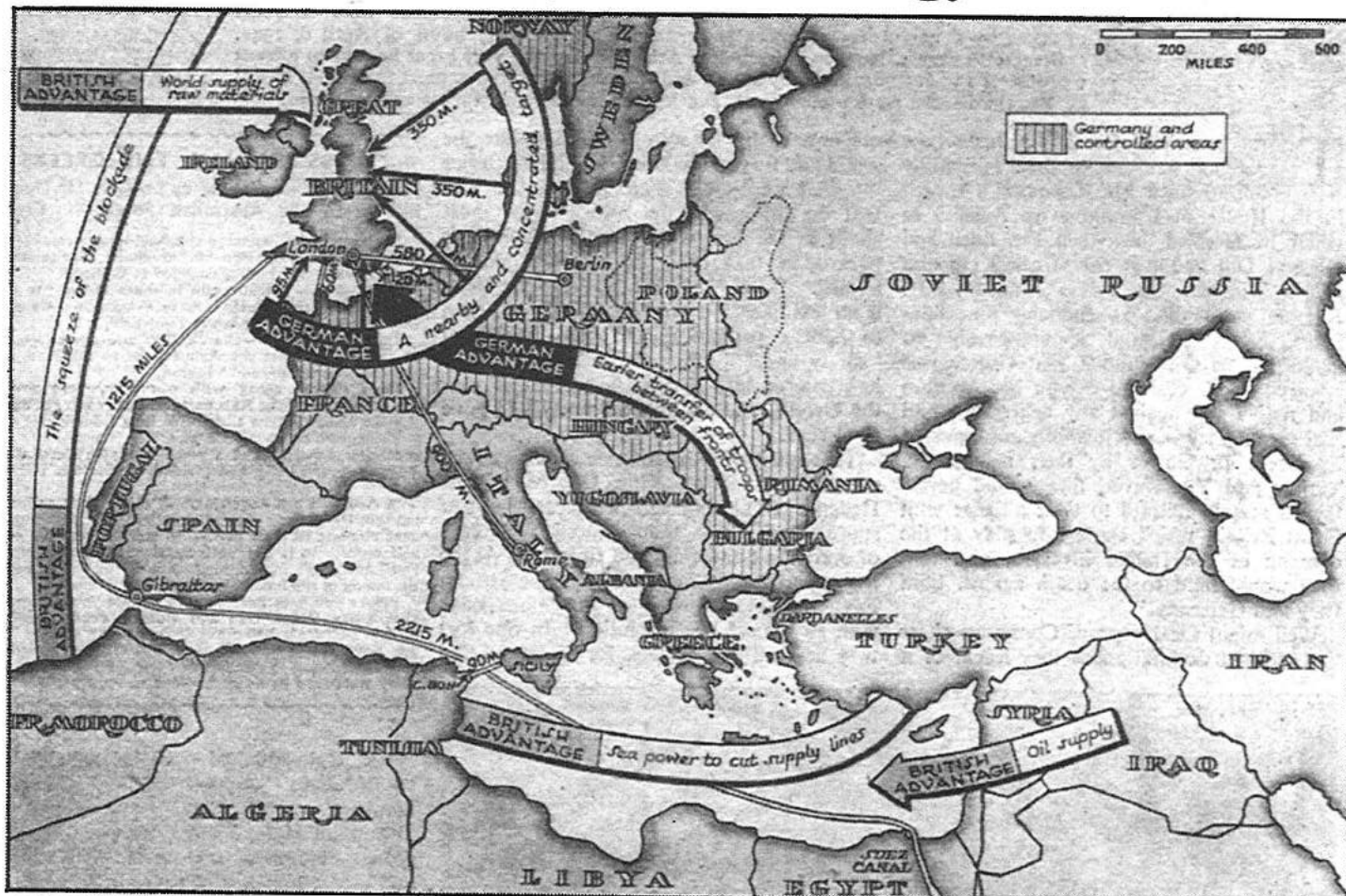
But not only the Near East would be brought into the new war zone. While the German planes continued to dash themselves in a frenzy of onslaught on the defences of the British fortress, Spain's war-weary soldiers would be gingered and goaded into

an attack on Britain's stronghold of Gibraltar, so that with both Gibraltar and Suez lost the British fleet might be caught in the Mediterranean trap. Italian columns might dash across the desert to the upper waters of the Nile in the Sudan. Khartoum would be threatened from Abyssinia; Port Said and Aden, Berbera and Sokotra, the islands of the Persian Gulf and the great oil refineries at Abadan, Basra where the great rivers of Mesopotamia meet—all would hear the guns. Still the imperial looters would not be satisfied. Alexander refreshed his tattered legions in the waters of the Indus; through all his most vigorous years India was to Napoleon a tantalizing dream. Where Alexander succeeded and Napoleon dreamed, might not Hitler dream and succeed?



