



**Internet.nl**

**Ralph Dolmans**

ralph@nlnetlabs.nl

- Nordic Domain Days 2018 -

<https://www.nlnetlabs.nl/>



# Internet Standards Platform



Ministerie van Economische Zaken



RIPE NCC  
RIPE NETWORK COORDINATION CENTRE



FORUM  
STANDAARDISATIE



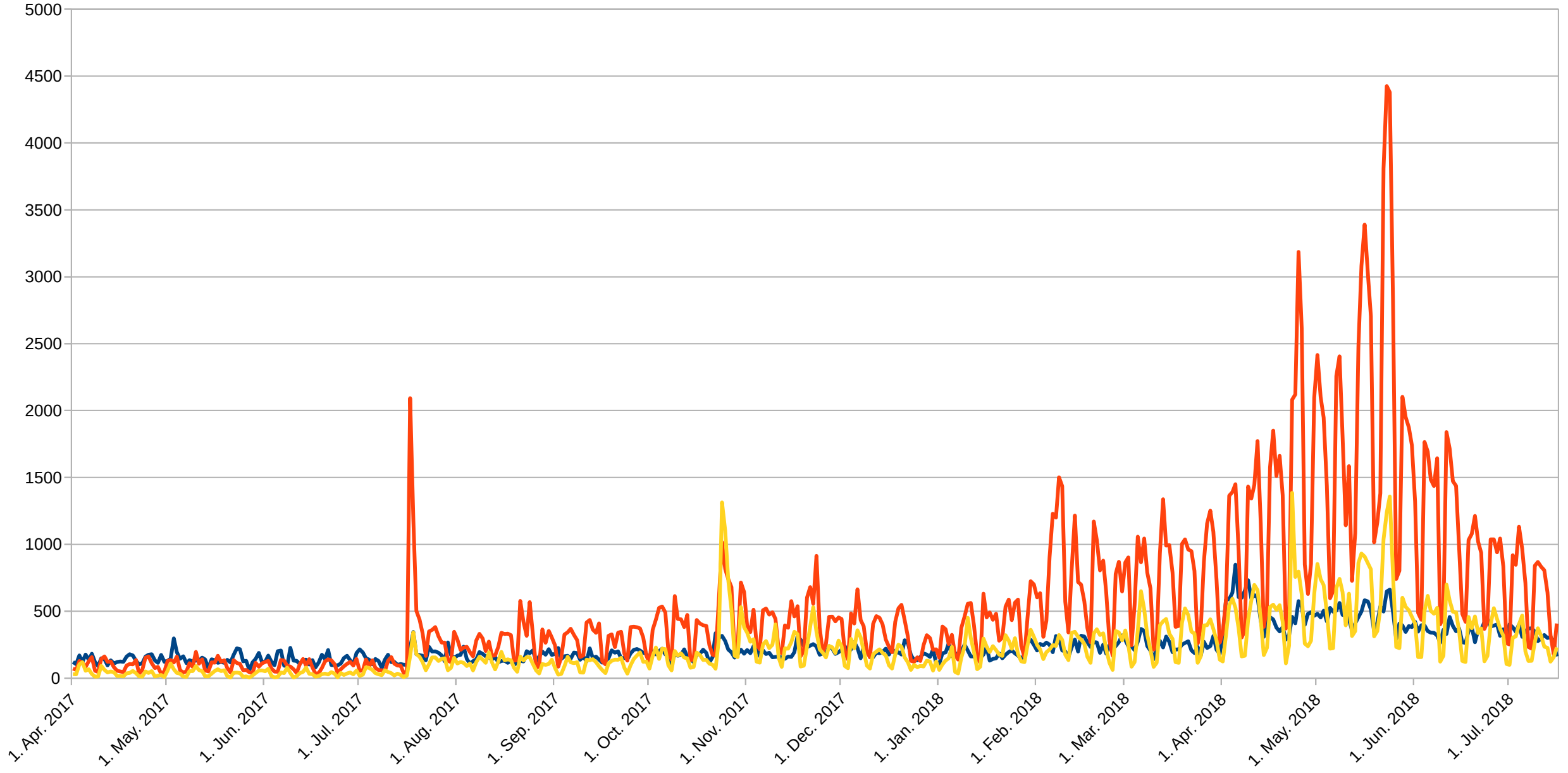
Nationaal Cyber Security Centrum  
Ministerie van Veiligheid en Justitie



