

Internet Corporation for Assigned Names & Numbers - Internet Assigned Numbers Authority Update



Save Vocea
Regional Liaison -
Australasia/Pacific
17 June 2007

PacNOG 3, Rarotonga

ICANN Mission

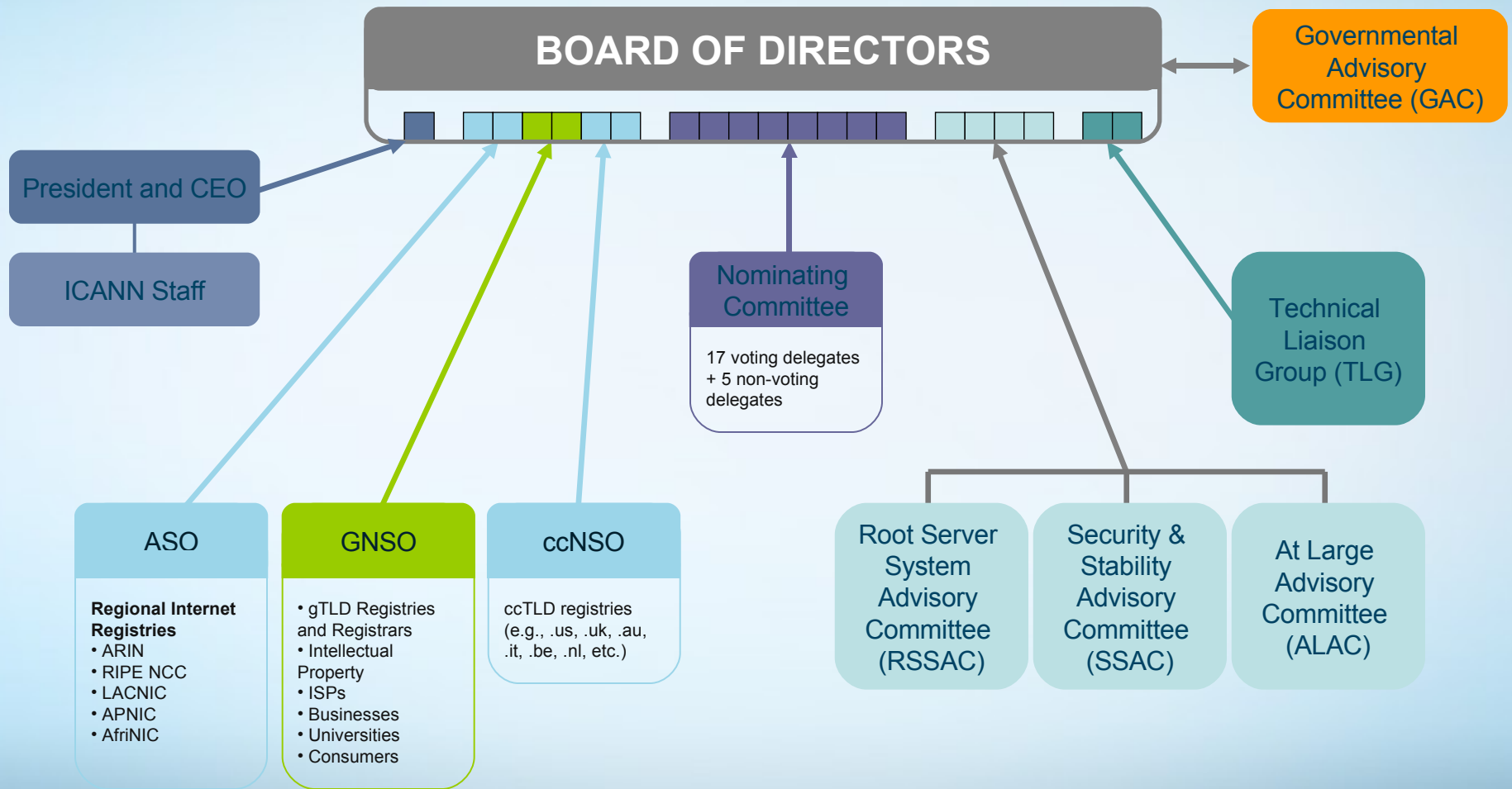


- To coordinate, at the overall level, the global Internet's systems of unique identifiers, and in particular to ensure the stable and secure operation of the Internet's unique identifier systems. In particular ICANN coordinates:
 - the allocation and assignment of the three sets of unique identifiers for the Internet, which are:
 - Domain names (forming a system referred to as DNS)
 - Internet protocol (IP) addresses and autonomous system (AS) numbers, and
