

Security in Cyberspace:

Nations, Infrastructures, Individuals examples

Rossella Mattioli

Tallinn University of Technology and Tartu University
Cyber Security Joint Master Programme

Nations

بسم الله الرحمن الرحيم

با استناد به قانون جرایم رایانه ای
دسترسی به تارنمای فراخوانده شده امکان پذیر نمی باشد.

رسیدگی به گزارشات و شکایات: filter@dci.ir

پیوندها :: WWW.PEYVANDHA.IR :: پیوندها

فرهنگی و مذهبی	خبری	خانواده	سرگرمی و علمی	خدمات اینترنتی	شبکه اجتماعی	عمومی
• قرآن	• واحد مرکزی خبر	• ازدواج	• رشد	• ساماندهی	• پارسی بلاگ	• درگاه ایران
• تبیان	• ایرنا	• خانواده سبز	• نشریات ایران	• جس جو	• پلاکفا	• 118
• حوزه علمیه	• فارس	• لقمه	• ایران ویج	• نقشه من	• ایران بلاگ	• سنجش
• پاسخگویی دینی	• مهر	• دست بخت	• ایران بلوتوث	• ثبت دامنه	• بلاگ اسکای	• کتاب اول
• راسخون	• برنا	• کودکان ایران	• نرم افزارهای متن باز	• صبا میل	• برشین بلاگ	• قیمت ها (124)
• انقلاب فرهنگی	• تابناک	• مشاوره	• آرشیو سیما	• میهن میل	• برشین گیگ	• لغت نامه
• گردشگری	• رجا نیوز	• ورزشی	• صدا و موسیقی ایران	• پرداخت الکترونیک	• سرزمین مجازی	• نجاتگر
ادامه <	ادامه <	ادامه <	ادامه <	ادامه <	ادامه <	ادامه <

فهرست مصادیق محتوای مجرمانه | نظارت بر اینترنت در دیگر کشورها

[این صفحه بعد از 26.0 ثانیه بصورت اتفاقی وارد ادامه یکی از موضوعات بالا می شود.]