A British R.N.R. surgeon in a hospital in the Near East is examining an Italian pilot-officer, one of the many brought down by the R.A.F. Photo, British Official: Crown Copyright

Britain v. Germany : the Strategy of the War



THE CAMPAIGN OF 1941 is being fought over a vast battlefield stretching from the Atlantic to the Black Sea, from the North Atlantic to the Suez Canal. How advantageous in some respects is Germany's position will be apparent from this map; but it shows, too, the strength that Britain derives from her sea power.

From "The New York Times Magazine"

A Note on Strategy

FROM the Pyrenees to North Cape, from the English Channel to the Black Sea, Hitler's legions march with none to say them nay. Not even Napoleon at the height of his greatness ruled over so many countries, chained so many peoples to his war machine. The swastika flag waves over regions into which the Roman eagles never penetrated. Never was Europe so "united" as today, when, with the exception of only two or three comparatively minor states, the whole family of continental countries makes up Hitler's empire.

Great have been the victories won by the generals and the soldiers of the man who was a company runner on the Western Front in the last war. Great victories and many, but still the war is not over. Just beyond the rim of Hitler's Europe sail the ships of Britain's Navy. If the land is Germany's the sea is still what it has been for centuries—Britain's. As in Napoleon's day so in this, the mighty struggle is one between a whale and an elephant.

Germany's Supremacy on Land

The elephant's strength is based on what are called the interior lines. He occupies the inside of the circle, and it is an easy matter for him to transfer his troops and his trains from one sector to another. His communications are magnificent, consisting as they do of the network of railways and roads with which generations of enterprise have equipped the continent. He has enormous populations—his own and the races he has enslaved—on which to draw for his cannon fodder and his industrial serfs. Then for years he prepared for war, and he did not make the mistake of thinking that this new war would be fought on the same lines as that of 1914-1918; in other words, he thought not of trenches and

barbed wire and concrete, but of tanks and motor lorries, of dive bombers and troop-carrying 'planes, of spies and Fifth Columnists. It is not really surprising that with all these advantages, to which may be added the tradition of discipline of Europe's greatest militarist nation, the Germans should have proved able to crush all their foes within reach of their armoured columns.

Britain's Mastery of the Sea

Against this continent in arms Britain flings into the balance her Islands, her Commonwealth, her Mercantile Marine and incomparable Navy, the resources of a quarter of the globe, the products of the labour of one fifth of the human race. All that might tends to be concentrated in the waters that surround the Fuehrer's Reich. To the British Isles a great stream of ships brings food and raw materials without which our millions could not live, the war supplies without which we could not continue the fight. At the same time our fleets have swept from the seas Hitler's ships, and hold the Continent in the relentless grip of the blockade. No doubt there are many leaks in the blockade; in our impatience its operation seems all too slow. But there is not a home, not a factory, not a fort or camp in Hitler's Germany which is not the poorer because of our patrolling Navy.

Sea-power, then, is Britain's great advantage. Because of it she can feed her own people and (eventually, at least) make the Germans go hungry. Her fighting line can be supplied from America, democracy's inexhaustible arsenal. She can tap the world's oil supplies, whereas the Germans have to "go easy" on petrol, and if they want to replenish their stocks must make a drive against Iraq or the Russian oil fields in the Caucasus.

But the sea is no obstacle to the aeroplane, and Hitler's air power is still greater than

Britain's. Far out over the Atlantic rove his bombers, seeking whom they may devour of our merchant ships, and night after night there descend from the skies on our cities loads of death-dealing metal. True, Britain too has a great Air Force, one which is growing daily in numbers and might; but in the air war the Germans have the advantage of a concentrated target, whereas the British offensive has to be distributed over a vast area, many of the most vital spots being almost out of range of even our long-distance 'planes. Already there is discernible a shift of industry from the much-bombed Rhineland and Ruhr to Czechoslovakia and even to Poland; and as our air strength grows, as our bombers multiply and grow in range, more and more of Germany's factories will be transferred to the more distant parts of Nazi-controlled Europe. But in Britain no such transfer is possible; war workers, her civilian population, are in the front line in very deed. They must fight where they stand; they can do no other.

Whale or Elephant: Which?

This, then, is the strategical setting of the battle of 1941. Already the curtain has gone up on the terrific drama; already the issue is joined between the hordes of Hitler's slaves and the armies of free men put into the field by the British Commonwealth and its Allies. In the passes of Greece, on the sun-blistered desert of North Africa, the mechanized Attila is struggling furiously, with an utter disregard for human life, to pierce the ranks of those—oh! so few and none too well equipped—who alone stand between him and the domination of the world.

Before the year ends the issue will have been decided. Whale or elephant; which will win? By the time the leaves now forming in the spring sunshine have withered and fallen we shall know.

Without Oil the Wheels of War Must Stop

As long ago as 1904 Lord Fisher declared that the countries which control oil supplies will control the world. Today, during a war of petrol- and oil-driven machines, the advantage possessed by the Allies, who have not only huge oil resources of their own but may draw on the resources of the whole world, must become ever more apparent.

