

Update for TLD managers

Nairobi, Kenya

March 2010

Kim Davies

Manager, Root Zone Services

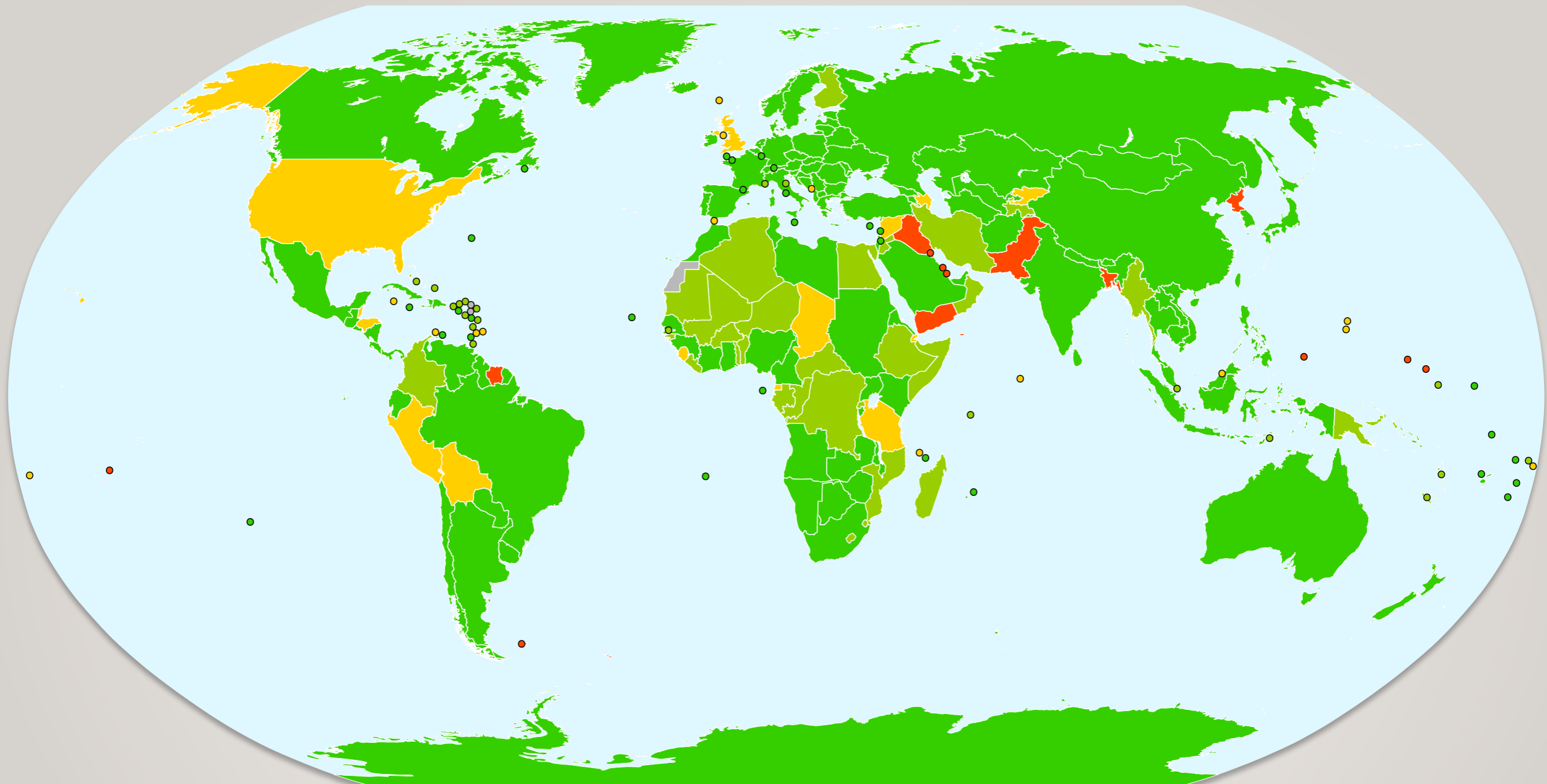


Internet Corporation for
Assigned Names & Numbers

Technical Conformance Update

One year later

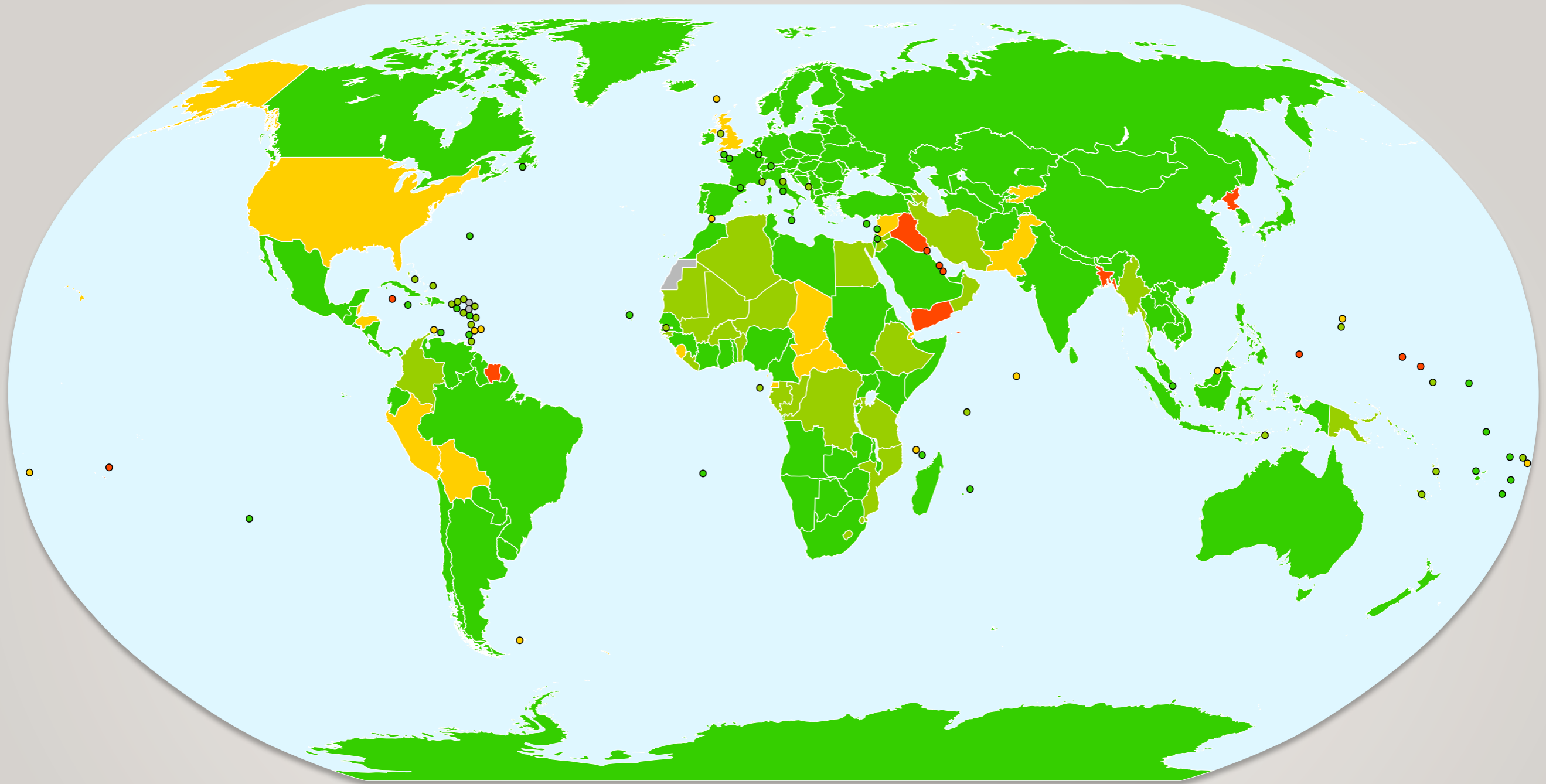
- ▶ A year ago, we brought our minimum technical criteria for root zone changes up to date
- ▶ Started monitoring several aspects of TLD management, like IPv4 and IPv6 network diversity
- ▶ More routinely flagged such issues to TLD managers during processing