Filtering

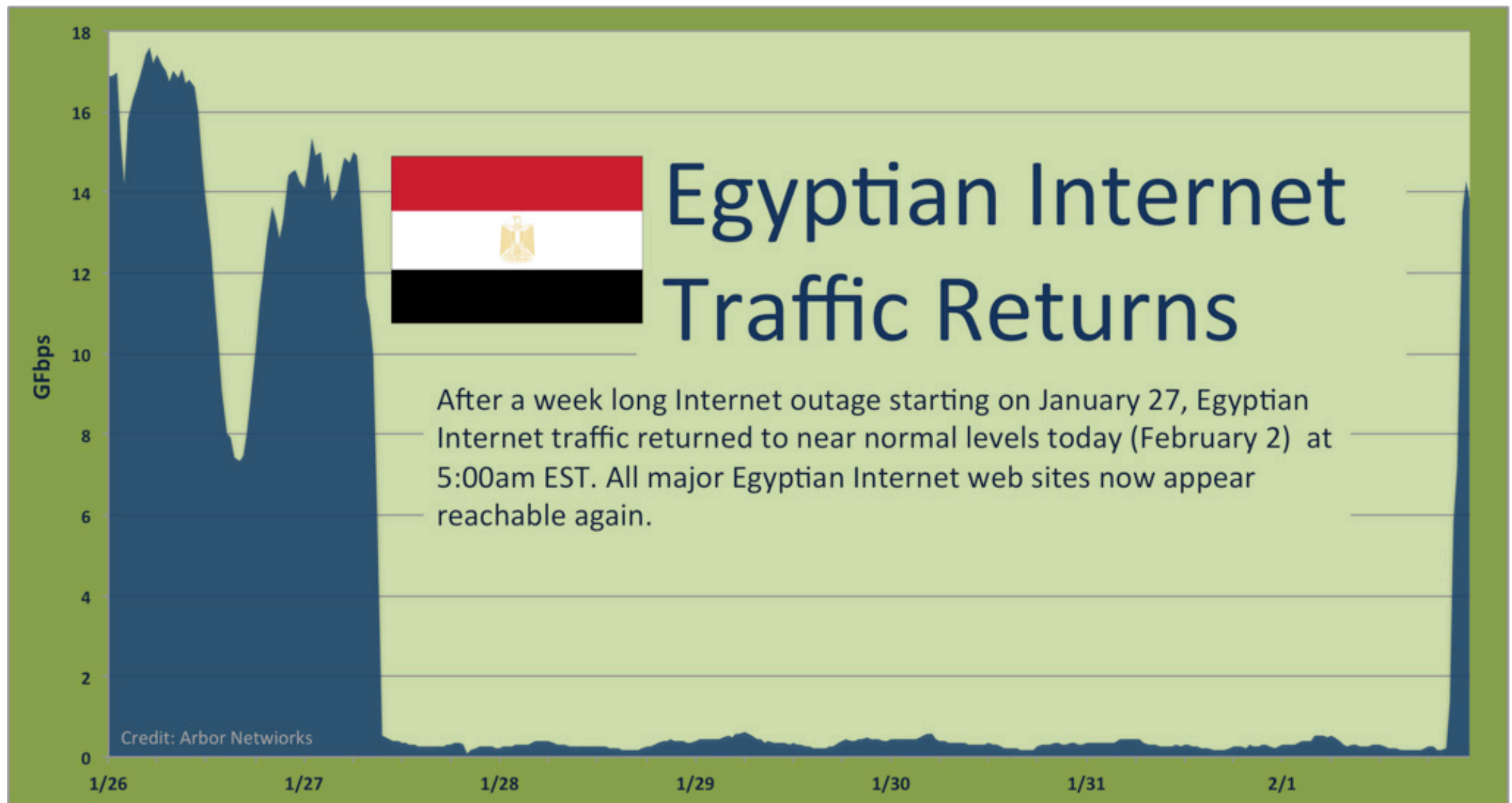
Since 2002

- National filtering Intelligence Bank
- Filtering and refiltering Facebook



2011 World's Worst Internet Oppressor

Blocking



<http://ddos.arbornetworks.com/2011/01/egypt-loses-the-internet/>

<http://ddos.arbornetworks.com/2011/02/egypt-returns-to-the-internet/>

The Egypt case

*“Critical European-Asian fiber-optic routes through Egypt appear to be unaffected for now. But **every** Egyptian **provider**, every **business**, **bank**, Internet **cafe**, **website**, **school**, **embassy**, and government **office** that relied on the big four Egyptian ISPs for their Internet connectivity **is now cut off from the rest of the world**. Link Egypt, Vodafone/Raya, Telecom Egypt, Etisalat Misr, and all their customers and partners are, for the moment, off the air.”*

