Promotion of IPv6 deployment in Sweden

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The Swedish Government efforts for promotion of IPv6 deployment

The Government's Digital Agenda for Sweden:

Public authorities should have deployed IPv6 no later than 2013

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Assignments to PTS

- In December 2010 PTS got an assignment from the Government to produce a practical guidance of how the new addressing standard IPv6 can be deployed at an authority level.

  ✓ Objective: to serve as a support for public authorities, municipal authorities and other organisations within the public sector when deploying IPv6.
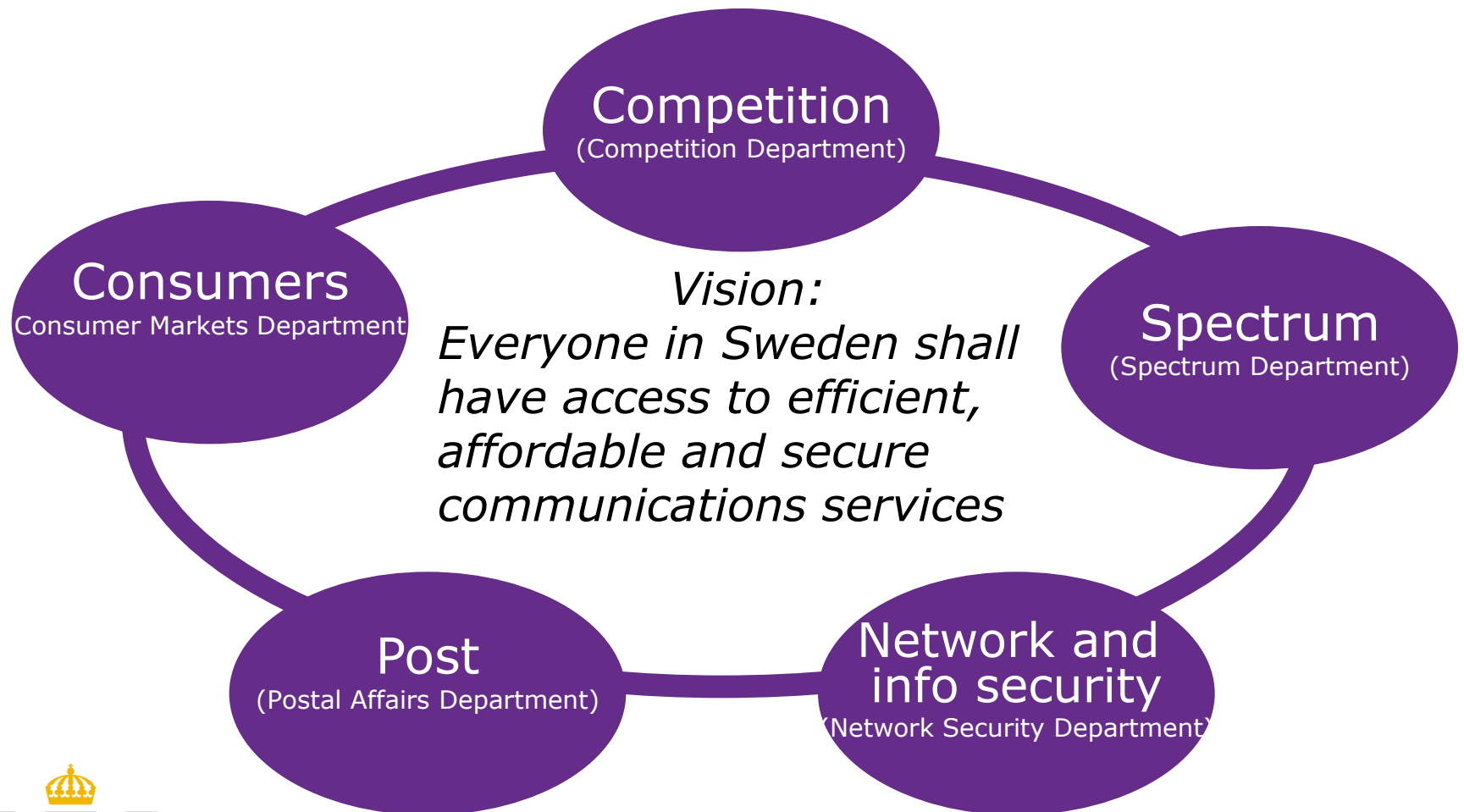
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New IPv6 assignment to PTS

- In June 2012 PTS was given an assignment to promote and follow up the deployment of IPv6 at governmental authorities.