None 1 2 3 4+

ccTLDs with AS diversity (2009)

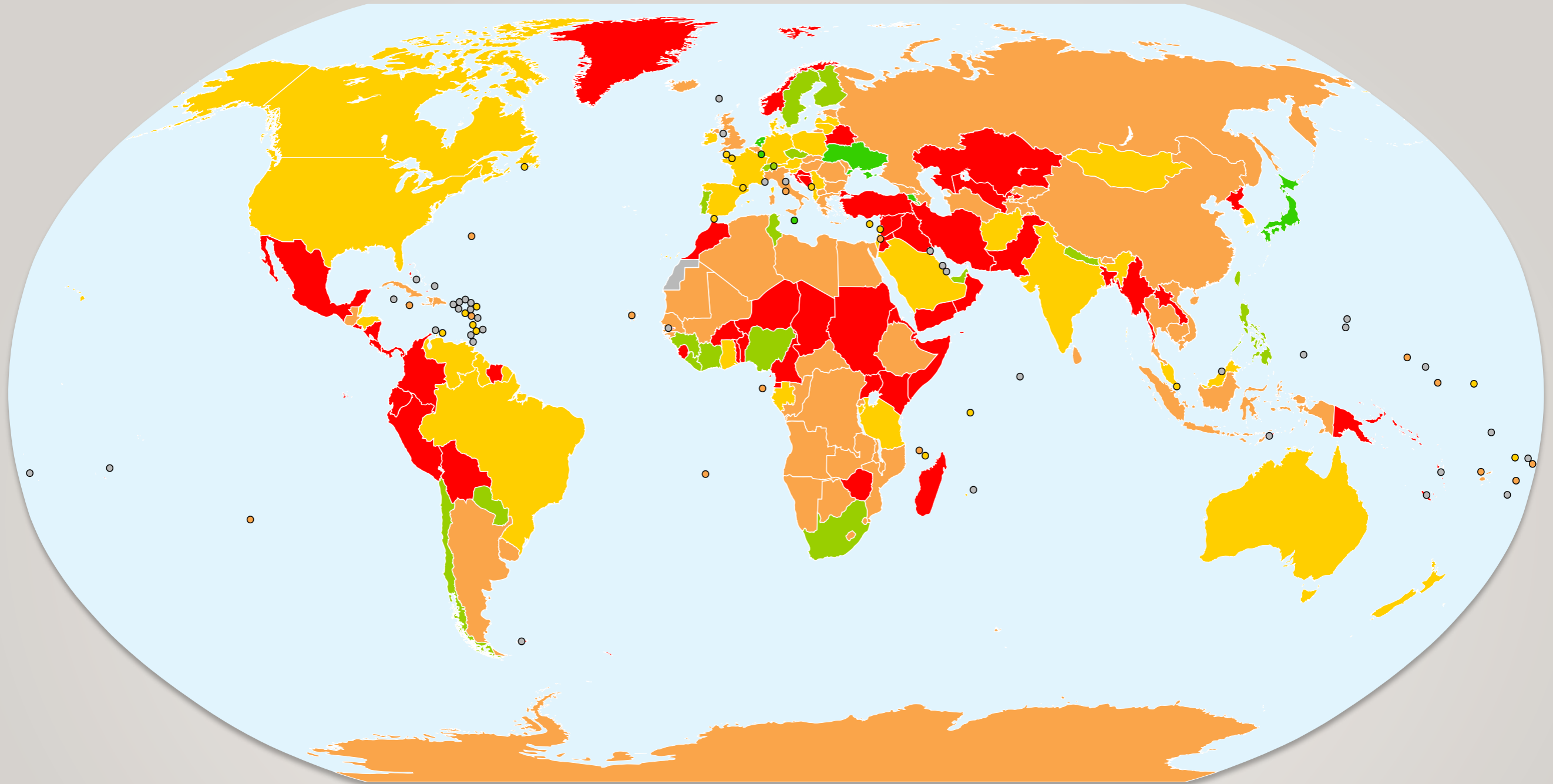
As at 1 March 2009



None 1 2 3 4+

ccTLDs with AS diversity (2010)