 - Protocol port and parameter numbers
 - the operation and evolution of the DNS root name server system
 - policy development reasonably and appropriately related to these technical functions

Principles of operation

1. Contribute to stability and security of the unique identifiers system and root management
2. Promote competition and choice for registrants and other users
3. Forum for multi-stakeholder bottom-up development of related policy
4. Ensuring on a global basis an opportunity for participation by all interested parties

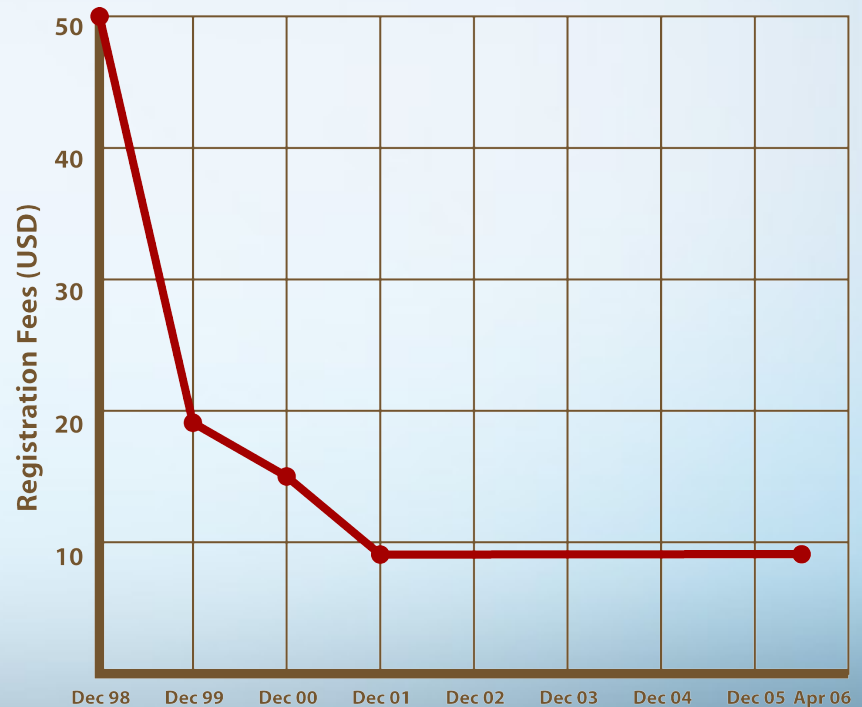
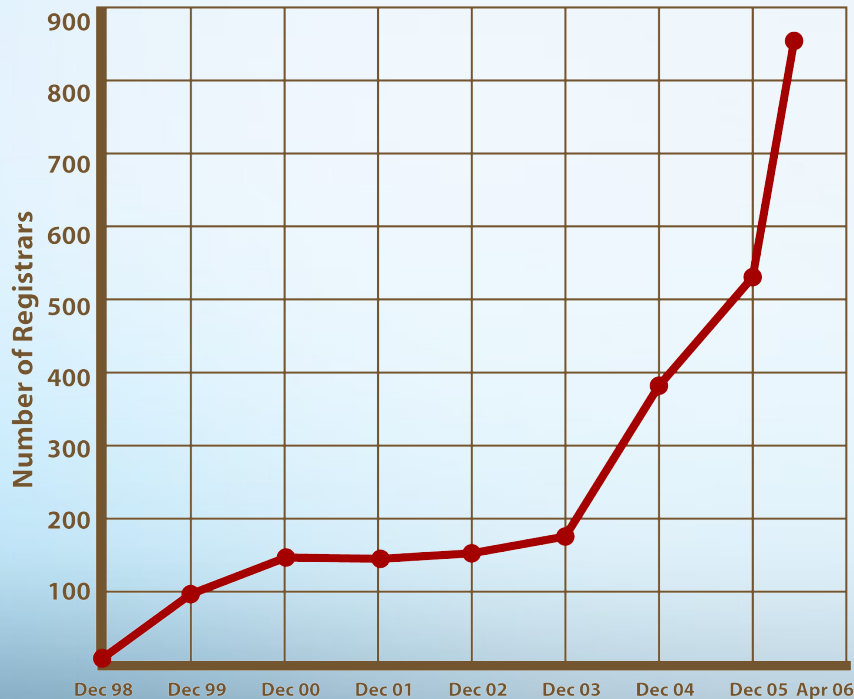
ICANN's community



