



USE OF TECHNOLOGY BY  
ISLAMIC STATE



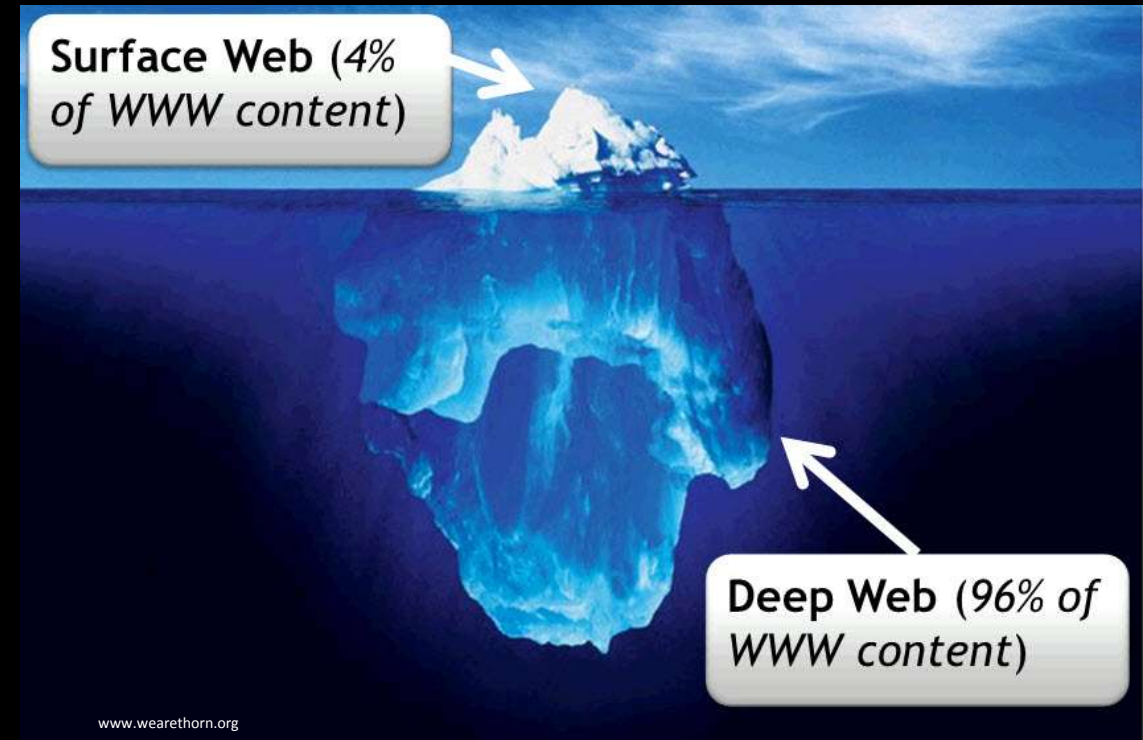