# Internet.nl

- User friendly way to test **adoption of modern Internet standards**
  - Not exclusively security standards!
- **Create user demand** by creating awareness
- Three categories: **connection, website and mail**

— Connection — Website — Mail



# Modern Internet standards

## Connection test

- IPv6
- DNSSEC

## Website test

- IPv6
- DNSSEC
- HTTPS
- (Application security & privacy options)

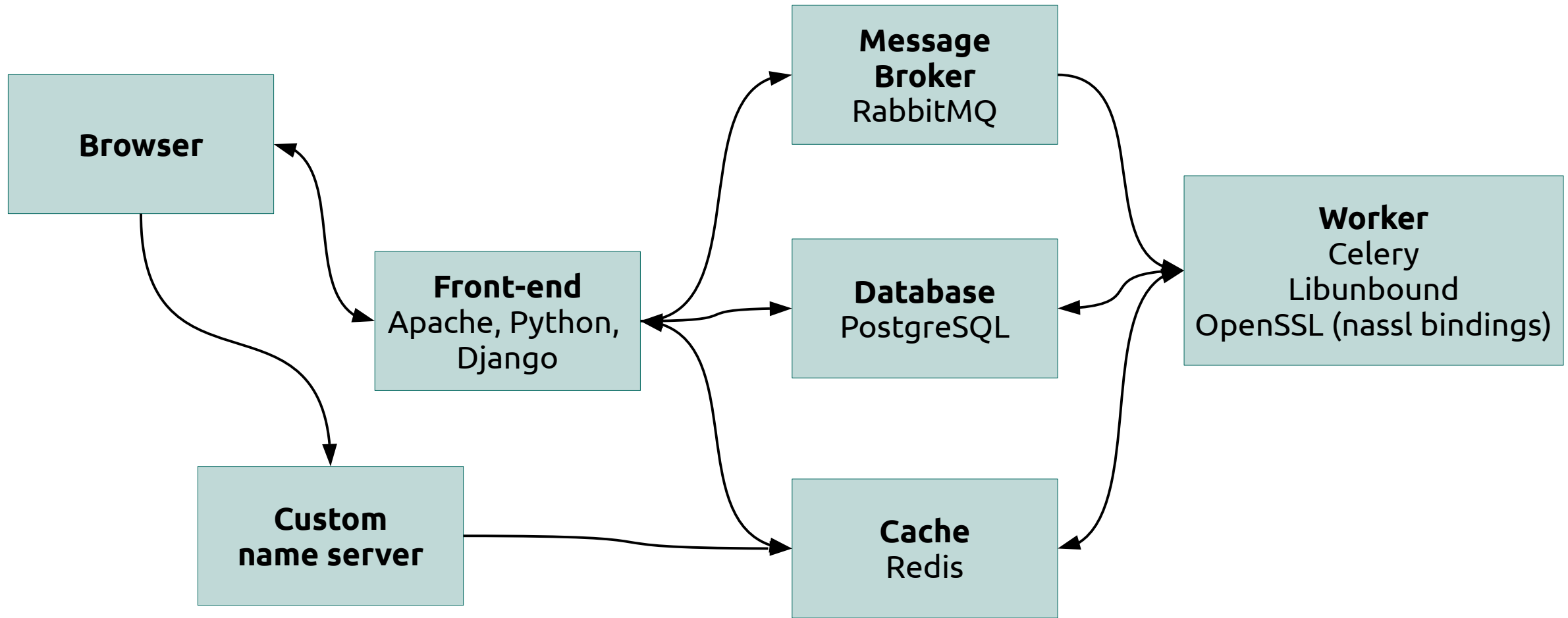
## Email test

- IPv6
- DNSSEC
- DMARC, DKIM, SPF
- STARTTLS + DANE

# 100% scores are possible

- **10k+** unique websites (7.4%)
- **2k+** unique mail domains (4.3%)

# Architecture



# Source available on GitHub

- Apache License 2.0
- Happy to receive **pull requests**
- <https://github.com/NLnetLabs/InternetNL/>