If it be true to say that civilization could not continue without oil, it is still more true to say that without oil, war as it is waged in the twentieth century would be quite impossible. Aeroplanes, tanks, armoured cars, mechanical transport, ships of war—all are dependent on the oils extracted from the bowels of the earth. In 1938 the world production of crude petroleum was over 270,000,000 metric tons.

Nature has greatly favoured the democratic powers in the distribution of petroleum. By far the greatest producer is the United States, which is responsible for some 60 per cent of the world's present supplies. In 1938 Germany and Austria produced only 615,000 tons, Italy 140,000 tons (127,000 from Albania), Poland (507,000) and Japan 356,000. Compare with these figures the production of the U.S.A. of over 164,000,000 tons, and even of Canada, which in 1938 produced 940,000 tons.

Next largest producer to the U.S.A. is the U.S.S.R. In 1913 Russia's extraction of petroleum was over 9,000,000 tons; from 1920 to 1925 it oscillated between 3,000,000 and 8,000,000 tons, and since then has shown a steady increase, mounting in 1938 to about 29,000,000 tons. At present the Russian refineries are capable of dealing with the output, but many of them are out of date. Moreover, the industry produces only sufficient

to satisfy the country's own requirements, as is shown by the fact that between 1932 and 1938 Russian exports of mineral oils fell from just over 6,000,000 tons to 600,000 tons. Russia might increase her petroleum exports by intensifying her production, and this would seem feasible enough seeing that she has vast deposits of oils still unexploited. But it would take time, and it would necessitate a thorough overhaul of her present very defective transport organization.

Only a very little short of Russia's production is that of Venezuela, which in 1938 produced just under 28,000,000 tons; as recently as 1935 her production was under 3,000,000 tons. There are indications that oil might be tapped right along the Andes to the south of Argentina.

Britain's Huge Oil Base in Iran

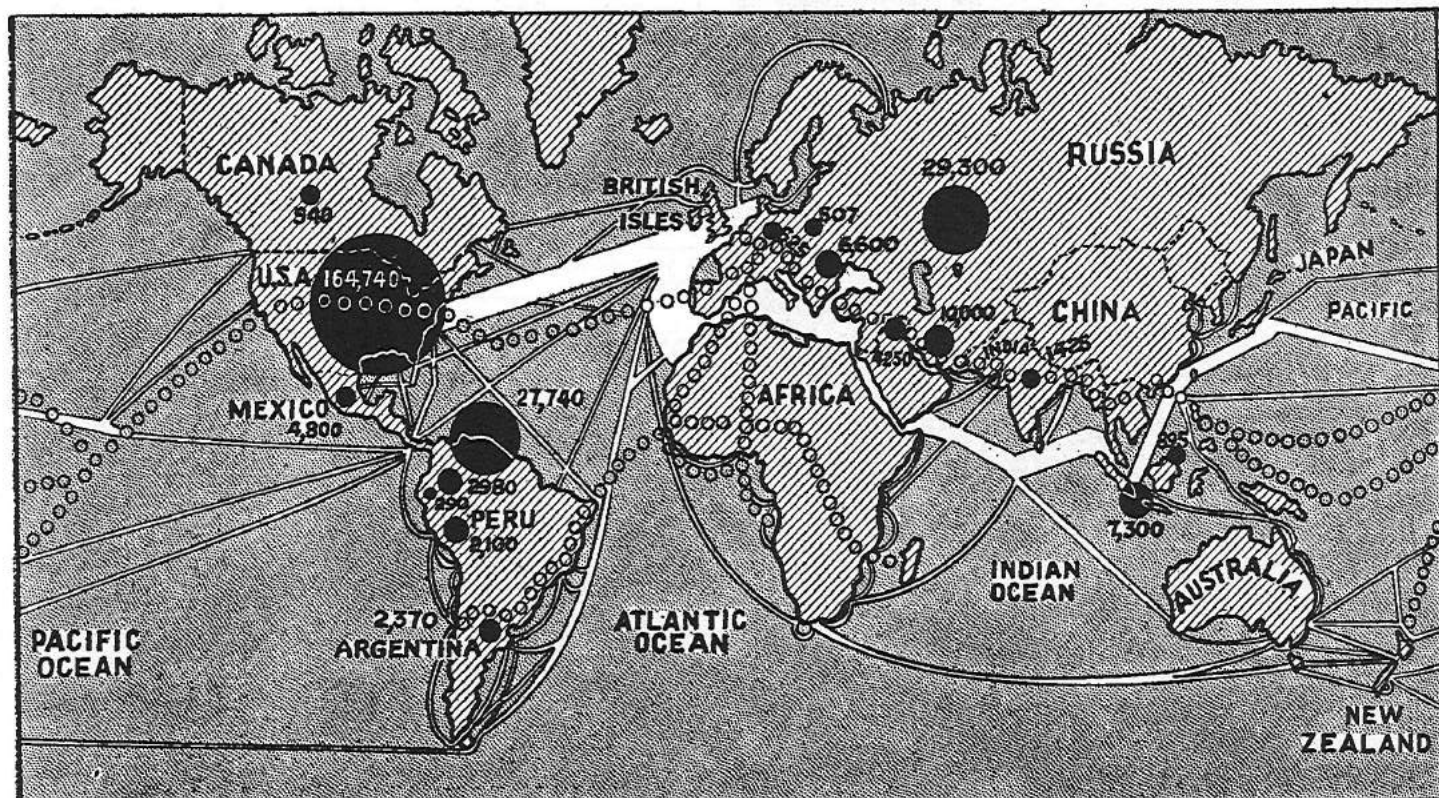
Next on the list is Iran, where in 1938 the production of crude petroleum was over 10,000,000 tons. Its exploitation is in the hands of the Anglo-Iranian Oil Company, which possesses at Abadan one of the three largest oil refineries in the world. Its storage capacity is nearly a million tons. Abadan is the refuelling centre of the British Navy in the East.

