



DENIC's First Year in DNSSEC

- attempts to observe and conclude -

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- DNSSEC testbed started 2010-01
- Child DNSKEYs accepted for testbed 2010-03
- DNSSEC enabled for DE TLD 2011-05-31
- DE DS RR appears in root zone 2011-06-07



15,000,000

- domains registered in the DE TLD



150,000

- domains with data *authoritative* in the DE zone
- ... instead of delegated
- that's a DENIC special – for historic reasons
- these domains benefit from DNSSEC *without registrar/registrant action*



1,500

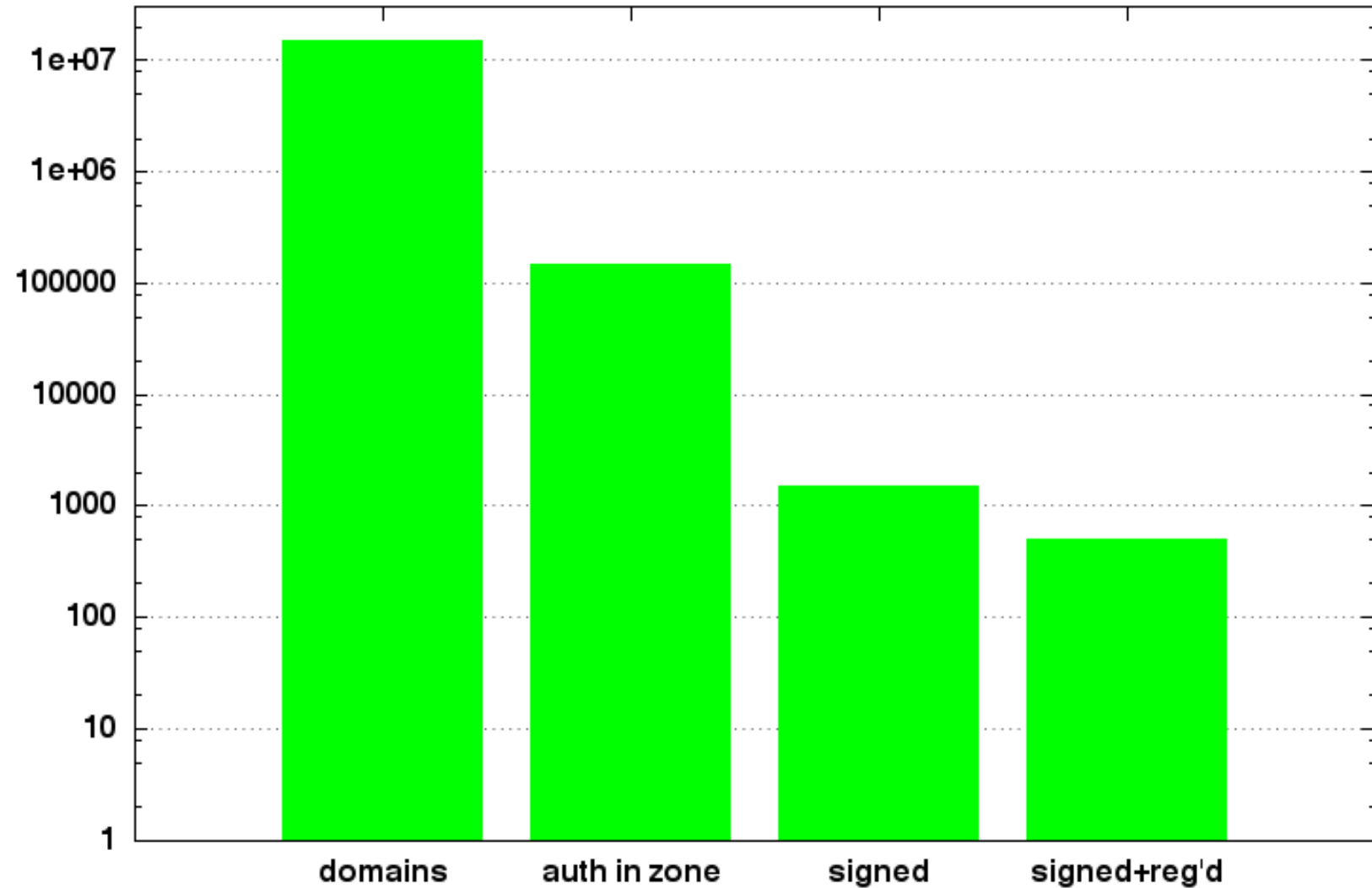
- domains signed by registrar/registrant (or reseller)
- that is the current demand baseline



