

# *How to Use Policy Enforcement to Stop Abuse*

*RIPE*

*Anti-Abuse Working Group  
Amsterdam, the Netherlands*

*May 2009*

*Dr. Robert Bruen*

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# *KnujOn's First Rule*

*It's all about the money*

ICANN

Registrars

Resellers

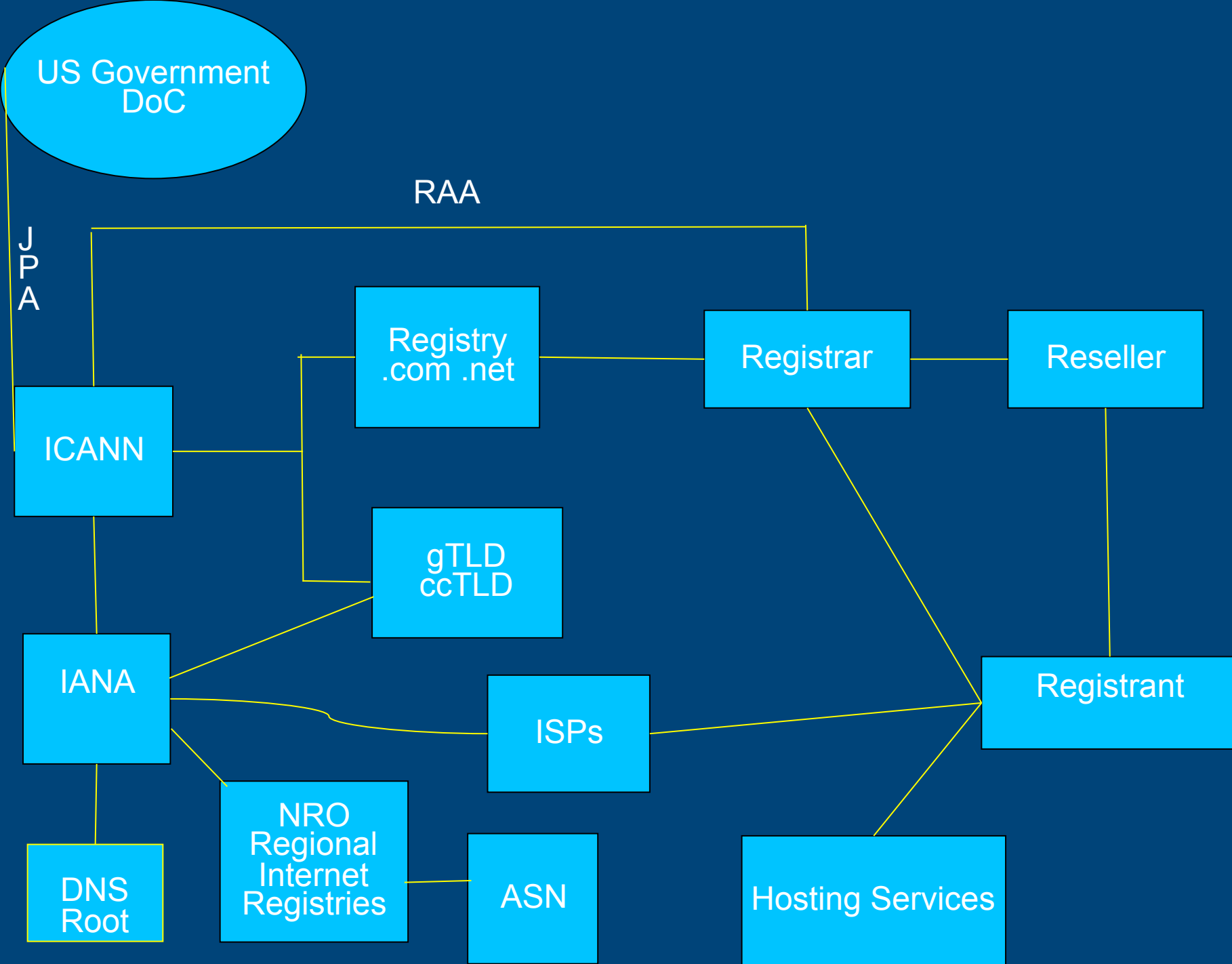
ISPs

Criminals



# *Policies, Contracts, MoUs*

- Policies are in contracts/agreements/rules
  - Seek loopholes
  - Whois data accuracy is one
  - Follow the rule (loophole)
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# *Whois Data Accuracy*

- Long and sordid history (1982-now)
  - Registrars required to correct WI data (RAA)
  - Still very controversial
  - KnujOn cares about individual privacy
  - Want commercial entities policy enforcement
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# *Enforcing WI Data Accuracy*

