

RSAConference2015

Abu Dhabi | 4–5 November | Emirates Palace

SESSION ID: CCT-W10

Escalating Middle Eastern Cyber Tension: An Open Source (OSINT) Analysis

Dr. Christopher Ahlberg

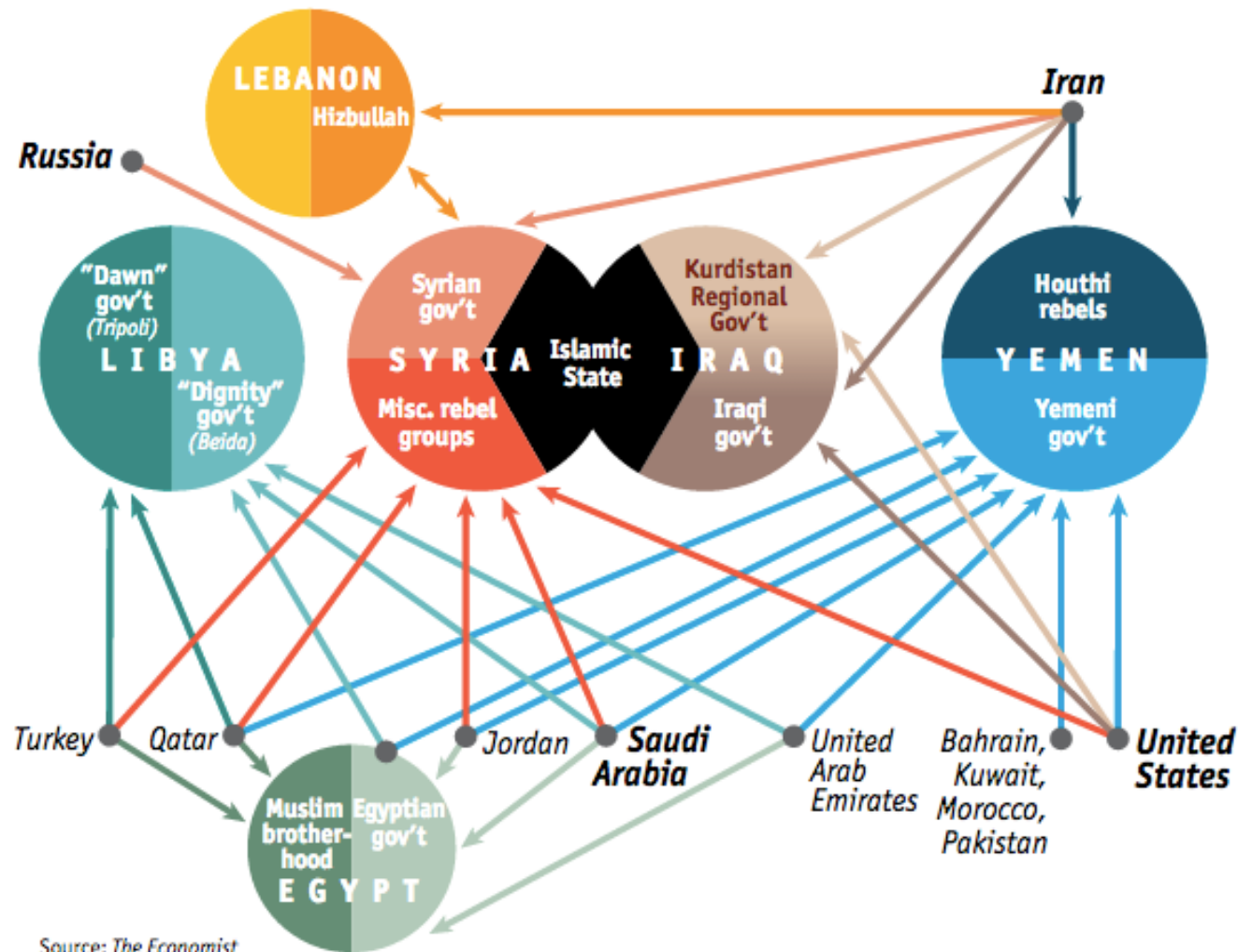
CEO/Co-founder
Recorded Future

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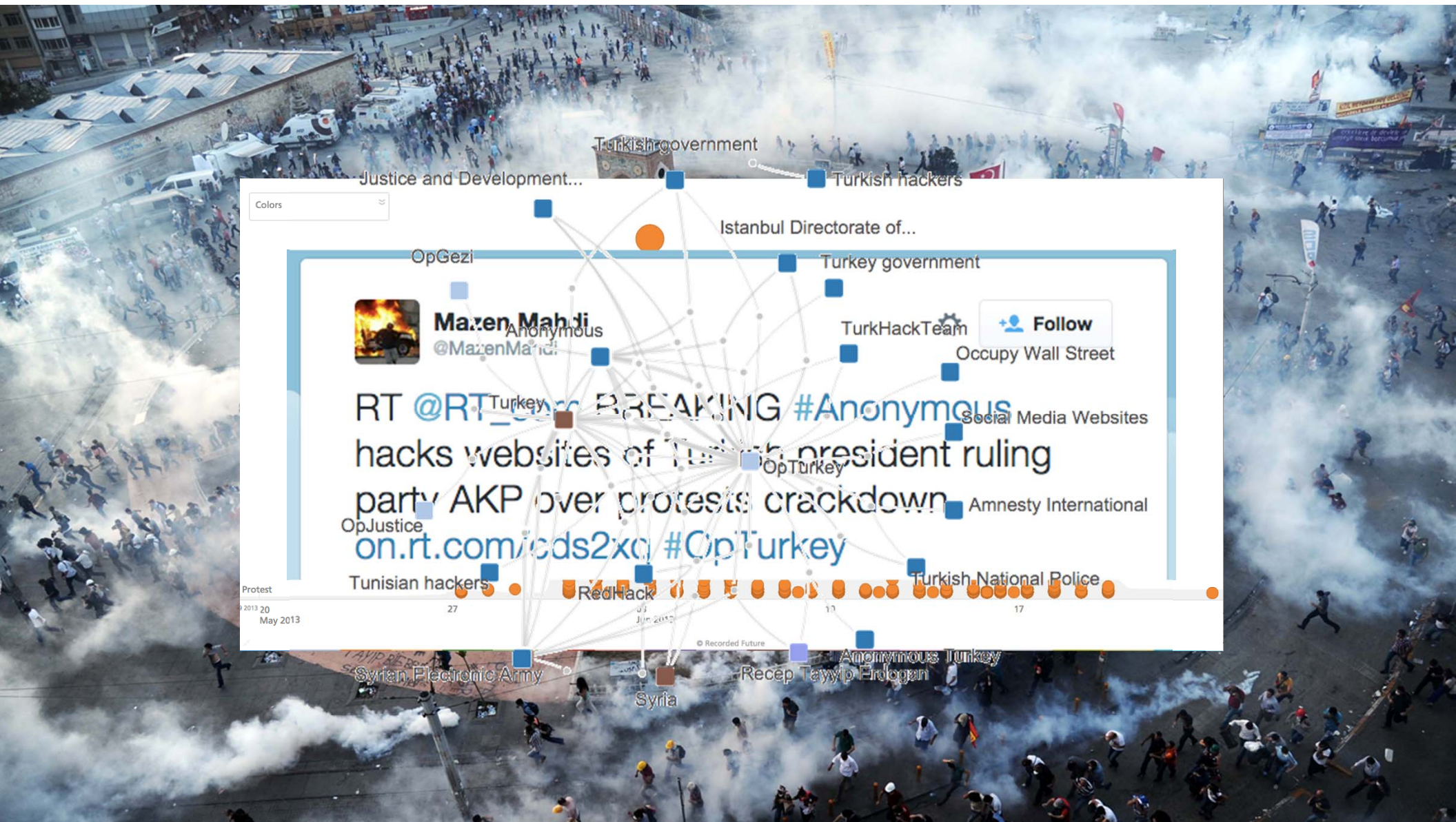