Competition in the Domain Name space (gTLD)



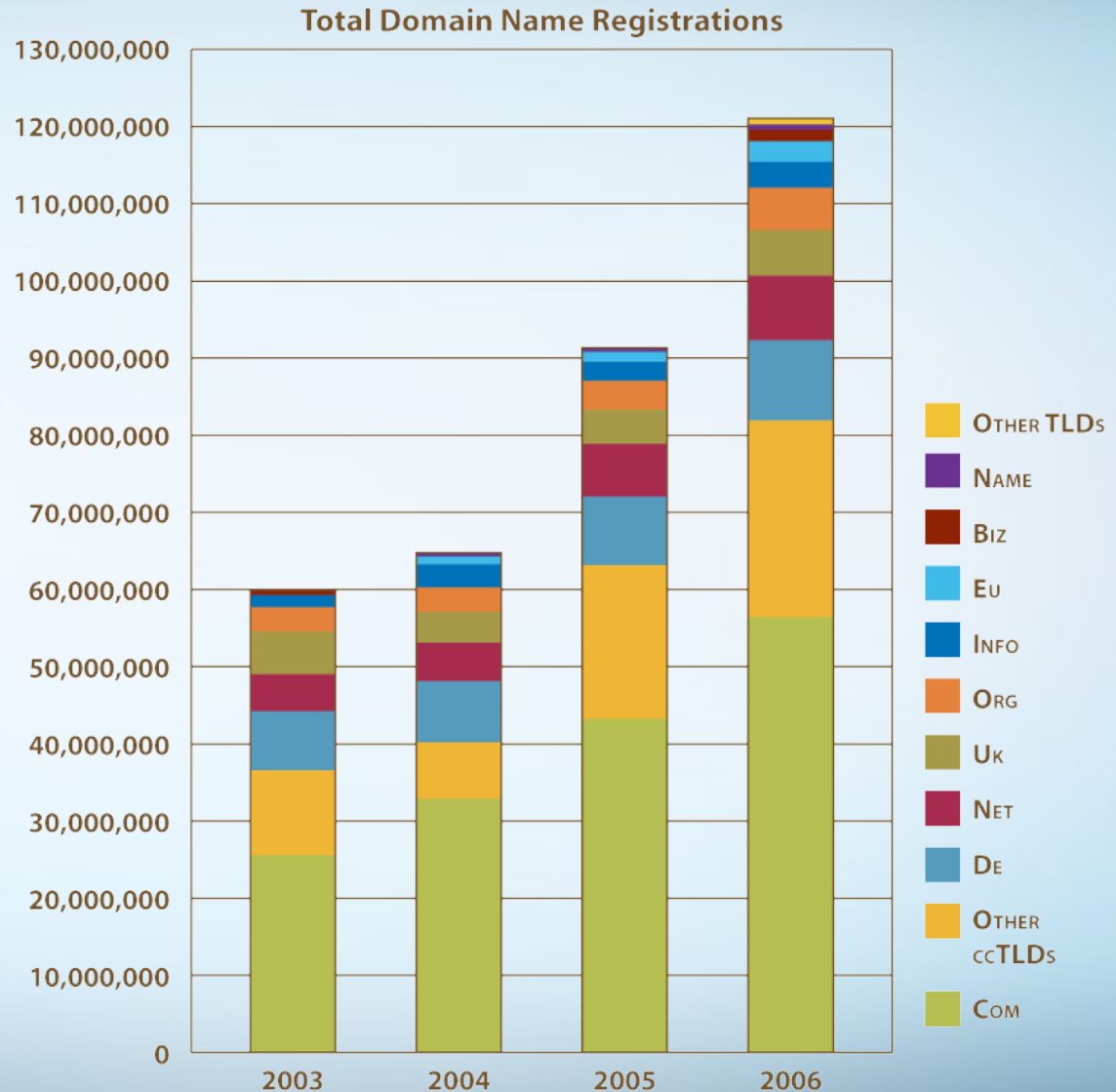
- Introduced by ICANN
- Registrars now have a market **and** a business
- Consumers have greater choice in price and services
- Domain name marketplace is even driving how we search – contextually as well as topically – and the scale of sites that can be searched
- Total registrars: **880+** and counting