Of the other producer-countries the most important are the Netherlands Indies, which produced over 7,000,000 tons in 1938; Rumania (6,600,000 tons), Mexico (4,800,000 tons), Irak (4,250,000

tons), the British West Indian island of Trinidad (2,470,000 tons), Argentina (2,370,000 tons), Peru (2,100,000 tons) and British Burma (1,060,000 tons).

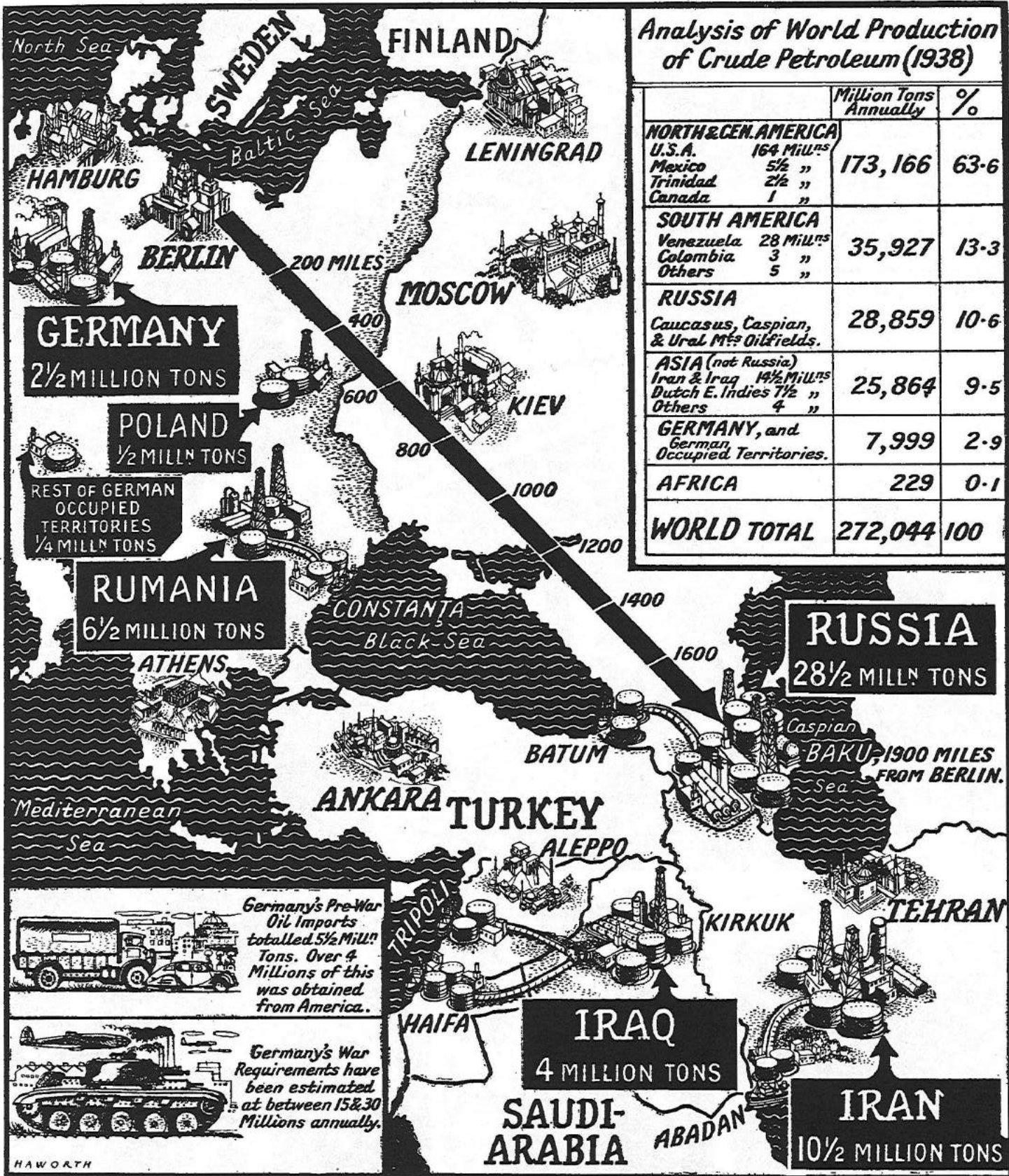
At the present time interest centres on Germany's hopes of obtaining large quantities of petroleum from Russia and Rumania. During 1938 the Reich imported nearly 5,000,000 tons of petroleum, motor fuel and lubricating oils, but in time of war her requirements must be far greater. As just stated, Rumania's production in 1938 was under 7,000,000 tons, and it would seem to be hardly likely that Russia could set aside for export 5,000,000 to 10,000,000 tons of petroleum annually. Even if she could produce it, how could it be delivered to Germany, seeing that all the existing Soviet pipe-lines have their outlets either on the Black Sea or the Caspian? Rail would be the only means available.