The main political rifts in the Middle East

Who openly backs whom (select/tap labels to isolate connections)



Source: The Economist



Al Qassam Cyber Fighters (QCF)



July 2, 2012

1. 'Innocence of Muslims' published on YouTube



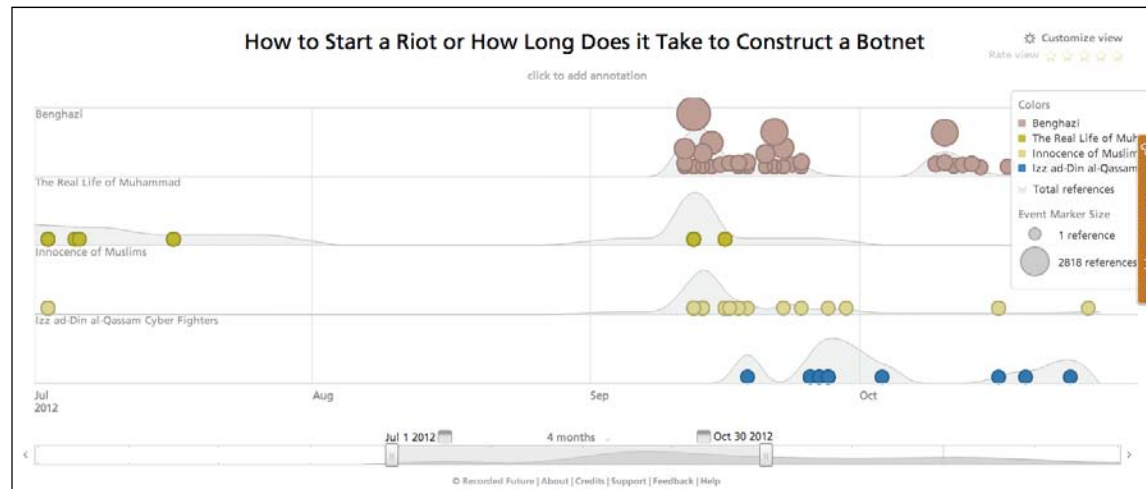
September 11, 2012

2. Reactions starts and spreads quickly

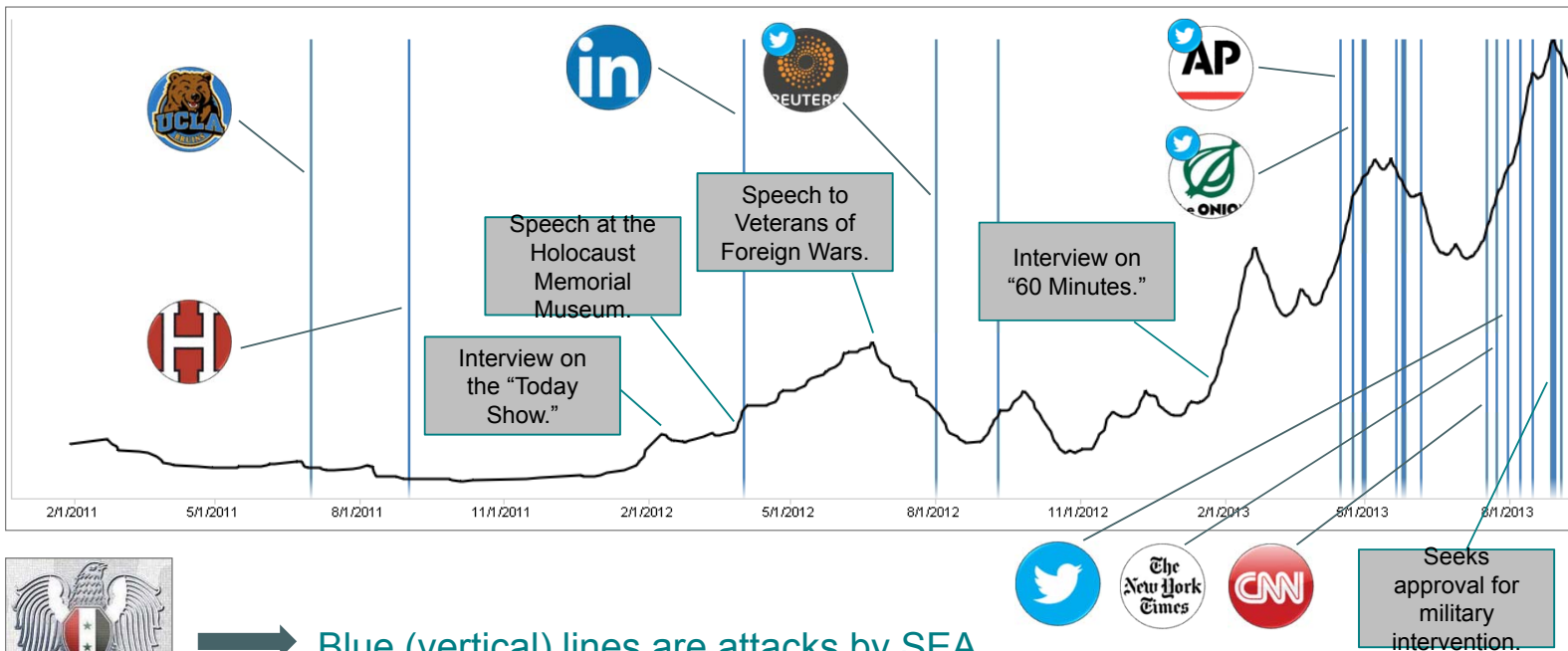


September 18, 2012