- KnujOn receives spam (anonymous & clients)
  - Extract transaction sites
  - Verify WI Data for each site
  - Complain to ICANN (Policy Enforcement)
  - Aggregate data & publish results (Sunshine)
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# *Top Ten Worst Registrars May 08*

1. Xin Net Bei Gong Da Software
  2. Beijing Networks
  3. Todaynic
  4. Joker
  5. eNom, Inc.
  6. MONIKER
  7. Dynamic Dolphin
  8. The Nameit Co/AITDOMAINS.COM
  9. PDR (Directi)
  10. Intercosmos/DIRECTNIC
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# *Top Ten Worst Registrars Feb 09*

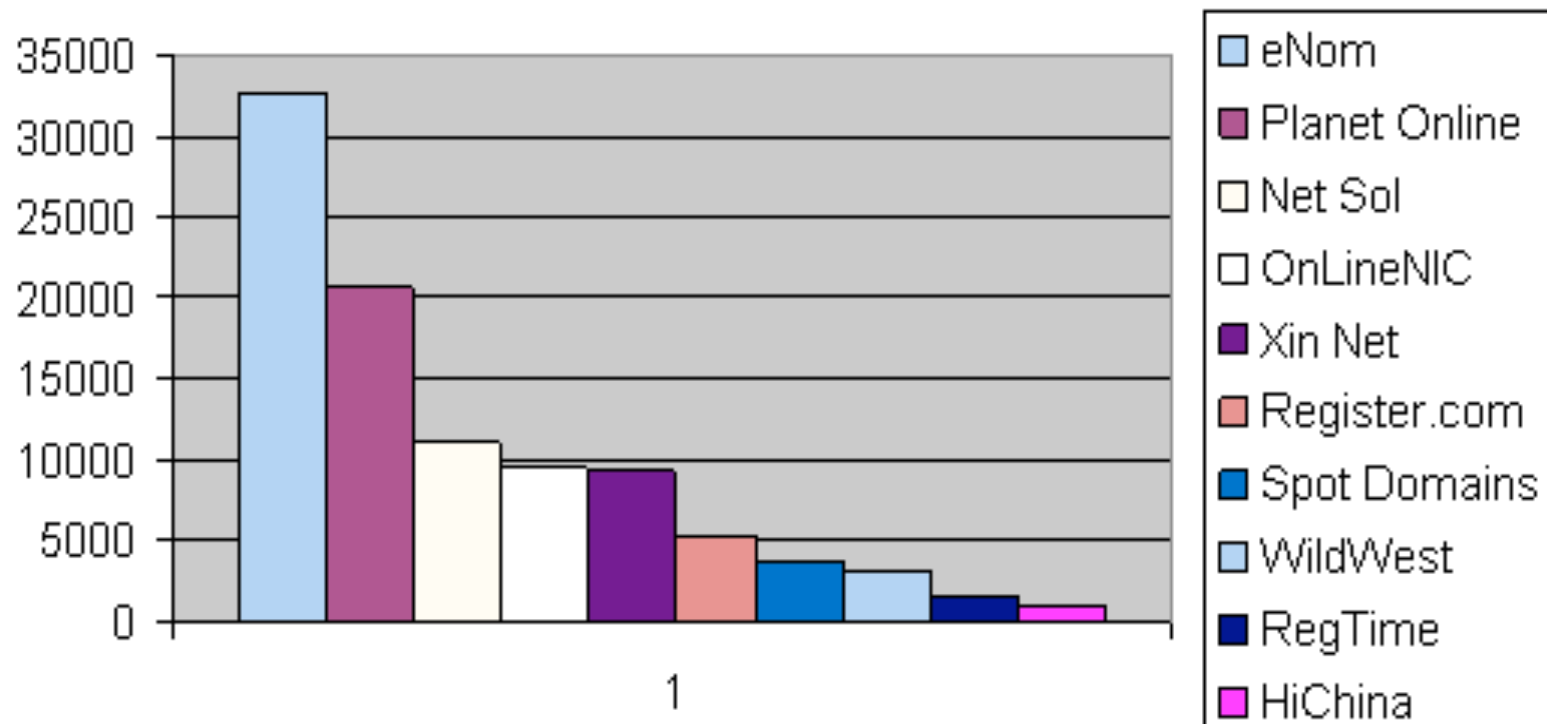
1. Xin Net
  2. eNom
  3. Network Solutions
  4. Register.com
  5. Planet Online
  6. RegTime - 1<sup>st</sup> Russian registrar to make the list
  7. OnlineNIC
  8. Spot Domain/Domainsite
  9. Wild West Domain
  10. HiChina Web Solutions
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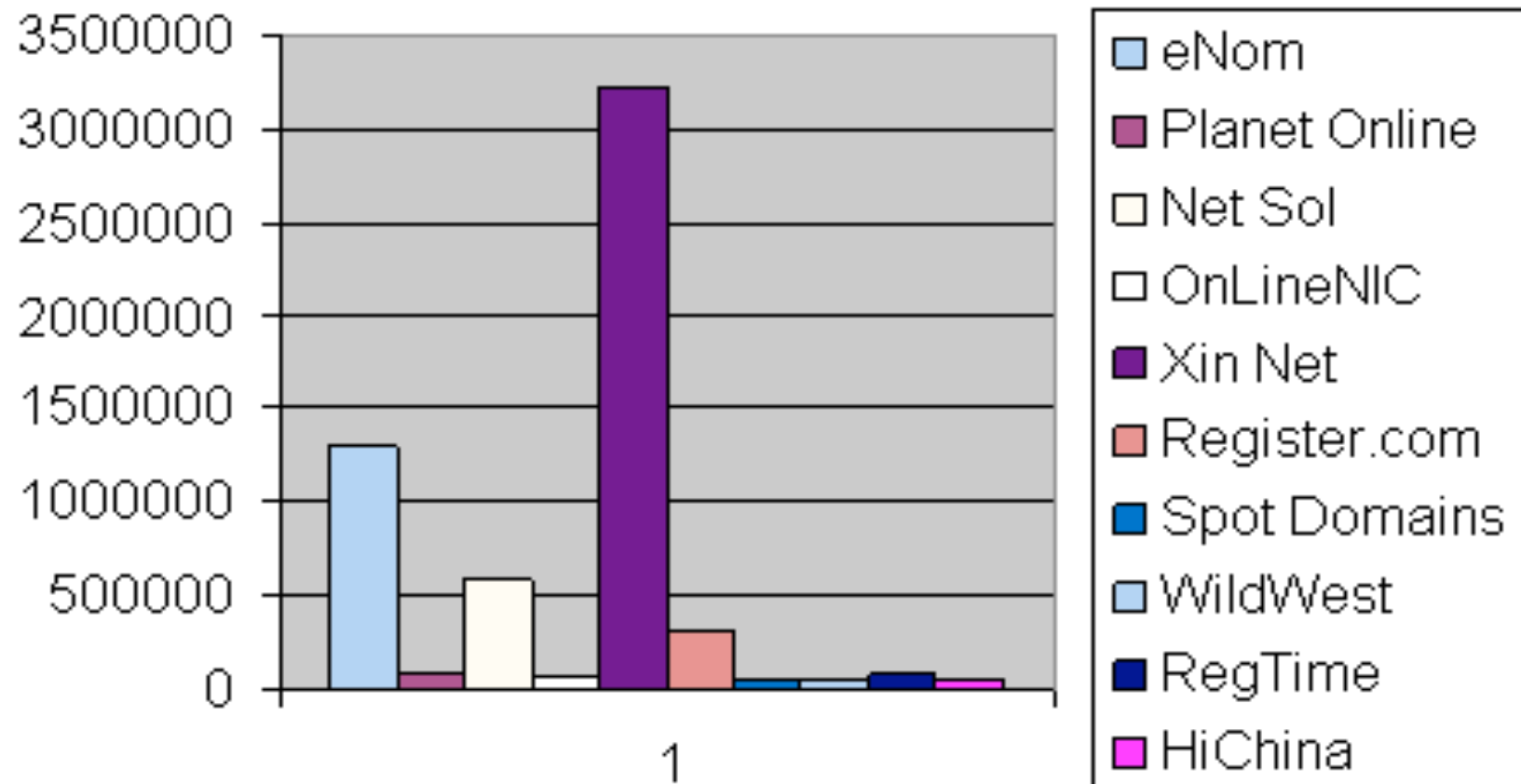
# *KnujOn's Top 10 Criteria*