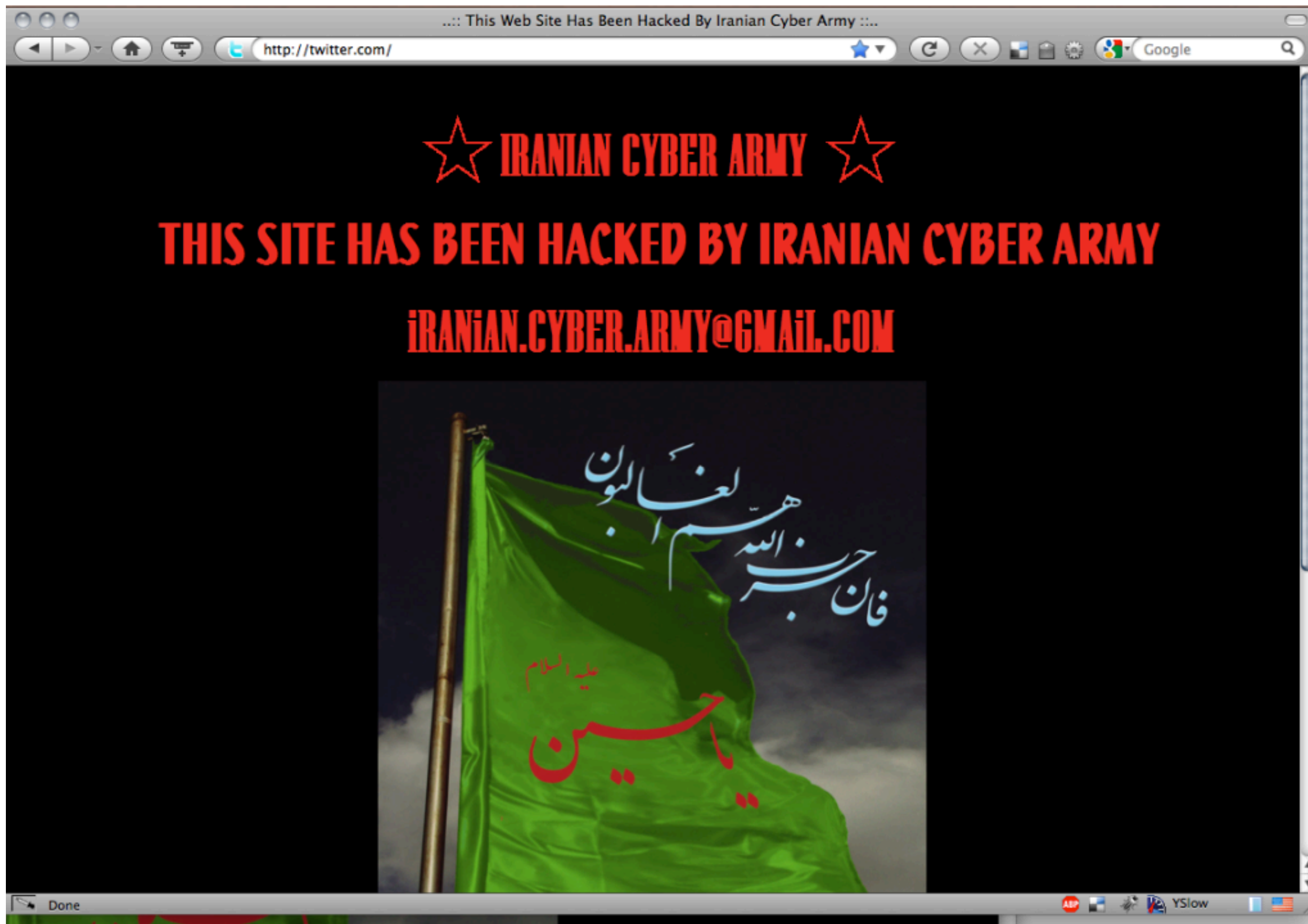
James Cowie - Renesys - January 27, 2011 7:56 PM

<http://www.renesys.com/blog/2011/01/egypt-leaves-the-internet.shtml>

Hacking in the name of God: Iranian cyber army

Commander Javani, head of the Revolutionary Guards political bureau, claimed that the ICA aims to *“prevent the destruction of Iran’s cultural and social system”*

- Iranian opposition websites of the “Green Movement”
- Farsi1 Satellite Radio, accused by Iranian officials of being western plot to turn Iran against its regime
- Other news and media sites that are critical of the regime
- Major high-traffic sites such as Twitter and the Chinese search engine Baidu



“In the name of God, as an Iranian this is a reaction to Twitter’s interference sly which was U.S. authorities ordered in the internal affairs of my country...”.

National internets

- Iran and the idea of an “Halal” national internet
- In an interview with IRNA in March 2011, Ali Agha Mohammadi (Ahmadinejad Administration’s head of economic affairs) :
 - *remove all immoral websites*
 - *facilitation of electronic government, commerce and banking transactions (!?!)*
 - *"Clean Internet"*
- *“The final solution to problems of [cyberdefense and the] formation of Jihad, is to achieve economic self-sufficiency in the production of basic software such as operating systems and software,”* Gholam Reza Jalali, the commander of the Iranian civil defence organisation.

Infrastructures



Incidents

Woman who cut internet to Georgia and Armenia 'had never heard of web'

A 75-year-old woman arrested for single-handedly cutting off the internet in Georgia and Armenia has tearfully insisted she is innocent and had never heard of the internet.




Hayastan Shakarian has been arrested for single-handedly cutting off the Internet in Georgia and Armenia on March 28 Photo: AFP

7:00AM BST 11 Apr 2011

In a case that has attracted worldwide interest, pensioner Hayastan Shakarian is accused of forcing thousands of people in both countries offline for hours after hacking into a fibre-optic cable while digging for

Share:   