3. Al-Qassam Cyber Fighters starts Operation Ababil



Political Rhetoric Versus Cyber Attacks



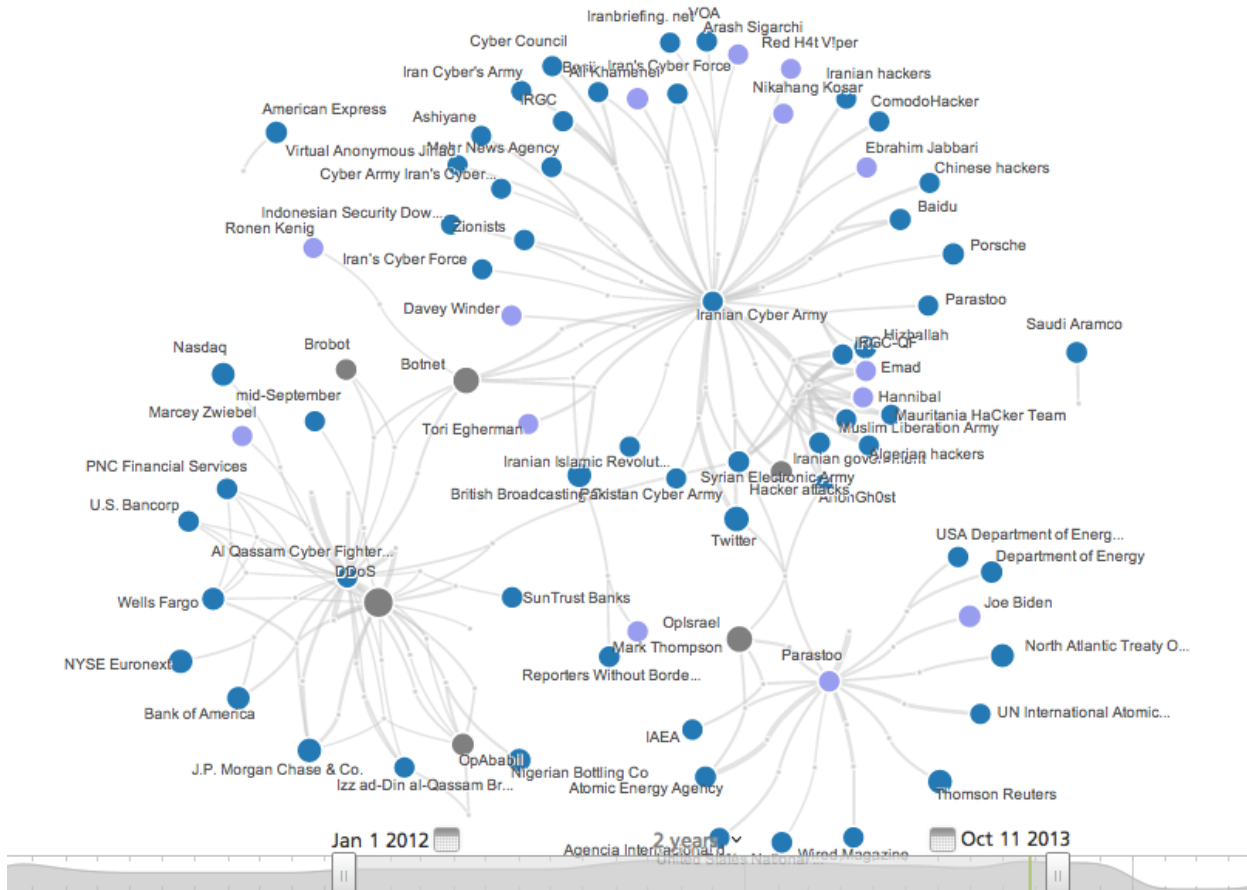
Blue (vertical) lines are attacks by SEA



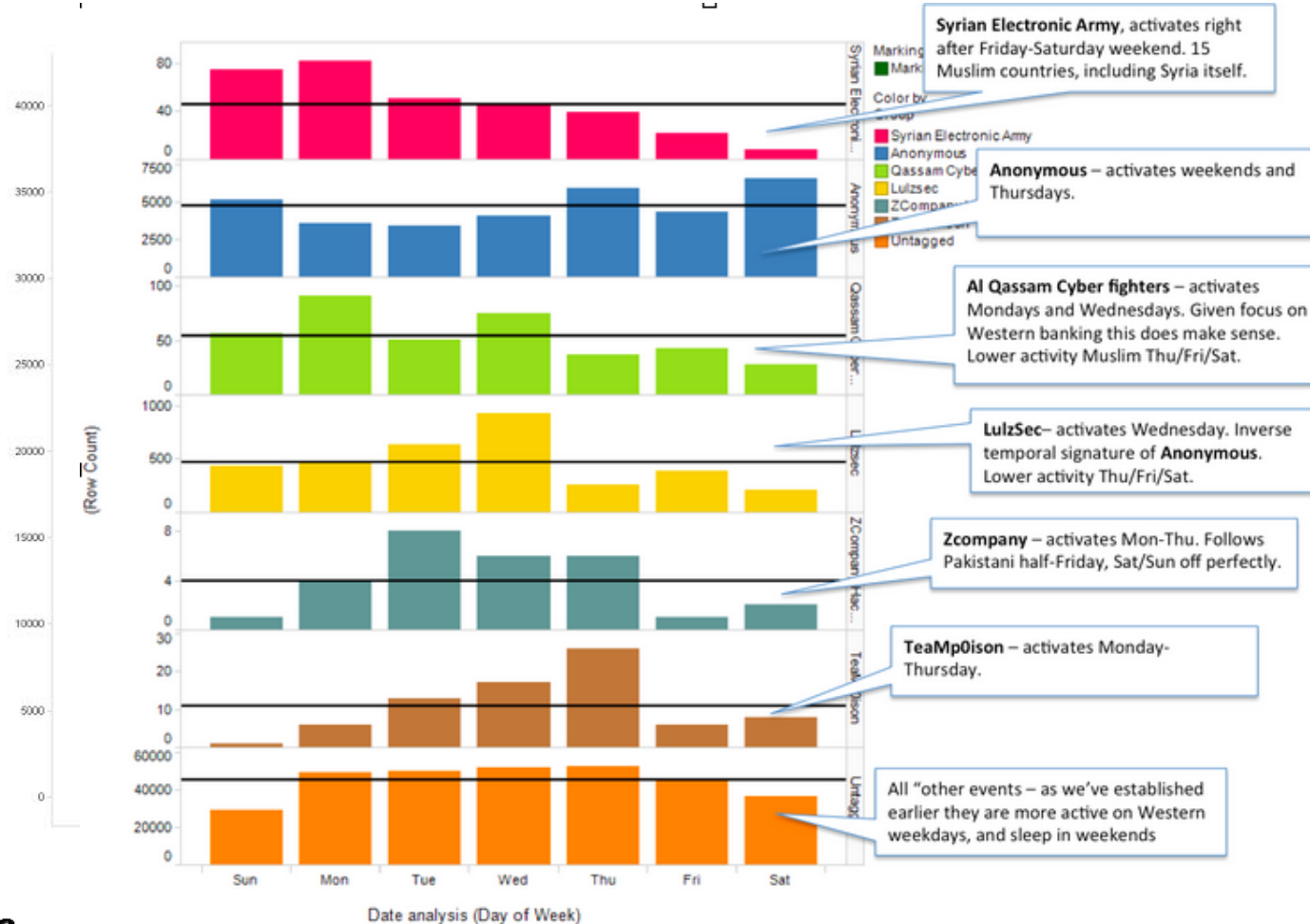
Black line is Barack Obama on Syria

Political focus driving attacks?
 Attacks following media focus?
 Attacks causing media focus?
 Raising the bar on targets over time?