It is true that Germany has made immense efforts to assure her self-sufficiency in the matter of petroleum supplies by seeking oil beneath her soil and by the synthetic preparation of motor fuels. With regard to the former, soundings have so far been unsatisfactory, and it seems that the maximum production cannot exceed 700,000 tons even if Austria be included. As to synthetic fuels, the Reich does not seem capable of producing more than 3,000,000 tons annually of petrol and gas oil.



In this sketch map are indicated the principal oil-producing centres of the world and the routes by which petroleum is conveyed to the principal areas of consumption. The black disks give some indication by their comparative sizes of the petroleum deposits. The broad and narrow white lines mark the main commercial traffic routes. The chains of circles mark the main lines of distribution of petroleum products by oil tankers, pipe lines, rail and other methods.

From Berlin to Baku: Hitler's Thrust for Oil



Germany's oil situation is a matter of perpetual controversy, but here in this picture diagram we have illustrated some at least of the most important facts. Right, oil derricks at Baku, chief centre of the oilfields in the Caucasus whence Russia derives 90 per cent of her oil supplies.

Diagram specially drawn for THE WAR ILLUSTRATED by Haworth; Photo, Planet News

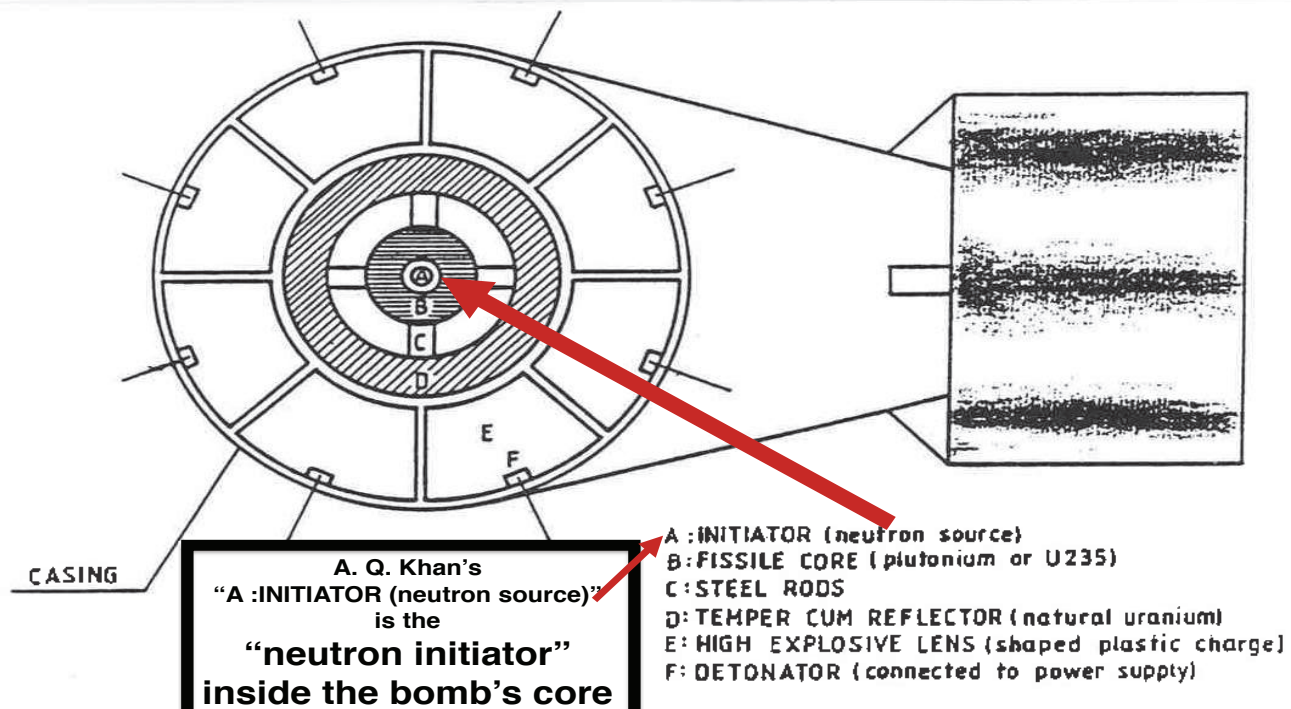


DR. A.Q. KHAN ON Science and Education



Cross-sectional diagram of implosion nuclear bomb (see below), overlaid on the cover of A.Q. Khan's book on "Science and Education" (see right)