Tweet

 Share 40

 0

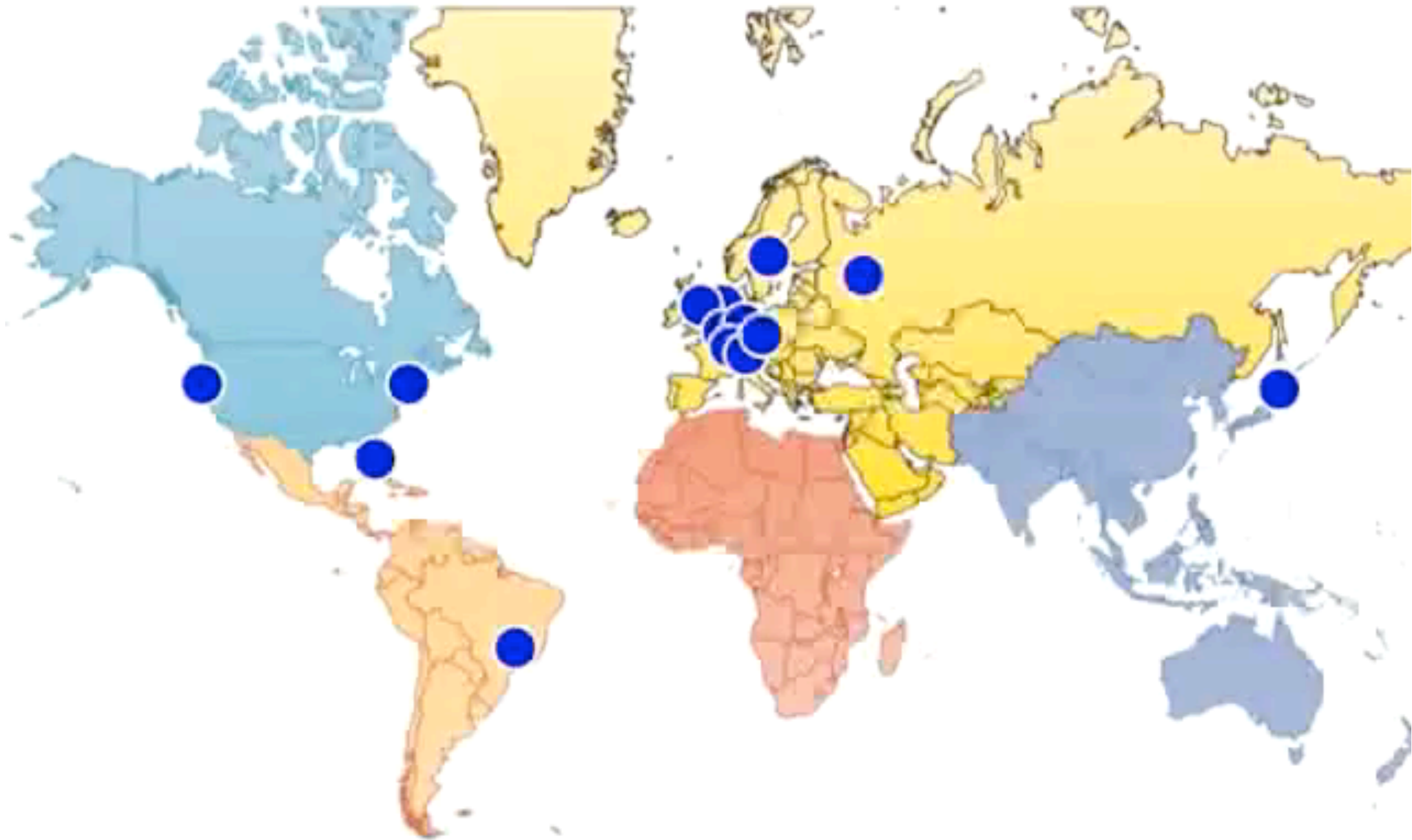
Georgia

[News](#) » [World News](#) » [Europe](#) » [Armenia](#) » [Internet](#) »