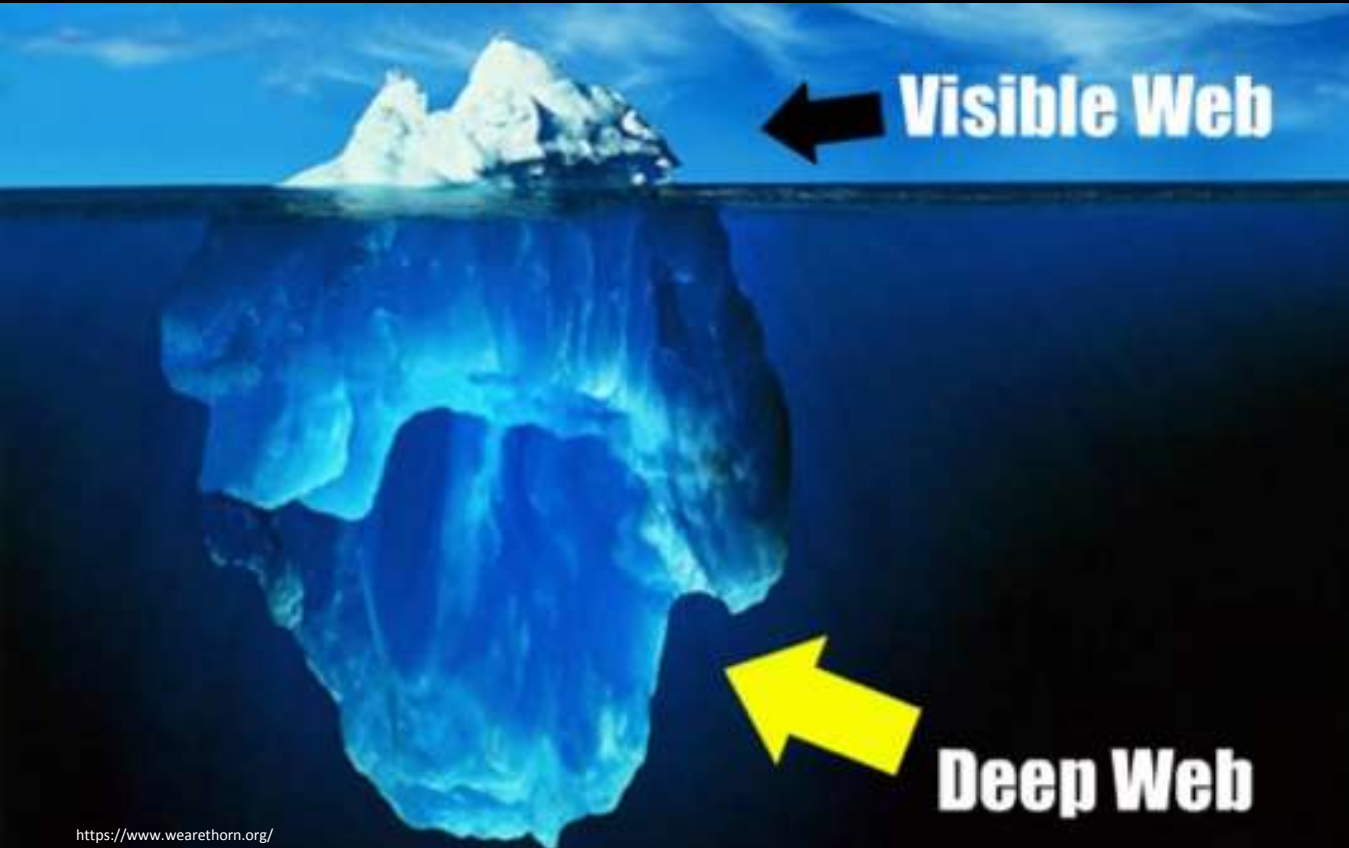
# Technology at IS's disposal