DR. A.Q. KHAN
ON
Science and Education

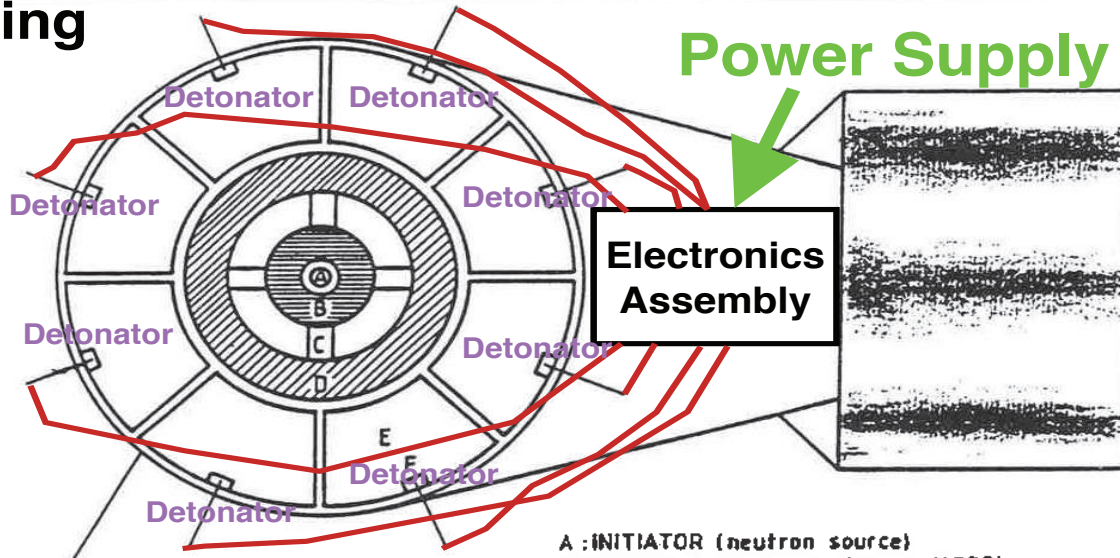


Configuration of components of an implosion type fission bomb

Cross-sectional diagram of implosion nuclear bomb (see below), overlaid on the cover of A.Q. Khan's book on "Science and Education" (see right)

DR. A.Q. KHAN
ON
Science and Education

**Exploding
Bridge
Wires
in
Red**

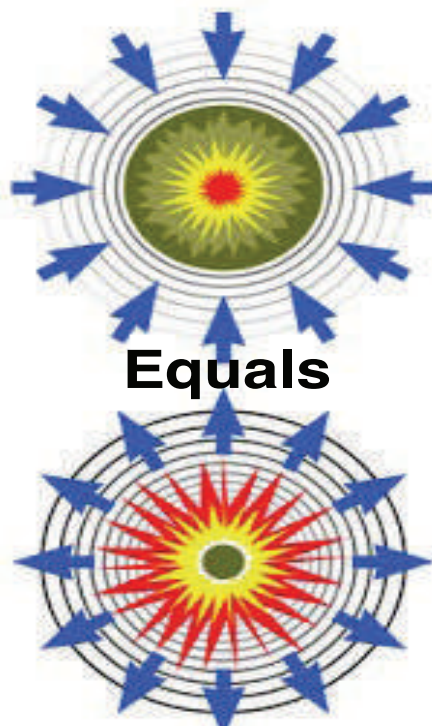


“Exploding bridges wires” are designed to explode all the detonators over the surface of the implosion fission bomb at the same exact time so as to create a symmetric inward “implosion.”

- A: INITIATOR (neutron source)
 - B: FISSILE CORE (plutonium or U235)
 - C: STEEL RODS
 - D: TEMPER CUM REFLECTOR (natural uranium)
 - E: HIGH EXPLOSIVE LENS (shaped plastic charge)
 - F: DETONATOR (connected to power supply)
- Detonator (connected to power supply)
- an implosion type fission bomb