IN GEORGIA



The James Bond house in Tbilisi

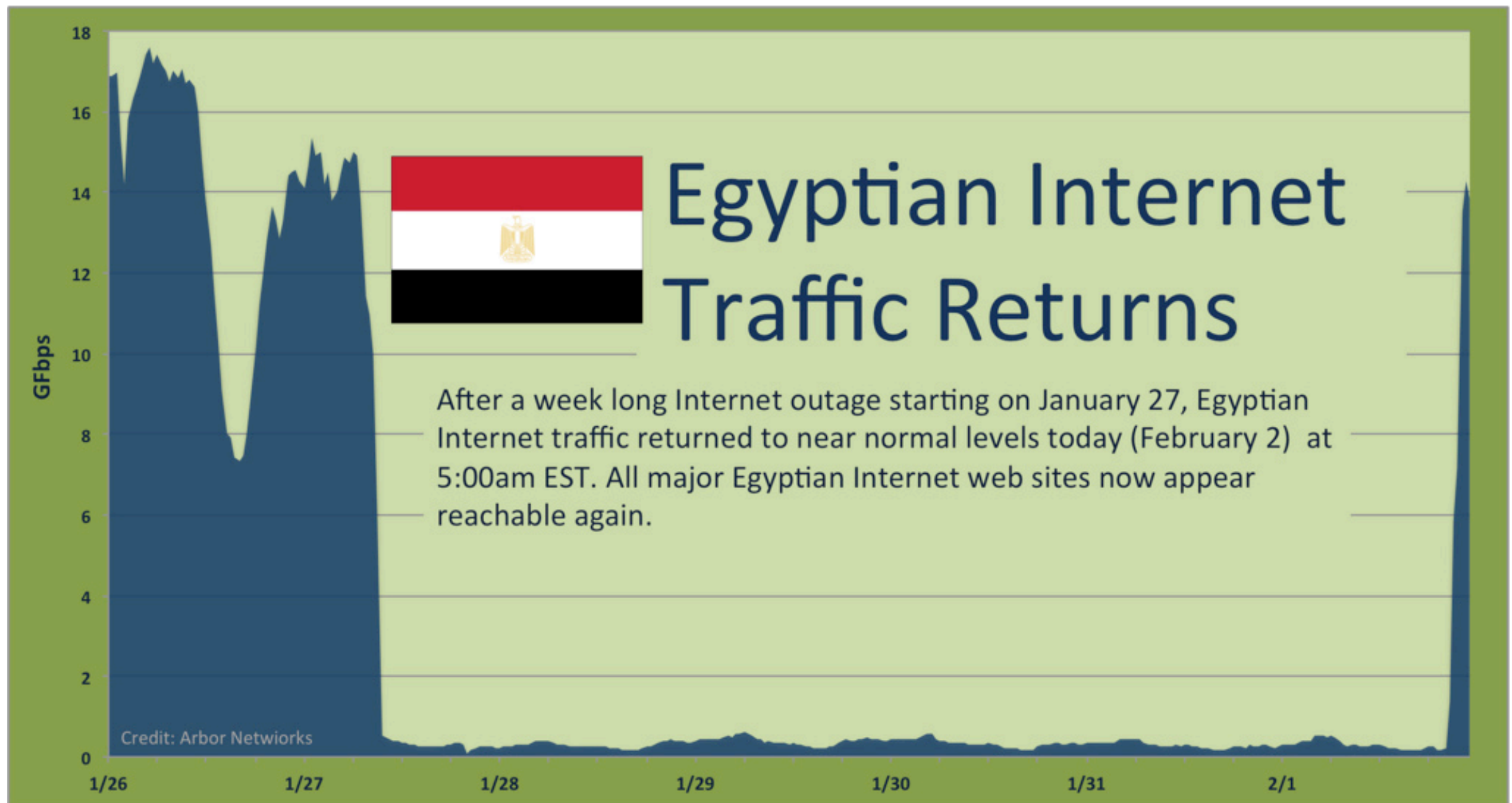


2008

YouTube Hijacking: Pakistan Telecom (AS17557)
started an unauthorized announcement of the prefix 208.65.153.0/24

<https://www.ripe.net/internet-coordination/news/industry-developments/youtube-hijacking-a-ripe-ncc-ris-case-study>

Blocking



<http://ddos.arbornetworks.com/2011/01/egypt-loses-the-internet/>

<http://ddos.arbornetworks.com/2011/02/egypt-returns-to-the-internet/>

The Egypt case

*“simultaneous withdrawal of all routes to Egyptian networks in the Internet's global routing table. Approximately **3,500 individual BGP routes were withdrawn, leaving no valid paths** by which the rest of the world could continue to exchange Internet traffic with Egypt's service providers. Virtually all of Egypt's Internet addresses are now unreachable, worldwide.”*