- The raw number of domains held by the Registrar advertised in spam
  - The number of spam messages used to advertise those domains
  - The percentage of the whole Registrar portfolio that the spammed domains represents
  - The rate of spam messages per spammed domain
  - SUBJECTIVE: Is the Registrar Cooperating?
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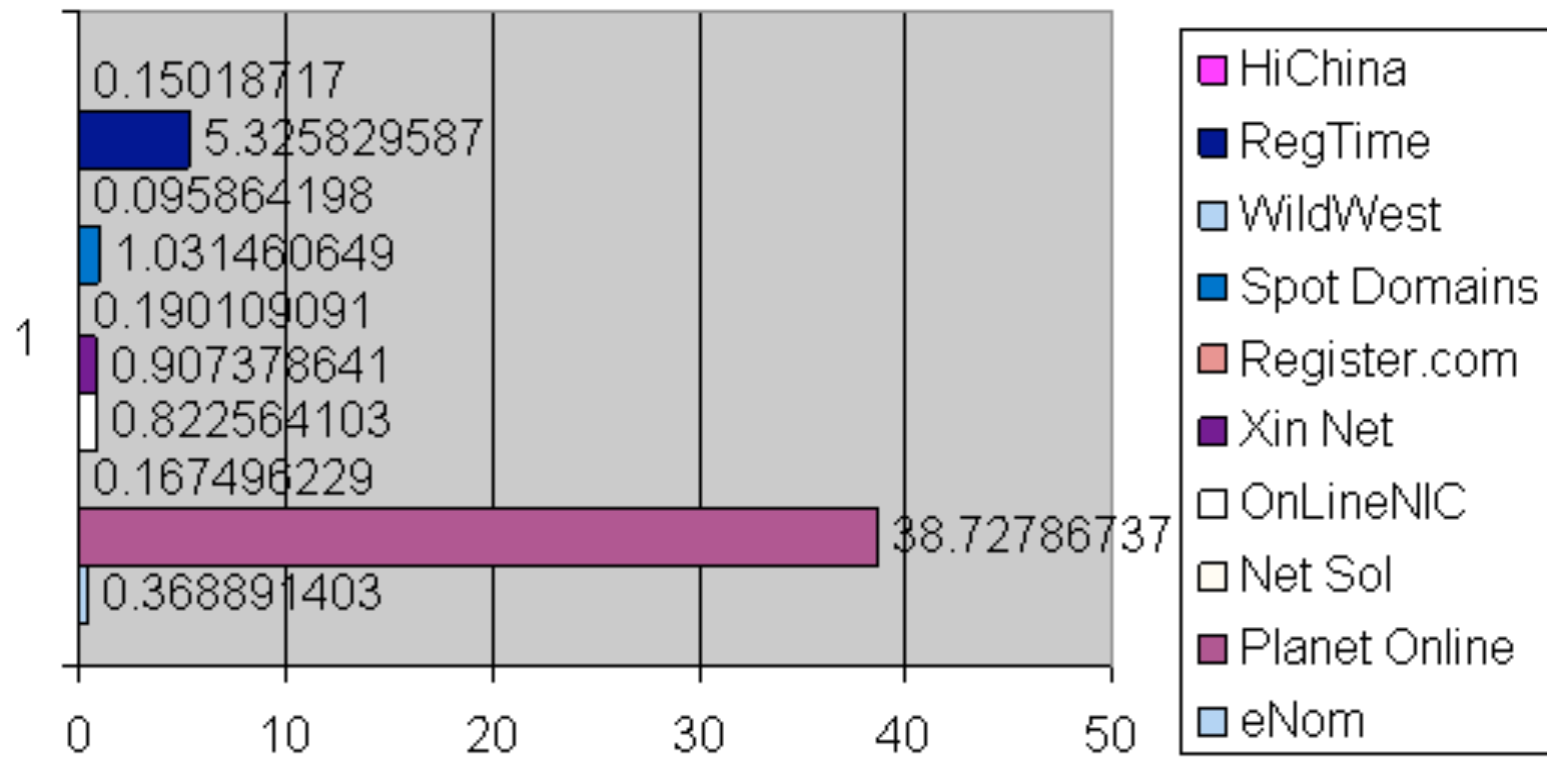
### Spammed Domains From June 08 to January 09