- The Dark Web and The Deep Web
- Financing
- Social Media
- Weapons



# THE Deep WEB

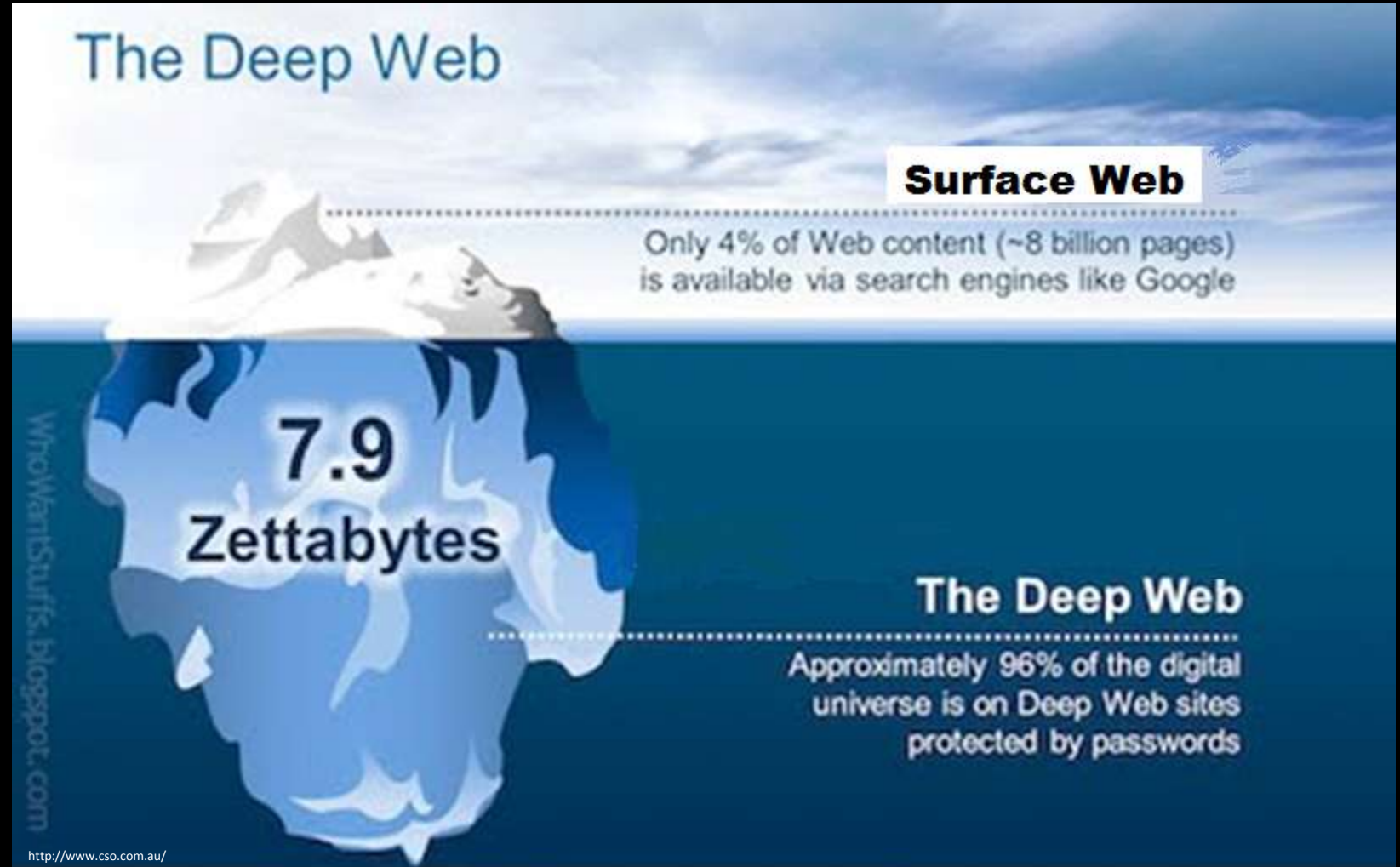
- Deep Web is where the website administrator switches off search engine indexing to avoid the pages from being displayed or captured by search engines.





Cont...

1 ZB =  $1000^7$ bytes =  $10^{21}$ bytes



# THE DARK WEB

- Dark Web is where websites are setup and their IP address and URL is hidden from the internet servers. They can be accessed using private networks like Tor (The Onion Router).
- Both are there to hide details .
- Dark web goes a step further to even hide transactions such as buying and selling.



## Cont...

- Tor has multiple layers that mask the IP addresses making it difficult if not practically impossible to trace the users.
- Special markets also operate within the dark web called, “darknet markets”, which mainly sell illegal products like drugs, hiring of hitmen/assassins, hackers for hire, human experiments, illegal purchase of firearms and the like.
- Payments are made in crypto-currency Bitcoin.
- Because of the dark web’s almost total anonymity, it has been the place of choice for groups wanting to stay hidden online from governments and law enforcement agencies. On the one hand there have been whistleblowers using the dark web to communicate with journalists, but more frequently it has been used by paedophile groups, terrorists and criminals to keep their dealings secret.



ASSASSIN



# FINANCING

- Secret deals with the Assad's regime to sell the government electricity and gas from dams and gas field controlled by the militants.
- Black-market oil trading: generates up to \$1.6 mil a day.
- Illegal drugs: cannabis being grown on the outskirts of the city to be sold to Turkey.
- Extortion, Ransom and Taxation. IS had made at least \$20mil from ransom payments in 2014.



NAME:  
OLE JOHAN GRIMSGAARD-OFSTAD



HOME ADDRESS:  
FAGERHEIMGATEN,  
220475, OSLO

EDUCATION:  
BACHELOR'S IN POLITICAL  
SCIENCE, CANDIDATE FOR  
MASTER'S IN POLITICAL  
SCIENCE



PLACE OF BIRTH:  
PORSGRUNN,  
NORWAY



DATE OF BIRTH:  
21 FEBRUARY 1967



**NORWEGIAN  
PRISONER  
FOR SALE**

TO WHOM IT MAY CONCERN OF THE CRUSADERS, PAGANS, AND THEIR ALLIES, AS WELL AS WHAT ARE REFERRED TO AS HUMAN "RIGHTS" ORGANIZATIONS: THIS NORWEGIAN PRISONER WAS ABANDONED BY HIS GOVERNMENT, WHICH DID NOT DO ITS UTMOST TO PURCHASE HIS FREEDOM.