Graphic by Mark Langfan

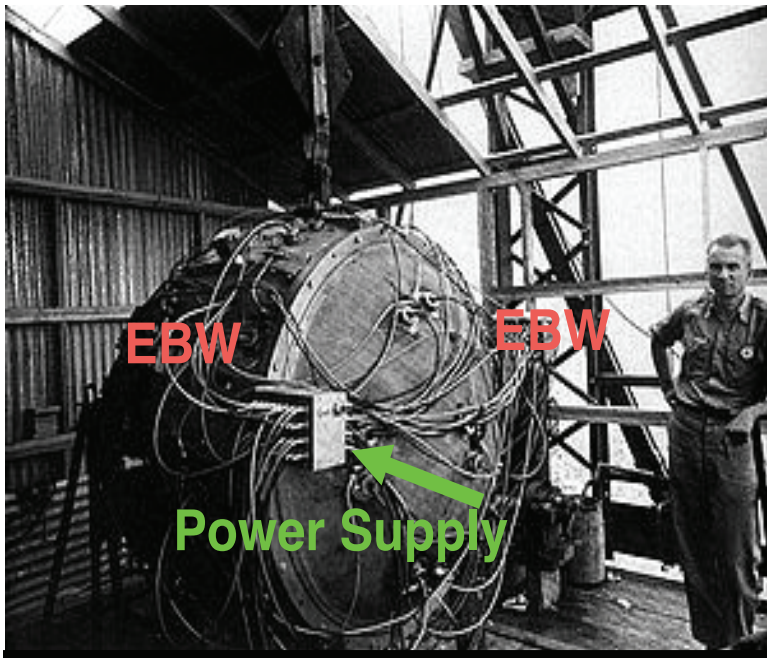
**The ‘Why’ of EBWs
Symmetric
Detonations**



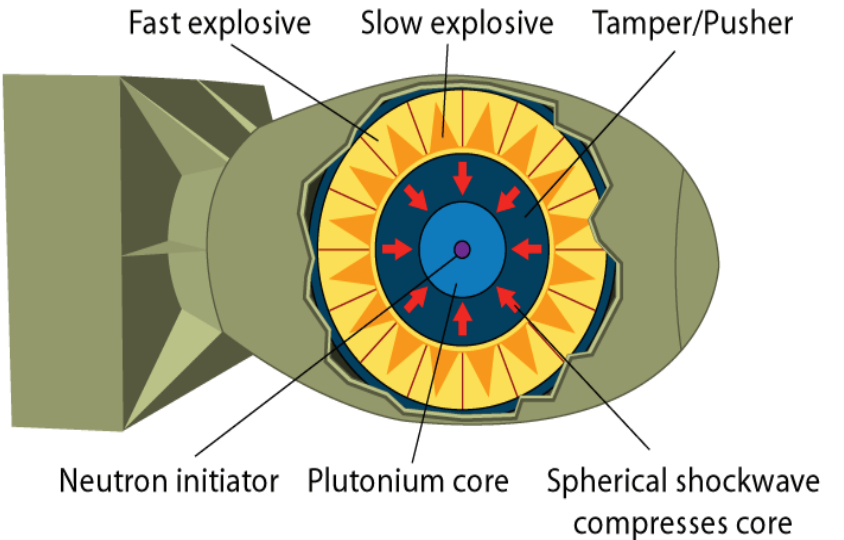
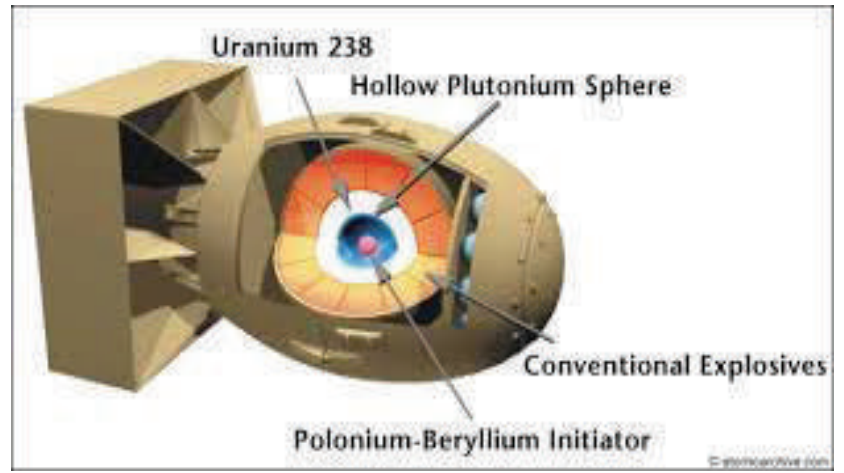
Nuclear Explosion

If the **exploding bridge wires (EBWs)** set-off the spherically-placed conventional detonators simultaneously, they create a perfectly symmetrical inward spherical “implosion” that compresses the weapons nuclear core, so it liquifies under the high pressure, and the nuclear chain reaction is started with the “help” of the “neutron initiator” which acts as the starter ‘lighter fluid’ for the fissile uranium-235 or plutonium-239 atoms. If the detonations are not simultaneous, they create an irregular shape which doesn’t compress properly, and fails to reach the high pressure, and a nuclear reaction is not started.

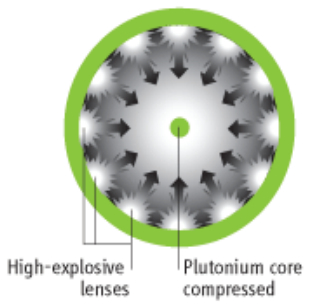
Graphic by Mark Langfan



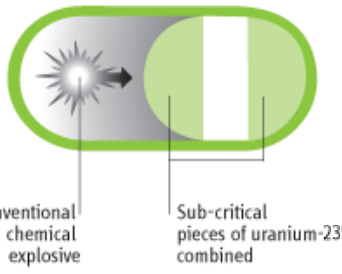
Picture of the atom-bomb used in "Trinity," the first nuclear test, on July 16, 1945. The device was nick-named, the "Gadget," and features numerous explosive bridge wires (EBWs).