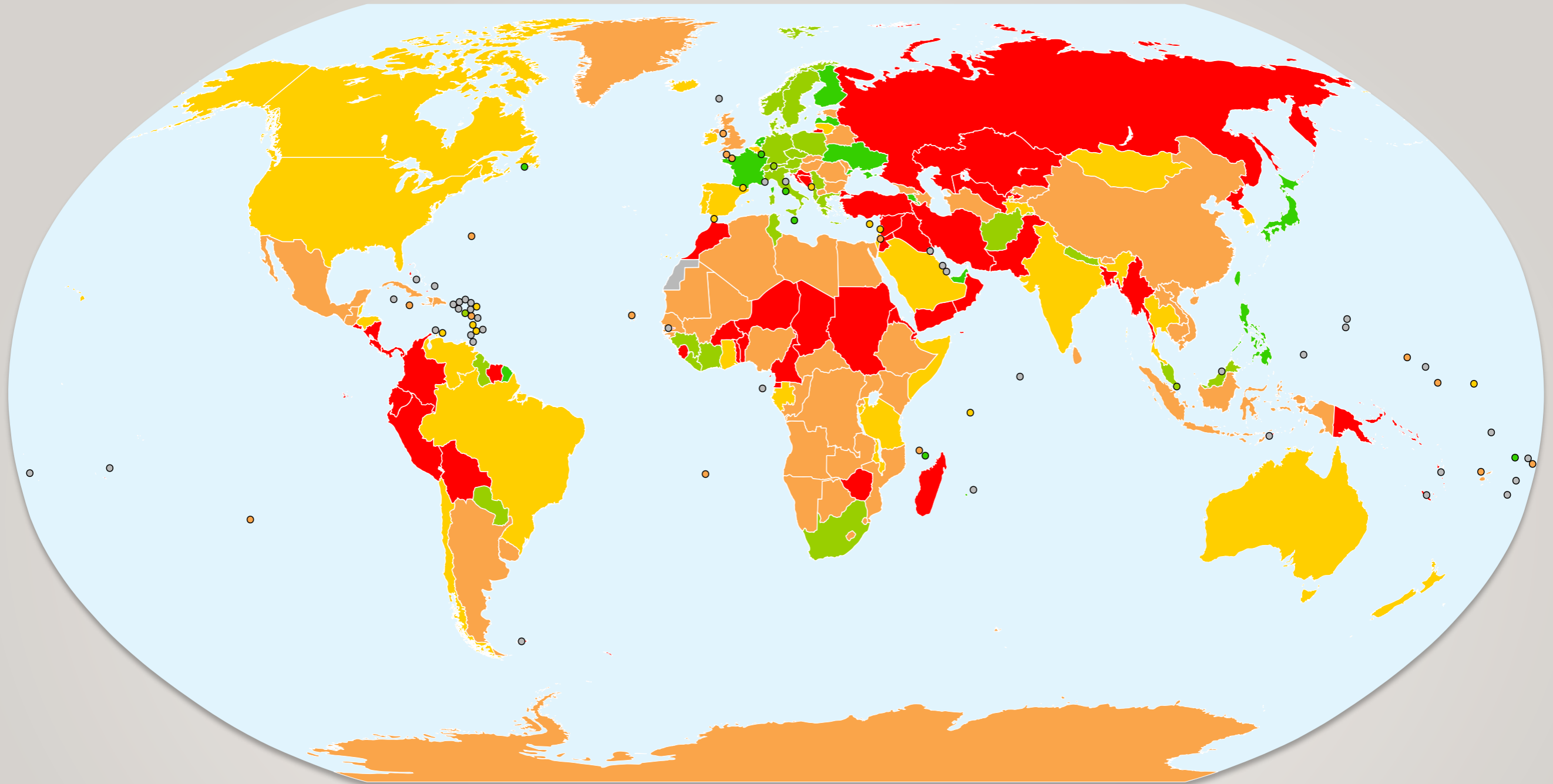
As at 1 March 2010



Not delegated None 1 2 3 4+

ccTLDs w/ AS diversity over IPv6 (2009)