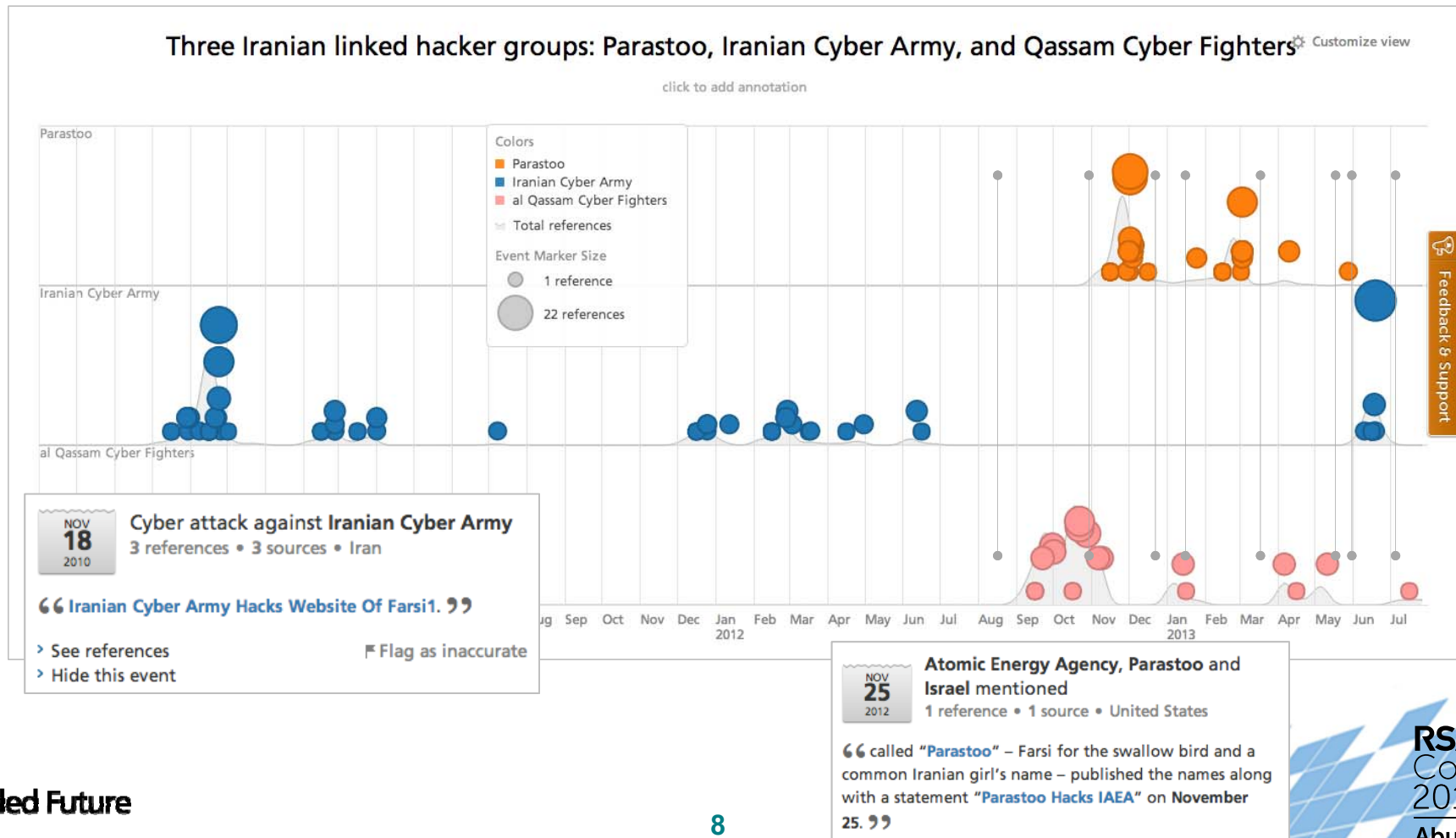
Targeting May Differ



Behavior is Harder to Fake

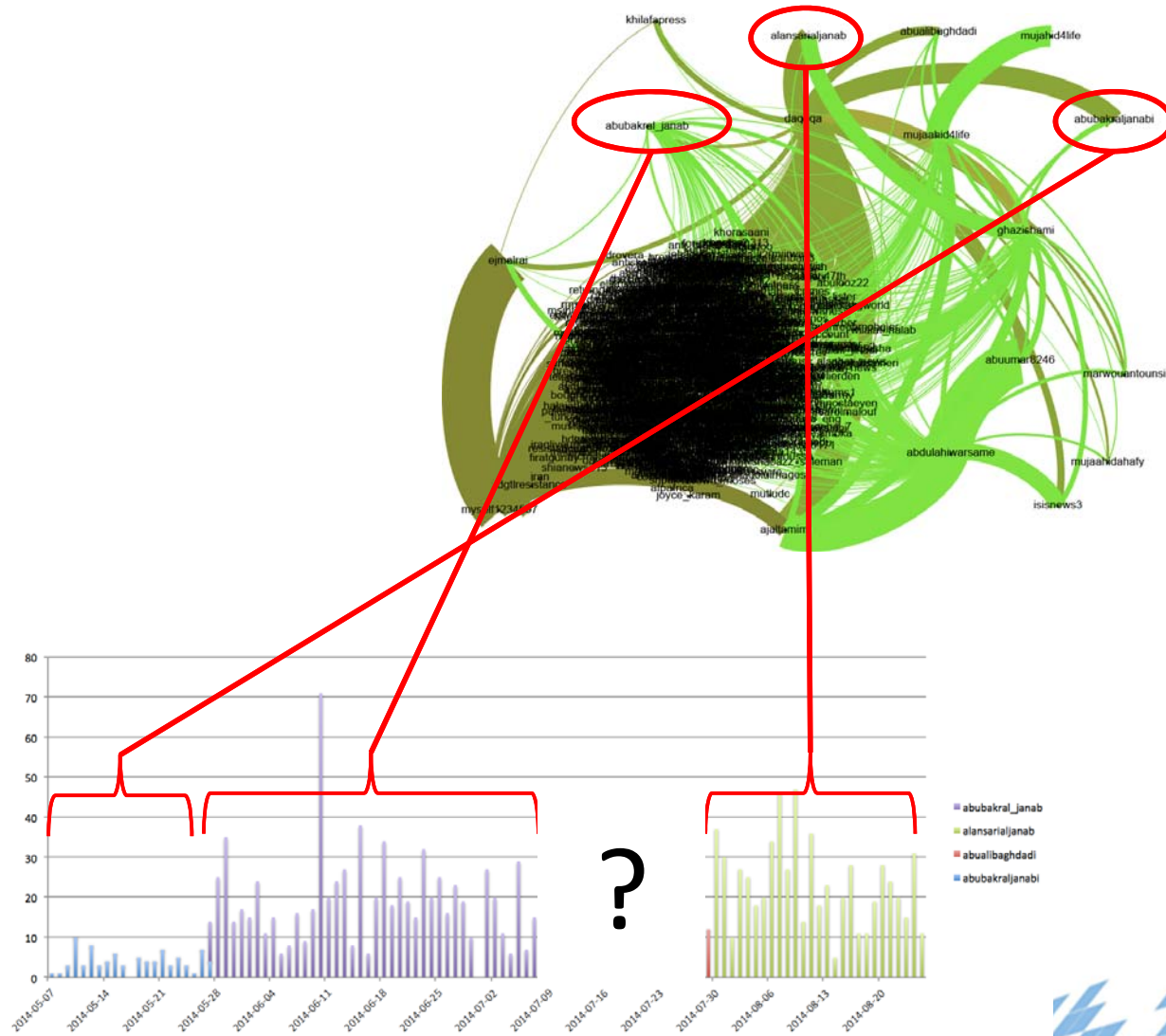


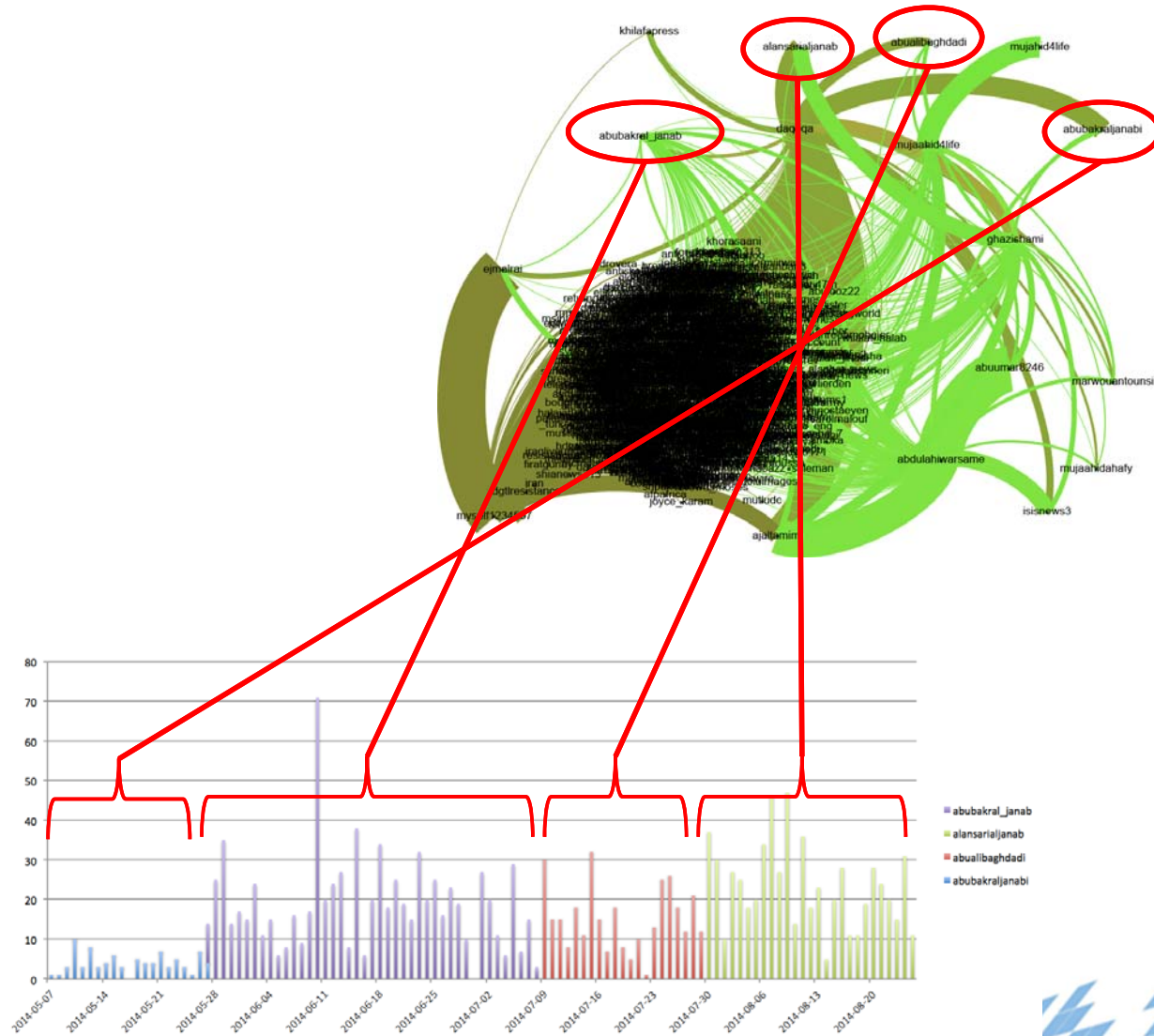
And Patterns Lay Open in the Clear