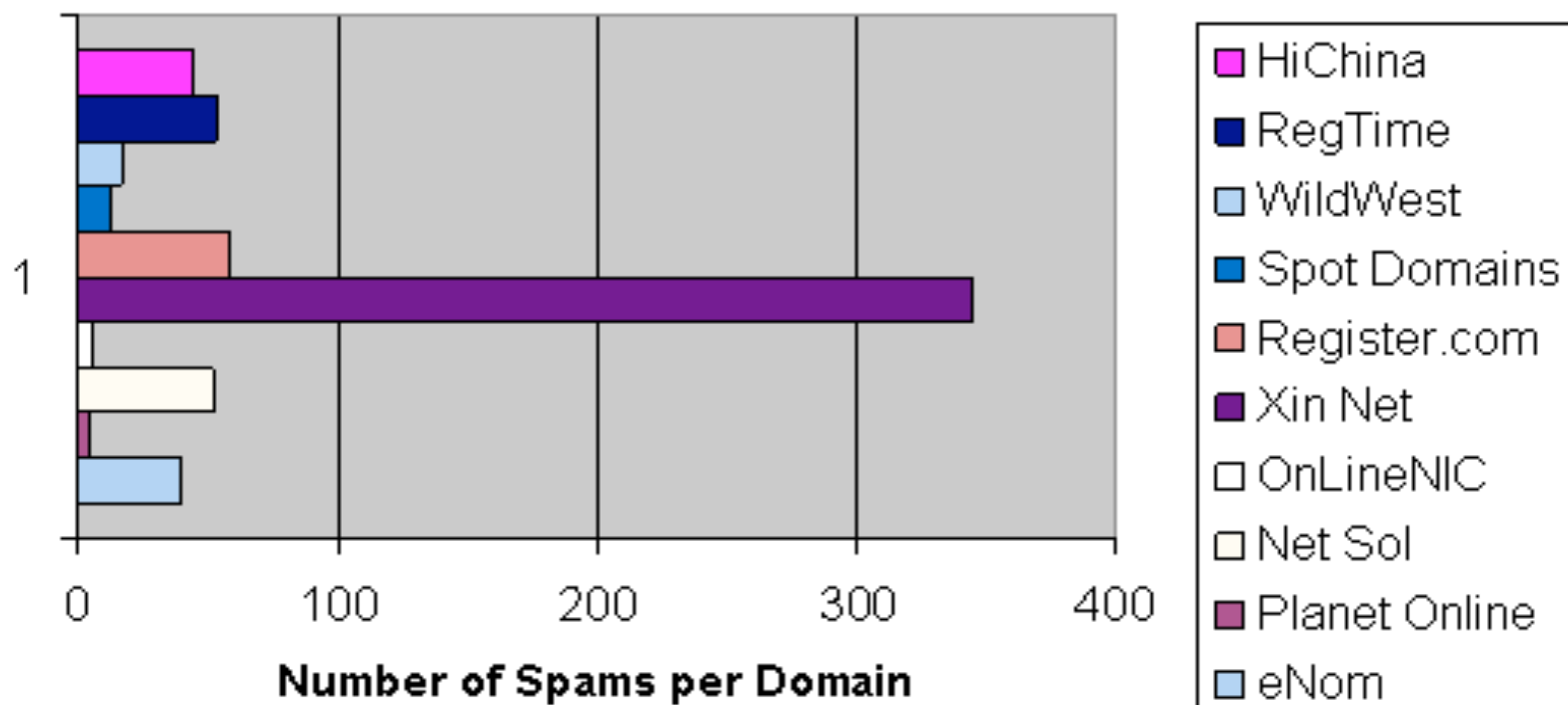
## Spam Messages by Registrar



## Percent of Total Domains Spammed



## Spam Messages Per Domain



# *Use of English – Whois Record*

- Common Language Use vs. Domination
  - Historically true – Latin, French, English
  - Future – Who knows? Maybe Chinese.
  - Also historical – Whois record in English
  - Change by replacement vs. addition = problem
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# *New Whois Registrar Problem*

- Chinese registrars are using Chinese characters
  - *Registrar name, registrant, not address*
  - Clearly hiding who they are
  - Much of the whois record is in English
  - No one else using their native language, yet
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# *Policy Reform*

- Transparency, stability and security
- More cooperation
- WI verification at registration
- Better control of resellers



# *Fake Online Pharmacies*

- Controversial
  - Not the same approach as Whois data accuracy
  - KnujOn & LegitScript believe it is obvious
    - In the USA: no license, no prescription = no sale
    - Support of illegal activity against RAA
    - Income supports the criminal ecosystem
  - Talking with Pharmaceutical industry (EU &US)
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# *Fake Pharmacies*

- *Pumped Up on the Internet* - LegitScript/Knujon Report
  - Starting with steroids
  - Branching out to all illicit pharmacy site
  - Registrars have already shutdown hundreds of thousands of sites using our data
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# *Views of Criminal Ecosystem*

- Two Main Views
    - Law Enforcement (LE) view - Handcuffs
    - KnujOn View -Policy
  - LE = Details (Lots...)
    - Financial theft & fraud, key loggers, hijacks, botnets
    - Arrest the Criminals
    - Blocklists
    - Spam filter & block
  - KnujOn = It looks the same as legitimate activity
    - Fast Flux, domain resellers, DNS, Pharmacies
    - Fix and Enforce Policy
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# *More Reform*

- Make everyone obey the laws
- No need to disrupt privacy
- Registrars in transition to institutions
- Resisting, of course, but in the end...



# *Any Questions?*

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