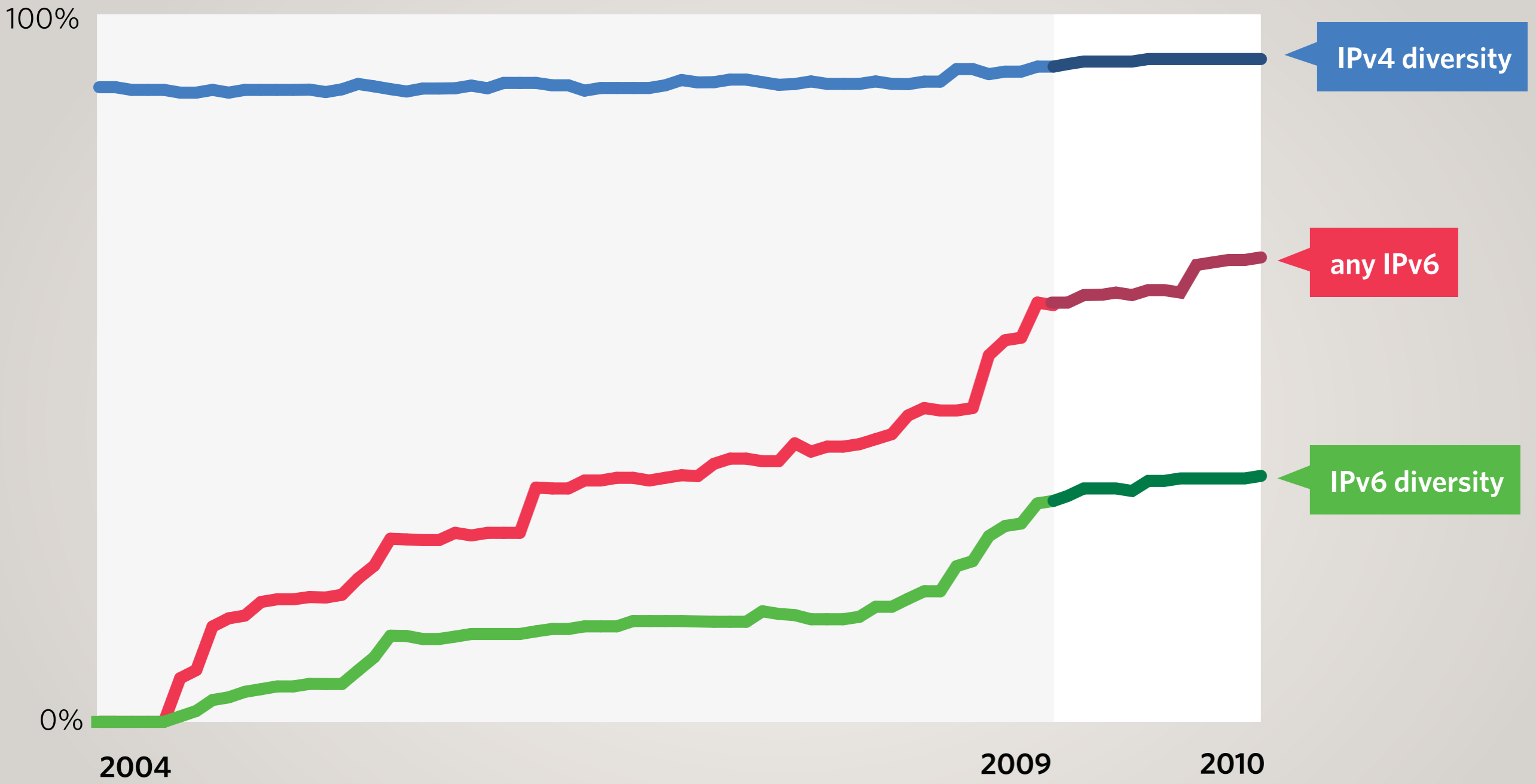
As at 1 March 2009



Not delegated None 1 2 3 4+

ccTLDs w/ AS diversity over IPv6 (2010)