Ghazi

@abuaminah_



Follow

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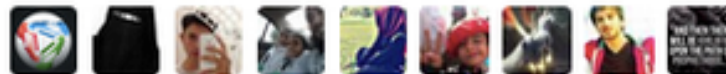
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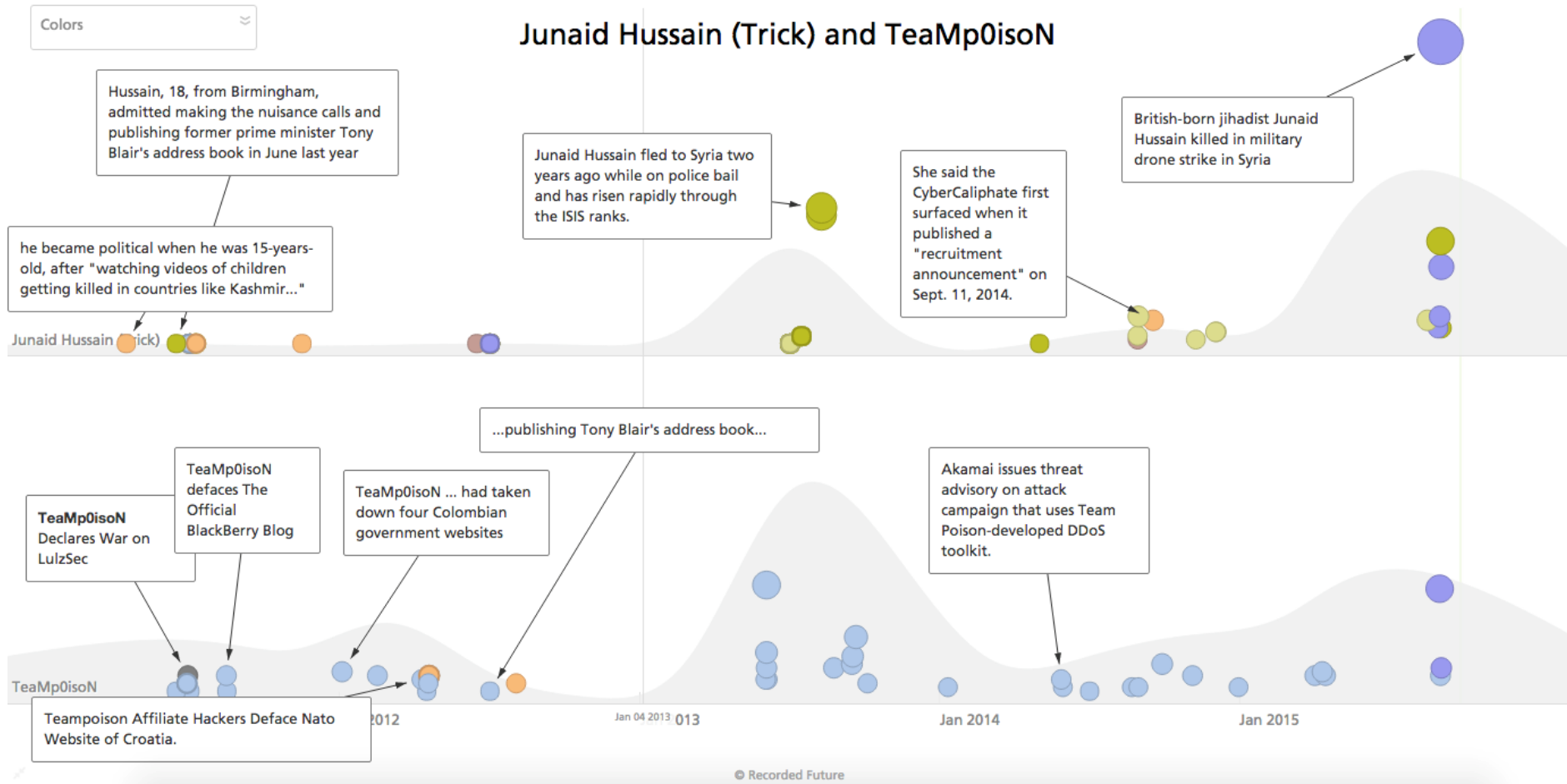
RETWEETS