74.125.127.147

141.108.255.3

DNS - Domain Name system - the phone book of the Internet

root servers

*Top level
domain or
country code
domain server*

*domain
server*

site

com

it

google

isodarco

www

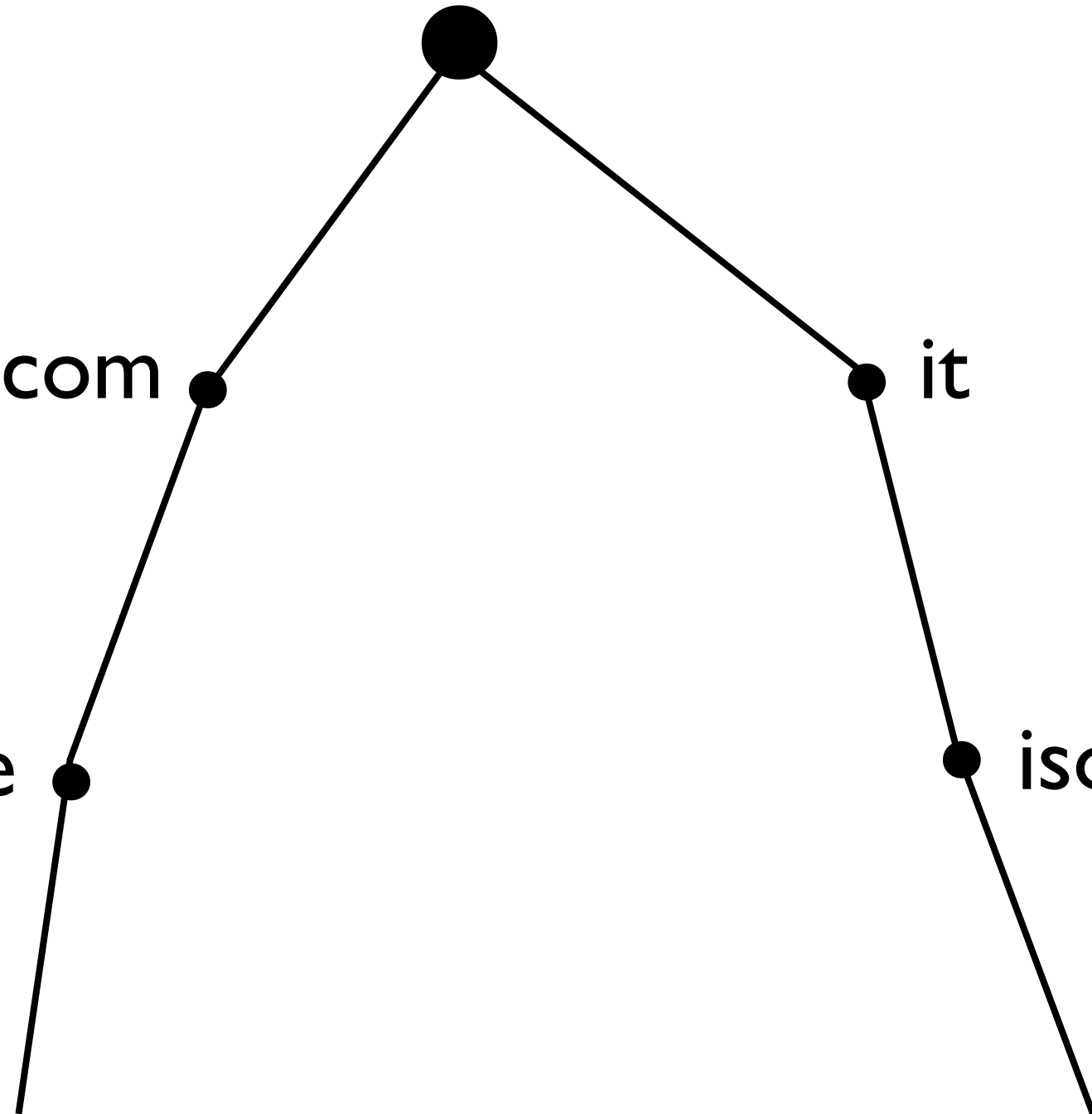
www

<http://www.google.com>

<http://www.isodarco.it/>

74.125.127.147

141.108.255.3



Operation Ghostclick

- Started in 2007, LEA were able to undisclose the operation the 9th of November 2011
- DNSChanger is a trojan that changes DNS settings in home PC/MAC/home routers
- 4 million computers in over 100 countries
- 500,000 pc in US
- \$14 million in illicit fees

Individuals

You.



Thank you

Rossella Mattioli

Tallinn University of Technology and Tartu University
Cyber Security Joint Master Programme

Email:

ross @07011979.org

Site:

www.07011979.org

Linkedin:

<http://www.linkedin.com/in/rossellamattioli>