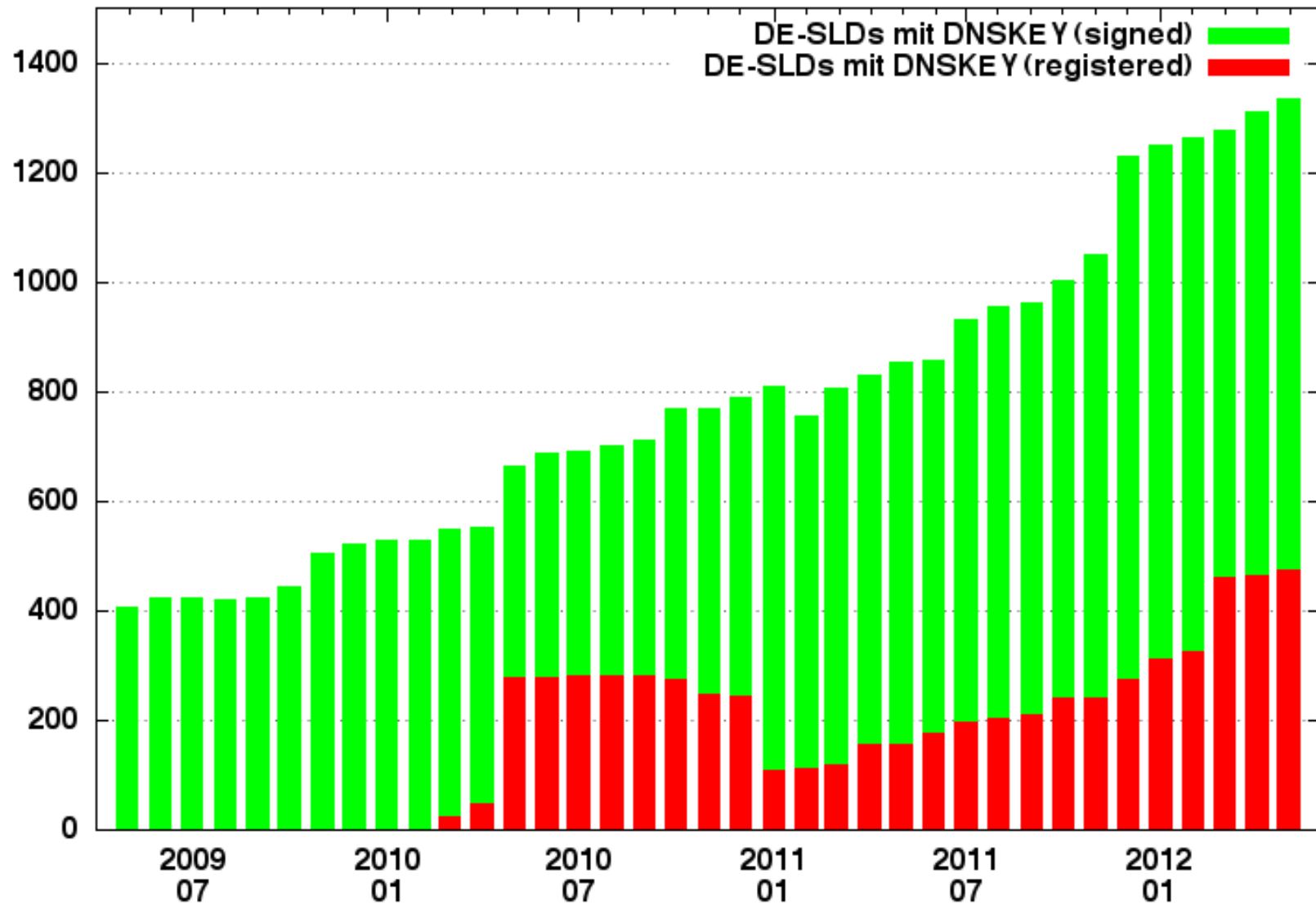
500

- domains signed and key material registered

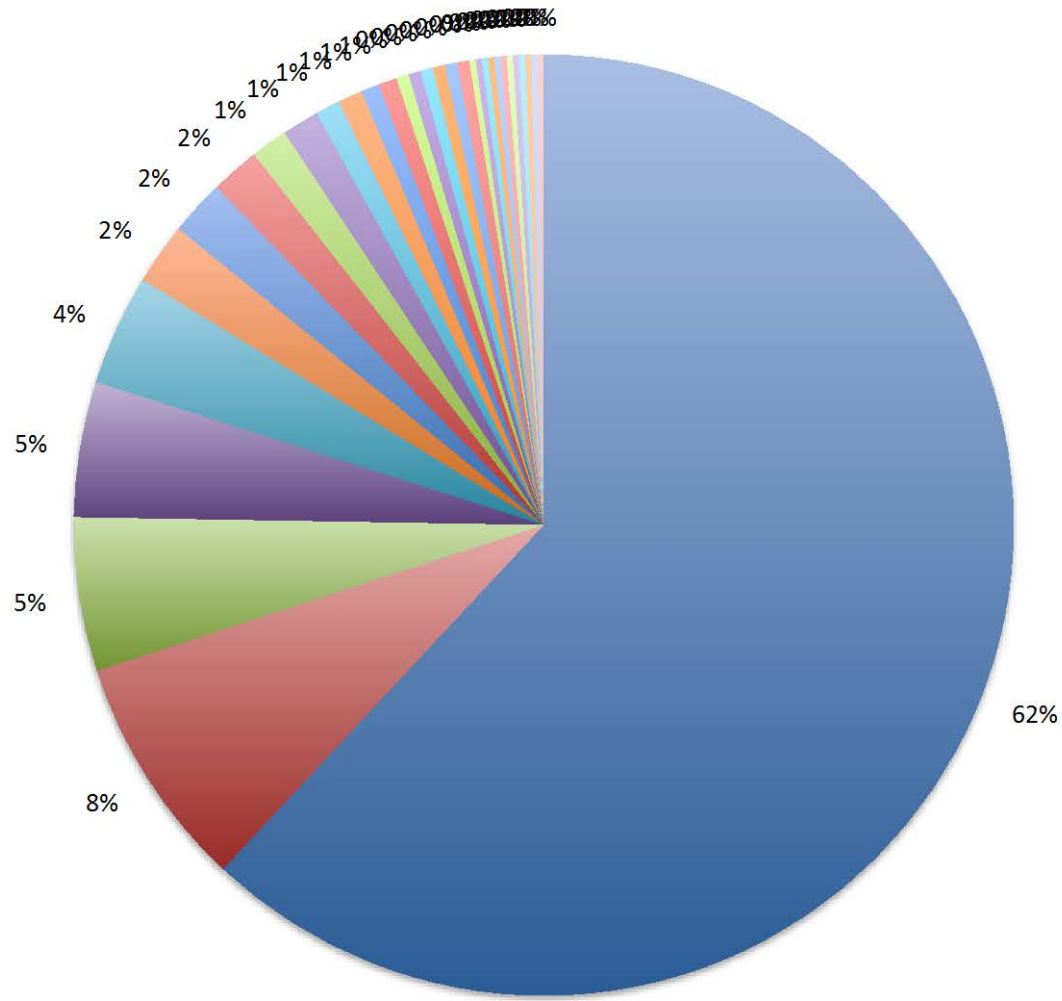
Needles in a haystack (2012-06, log scale!)



Signed vs registered domains



Signed & registered domains per registrar (2012-05)



Advantage: Follower





- Customers have indeed changed registrars
 - ... to get their keys registered
 - not yet under DNSSEC – operator change issue not yet relevant
- Little to no technical issues
 - however, automation has its cost
 - ... and installed base is still small!
- No prominent customers, yet
 - maybe except `paypal.de`, but CDNs need to play nice
- Most customers use KSK/ZSK split
 - some try full automation – appliances need attention



- Limited uptake
 - growth mainly due to enthusiast customers/resellers
 - DNSSEC „support“ comes in different flavours
 - still competing with IPv6 for (engineering) resources

- Moving targets are bad
 - DLV, NTA (negative trust anchors), late „little“ changes ...

- Waiting for the killer app
 - DANE hard to sell
 - ... also hard to keep the promise



?

Thanks!

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