    ✓ Objective: to make it possible to reach the Government's goal concerning the deployment of IPv6 in the public authorities.

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PTS measures to encourage the deployment of IPv6

The Swedish Telecom regulator - independent authority under the Ministry of Enterprise, Energy and Communications

Competition
(Competition Department)

Consumers
Consumer Markets Department

Spectrum
(Spectrum Department)

Vision:
Everyone in Sweden shall have access to efficient, affordable and secure communications services

Post
(Postal Affairs Department)

Network and info security
(Network Security Department)

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# PTS' work with fostering the deployment of IPv6

- In 2009 PTS started deployment of IPv6 in its external e-services including necessary security functions:
- The web (www.pts.se),
- public e-services at http://e-tjanster.pts.se
- DNS servers
- Email server
- Dual homed over IPv4 and IPv6
- Direct access – IPv6 VPN

Swedish national IPv6 Seminars

- Arranged two national IPv6 seminars together with .SE (June 2010 and March 2011).
- Aimed for the public sector (authorities, county administrative boards, municipalities). Vendors, ISP:s, consultants participated were also there.
- Approximately 300 participants.
- The Government, PTS, the RIPE NCC, ISP:s, vendors, etc. participated as speakers.

Assignment from the government

- In October 2011 PTS submitted the guidance to the Government.

- It's a guidance on how to perform the deployment of IPv6 in practice.

- The main text provides a general methodology for the deployment

- Appendices provides more specific guidance.
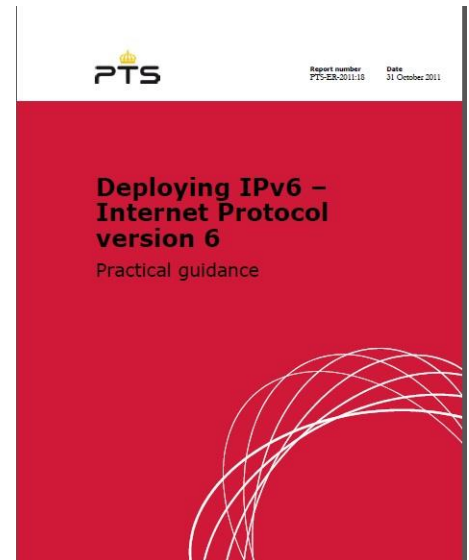
The leading ideas in the guidance

1. Make a decision the deploy IPv6 and set up a project.
2. Start the deployment on time.
3. Deploy in four phases: take stock, plan, activate, manage
4. Deploy IPv6 in parallell with existing IPv4 network.
5. Start on a small scale starting with making the website accessible from outside both via IPv4 and IPv6.
6. When procuring new equipment: use RIPE 501 recommendations for IPv6 etc.

- We would very much appreciate the community's feedback to Anders.Rafting@pts.se or Erika.Hersaeus@pts.se (project leader)