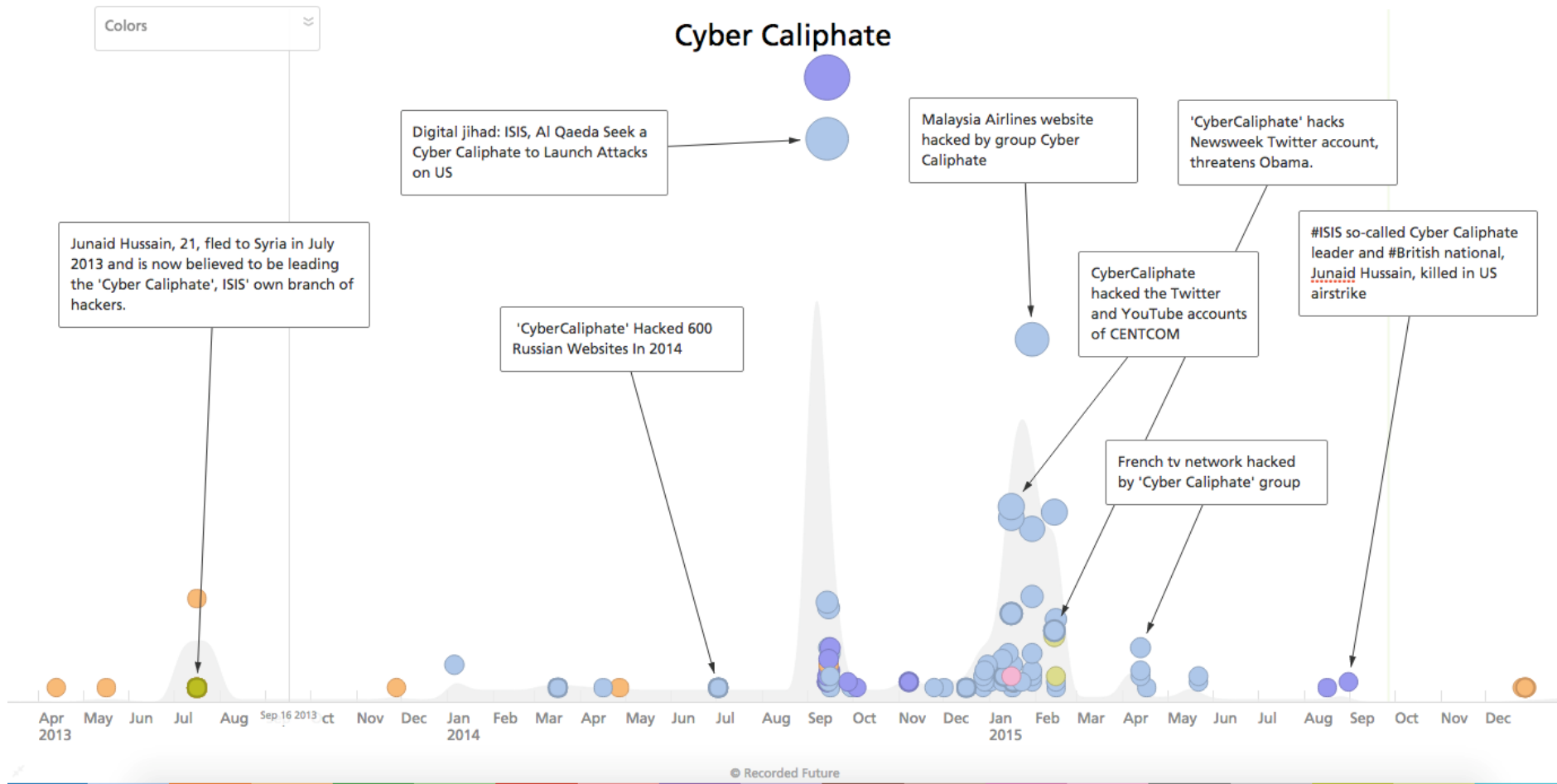
15

FAVORITES

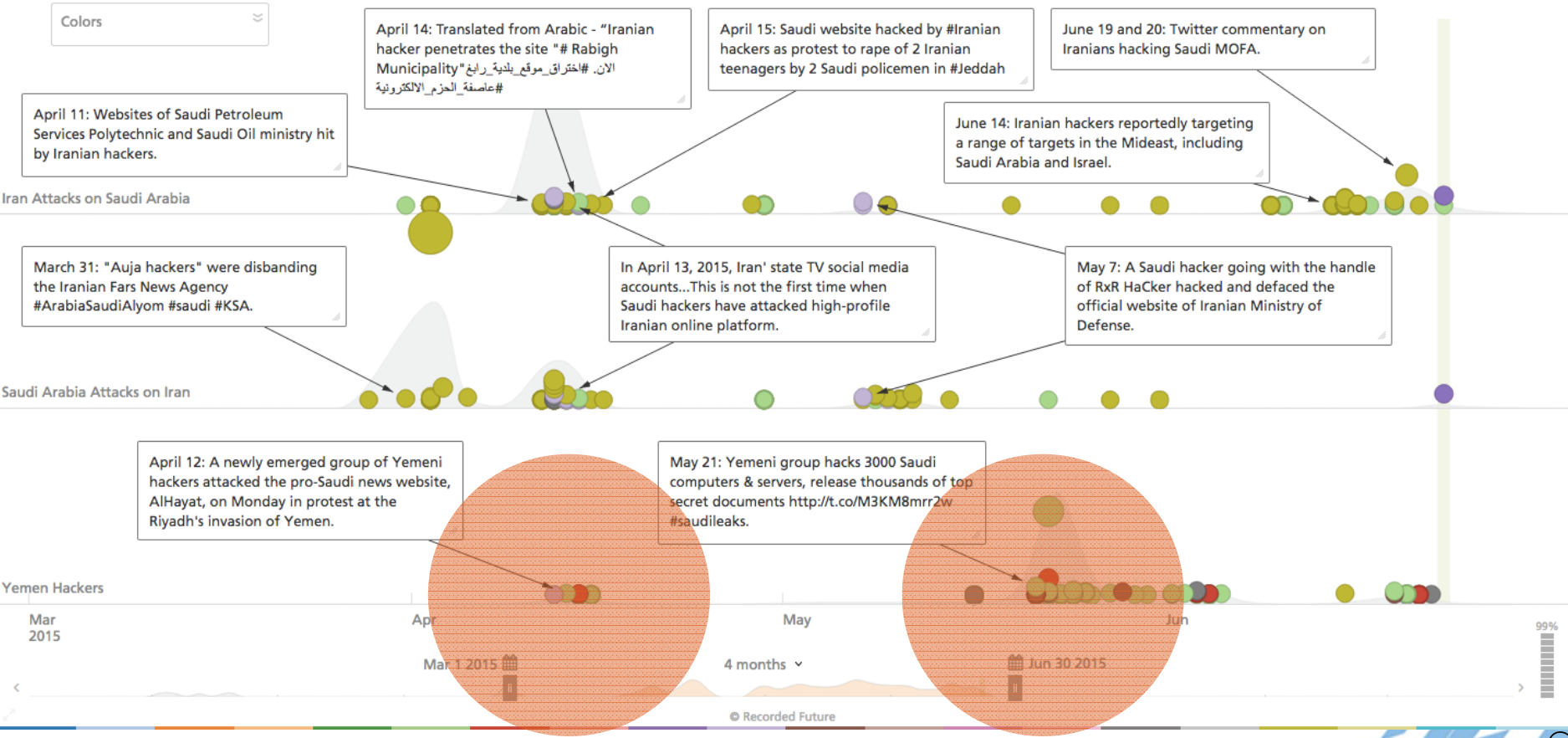
19







Iran and Saudi Arabia at Cyber War




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97. #####
98. #####
99. #####
100. WE WILL PUBLISH COMPLETE DATABASES AND DOCUMENTS IN FUTURE.
101. FOR NOW WE SHOW YOU A LITTLE DEMO
102. #####
103. #####
104. #####
105. Files PASSWORD : fucksaudio@fars.gov.sa
106. #####
107. Your Network Hacked By Yemen Cyber Army
108. We Are Cutting Sword of Justice
109. All Your Data is Encrypted and You Can't Access Them without Key
110. Find Out the Decryption Key This Way :
111. Number of Yemeni Children Killed in Saudi Air Attacks +
112. Number of Yemeni Homes Destroyed By Saudi-USA Bombs -
113. Number of Saudis Killed By Yemenis -
114. Number of Israeli Soldiers Killed by Saudi and Arab Union in 1984!!!!
115.
116. #OPSAUDI
117. #YEMEN_UNDER_ATTACK
118. #OPKSA

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Thu May 21, 2015 1:59

EXCLUSIVE

Saudileaks 1: Yemeni Group Hacks Saudi Gov't, Releases Thousands of Top Secret Documents



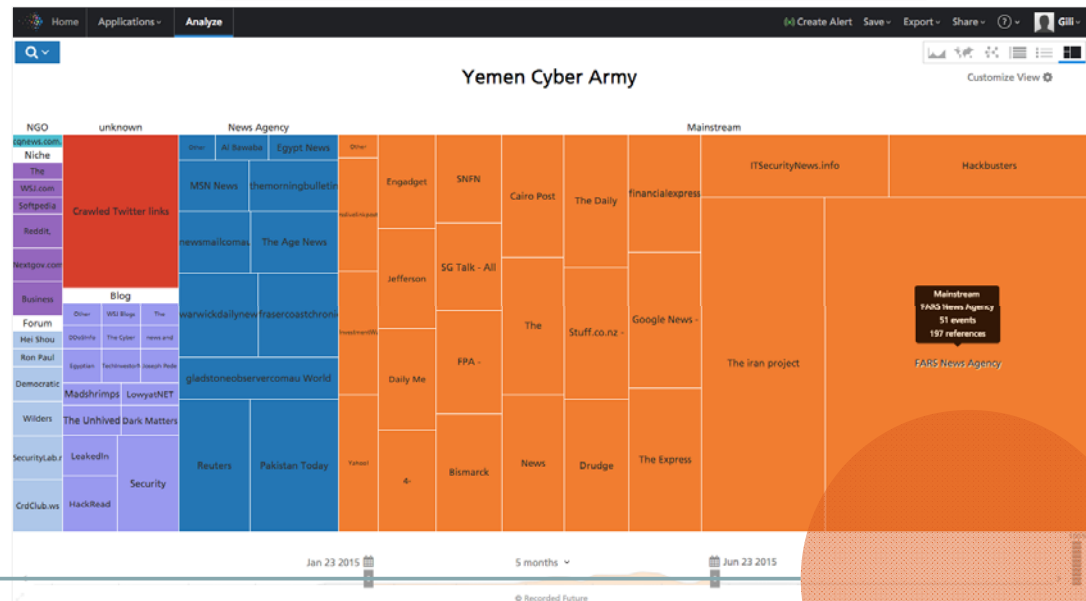
Tweet (125)
+1 (100)
Like (200)

simulacra deorum
@digitalfolklore

#YemenCyberArmy from May 20 2015
defacement

#OpSaudi #SaudiCables

#RSAC



RSA
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Cutting Sword of Justice

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116. #OPSAUDI
117. #YEMEN_UNDER_ATTACK