**WHOEVER WOULD LIKE TO PAY THE RANSOM  
FOR HIS RELEASE AND TRANSFER**

**CAN CONTACT THE FOLLOWING  
TELEGRAM NUMBER:**

+9647705648252  
NOTE: THIS IS A LIMITED TIME OFFER

NAME:  
FAN JINGHUI



HOME ADDRESS:  
502411, XIJING 5AN UN,  
PINGGUO YUANNAN,  
DONGKO, SHIJINGSHAN  
DISTRICT, BEIJING

OCCUPATION:  
FREELANCE CONSULTANT

DATE OF BIRTH:  
18 MARCH 1965

PLACE OF BIRTH:  
BEIJING, CHINA



**CHINESE  
PRISONER  
FOR SALE**

TO WHOM IT MAY CONCERN OF THE PAGANS, CRUSADERS, AND THEIR ALLIES, AS WELL AS WHAT ARE REFERRED TO AS HUMAN "RIGHTS" ORGANIZATIONS: THIS CHINESE PRISONER WAS ABANDONED BY HIS GOVERNMENT, WHICH DID NOT DO ITS UTMOST TO PURCHASE HIS FREEDOM.

**WHOEVER WOULD LIKE TO PAY THE RANSOM  
FOR HIS RELEASE AND TRANSFER**

**CAN CONTACT THE FOLLOWING  
TELEGRAM NUMBER:**

+9647705648252  
NOTE: THIS IS A LIMITED TIME OFFER



## Cont...

- Donations: relied on Islamic charities and wealthy donors keen to oust Syria's President Assad.
- Sale of abducted girls and women as sex slaves.
- Bitcoins
  - Created by Satoshi Nakamoto (an alias) in 2009.
  - No middlemen or banking institutions therefore lower fees.
  - Transactions are logged in a public ledger using wallet IDs of users (not by name).



# Use of Bitcoins

- Bitcoin wa Sadaqat al--Jihad (Bitcoin and the Charity of Violent Physical Struggle) written by @AmreekiWitness (Twitter username) suggests that bitcoin could “enable jihad on a large scale” by sending contribution to fighters.
- A software programmer, Amir Taaki, has developed the “Black Wallet” that would further conceal transactions made with Bitcoins.
- In February 2014, the Canadian government had warned that these crypto-currency could be used for money laundering and financing terrorism.
- It could be more useful than real cash in the hands of a group like IS.



Amir Taaki





On June 15, 2015, an IS Twitter account tweeted photos of the command centre in the "ongoing battle in the Jazal area," in rural Homs, Syria.

# C4ISR?



Fighters planning an attack with the aid of their computers.



Cyber operations center from which attack on oil refinery was coordinated



# Use of Encryption

- Al-Qaeda has been using the “Mujahideen Secrets” Software since January 2007 to ensure that their communications are encrypted and secure. This military grade technology is used to protect data transferred via:
  - Networks
  - The Internet
  - Mobile phones
  - E-commerce
  - Bluetooth
- June 5, 2013 the Guardian announces leak of classified NSA documents by Edward Snowden.
- Recent reports (February 2015) shows distribution of the “Mujahideen Secrets” software among jihadist has slowed, and reliance on new Western social media apps, particularly encrypted ones, has increased.