As at 1 March 2010



The bottom line

	2009	2010
TLDs with open recursive name servers	9.6%	10.3%
TLDs without diverse IPv4 connectivity	7.2%	6.4%
TLDs without diverse IPv6 connectivity	68.7%	65.5%
... without <i>any</i> IPv6	41.0%	34.5%
TLDs with referrals that can fragment	4.3%	8.9%

IDN ccTLD Fast Track

Update

- ▶ 19 applications received for string selection
- ▶ 4 applications received for domain delegation (IANA process)
- ▶ Confusion — some expect the delegation process is the same as string selection.



Sponsoring Organisation (operator)



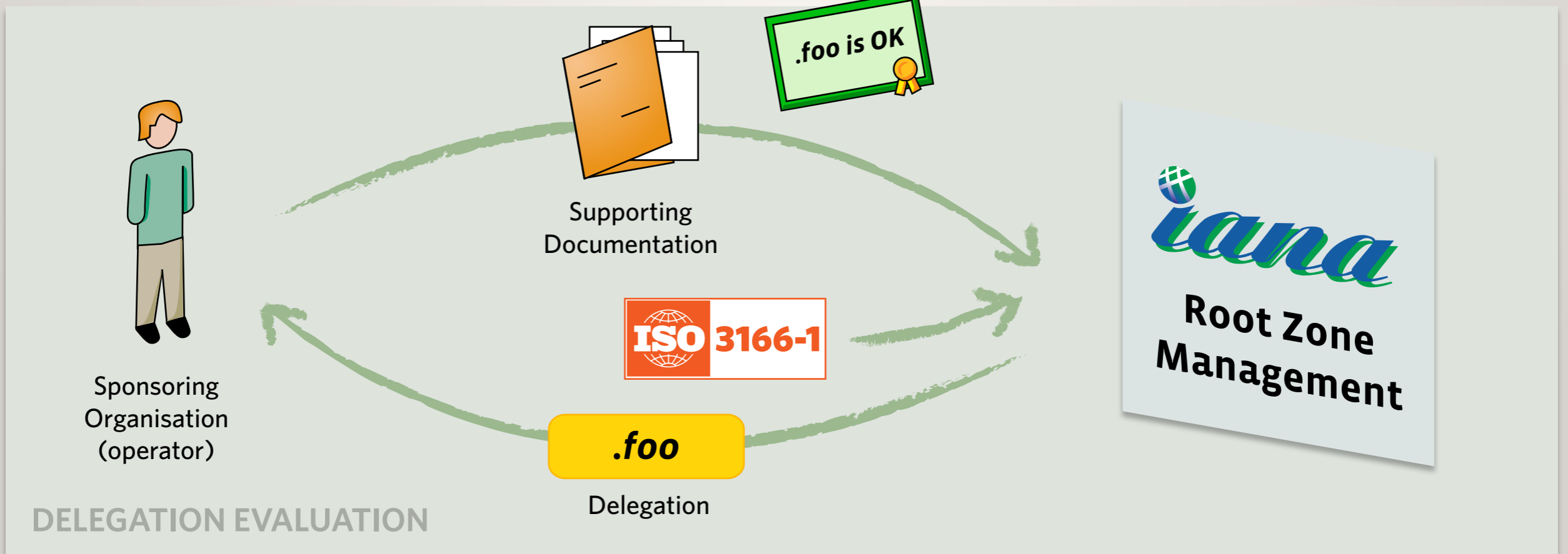
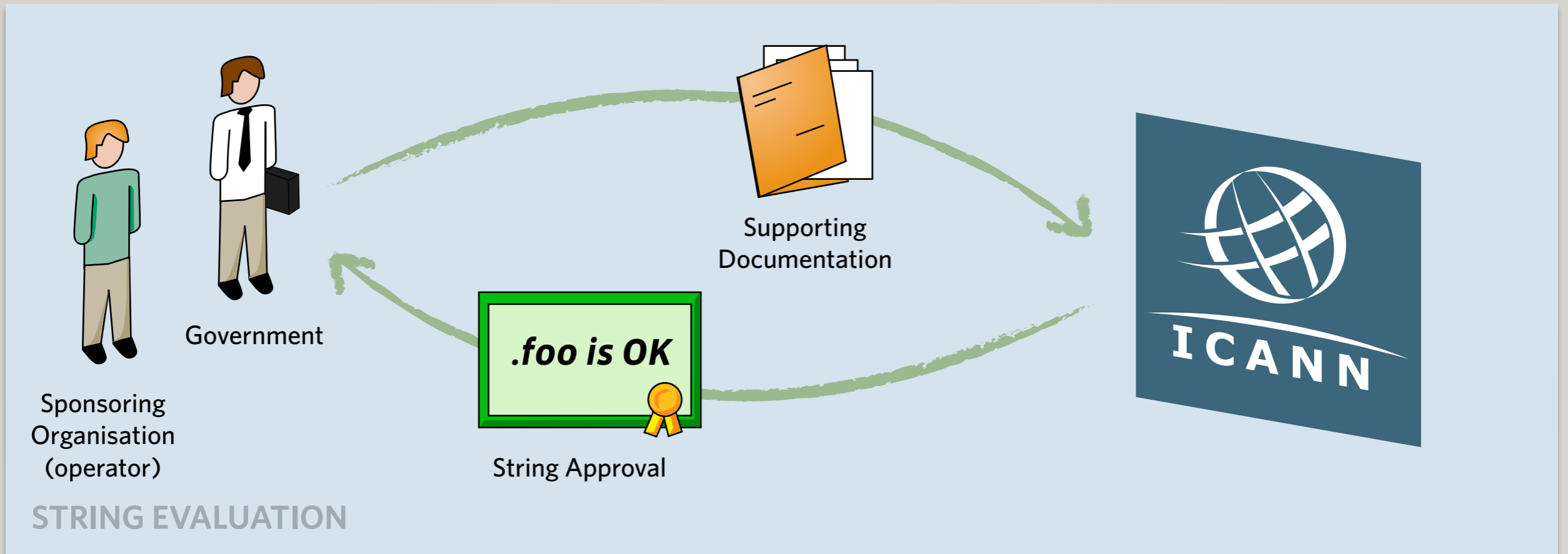
Supporting Documentation