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1. We, behalf of an anti-oppression hacker group that have been fed up of crimes and atrocities taking place in various countries around the world, especially in the neighboring countries such as Syria, Bahrain, Yemen, Lebanon, Egypt and ..., and also of dual approach of the world community to these nations, want to hit the main supporters of these disasters by this action.
2. One of the main supporters of this disasters is Al-Saud corrupt regime that sponsors such oppressive measures by using Muslims oil resources. Al-Saud is a partner in committing these crimes. It's hands are infected with the blood of innocent children and people.
3. In the first step, an action was performed against Aramco company, as the largest financial source for Al-Saud regime. In this step, we penetrated a system of Aramco company by using the hacked systems in several countries and then send a malicious virus to destroy thirty thousand computers networked in this company. The destruction operations began on Wednesday, Aug 15, 2012 at 11:08 AM (Local time in Saudi Arabia) and will be completed within a few hours.
4. This is a warning to the tyrants of this country and other countries that support such criminal disasters with injustice and oppression. We invite all anti-tyranny hacker groups all over the world to join this movement. We want them to support this movement by designing and performing such operations, if they are against tyranny and oppression.
- 5.
6. Cutting Sword of Justice



وزارة الخارجية
المملكة العربية السعودية
MINISTRY OF FOREIGN AFFAIRS

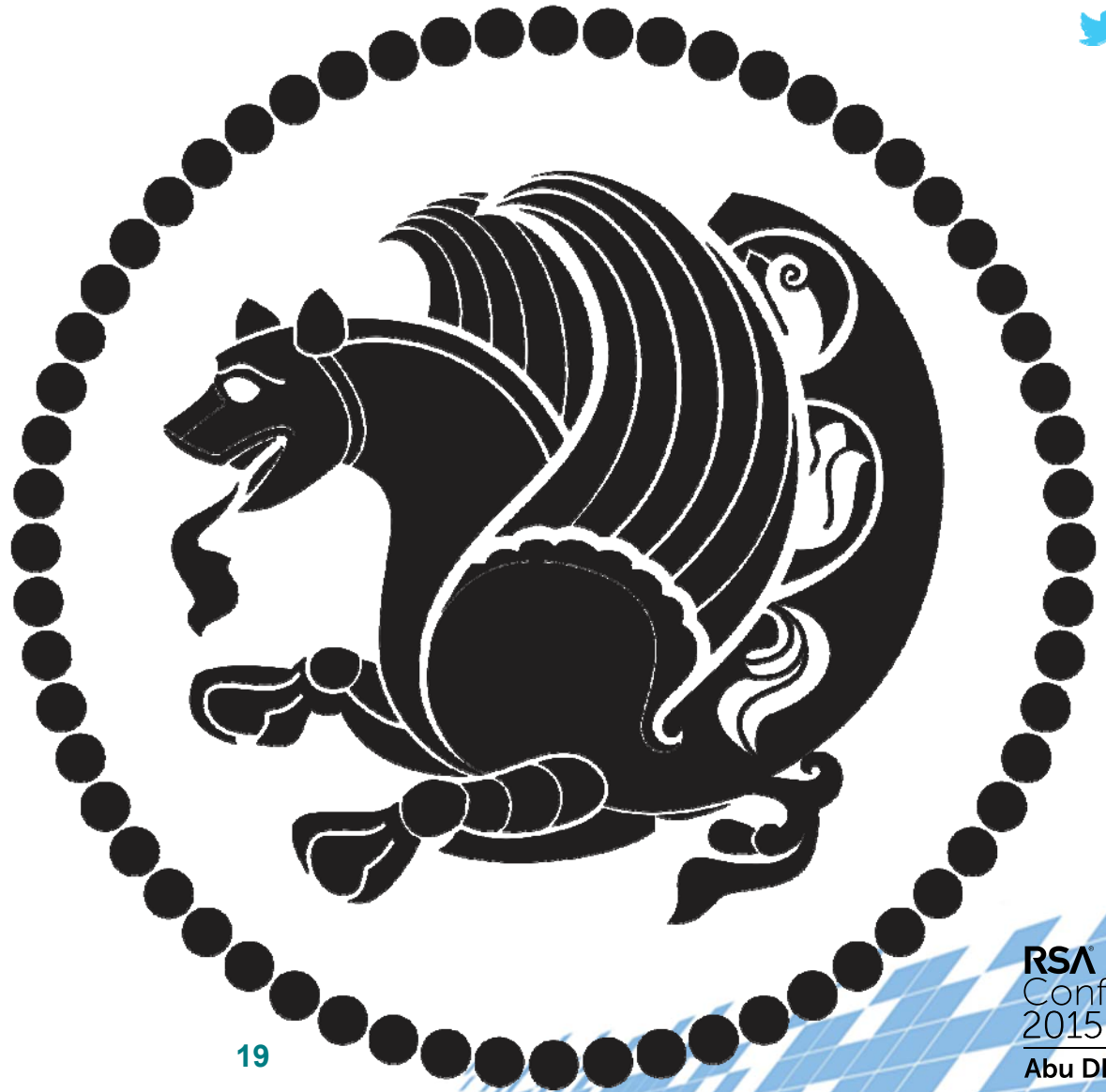
Yemeni cyber capability?
QuickLeak.ir
No social media profile
Fars News