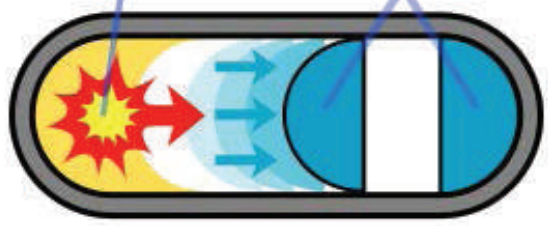
Implosion assembly method



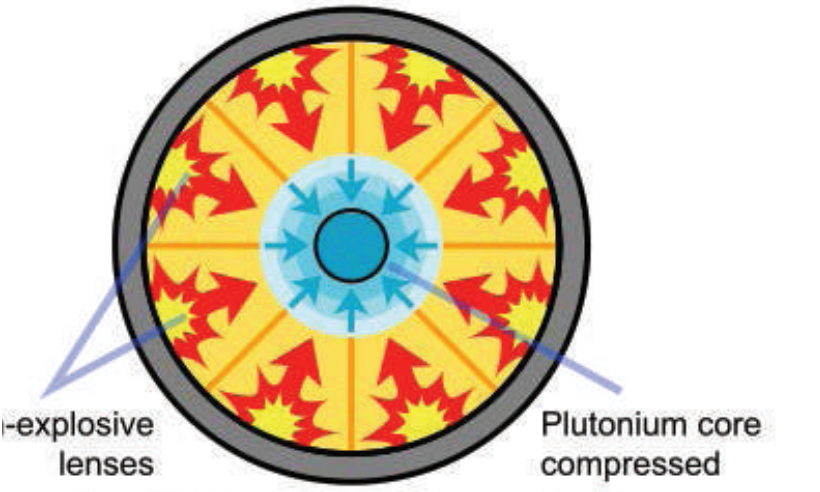
Gun-type assembly method



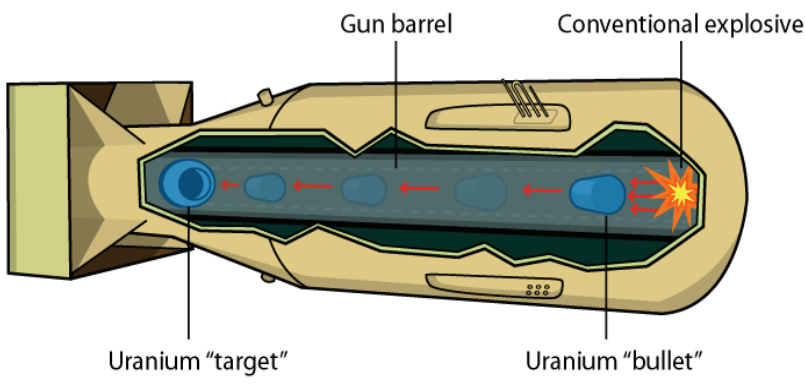
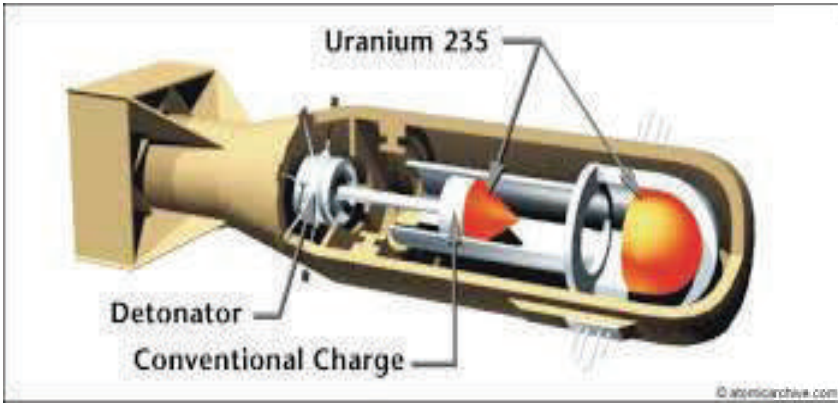
Conventional chemical explosive Sub-critical pieces of uranium-235 combined



Gun-type assembly method



Implosion assembly method



To use the metaphor of American football, enriching to 5%-U235/95%-U238 UF6(uranium-hexafluoride) gas is the same as a 70-yard drive down the field to our 30 yard line. Enriching to 20%-U235/80%-U238 UF6 gas is a 90-yard drive, or 90% to the end-zone, to the 10-yard line, completing nine-tenths of the work to make the material for a bomb. With 250kg of 20%-U235/80%-U238 gas, in two months with 1000's of centrifuges, Iran could score a "goal," and enrich enough highly-enriched 90%-U235 UF6 gas for enough U235 weapons'-grade 90% metal to form one nuclear bomb-core.