Delegation



DELEGATION EVALUATION



Phase 1

can we use "ελ" to represent "Greece"?



Phase 2

can ".ελ" be delegated to (*organisation*) and be inserted in the root zone?

evaluation performed by new ICANN team w/ outside experts

new eligibility criteria, new process (web form)

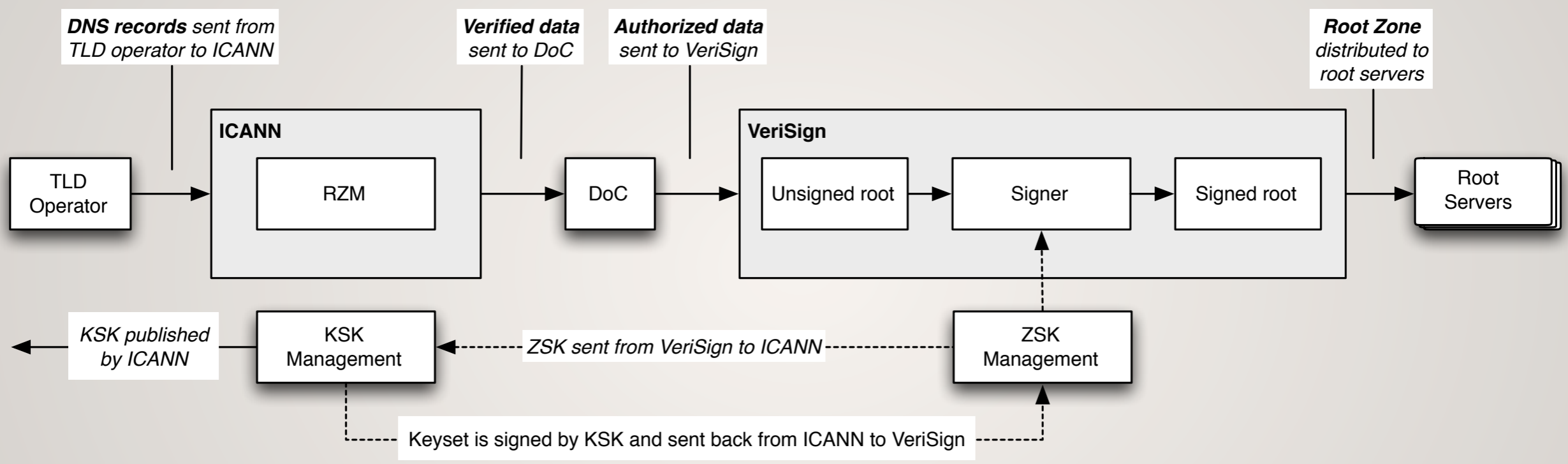
minimum 2 weeks

evaluation performed by IANA staff w/ ICANN Board approval

standard delegation criteria, standard root zone process, plus Phase 1 completion

estimate 3+ months

Signing the Root Zone



In summary

- ▶ Progressive roll-out from January to mid-year
- ▶ Until fully deployed, in a 'deliberately unvalidatable' state so people don't come to rely on it working; allows roll-back.
- ▶ No significant issues identified so far
- ▶ **root-dnssec.org**

Accepting DS records

- ▶ DNSSEC-signed TLD operators expects to soon be able to submit DS records for insertion into root zone.
- ▶ Similar process to ITAR, but more closely tied to existing root zone process.

WHOIS Data Accuracy

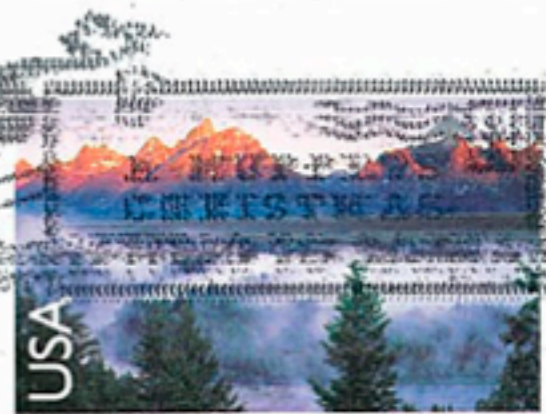
Checking the data in our WHOIS

- ▶ IANA staff rarely (never?) has reason to send physical mail to TLD managers
- ▶ How to verify if addresses are correct?



LOS ANGELES CA 900

10 DEC 2009 PM 9 T



age
Mamia Sanadiradze
SANET Ltd.
37 Rustaveli Avenue
Tbilisi 0108
Georgia

RETURN TO SENDER
INSUFFICIENT ADDRESS



ICANN

1000/13100



Technical Contact
Gaza Palestine 1213
Palestinian Territory, Occupied

Director (Flavio Neves)
Dili
Timor-Leste

Director (Garth Miller)
Christmas Island
Christmas Island

TO SENDER
INSUFFICIENT ADDRESS



TO SENDER
INSUFFICIENT ADDRESS



TO SENDER
INSUFFICIENT ADDRESS



Technical Director
Samoa Ltd.
Samoa

Agency
Guernsey
Guernsey
Engineer

TO SENDER
INSUFFICIENT ADDRESS



TO SENDER
INSUFFICIENT ADDRESS



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10 DEC 2009 PM 12 T



atk

Tino Vitale

Telecommunication Tokelau Corporation (Teletok)

Fenuafala

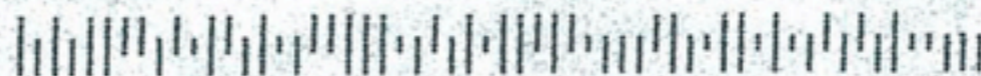
Fakaofu

Tokelau

PAS - ISRAEL
NOT ISRAEL



ICANN



Thanks!

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