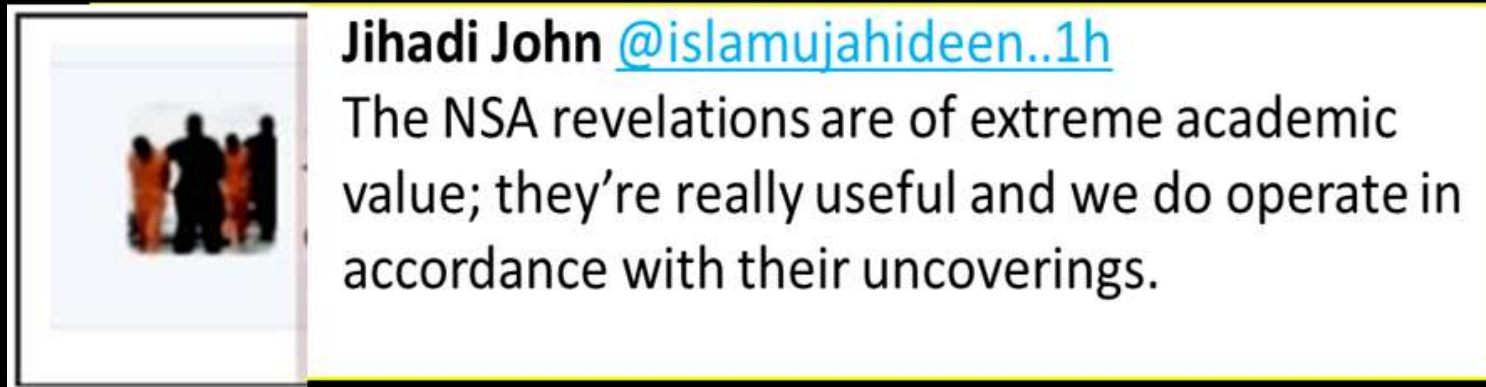


# Social Media



## Cont...

A February 22, 2015 tweet by "Jihadi John" (who took the name of the infamous British ISIS executioner) noted:





Cont...

One of the most effective tools in IS's arsenal is their social media savviness.



IS supporters used at least 46,000 Twitter accounts between September and December 2014, according to research done by the Brookings Institution.



## Cont...

- JustPaste.it - read religious justifications for murder and for battle summaries;
- SoundCloud - for audio reports;
- WhatsApp - for videos and messaging;
- Instagram - for its photography including jihadi selfies;
- Twitter - aspiring fanatics can receive updates from hardcore extremists on the ground in Syria;
- YouTube - watch ISIS blood-lust; and
- Ask.fm. - find guides to the battle field.

# Cont...

الاسم	الرمز	الوصف	البروتوكول	التطبيق
⊗	⊗	غير مشفر. يقوم بتشفير الصوت فقط	مراسلة نصية وصوتية	Viber
⊗	⊗	تشفير ضعيف جداً لكنه يدعم التشفير	مراسلة نصية ورسائل صوتية	WhatsApp
⊗	⊗	تشفير SSL فقط عند استخدام WiFi يتم تعطيله عند استخدام 4G/LTE	مراسلة نصية وصوتية و فيديو	LINE
⊗	⊗	لم يتم التشفير من أي تشفير <a href="https://twitter.com/s33curty">https://twitter.com/s33curty</a>	مراسلة نصية وصوتية و فيديو وألعاب	Tango
⊗	⊗	⊗ يقوم بتشفير	مراسلة فيديو	ooVoo
⊗	⊗	تشفير SSL فقط عند استخدام WiFi يتم تعطيله عند استخدام 4G/LTE	مراسلة نصية وصوتية	Kakao Talk
⊗	⊗	تشفير SSL للتكامل و SSL للبيانات ولكن يوجد نه ثغرات أمنية	مراسلة نصية وصوتية و فيديو	WeChat
⊗	⊗	لم يتم التشفير من أي تشفير	مراسلة نصية وصوتية	Nimbuzz
⊗	⊗	تشفير SSL فقط عند استخدام WiFi يتم تعطيله عند استخدام 4G/LTE	مراسلة نصية ورسائل صوتية	HiKer
⊗	⊗	تشفير SSL لكن العلاقات التي تتم مشاركتها يتم تشفيرها	مراسلة نصية ورسائل صوتية	Chat ON
⊗	⊗	غير مشفر	مراسلة نصية	Kik
⊗	⊗	غير مشفر <a href="https://twitter.com/s33curty">https://twitter.com/s33curty</a>	مراسلة صوتية	Voxer
⊗	⊗	غير مشفر	مراسلة نصية	GroupMe
⊗	⊗	غير مشفر	مراسلة نصية	MessageMe
⊗	⊗	غير مشفر	مراسلة نصية وصوتية	Imo.im
⊗	⊗	غير مشفر	مراسلة نصية ورسائل صوتية و فيديو	TalkRay
⊗	⊗	⊗ يقوم بالتشفير ولكن يتم تشفير OTR	مراسلة نصية	IMe

**Grenade Al Britani** @dogmaticprocess · May 20  
Batteries of galaxy has gps please inspect your phone asap if you're in the Khilafah.  
[twitter.com/LMATRICW/statu ...](https://twitter.com/LMATRICW/status/553333333333333333)

This Tweet is unavailable.