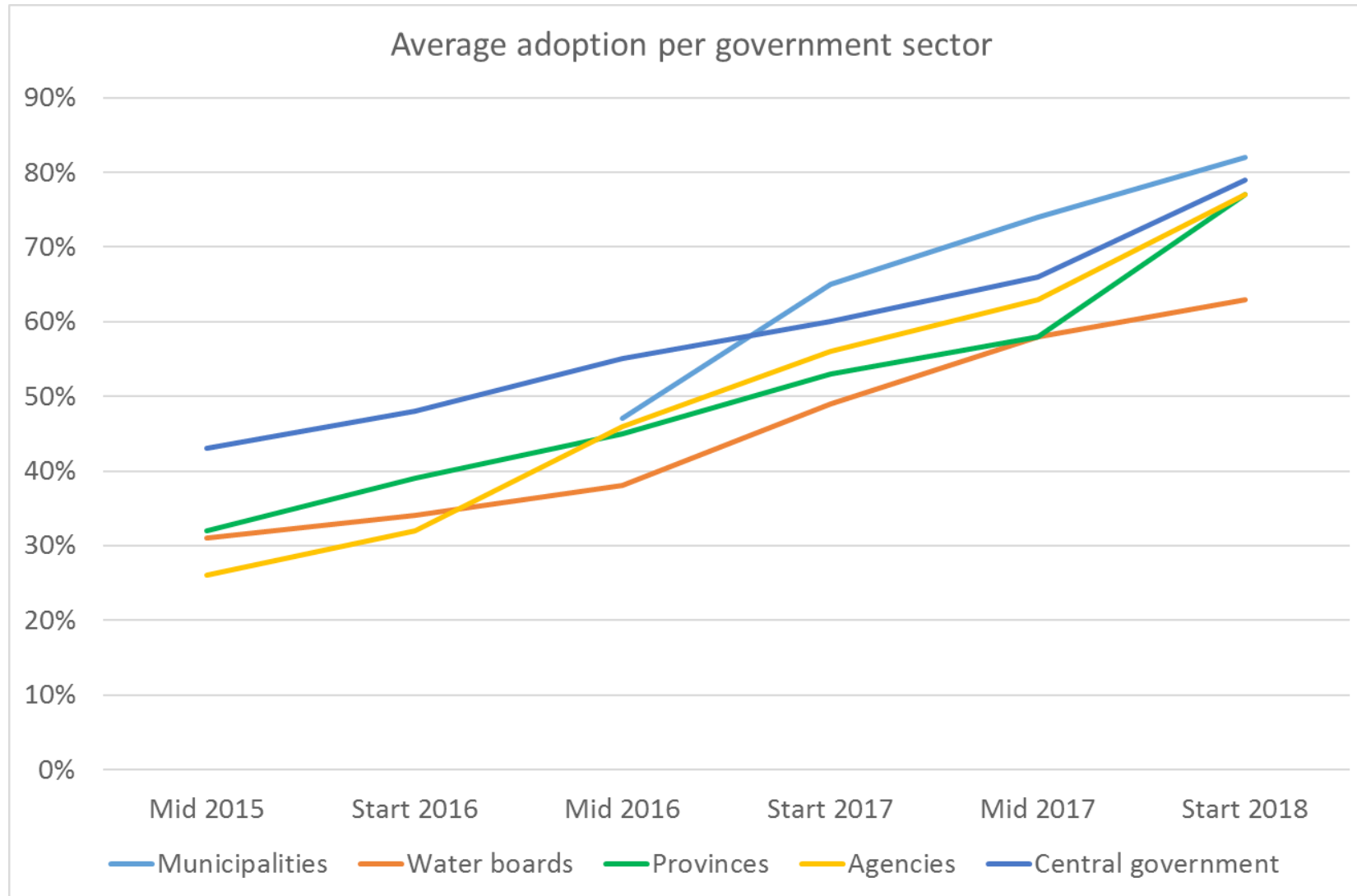




# Batch test

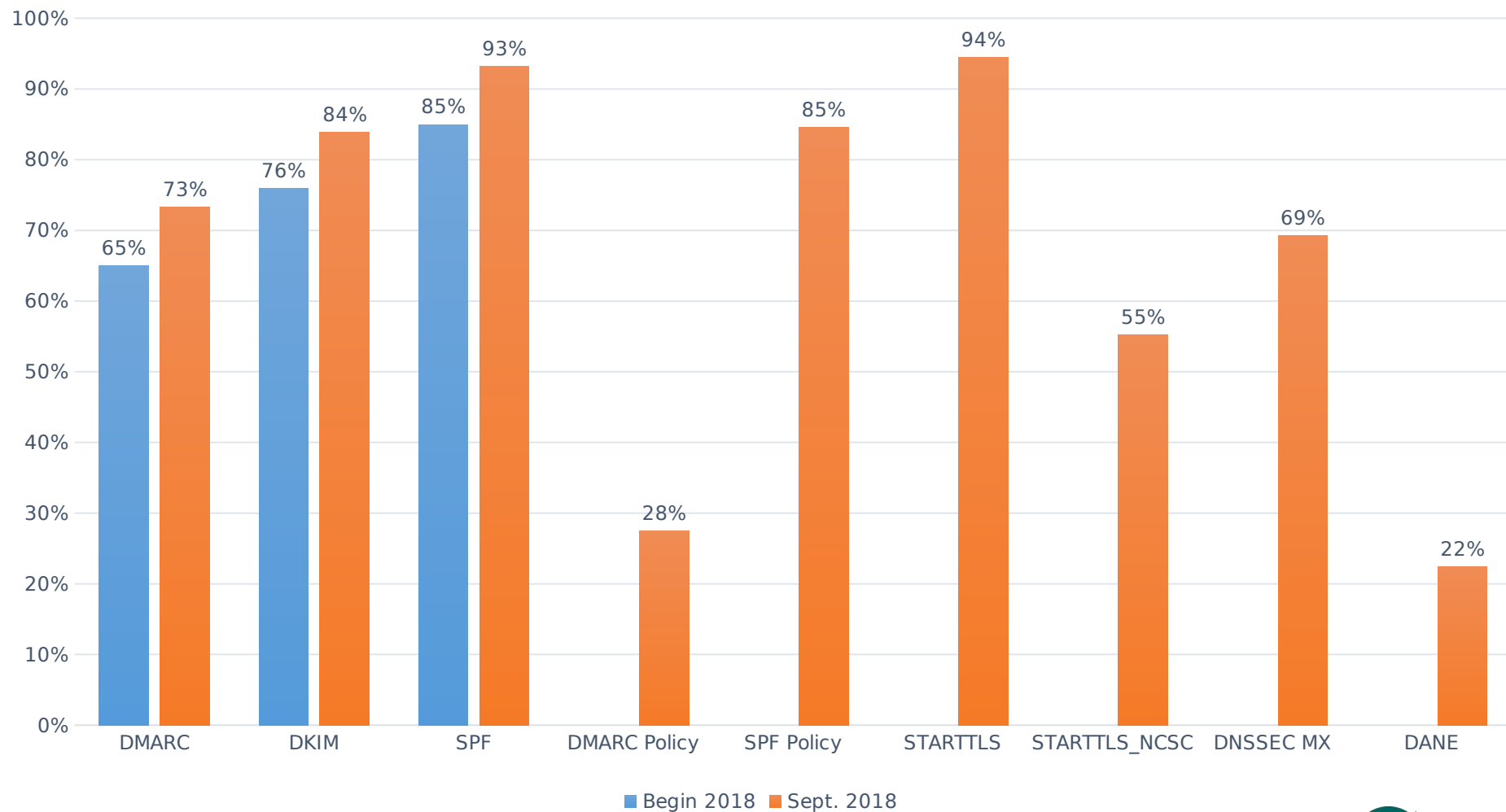
- **RESTful API** for testing large sets of domains
- Periodically test **all Dutch government domains**
- Open for larger audience in the future

# DNSSEC, SPF/DKIM/DMARC adoption



# Adoption mail standards

Gemiddelde adoptie mailstandaarden



# Coming soon

- Verify DKIM and SPF **configuration**
- Verify DMARC, DKIM and SPF **validation**
- Verify DANE **validation**
  
- **TLS 1.3**

# Questions?

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