- It can be found at http://www.pts.se/deployipv6
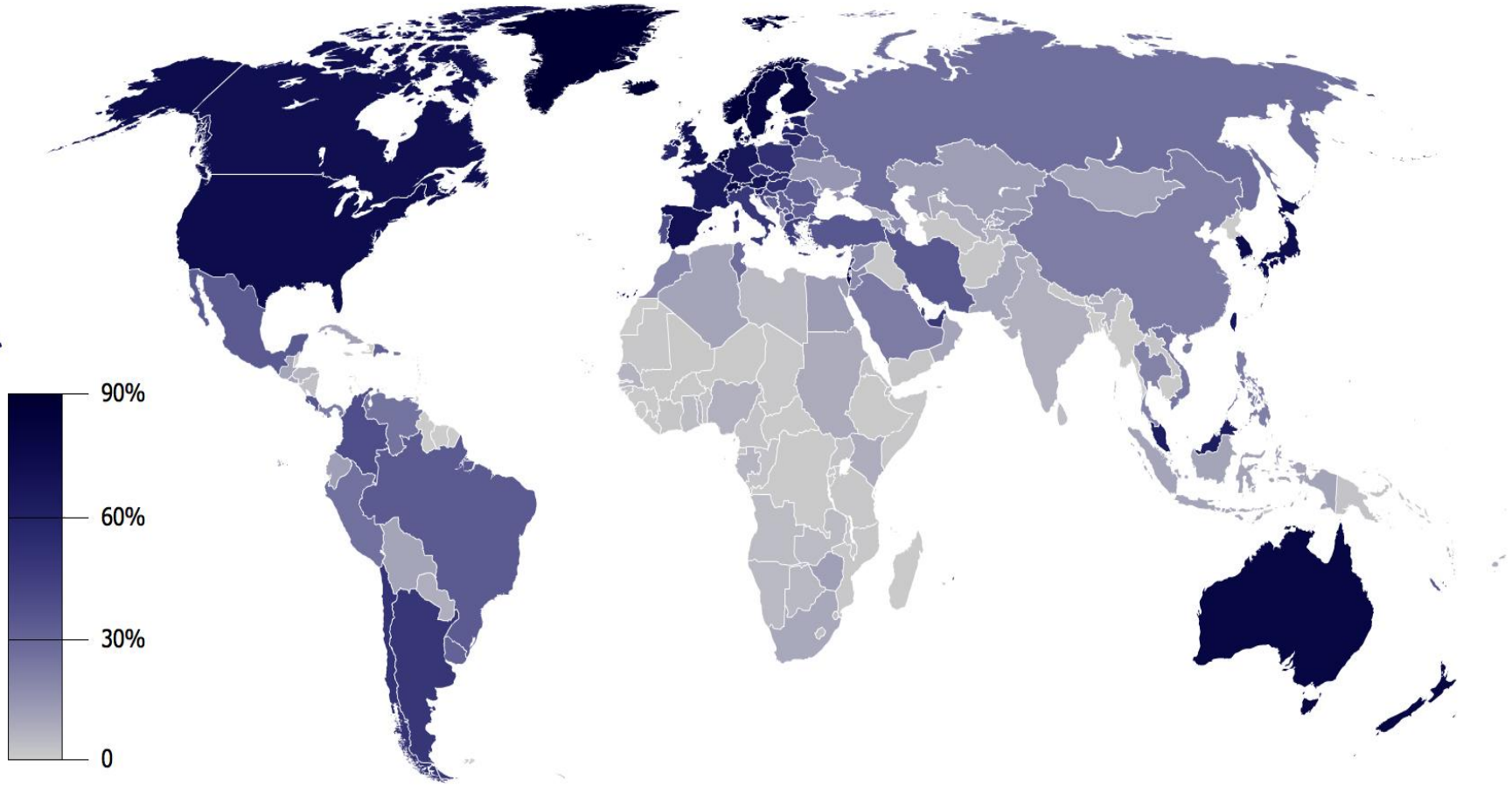
PTS continued work with IPv6

- Carry out the new assignment mentioned to promote and follow up the deployment of IPv6 at governmental authorities.

- Deploy IPv6 on our local wired and wireless networks so that the whole internet and its content can be accessible.

- Publish lists on public authorities which support IPv6 (the web, DNS, email) on PTS' web page.

Authorities with IPv6

- Authorities with AAAA in www or ipv6-name
  - 27 of 239 domains

-
  Authorities with AAAA in its MX record
  - 21 of 239 domains

-
  Authorities with AAAA on some of their DNS servers
  - 89 of 239 domains

Internet usage per region in December 2011
32.7 % on average

90%

60%

30%

0

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Thank you for Your attention!