Snapshot of the Domain Name marketplace



More than **120 million** domain names registered globally



Domain Names trends



- Based on model and policies adopted by the gTLD or ccTLD registry
 - Useful regional ref.: <http://www.aptd.org>
- Registries/ Registrars and resellers to boost portfolio

Other trends

- Domain secondary markets to be primary
 - Registered, expired, resale, portfolio sales, parking
 - See <http://www.sedo.com>
- Registry's and registrar relations to expand into new markets
 - Looking abroad for potential partnerships
 - New “opportunities /challenges” for emerging ccTLD registry markets
- IPv6 and DNSSEC
- Whois issues
- Internationalized Domain Names (IDNs)

Policies and your input matters

- <http://www.icann.org/topics/>
- <http://www.icann.org/processes/>
- ccTLD operators invited to join the ccNSO
- Govt representatives to participate in GAC
- Invitation open to end user org to consider joining as At-Large Structure and APRALO

Internet Assigned Numbers Authority (IANA) Functions

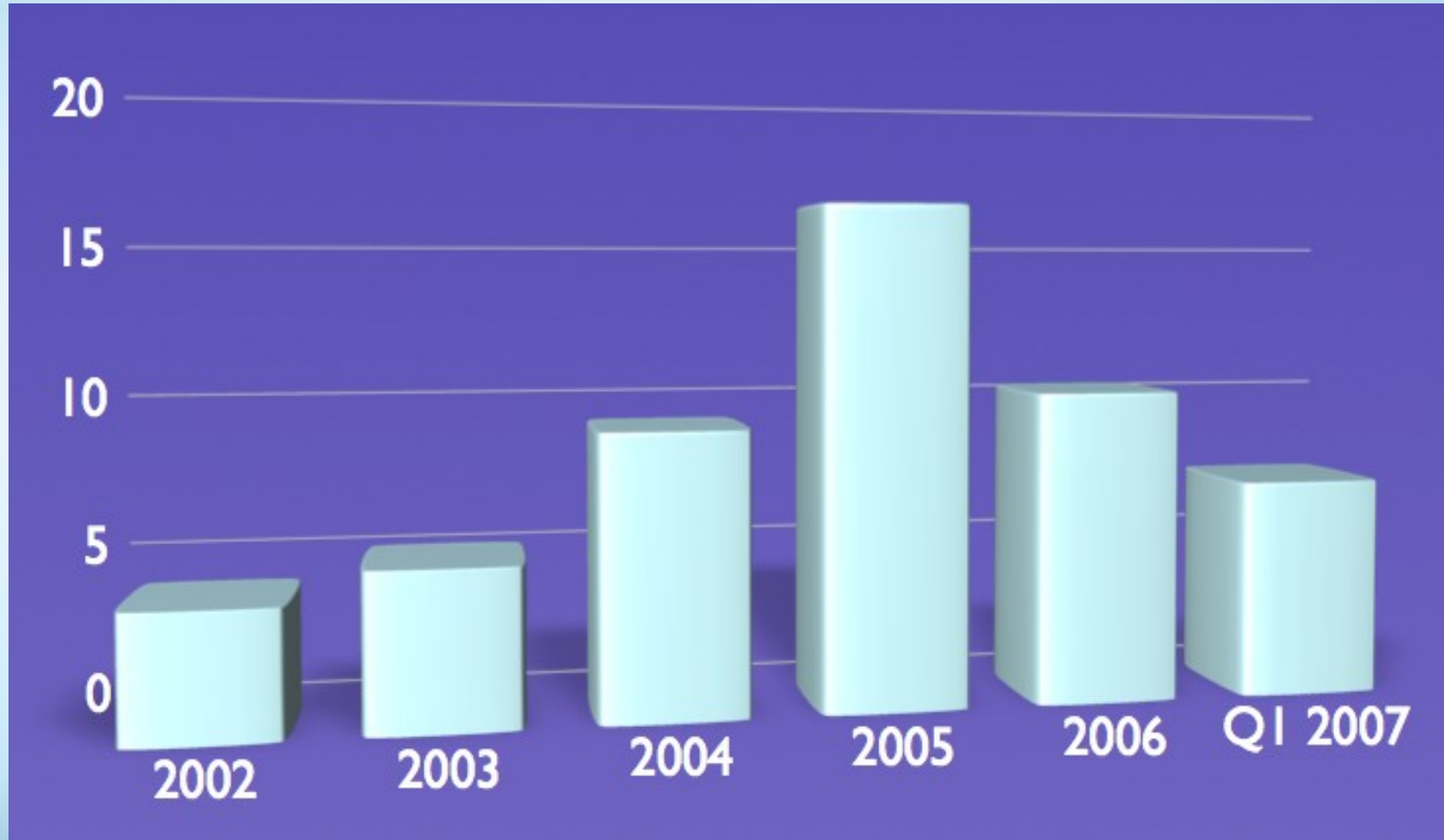


- Resource management
 - IPv4, IPv6 and ASN Registries (in cooperation with the RIRs)
 - Protocol parameter registries (in cooperation with IETF/IESG/IAB)
 - Internet Drafts and RFC standards process
 - Identifier registry creation and maintenance
 - Ports and Personal Enterprise Numbers (PENs) assignments
 - Maintain .ARPA and .INT domain registrations and registries
 - Root zone management
 - Maintain Top Level Domain registration and zone delegation information
 - Validate and process TLD change requests
 - Verify minimal proper DNS server requirements
 - Maintain public “Whois” and internal delegation process/procedure information for TLDs.