RETWEETS 19 FAVORITES 7

2:12 PM - 20 May 2015 - Details

**Abu Suleymaan** @sisikalbooon · May 20  
@dogmaticprocess @AkhinABuSh4 akhi i dont see a gps module in that picture

أهل علماء الغرب،  
@Cmsub21

العلماء  
الذين هم  
بالسود الدولة الإسلامية.  
بمشاركة العالمين يوجد بها هي من أن  
أهل دولة الإسلام الصحيح

2:43 PM - 20 May 2015

**Batteries of galaxy has gps please inspect your phone asap if you're in the Khilafah.**

**#Warning, #Very\_Urgent, beware... Oh lions of the Islamic State, Galaxy's battery has a GPS, #Retweet\_To\_Reach\_Everyone.**

**This details the communications apps which IS supporters are warned to steer clear of**



## Cont...

- IS-linked extremists have used social media to focus group messages, disseminate ideological simulator games, and broadcast high production videos, and the group has created its own technologies, including a smartphone app released last year that amplifies its messaging campaigns.



# Cont...



Qa'qa' al-Baritani [@Butayn iz back 4h](#)

Anyone who is in need of help concerning hijrah please contact me on surespot as this is part of my work – Butayn (Capital B).

← 234 ★ 6 ...



Qa'qa' al-Baritani [@Butayn iz back 4h](#)

Also other brothers who are able to help with hijrah are [@akzneedlovetoo](#) [@Usamah\\_Muhajir](#) [@citizenkhilaf4](#) also Abū Qa'qa' al-Afriki.

← 234 ★ 6 ...



Qa'qa' al-Baritani [@Butayn iz back 3h](#)

1) Concerning those who say surespot isn't safe and other applications are not safe, we help in hundreds of brothers and sisters using ...

← 234 ★ 6 ...



Qa'qa' al-Baritani [@Butayn iz back 3h](#)

2) ..these very same applications you all claim are not safe. The problem isn't the applications, the problem is yourselves!

← 234 ★ 6 ...



Qa'qa' al-Baritani [@Butayn iz back 3h](#)

3) Speaking about your plans and your views concerning hijrah and IS is not going to help you go anywhere except jail.

← 234 ★ 6 ...



Qa'qa' al-Baritani [@Butayn iz back 3h](#)

4) Keep yourself to yourself and contact us only when you're close to leaving and tell no one! Barakallāhu fikum.

← 234 ★ 6 ...



# Weapons





- Armaments are a mix of old Soviet tanks, U.S made and black market arms.
- Captured T-72 and T-55 tanks from Syrian rebels.
- Chinese copies of Soviet field and anti-aircraft guns from the Iraqi and Syrian armies. (Jane's Army and Artillery Guide 2003 and 2004).
- Supplies come from Turkey across the Syrian border. (Global Research)



- Weapons purchased from Croatia were supplied to FSA through Jordan by Saudi Arabia in 2013.
- Videos appeared to show some of these weapons being used by forces other than the FSA like the jihadist group Ahrar al-Sham and later with ISIS. (@Alanbar\_news, @ShamWitness)



ISIS photograph shows a fighter with what appears to be a Croatian RBG-6 grenade launcher



M79 OSA, as supplied to the Free Syrian Army at the start of 2013

- IS has cells developing mustard based chemical weapons. A BBC team has seen evidence.
- Julie Bishop – IS has enough material to build Dirty Bomb in accordance to Australian intelligence.
- She added that the materials were obtained from hospitals and research centers and would typically only be available to governments.







AK-47



HJ-8 is an anti-tank missile



M198 howitzer is a medium-sized artillery piece



RPG-7s



ZU-23-2 Anti-Aircraft Gun



ISIS acquired U.S.-built Humvees when it stormed Mosul



FIM-92 Stinger MANPAD



DShK 1938 Machine Gun



Type 59-1 Field Gun

Type 59-1 is a Chinese copy of the Soviet M-46 M1954 towed field gun

*Thank you*