Parastoo

Cutting
Sword of Justice



Defenders Matrix

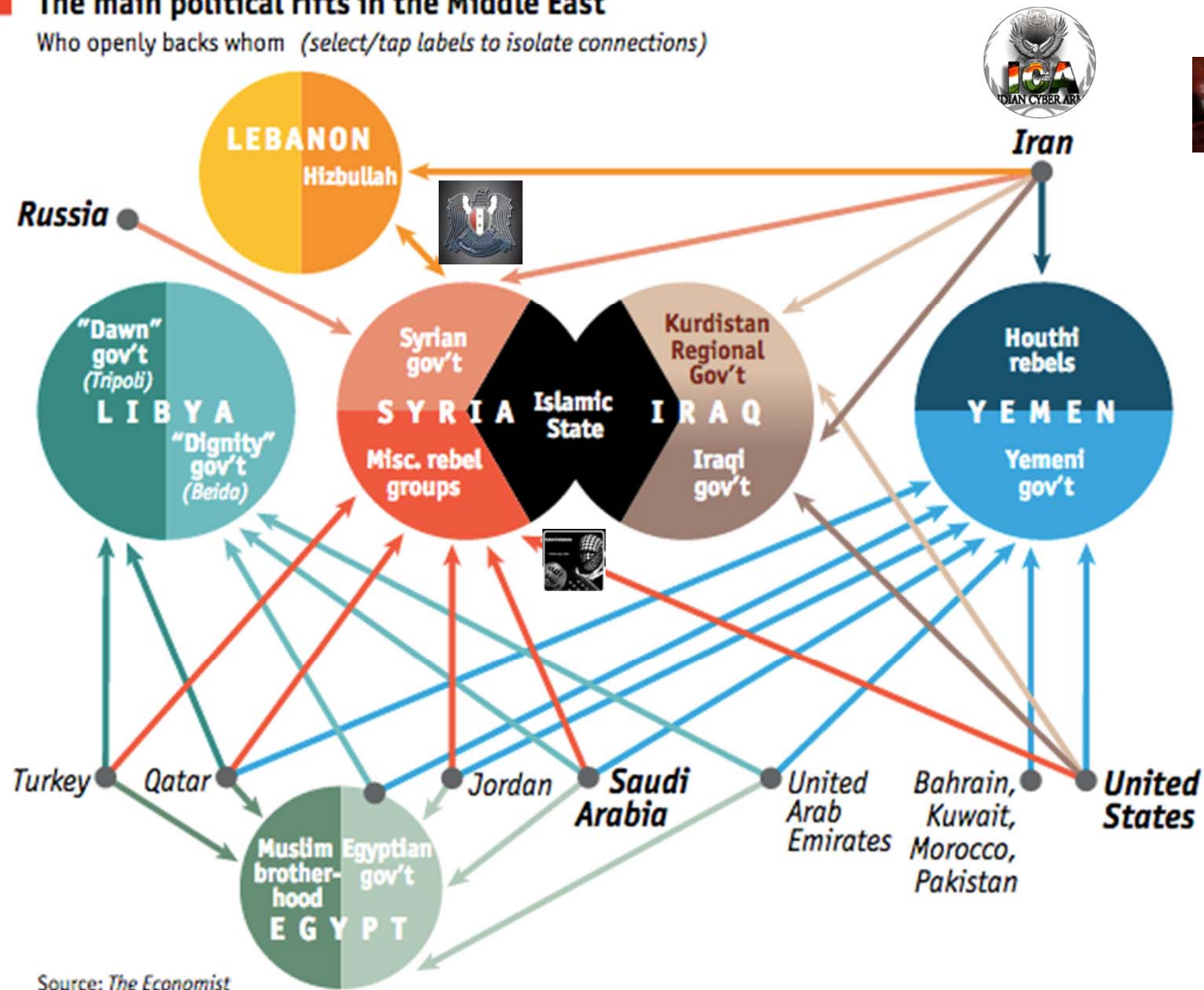
	Qassam Cyber Fighters	Iranian Cyber Army	Parastoo	Cutting Sword of Justice	Yemen Cyber Army	Cyber Caliphate	Syrian Electronic Army
Targeting	US+UK Banks	Domestic Iran, China, Azerbaijan, VOA Farsi	IAEA, US gov, Saudi, Israel	Saudi	Saudi Government	US DoD US Media Random websites	Western Media Companies
Media outlet	hilf-ol-fozoul.blogspot.com				Fars News Agency Wikileaks		
Social media outlet	None	None	None	None	None	Twitter	Twitter Facebook
TTPs	DDoS / Brobot	Web befacing	Web defacing	Destructive malware / Shamoon	Defacing Document exfiltration	Twitter defacing/message publication	Phishing platform + defacing RATs
Pre-announced attacks	Yes	No	Yes	No	No	No	No
Dropbox	Pastebin		Quickleaks/Cryptome	Pastebin	Quickeaks Pastebin	JustPaste.it	sea.sy archive.is

Lessons for the Defender

- ◆ Track geopolitical backdrop
- ◆ Know your threat
- ◆ Adjust defenses to actors
- ◆ Identify technical capabilities and indicators for actors
- ◆ Track and monitor actor behavior, key sources, and events driving them

The main political rifts in the Middle East

Who openly backs whom (select/tap labels to isolate connections)



Conclusions

- ◆ Middle East Actors have distinct behavior
 - ◆ Geopolitics sets the agenda
 - ◆ Chasing shadows
 - ◆ War by proxy
 - ◆ Actors have defined targeting, infrastructure, behavior, etc.
- ◆ Defender recommendations
 - ◆ OSINT can be used to monitor and stay ahead
 - ◆ Carefully map actor threat profile to operational stance
 - ◆ Be on your toes!