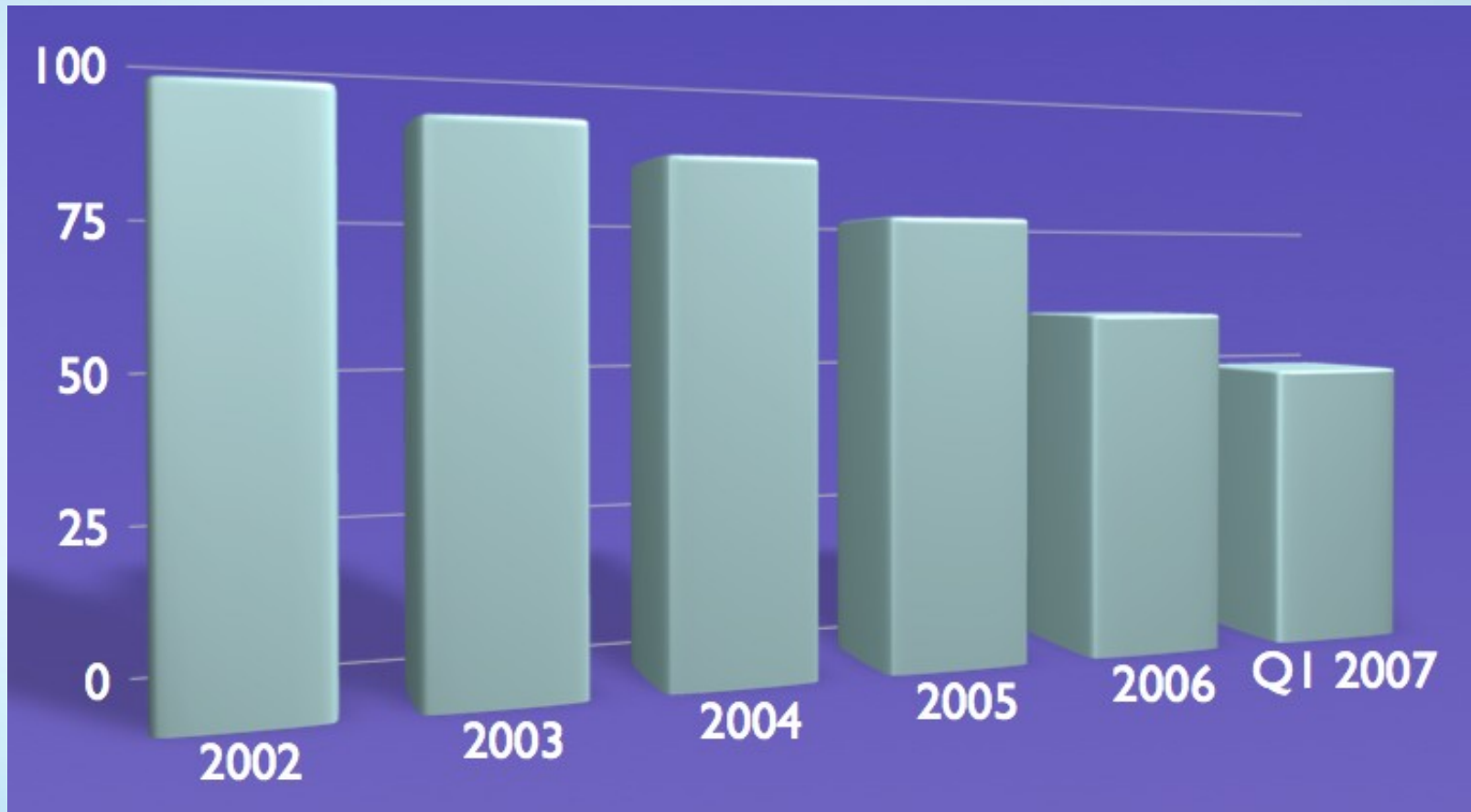
Current Projects

- Registries
 - IPv4 Address Allocation Registry Data Review
 - RFC inventory - check all registries have been created
 - Converting all registries to an XML data structure
 - Whois service for IP address registries
- Administrative
 - Documentation Management
 - IANA web redesign
 - Automated Report Generation
- IANA Process Improvements
 - Reverse Delegation for in-addr.arpa and ip6.arpa
 - DNSSEC for all IANA managed zones
 - DNS checking tool
 - “eIANA” self-service for ccTLDs
 - PEN allocation automation

Growing demand for IPv4



IPv4 Free Pool - shrinking



Near-Term Future Activities



- Signing .ARPA
 - Talking with IAB about how to move forward
- IANA Process Automation
 - DNSSEC
 - Port allocation
- “Customer Satisfaction Survey”

On the Horizon Activities



- “IANA Certificate Authority”
- Improved authentication mechanisms
- Root Zone Management via EPP
- Registry availability programmatically via...
 - BEEP? XML-RPC? SOAP?
 - What is useful to network operators?
- IANA Infrastructure improvements

Invitation to participate



Welcome to the ICANN San Juan Meeting

Pre-Registration is NOW OPEN!!!

Reservation Group Code: ICNA07

ICANN's 29th International Public Meeting

25-29 June 2007



**Know more about
Puerto Rico**



**Know more about
San Juan**



Meeting Venue



Pre-Registration



Hotels Reservation

Get involved - be heard!!



- Remote participation on public participation site <http://public.icann.org/>
- Blog on <http://blog.icann.org/>
- Full fellowships to attend meetings
 - Next meeting in Los Angeles
 - 29 Oct - 2 Nov 2007

Thank you...

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